

Data Solutions from Bradmark



## **Bradmark Surveillance 5 SQL Server Guide**



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# Notice

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# Chapter 1

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## Views

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### Topics:

- [Global](#)
  - [Processes](#)
  - [Active Locks](#)
  - [Blocked Processes](#)
  - [Current Executing Stmts](#)
  - [Database Space Usage](#)
  - [Filegroup Usage](#)
  - [System Settings](#)
-

# Global

Global statistics

## Columns

| Name           | Description                                               |
|----------------|-----------------------------------------------------------|
| (First Column) | Metric name                                               |
| Current        | Current metric value, based on metric type                |
| Average        | Average of current metric value, since collection started |
| High           | Maximum current metric value, since collection started    |

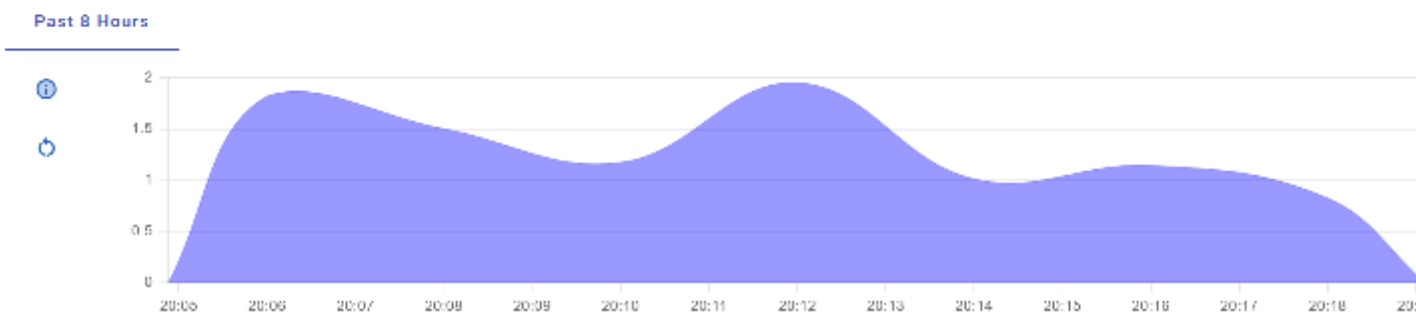
## Entity Requirements

Attributes: None

Minimum database version: 7.0

## Sample

|                        | Current | Average | High |
|------------------------|---------|---------|------|
| SQLSvr CPU %           | 0       | 0       |      |
| SQLSvr CPU % (overall) | 0       | 0       |      |
| SQLSvr Disk IO Sec     | 0       | 0       |      |
| Processes              | 56      | 56      |      |
| Runnable Procs         | 1       | 1       |      |
| Blocked Procs          | 4       | 4       |      |



## Related reference

[GLOBALSTATS](#) on page 168

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[MSSQL\\_GLOB\\_BATCH\\_REQS](#) on page 38

Batch requests/sec exceeds value rule

[MSSQL\\_GLOB\\_BLOCKED](#) on page 39

Blocked Process count exceeds value rule

[MSSQL\\_GLOB\\_LOCKS](#) on page 58

Lock count exceeds value rule

[MSSQL\\_GLOB\\_PROCESSES](#) on page 59

Process count exceeds value rule

[MSSQL\\_GLOB\\_RUNNING\\_JOBS](#) on page 59

Running job count exceeds value rule

[MSSQL\\_GLOB\\_SQLSVR\\_CPU](#) on page 60

SQLServer CPU % exceeds value rule

[MSSQL\\_GLOB\\_SQLSVR\\_CPU\\_OVERALL](#) on page 61

SQLServer CPU % (overall) exceeds value rule

[MSSQL\\_GLOB\\_SQLSVR\\_DISKIO](#) on page 49

SQLSvr Disk IO/sec exceeds value rule

[MSSQL\\_GLOB\\_SQLSVR\\_MEM\\_MB](#) on page 61

SQLServer Memory(MB) exceeds value rule

[MSSQL\\_GLOB\\_TOTAL\\_CPU](#) on page 62

Total CPU % exceeded value rule

[MSSQL\\_GLOB\\_TOTAL\\_DISKIO](#) on page 49

Total Disk IO/sec exceeds value rule

## Processes

---

Processes

### All - Columns

| Name                      | Description                                                                                                 |
|---------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>SPID</b>               | Session ID                                                                                                  |
| <b>Login Name</b>         | Login name                                                                                                  |
| <b>Process Status</b>     | Status:<br><br>dormant<br>running<br>background<br>rollback<br>pending<br>runnable<br>spinloop<br>suspended |
| <b>Command</b>            | General command type being executed                                                                         |
| <b>Program Name</b>       | Application name                                                                                            |
| <b>Physical IOs / Sec</b> | Number of physical I/O operations per second, in interval                                                   |
| <b>Phys IO</b>            | Number of physical I/O operations (disk reads + writes)                                                     |

| Name              | Description                                                                                 |
|-------------------|---------------------------------------------------------------------------------------------|
| Memory Blks       | Memory usage, in pages (pagesize is 8 KB)                                                   |
| CPU Time          | CPU time                                                                                    |
| Blk By            | Blocker session ID, if applicable; may be negative in special circumstances                 |
| Wait Resource     | Text description of the wait resource; for example, a description of the RID that is locked |
| Wait Time         | Duration of time blocked                                                                    |
| Database Name     | Database name                                                                               |
| Hostname          | Client host name                                                                            |
| Host Proc ID      | Client OS PID                                                                               |
| Login Time        | Text description of login time                                                              |
| Last Batch Time   | Text description of last batch statement time                                               |
| # of Open Tran    | Number of open transactions                                                                 |
| Windows Domain    | Windows domain of the client                                                                |
| Windows User Name | Windows user name of the client                                                             |

#### Active - Columns

| Name               | Description                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------------------|
| SPID               | Session ID                                                                                                  |
| Login Name         | Login name                                                                                                  |
| Process Status     | Status:<br><br>dormant<br>running<br>background<br>rollback<br>pending<br>runnable<br>spinloop<br>suspended |
| Command            | General command type being executed                                                                         |
| Program Name       | Application name                                                                                            |
| Physical IOs / Sec | Number of physical I/O operations per second, in interval                                                   |
| Phys IO            | Number of physical I/O operations (disk reads + writes)                                                     |
| Memory Blks        | Memory usage, in pages (pagesize is 8 KB)                                                                   |
| CPU Time           | CPU time                                                                                                    |
| Blk By             | Blocker session ID, if applicable; may be negative in special circumstances                                 |
| Wait Resource      | Text description of the wait resource; for example, a description of the RID that is locked                 |

| Name                     | Description                                   |
|--------------------------|-----------------------------------------------|
| <b>Wait Time</b>         | Duration of time blocked                      |
| <b>Database Name</b>     | Database name                                 |
| <b>Hostname</b>          | Client host name                              |
| <b>Host Proc ID</b>      | Client OS PID                                 |
| <b>Login Time</b>        | Text description of login time                |
| <b>Last Batch Time</b>   | Text description of last batch statement time |
| <b># of Open Tran</b>    | Number of open transactions                   |
| <b>Windows Domain</b>    | Windows domain of the client                  |
| <b>Windows User Name</b> | Windows user name of the client               |

### Waiting - Columns

| Name                      | Description                                                                                                 |
|---------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>SPID</b>               | Session ID                                                                                                  |
| <b>Login Name</b>         | Login name                                                                                                  |
| <b>Process Status</b>     | Status:<br><br>dormant<br>running<br>background<br>rollback<br>pending<br>runnable<br>spinloop<br>suspended |
| <b>Command</b>            | General command type being executed                                                                         |
| <b>Program Name</b>       | Application name                                                                                            |
| <b>Physical IOs / Sec</b> | Number of physical I/O operations per second, in interval                                                   |
| <b>Phys IO</b>            | Number of physical I/O operations (disk reads + writes)                                                     |
| <b>Memory Blks</b>        | Memory usage, in pages (pagesize is 8 KB)                                                                   |
| <b>CPU Time</b>           | CPU time                                                                                                    |
| <b>Blk By</b>             | Blocker session ID, if applicable; may be negative in special circumstances                                 |
| <b>Wait Resource</b>      | Text description of the wait resource; for example, a description of the RID that is locked                 |
| <b>Wait Time</b>          | Duration of time blocked                                                                                    |
| <b>Database Name</b>      | Database name                                                                                               |
| <b>Hostname</b>           | Client host name                                                                                            |
| <b>Host Proc ID</b>       | Client OS PID                                                                                               |
| <b>Login Time</b>         | Text description of login time                                                                              |

| Name                     | Description                                   |
|--------------------------|-----------------------------------------------|
| <b>Last Batch Time</b>   | Text description of last batch statement time |
| <b># of Open Tran</b>    | Number of open transactions                   |
| <b>Windows Domain</b>    | Windows domain of the client                  |
| <b>Windows User Name</b> | Windows user name of the client               |

**By DB - Summary - Columns**

| Name                         | Description                                            |
|------------------------------|--------------------------------------------------------|
| <b>Database Name</b>         | Database name                                          |
| <b>Sessions</b>              | Number of sessions                                     |
| <b>Active Sessions</b>       | Number of sessions in the <i>running</i> state         |
| <b>Transactions</b>          | Number of open transactions over all sessions          |
| <b>Inactive Transactions</b> | Number of open transactions over all inactive sessions |
| <b>Memory</b>                | Memory usage over all sessions                         |

**By DB - Details - Columns**

| Name                      | Description                                                                                                 |
|---------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>SPID</b>               | Session ID                                                                                                  |
| <b>Login Name</b>         | Login name                                                                                                  |
| <b>Process Status</b>     | Status:<br><br>dormant<br>running<br>background<br>rollback<br>pending<br>runnable<br>spinloop<br>suspended |
| <b>Command</b>            | General command type being executed                                                                         |
| <b>Program Name</b>       | Application name                                                                                            |
| <b>Physical IOs / Sec</b> | Number of physical I/O operations per second, in interval                                                   |
| <b>Phys IO</b>            | Number of physical I/O operations (disk reads + writes)                                                     |
| <b>Memory Blks</b>        | Memory usage, in pages (pagesize is 8 KB)                                                                   |
| <b>CPU Time</b>           | CPU time                                                                                                    |
| <b>Blk By</b>             | Blocker session ID, if applicable; may be negative in special circumstances                                 |
| <b>Wait Resource</b>      | Text description of the wait resource; for example, a description of the RID that is locked                 |
| <b>Wait Time</b>          | Duration of time blocked                                                                                    |

| Name              | Description                                   |
|-------------------|-----------------------------------------------|
| Database Name     | Database name                                 |
| Hostname          | Client host name                              |
| Host Proc ID      | Client OS PID                                 |
| Login Time        | Text description of login time                |
| Last Batch Time   | Text description of last batch statement time |
| # of Open Tran    | Number of open transactions                   |
| Windows Domain    | Windows domain of the client                  |
| Windows User Name | Windows user name of the client               |

#### By Login - Summary - Columns

| Name                  | Description                                            |
|-----------------------|--------------------------------------------------------|
| Login Name            | Login name                                             |
| Sessions              | Number of sessions                                     |
| Active Sessions       | Number of sessions in the <i>running</i> state         |
| Transactions          | Number of open transactions over all sessions          |
| Inactive Transactions | Number of open transactions over all inactive sessions |
| Memory                | Memory usage over all sessions                         |

#### By Login - Details - Columns

| Name               | Description                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------------------|
| SPID               | Session ID                                                                                                  |
| Login Name         | Login name                                                                                                  |
| Process Status     | Status:<br><br>dormant<br>running<br>background<br>rollback<br>pending<br>runnable<br>spinloop<br>suspended |
| Command            | General command type being executed                                                                         |
| Program Name       | Application name                                                                                            |
| Physical IOs / Sec | Number of physical I/O operations per second, in interval                                                   |
| Phys IO            | Number of physical I/O operations (disk reads + writes)                                                     |
| Memory Blks        | Memory usage, in pages (pagesize is 8 KB)                                                                   |

| Name                     | Description                                                                                 |
|--------------------------|---------------------------------------------------------------------------------------------|
| <b>CPU Time</b>          | CPU time                                                                                    |
| <b>Blk By</b>            | Blocker session ID, if applicable; may be negative in special circumstances                 |
| <b>Wait Resource</b>     | Text description of the wait resource; for example, a description of the RID that is locked |
| <b>Wait Time</b>         | Duration of time blocked                                                                    |
| <b>Database Name</b>     | Database name                                                                               |
| <b>Hostname</b>          | Client host name                                                                            |
| <b>Host Proc ID</b>      | Client OS PID                                                                               |
| <b>Login Time</b>        | Text description of login time                                                              |
| <b>Last Batch Time</b>   | Text description of last batch statement time                                               |
| <b># of Open Tran</b>    | Number of open transactions                                                                 |
| <b>Windows Domain</b>    | Windows domain of the client                                                                |
| <b>Windows User Name</b> | Windows user name of the client                                                             |

#### Blocked Processes - Columns

| Name                | Description              |
|---------------------|--------------------------|
| <b>SPID</b>         | Session ID               |
| <b>Time Blocked</b> | Duration of time blocked |
| <b>User Name</b>    | Login name               |
| <b>KPID</b>         | Thread ID                |

#### Entity Requirements

**Attributes:** None

**Minimum database version:** 9.0

#### Related reference

[BLOCKTREE](#) on page 154

Blocked processes

[DMV\\_CURRENTSHOWPLAN](#) on page 154

SQL plans for current executing statements

[DMV\\_CURRENTSQLTEXT](#) on page 155

SQL text of current executing statements

[DMV\\_SESSIONSUM\\_BYDB](#) on page 167

Session summary by database

[DMV\\_SESSIONSUM\\_BYLOGIN](#) on page 168

Session summary by login name

[PROCESS](#) on page 172

Processes

[BLOCKTREE](#) on page 108

BLOCKTREE store

[DMV\\_CURRENTSHOWPLAN](#) on page 108

DMV\_CURRENTSHOWPLAN store

[DMV\\_CURRENTSQLTEXT](#) on page 109

DMV\_CURRENTSQLTEXT store

[PROCESS](#) on page 126

PROCESS store

[MSSQL\\_PROCESS\\_BLOCKED\\_TIME](#) on page 64

Seconds Blocked exceeds value rule

[MSSQL\\_PROCESS\\_CPU\\_PERCENT](#) on page 65

Process CPU % exceeds value rule

[MSSQL\\_PROCESS\\_CPUSECS](#) on page 65

Process CPU secs exceeds value rule

[MSSQL\\_PROCESS\\_DECEASED\\_SPID](#) on page 66

Record Deceased SPIDs rule

[MSSQL\\_PROCESS\\_NEW\\_SPID](#) on page 67

Record New SPIDs rule

[MSSQL\\_PROCESS\\_PHYSIO\\_RATE](#) on page 67

Physical IO rate exceeds value rule

[MSSQL\\_PROCESS\\_STATUS](#) on page 68

Process status like value rule

## Active Locks

---

Locks

### Comments

Only the first 10,000 locks per session ID are selected, and overall, only the first 30,000 rows are returned.

### Columns

| Name      | Description                                                                                                                                                                                                                           |     |             |    |                 |    |          |     |        |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------|----|-----------------|----|----------|-----|--------|
| Database  | Database name                                                                                                                                                                                                                         |     |             |    |                 |    |          |     |        |
| Object    | Object name                                                                                                                                                                                                                           |     |             |    |                 |    |          |     |        |
| IndexID   | Index ID                                                                                                                                                                                                                              |     |             |    |                 |    |          |     |        |
| Lock Type | Resource type, including (but not limited to): <table> <tr> <td>APP</td><td>Application</td></tr> <tr> <td>AU</td><td>Allocation Unit</td></tr> <tr> <td>DB</td><td>Database</td></tr> <tr> <td>EXT</td><td>Extent</td></tr> </table> | APP | Application | AU | Allocation Unit | DB | Database | EXT | Extent |
| APP       | Application                                                                                                                                                                                                                           |     |             |    |                 |    |          |     |        |
| AU        | Allocation Unit                                                                                                                                                                                                                       |     |             |    |                 |    |          |     |        |
| DB        | Database                                                                                                                                                                                                                              |     |             |    |                 |    |          |     |        |
| EXT       | Extent                                                                                                                                                                                                                                |     |             |    |                 |    |          |     |        |

| Name            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | <b>FIL</b><br>File<br><b>HBT</b><br>HOBT<br><b>KEY</b><br>Key (i.e. unique index)<br><b>MD</b><br>Metadata<br><b>PAG</b><br>Page<br><b>RID</b><br>Row ID<br><b>TAB</b><br>Table                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Resource</b> | Description of lock resource; for RID type, this is %%lockres%% on the table row                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Mode</b>     | Lock request mode, including (not not limited to):<br><b>BU</b><br>Bulk operation<br><b>IS</b><br>Intent Shared<br><b>IU</b><br>Intent Update<br><b>IX</b><br>Intent Exclusive<br><b>RangeIn-Null</b><br>Insert Key-Range + Null<br><b>RangeIn-S</b><br>Key-Range Conversion, RangeIn-Null + S<br><b>RangeIn-U</b><br>Key-Range Conversion, RangeIn-Null + U<br><b>RangeIn-X</b><br>Key-Range Conversion, RangeIn-Null + X<br><b>RangeS-S</b><br>Shared Key-Range + Shared<br><b>RangeS-U</b><br>Shared Key-Range + Update<br><b>RangeX-S</b><br>Key-Range Conversion, RangeIn-Null + RangeS-S<br><b>RangeX-U</b> |

| Name             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  | <p>Key-Range Conversion, RangeIn-Null + RangeS-U</p> <p><b>RangeX-X</b></p> <p>Exclusive Key-Range + Exclusive</p> <p><b>S</b></p> <p>Shared</p> <p><b>Sch-M</b></p> <p>Schema modification</p> <p><b>Sch-S</b></p> <p>Schema stability</p> <p><b>SIU</b></p> <p>Shared Intent Update</p> <p><b>SIX</b></p> <p>Shared Intent Exclusive</p> <p><b>U</b></p> <p>Update</p> <p><b>UIX</b></p> <p>Update Intent Exclusive</p> <p><b>X</b></p> <p>Exclusive</p> |
| <b>Status</b>    | <p>Request status, including (but not limited to):</p> <p><b>CNVT</b></p> <p>Converting (waiting)</p> <p><b>GRANT</b></p> <p>Granted</p> <p><b>WAIT</b></p> <p>Waiting</p>                                                                                                                                                                                                                                                                                 |
| <b>SPID</b>      | Session ID                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>User Name</b> | Login name                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

### Entity Requirements

**Attributes:** None

**Minimum database version:** 9.0

### Related reference

[LOCKS](#) on page 170

Locks

[LOCKS](#) on page 124

LOCKS store

## Blocked Processes

---

Blocktrees of processes, including blockers and waiters

### Comments

When a process must wait to acquire a lock, it is a *waiter*. The other process that already has the lock (and is causing the waiter to wait) is a *blocker*.

This view contains rows for both the blocker processes and the waiter processes in the database. If the row is a blocker process, then BLOCKER = 0. If the row is a waiter process, then the BLOCKER column has information about its immediate blocker.

Waiters being blocked by a blocker can themselves also block other waiters, potentially forming a *blocktree* involving many processes. Thus, a row can be a waiter and a blocker, in some cases (and can involve different locks).

### Columns

| Name                | Description                                                         |
|---------------------|---------------------------------------------------------------------|
| <b>SPID</b>         | spid                                                                |
| <b>Blocker</b>      | Blocker session process ID (SPID); 0 = the row is a blocker process |
| <b>Time Blocked</b> | Duration of time blocked                                            |
| <b>User Name</b>    | Login name                                                          |
| <b>KPID</b>         | Thread ID                                                           |

### Entity Requirements

**Attributes:** None

**Minimum database version:** 9.0

### Sample

update blocked2\_tab set a=a

UPDATE

Table Update  
(Update)  
Cost: 75%

Table Scan  
[blocked2\_tab]  
Cost: 25%

Close

5 rows @ 7/13/2026, 8:03:19 PM

| SPID | Blocker | Time Blocked | User Name | KPID |
|------|---------|--------------|-----------|------|
| 69   | 67      | 14s          | ed40      | 54   |
| 70   | 67      | 14s          | ed40      | 29   |
| 71   | 70      | 14s          | ed40      | 61   |
| 66   | 0       | 17s          | ed40      | 23   |

Session ID: 71

SQL Text

SQL Plan

update blocked2\_tab set a=a

Hide

update blocked2\_tab set a=a

UPDATE

Table Update  
(Update)  
Cost: 75%

Table Scan  
[blocked2\_tab]  
Cost: 25%

### Related reference

- [BLOCKTREE](#) on page 154  
Blocked processes
- [DMV\\_CURRENTSHOWPLAN](#) on page 154  
SQL plans for current executing statements
- [DMV\\_CURRENTSQLTEXT](#) on page 155  
SQL text of current executing statements
- [BLOCKTREE](#) on page 108  
BLOCKTREE store
- [DMV\\_CURRENTSHOWPLAN](#) on page 108  
DMV\_CURRENTSHOWPLAN store
- [DMV\\_CURRENTSQLTEXT](#) on page 109  
DMV\_CURRENTSQLTEXT store
- [MSSQL\\_BLOCKTREE\\_WAITER](#) on page 38  
Waiter has been blocked over time thresholds rule

## Current Executing Stmts

Current executing statements

## Columns

| Name                   | Description                                                           |
|------------------------|-----------------------------------------------------------------------|
| <b>Session ID</b>      | Session ID                                                            |
| <b>Elapsed Time</b>    | Elapsed time                                                          |
| <b>CPU Time</b>        | CPU time                                                              |
| <b>Login</b>           | Login name                                                            |
| <b>Logical IO</b>      | Delta number of logical reads + Delta number of physical writes       |
| <b>Physical IO</b>     | Delta number of physical reads + Delta number of physical writes      |
| <b>Database</b>        | Database name                                                         |
| <b>Start Time</b>      | Start time of the statement                                           |
| <b>Program Name</b>    | Name of client program                                                |
| <b>Logical Reads</b>   | Number of logical reads                                               |
| <b>Physical Reads</b>  | Number of physical reads                                              |
| <b>Physical Writes</b> | Number of physical writes                                             |
| <b>Cache Miss %</b>    | Data cache miss %, or how often logical reads required physical reads |
| <b>SQLID</b>           | SQL ID; created by Surveillance (based on SQL handle)                 |
| <b>SQL Text</b>        | SQL text preview                                                      |
| <b>Request ID</b>      | Request ID                                                            |

## Entity Requirements

**Attributes:** DMV

**Minimum database version:** 9.0

## Sample

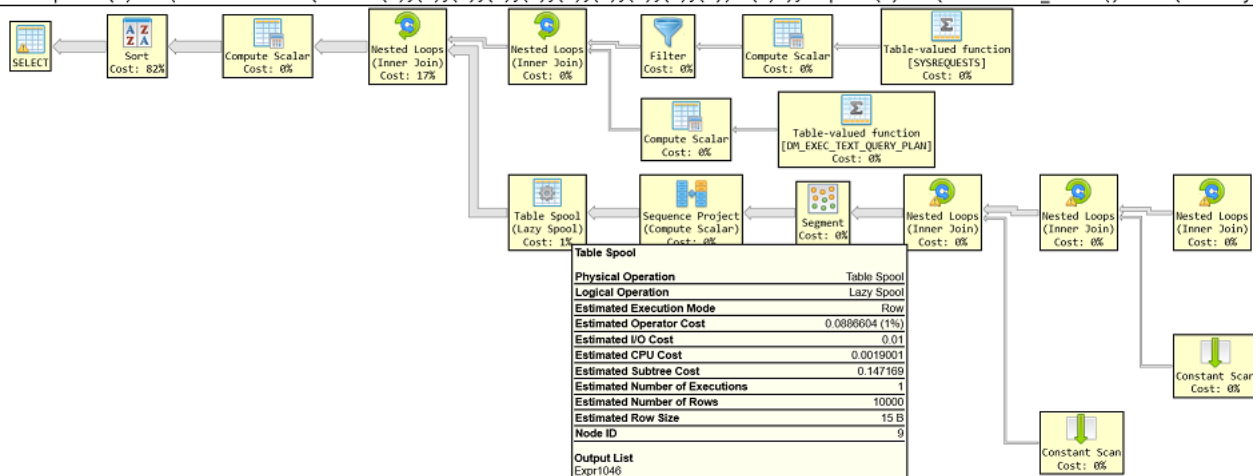
| Session ID | Elapsed Time  | CPU Time ↓ | Login               | Logical IO | Physical IO | Database          |
|------------|---------------|------------|---------------------|------------|-------------|-------------------|
| 66         | 10m 31s 898ms | 37ms       | ed40                |            |             | master            |
| 65         | 2ms           | 2ms        | ed50                |            |             | master            |
| 52         | 2m 50s 539ms  |            | NT AUTHORITY\SYSTEM |            |             | OperationsManager |
| 71         | 10m 28s 324ms |            | ed40                |            |             | master            |
| 70         | 10m 28s 626ms |            | ed40                |            |             | master            |

Session ID: 65      [SQL Text](#)      [SQL Plan](#)

```
with
  bmpivot (n) as (
    select
      top 10000 n
    from
      #bmpivot
  )
select
  r.session_id,
  r.request_id,
  cast(
    substring(convert(varchar(max), r.sql_handle, 2), 17, 32) as varchar(32)
```

Hide

```
with bmpivot0(n) as ( select n from (values (0),(1),(2),(3),(4),(5),(6),(7),(8),(9)) t(n) ), bmpivot(n) as ( select row_number() over (order by
```



## Related reference

DMV\_CURRENTSHOWPLAN on page 154

SQL plans for current executing statements

DMV CURRENTSQLTEXT on page 155

SQL text of current executing statements

DMV CURRENTSTMT on page 156

Current executing statements

DMV CURRENTSHOWPLAN on page 108

DMV CURRENTSHOWPLAN store

[DMV\\_CURRENTSQLTEXT](#) on page 109

DMV\_CURRENTSQLTEXT store

[DMV\\_CURRENTSTMT](#) on page 109

DMV\_CURRENTSTMT store

[MSSQL\\_STMT\\_LONGRUNNING](#) on page 40

Statement running for time > value (seconds) rule

## Database Space Usage

Database space usage

### Columns

| Name                            | Description                                                                                                                                                                     |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Database Name</b>            | Database name                                                                                                                                                                   |
| <b>Status</b>                   | Database state, including (but not limited to):<br><br>ONLINE<br>RESTORING<br>RECOVERING<br>RECOVERY_PENDING<br>SUSPECT<br>EMERGENCY<br>OFFLINE<br>COPYING<br>OFFLINE_SECONDARY |
| <b>Data DB Used</b>             | Amount of space (database) used by (data) filegroups in the database                                                                                                            |
| <b>Data Used %</b>              | % of total usable space (database + OS) that is used by (data) filegroups in the database                                                                                       |
| <b>Data Max Free</b>            | Maximum unused space in total over all OS volumes holding files from (data) filegroups in the database                                                                          |
| <b>Log DB Used</b>              | Amount of space (database) used by log files in the database                                                                                                                    |
| <b>Log Used %</b>               | % of total usable space (database + OS) that is used by the log files in the database                                                                                           |
| <b>Log Max Free</b>             | Maximum unused space in total over all OS volumes holding log files in the database                                                                                             |
| <b>Log Reuse Wait</b>           | Reuse of transaction log space is waiting on this, as of last checkpoint, if applicable                                                                                         |
| <b>Data % Full Of Allocated</b> | % of total usable space (database) that is used by (data) filegroups in the database                                                                                            |
| <b>Data DB Free</b>             | Unused space (database) for (data) filegroups in the database                                                                                                                   |
| <b>Data Allocated</b>           | Amount of space (OS) used by (data) filegroups in the database                                                                                                                  |
| <b>Log % Full Of Allocated</b>  | % of total usable space (database) that is used by log files in the database                                                                                                    |
| <b>Log DB Free</b>              | Unused space (database) for log files in the database                                                                                                                           |

| Name                             | Description                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------------------|
| <b>Log Allocated</b>             | Amount of space (OS) used by log files in the database                                         |
| <b>User Access</b>               | User access setting (MULTI_USER, RESTRICTED_USER, SINGLE_USER)                                 |
| <b>Is Snapshot?</b>              | Whether this is a database snapshot                                                            |
| <b>Snapshot Count</b>            | Number of database snapshots that have this database as the source                             |
| <b>Mirroring Role</b>            | Mirror role of this database (MIRROR, PRINCIPAL), if applicable                                |
| <b>Data Not Online Files</b>     | Total number of files that are not online, over all (data) filegroups in the database          |
| <b>Suspect Files</b>             | Total number of files with suspect pages, over all (data) filegroups in the database           |
| <b>Suspect Pages</b>             | Number of suspect pages in the database                                                        |
| <b>Log Not Online Files</b>      | Total number of log files in the database that are not online                                  |
| <b>Data Read Only Files</b>      | Total number of files that are marked read-only, over all (data) filegroups in the database    |
| <b>Log Read Only Files</b>       | Total number of log files in the database that are marked read-only                            |
| <b>Data Filegroups</b>           | Number of (data) filegroups in the database (excludes log files)                               |
| <b>Data Files</b>                | Total number of files over all (data) filegroups in the database                               |
| <b>Log Files</b>                 | Total number of log files in the database                                                      |
| <b>Is Data Growth Unlimited?</b> | Whether any file in any (data) filegroup in the database has growth unlimited                  |
| <b>Is Log Growth Unlimited?</b>  | Whether any log file in the database has growth unlimited                                      |
| <b>Is Read Only?</b>             | Whether database is marked read-only                                                           |
| <b>Is Data Sparse?</b>           | Whether any file in any (data) filegroup of the database is a sparse file (i.e. for snapshots) |
| <b>Creation Date</b>             | Time when the database was created or renamed; tempdb is recreated on each startup             |
| <b>Is Auto Shrink?</b>           | Whether auto shrink is enabled on the database; this is often problematic                      |
| <b>Is Auto Close?</b>            | Whether auto close is enabled on the database                                                  |

### File Usage - Columns

| Name                  | Description                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Filegroup Name</b> | Filegroup name; LOG = Log file                                                                                      |
| <b>Logical Name</b>   | Logical name of file                                                                                                |
| <b>Status</b>         | File state, including (but not limited to):<br><br>ONLINE<br>RESTORING<br>RECOVERING<br>RECOVERY_PENDING<br>SUSPECT |

| Name                            | Description                                                                                                                                                                              |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | OFFLINE<br>DEFUNCT<br>DB ONLINE<br>DB RESTORING<br>DB RECOVERING<br>DB RECOVERY_PENDING<br>DB SUSPECT<br>DB EMERGENCY<br>DB OFFLINE<br>DB COPYING<br>DB OFFLINE_SECONDARY<br>UNAVAILABLE |
| <b>OS Allocated</b>             | Amount of space (OS) used in the file                                                                                                                                                    |
| <b>% Used</b>                   | % of total usable space (database + OS) that is used                                                                                                                                     |
| <b>Free Space</b>               | Unused space                                                                                                                                                                             |
| <b>OS Next Allocation</b>       | Absolute size of next (grown) file extent allocation at OS level; calculated by Surveillance using many factors                                                                          |
| <b>Data Used % Of Allocated</b> | % of total usable space (database) that is used                                                                                                                                          |
| <b>DB Used</b>                  | Amount of space (database) used in the file                                                                                                                                              |
| <b>DB Free</b>                  | Unused space (database)                                                                                                                                                                  |
| <b>OS % Growth</b>              | % growth applied to new file extents, at the OS level; 0 = Not percentage-based growth                                                                                                   |
| <b>OS Growth</b>                | Absolute growth applied to new file extents, at the OS level; 0 = Percentage-based growth                                                                                                |
| <b>Is Growth Unlimited?</b>     | Whether growth is unlimited (subject to OS space) for the file                                                                                                                           |
| <b>Max Size</b>                 | Maximum size imposed on the file; 0 = No growth allowed, -1 = Unlimited growth (subject to OS space)                                                                                     |
| <b>OS Free</b>                  | Unused space (OS); if OS free space is too small for next (grown) file extent, then that will be shown under <i>OS Unusable</i> , and this value will be 0                               |
| <b>OS Unusable</b>              | Amount of unusable space (OS); for example, OS free space that is too small for next (grown) file extent                                                                                 |
| <b>Suspect Pages</b>            | Number of suspect pages; sourced from <i>msdb..suspect_pages</i>                                                                                                                         |
| <b>Is Read Only?</b>            | Whether the file is marked read-only                                                                                                                                                     |
| <b>Is Sparse?</b>               | Whether this is a sparse file (i.e. for snapshots)                                                                                                                                       |
| <b>File ID</b>                  | File ID                                                                                                                                                                                  |
| <b>Physical Name</b>            | Physical name (path) of the file                                                                                                                                                         |

#### Filegroup Usage - Columns

| Name                  | Description                     |
|-----------------------|---------------------------------|
| <b>Filegroup Name</b> | Filegroup name; LOG = Log files |

| Name                         | Description                                                                                                                                                                                                                                                                           |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>% Used</b>                | % of total usable space (database + OS) that is used                                                                                                                                                                                                                                  |
| <b>Status</b>                | Filegroup status (ONLINE, SUSPECT, UNAVAILABLE)                                                                                                                                                                                                                                       |
| <b>Free Space</b>            | Total unused space over all OS volumes holding files from this filegroup                                                                                                                                                                                                              |
| <b>DB Used Space</b>         | Amount of space (database) used in the filegroup                                                                                                                                                                                                                                      |
| <b>DB Used / Sec</b>         | Additional amount of space (database) used in the filegroup per second, in interval                                                                                                                                                                                                   |
| <b>Avg DB Used / Sec</b>     | Average additional amount of space (database) used in the filegroup per second, since collection started                                                                                                                                                                              |
| <b>Delta DB Used</b>         | Delta amount of space (database) used in the filegroup                                                                                                                                                                                                                                |
| <b>Avg Delta DB Used</b>     | Average of delta amount of space (database) used in the filegroup, since collection started                                                                                                                                                                                           |
| <b>Is Sparse?</b>            | Whether any file in the filegroup is a sparse file (i.e. for snapshots)                                                                                                                                                                                                               |
| <b>Is Growth Unlimited?</b>  | Whether any file in the filegroup has growth unlimited                                                                                                                                                                                                                                |
| <b>DB Free Space</b>         | Unused space (database)                                                                                                                                                                                                                                                               |
| <b>OS Allocated</b>          | Amount of space (OS) used in the filegroup                                                                                                                                                                                                                                            |
| <b>OS Free Space</b>         | Total unused space (OS) over all OS volumes holding files from this filegroup; if OS free space is too small for next (grown) file extent for a file, then that will be shown under <i>OS Unusable Space</i> , and the value considered here, for that file on that volume, will be 0 |
| <b>OS Unusable Space</b>     | Total amount of unusable space (OS) over all OS volumes holding files from this filegroup; for example, OS free space that is too small for next (grown) file extent                                                                                                                  |
| <b>Max Size</b>              | Total maximum size imposed on the filegroup over all files; 0 = On all files, no growth allowed or unlimited growth (subject to OS space); the meaning of this value will be ambiguous if a filegroup has a mix of unlimited growth and limited growth files                          |
| <b>File Count</b>            | Number of files in the filegroup                                                                                                                                                                                                                                                      |
| <b>Not Online File Count</b> | Number of files in the filegroup that are not online                                                                                                                                                                                                                                  |
| <b>Suspect File Count</b>    | Number of files in the filegroup that have suspect pages                                                                                                                                                                                                                              |
| <b>Suspect Pages</b>         | Number of suspect pages in the filegroup                                                                                                                                                                                                                                              |
| <b>Read Only File Count</b>  | Number of files in the filegroup that are marked read-only                                                                                                                                                                                                                            |

### Entity Requirements

**Attributes:** DMV

**Minimum database version:** 9.0

Sample - Failures

| Database Name        | Status     | Data DB Used | Data Used % | Data Max Free | Log DB Used | Log Used %  |
|----------------------|------------|--------------|-------------|---------------|-------------|-------------|
| MountPointDB         | ONLINE     | 2.313 MB     | <div></div> | 3.916 GB      | 0.57 MB     | <div></div> |
| emergency_db         | EMERGENCY  | 0            | <div></div> | 5.595 GB      | 0           | <div></div> |
| MirroredDB           | RECOVERING | 0            | <div></div> | 0             | 0           | <div></div> |
| one_offline_file_db  | ONLINE     | 9.563 MB     | <div></div> | 5.643 GB      | 1.656 MB    | <div></div> |
| multiple_log_file_db | ONLINE     | 2.313 MB     | <div></div> | 5.595 GB      | 0.758 MB    | <div></div> |

DB: emergency\_db   **File Usage**   Filegroup Usage   Index Stats

Filter 2 rows @ 7/13/2026, 8:06:34 PM

| Filegroup Name | Logical Name     | Status       | OS Allocated | % Used      | Free Space |
|----------------|------------------|--------------|--------------|-------------|------------|
| [1]            | emergency_db     | ONLINE       | 4 MB         | <div></div> | 5.595 GB   |
| LOG            | emergency_db_log | DB EMERGENCY | 0            | <div></div> | 5.595 GB   |

Sample - Usage

| Database Name             | Status | Data DB Used | Data Used % ↓ | Data Max Free | Log DB Used | Log Used %  |
|---------------------------|--------|--------------|---------------|---------------|-------------|-------------|
| full_nogrowth_db          | ONLINE | 5.078 GB     | <div></div>   | 0             | 25.555 MB   | <div></div> |
| norad_repos               | ONLINE | 43.212 GB    | <div></div>   | 5.594 GB      | 11.664 MB   | <div></div> |
| many_files_db             | ONLINE | 15 MB        | <div></div>   | 1.5 MB        | 0.781 MB    | <div></div> |
| OperationsManager         | ONLINE | 299.75 MB    | <div></div>   | 0.684 GB      | 30.281 MB   | <div></div> |
| full_db_snapshot_20150918 | ONLINE | 0.502 GB     | <div></div>   | 393.5 MB      | 0           | <div></div> |

DB: full\_nogrowth\_db   **File Usage**   Filegroup Usage   Index Stats

Filter 2 rows @ 7/13/2026, 8:07:38 PM

| Filegroup Name | Logical Name         | Status | OS Allocated | % Used      | Free Space |
|----------------|----------------------|--------|--------------|-------------|------------|
| PRIMARY        | full_nogrowth_db     | ONLINE | 5.078 GB     | <div></div> | 0          |
| LOG            | full_nogrowth_db_log | ONLINE | 3.017 GB     | <div></div> | 8.586 GB   |

**Related reference**  
[DBUSAGE](#) on page 157  
 Database space usage  
[FGUSAGE](#) on page 162

Filegroup space usage

[FILEUSAGE](#) on page 165

File space usage

[DBUSAGE](#) on page 111

DBUSAGE store

[FGUSAGE](#) on page 113

FGUSAGE store

[FILEUSAGE](#) on page 114

FILEUSAGE store

[MSSQL\\_DBUSAGE\\_AUTOSHRINK\\_ON](#) on page 40

Database has auto-shrink enabled, which is often problematic rule

[MSSQL\\_DBUSAGE\\_DATABASE\\_OFFLINE](#) on page 41

Database is in an offline, emergency, or other such critical state rule

[MSSQL\\_DBUSAGE\\_DATABASE\\_RECOVERY](#) on page 42

Database is in a restoring / recovery state rule

[MSSQL\\_DBUSAGE\\_MULTIPLE\\_LOGFILES](#) on page 42

Database has multiple log files, which can be less than optimal rule

[MSSQL\\_DBUSAGE\\_OFFLINE\\_FILES](#) on page 43

Database is online, but has offline files rule

[MSSQL\\_DBUSAGE\\_SUSPECT\\_PAGES](#) on page 43

Database contains suspect pages rule

[MSSQL\\_FILEUSAGE\\_SPACEBOUNDALLOC](#) on page 48

Next file OS allocation exceeds OS free space rule

## Filegroup Usage

Filegroup space usage

### Columns

| Name                     | Description                                                                                              |
|--------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Database Name</b>     | Database name                                                                                            |
| <b>Filegroup Name</b>    | Filegroup name; LOG = Log files                                                                          |
| <b>% Used</b>            | % of total usable space (database + OS) that is used                                                     |
| <b>Status</b>            | Filegroup status (ONLINE, SUSPECT, UNAVAILABLE)                                                          |
| <b>Free Space</b>        | Total unused space over all OS volumes holding files from this filegroup                                 |
| <b>DB Used Space</b>     | Amount of space (database) used in the filegroup                                                         |
| <b>DB Used / Sec</b>     | Additional amount of space (database) used in the filegroup per second, in interval                      |
| <b>Avg DB Used / Sec</b> | Average additional amount of space (database) used in the filegroup per second, since collection started |
| <b>Delta DB Used</b>     | Delta amount of space (database) used in the filegroup                                                   |
| <b>Avg Delta DB Used</b> | Average of delta amount of space (database) used in the filegroup, since collection started              |

| Name                         | Description                                                                                                                                                                                                                                                                           |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Is Sparse?</b>            | Whether any file in the filegroup is a sparse file (i.e. for snapshots)                                                                                                                                                                                                               |
| <b>Is Growth Unlimited?</b>  | Whether any file in the filegroup has growth unlimited                                                                                                                                                                                                                                |
| <b>DB Free Space</b>         | Unused space (database)                                                                                                                                                                                                                                                               |
| <b>OS Allocated</b>          | Amount of space (OS) used in the filegroup                                                                                                                                                                                                                                            |
| <b>OS Free Space</b>         | Total unused space (OS) over all OS volumes holding files from this filegroup; if OS free space is too small for next (grown) file extent for a file, then that will be shown under <i>OS Unusable Space</i> , and the value considered here, for that file on that volume, will be 0 |
| <b>OS Unusable Space</b>     | Total amount of unusable space (OS) over all OS volumes holding files from this filegroup; for example, OS free space that is too small for next (grown) file extent                                                                                                                  |
| <b>Max Size</b>              | Total maximum size imposed on the filegroup over all files; 0 = On all files, no growth allowed or unlimited growth (subject to OS space); the meaning of this value will be ambiguous if a filegroup has a mix of unlimited growth and limited growth files                          |
| <b>File Count</b>            | Number of files in the filegroup                                                                                                                                                                                                                                                      |
| <b>Not Online File Count</b> | Number of files in the filegroup that are not online                                                                                                                                                                                                                                  |
| <b>Suspect File Count</b>    | Number of files in the filegroup that have suspect pages                                                                                                                                                                                                                              |
| <b>Suspect Pages</b>         | Number of suspect pages in the filegroup                                                                                                                                                                                                                                              |
| <b>Read Only File Count</b>  | Number of files in the filegroup that are marked read-only                                                                                                                                                                                                                            |

#### File Usage - Columns

| Name                | Description                                                                                                                                                                                                                                                                                                     |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Logical Name</b> | Logical name of file                                                                                                                                                                                                                                                                                            |
| <b>Status</b>       | File state, including (but not limited to):<br><br>ONLINE<br>RESTORING<br>RECOVERING<br>RECOVERY_PENDING<br>SUSPECT<br>OFFLINE<br>DEFUNCT<br>DB ONLINE<br>DB RESTORING<br>DB RECOVERING<br>DB RECOVERY_PENDING<br>DB SUSPECT<br>DB EMERGENCY<br>DB OFFLINE<br>DB COPYING<br>DB OFFLINE_SECONDARY<br>UNAVAILABLE |

| Name                            | Description                                                                                                                                                |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OS Allocated</b>             | Amount of space (OS) used in the file                                                                                                                      |
| <b>% Used</b>                   | % of total usable space (database + OS) that is used                                                                                                       |
| <b>Free Space</b>               | Unused space                                                                                                                                               |
| <b>OS Next Allocation</b>       | Absolute size of next (grown) file extent allocation at OS level; calculated by Surveillance using many factors                                            |
| <b>Data Used % Of Allocated</b> | % of total usable space (database) that is used                                                                                                            |
| <b>DB Used</b>                  | Amount of space (database) used in the file                                                                                                                |
| <b>DB Free</b>                  | Unused space (database)                                                                                                                                    |
| <b>OS % Growth</b>              | % growth applied to new file extents, at the OS level; 0 = Not percentage-based growth                                                                     |
| <b>OS Growth</b>                | Absolute growth applied to new file extents, at the OS level; 0 = Percentage-based growth                                                                  |
| <b>Is Growth Unlimited?</b>     | Whether growth is unlimited (subject to OS space) for the file                                                                                             |
| <b>Max Size</b>                 | Maximum size imposed on the file; 0 = No growth allowed, -1 = Unlimited growth (subject to OS space)                                                       |
| <b>OS Free</b>                  | Unused space (OS); if OS free space is too small for next (grown) file extent, then that will be shown under <i>OS Unusable</i> , and this value will be 0 |
| <b>OS Unusable</b>              | Amount of unusable space (OS); for example, OS free space that is too small for next (grown) file extent                                                   |
| <b>Suspect Pages</b>            | Number of suspect pages; sourced from <i>msdb..suspect_pages</i>                                                                                           |
| <b>Is Read Only?</b>            | Whether the file is marked read-only                                                                                                                       |
| <b>Is Sparse?</b>               | Whether this is a sparse file (i.e. for snapshots)                                                                                                         |
| <b>File ID</b>                  | File ID                                                                                                                                                    |
| <b>Physical Name</b>            | Physical name (path) of the file                                                                                                                           |

### Entity Requirements

**Attributes:** DMV

**Minimum database version:** 9.0

### Sample

| Database Name             | Filegroup Name | % Used ↓               | Status | Free Space | DB Used Space |
|---------------------------|----------------|------------------------|--------|------------|---------------|
| full_nogrowth_db          | PRIMARY        | <div><div></div></div> | ONLINE | 0          | 5.078 GB      |
| norad_repos               | PRIMARY        | <div><div></div></div> | ONLINE | 5.594 GB   | 43.212 GB     |
| many_files_db             | PRIMARY        | <div><div></div></div> | ONLINE | 1.5 MB     | 15 MB         |
| OperationsManager         | PRIMARY        | <div><div></div></div> | ONLINE | 0.684 GB   | 299.75 MB     |
| full_db_snapshot_20150918 | PRIMARY        | <div><div></div></div> | ONLINE | 393.5 MB   | 0.502 GB      |
| no_growth_db              | PRIMARY        | <div><div></div></div> | ONLINE | 7.688 MB   | 2.313 MB      |
| many_files_db             | LOG            | <div><div></div></div> | ONLINE | 0.805 MB   | 0.781 MB      |

DB: full\_nogrowth\_db, FG: PRIMARY

File Usage

Filter

1 rows @ 7/13/2026, 8:09:14 PM

| Logical Name     | Status | OS Allocated | % Used                 | Free Space | OS Next Allocation | Data Used % Of Allocated |
|------------------|--------|--------------|------------------------|------------|--------------------|--------------------------|
| full_nogrowth_db | ONLINE | 5.078 GB     | <div><div></div></div> | 0          | 0                  | <div><div></div></div>   |

### Related reference

[FGUSAGE](#) on page 162

Filegroup space usage

[FILEUSAGE](#) on page 165

File space usage

[FGUSAGE](#) on page 113

FGUSAGE store

[FILEUSAGE](#) on page 114

FILEUSAGE store

[MSSQL\\_FGUSAGE\\_DATA\\_CRITICAL](#) on page 44

Filegroup usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_DATA\\_INFO](#) on page 45

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_DATA\\_WARNING](#) on page 45

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_LOG\\_CRITICAL](#) on page 46

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_LOG\\_INFO](#) on page 47

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_LOG\\_WARNING](#) on page 47

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

## System Settings

SQL Server settings, or parameters

## Columns

| Name                    | Description                                                   |
|-------------------------|---------------------------------------------------------------|
| <b>Name</b>             | Configuration option name                                     |
| <b>Run Value</b>        | Current runtime value for the configuration option            |
| <b>Configured Value</b> | Configured value for the configuration option                 |
| <b>Minimum</b>          | Minimum value for the configuration option                    |
| <b>Maximum</b>          | Maximum value for the configuration option                    |
| <b>Change Startup</b>   | Difference between the runtime value and the configured value |
| <b>Change Current</b>   | Delta runtime value for the configuration option              |

## Entity Requirements

**Attributes:** None

**Minimum database version:** 7.0

## Related reference

[SP\\_CONFIGURE](#) on page 174  
SQL Server settings, or parameters

[SP\\_CONFIGURE](#) on page 127  
SP\_CONFIGURE store



# Chapter 2

## Rules By Category

## Topics:

- SQL
- Storage
- Other

## SQL

---

### MSSQL\_BLOCKTREE\_WAITER

Waiter has been blocked over time thresholds rule

#### Alert Message

spid #@spid@ has been blocked by spid #@blocker@ for @time\_blocked@ seconds.

#### Detail View

[Blocked Processes](#) on page 22

#### Default Rule Properties

|                   |             |
|-------------------|-------------|
| Severity          | 20          |
| Event Type        | SET / RESET |
| Refresh           | 60 seconds  |
| Occurrence Window | 1 / 1       |
| Enabled           | No          |
| Attributes        | None        |

#### Source Collection

BLOCKTREE

#### Related reference

[BLOCKTREE](#) on page 154

Blocked processes

[BLOCKTREE](#) on page 108

BLOCKTREE store

[Blocked Processes](#) on page 22

Blocktrees of processes, including blockers and waiters

### MSSQL\_GLOB\_BATCH\_REQS

Batch requests/sec exceeds value rule

#### Alert Message

Batch request rate exceeded @VALUE@. Curr = @"Batch Reqs Sec".Current@. Avg = @"Batch Reqs Sec".Avg@.

#### Detail View

[Global](#) on page 12

#### Default Rule Properties

|            |     |
|------------|-----|
| Severity   | 10  |
| Event Type | STD |

|                          |            |
|--------------------------|------------|
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 1 / 1      |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

### Source Collection

GLOBALSTATS

### Related reference

[GLOBALSTATS](#) on page 168

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[Global](#) on page 12

Global statistics

## MSSQL\_GLOB\_BLOCKED

Blocked Process count exceeds value rule

### Alert Message

Blocked Process count exceeded @VALUE@. Curr = @"Blocked Procs".Current@. Avg = @"Blocked Procs".Avg@. Peak = @"Blocked Procs".Max@.

### Detail View

[Global](#) on page 12

### Default Rule Properties

|                          |            |
|--------------------------|------------|
| <b>Severity</b>          | 20         |
| <b>Event Type</b>        | STD        |
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 1 / 1      |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

### Source Collection

GLOBALSTATS

### Related reference

[GLOBALSTATS](#) on page 168

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[Global](#) on page 12

Global statistics

## MSSQL\_STMT\_LONGRUNNING

Statement running for time > value (seconds) rule

### Alert Message

Statement (sid=@session\_id@, user=@login\_name@, app=@program\_name@) has been running over @VALUE@ seconds (start=@start\_time@).

### Detail View

[Current Executing Stmts](#) on page 23

### Default Rule Properties

|                   |             |
|-------------------|-------------|
| Severity          | 20          |
| Event Type        | SET / RESET |
| Refresh           | 30 seconds  |
| Occurrence Window | 1 / 1       |
| Enabled           | Yes         |
| Attributes        | DMV         |

### Source Collection

DMV\_CURRENTSTMT

### Related reference

[DMV\\_CURRENTSTMT](#) on page 156

Current executing statements

[DMV\\_CURRENTSTMT](#) on page 109

DMV\_CURRENTSTMT store

[Current Executing Stmts](#) on page 23

Current executing statements

## Storage

---

## MSSQL\_DBUSAGE\_AUTOSHRINK\_ON

Database has auto-shrink enabled, which is often problematic rule

### Alert Message

Database [@DB\_NAME@] has auto-shrink enabled

### Detail View

[Database Space Usage](#) on page 26

### Default Rule Properties

|            |             |
|------------|-------------|
| Severity   | 20          |
| Event Type | SET / RESET |

|                          |             |
|--------------------------|-------------|
| <b>Refresh</b>           | 300 seconds |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | Yes         |
| <b>Attributes</b>        | None        |

### Source Collection

DBUSAGE

### Related reference

[DBUSAGE](#) on page 157

Database space usage

[DBUSAGE](#) on page 111

DBUSAGE store

[Database Space Usage](#) on page 26

Database space usage

## MSSQL\_DBUSAGE\_DATABASE\_OFFLINE

Database is in an offline, emergency, or other such critical state rule

### Alert Message

Database [@DB\_NAME@] is offline with status [@STATUS@]

### Detail View

[Database Space Usage](#) on page 26

### Default Rule Properties

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 30          |
| <b>Event Type</b>        | SET / RESET |
| <b>Refresh</b>           | 300 seconds |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | Yes         |
| <b>Attributes</b>        | None        |

### Source Collection

DBUSAGE

### Related reference

[DBUSAGE](#) on page 157

Database space usage

[DBUSAGE](#) on page 111

DBUSAGE store

[Database Space Usage](#) on page 26

Database space usage

## MSSQL\_DBUSAGE\_DATABASE\_RECOVERY

Database is in a restoring / recovery state rule

### Alert Message

Database [@DB\_NAME@] is in recovery with status [@STATUS@]

### Detail View

[Database Space Usage](#) on page 26

### Default Rule Properties

|                   |             |
|-------------------|-------------|
| Severity          | 20          |
| Event Type        | SET / RESET |
| Refresh           | 300 seconds |
| Occurrence Window | 1 / 1       |
| Enabled           | Yes         |
| Attributes        | None        |

### Source Collection

DBUSAGE

### Related reference

[DBUSAGE](#) on page 157

Database space usage

[DBUSAGE](#) on page 111

DBUSAGE store

[Database Space Usage](#) on page 26

Database space usage

## MSSQL\_DBUSAGE\_MULTIPLE\_LOGFILES

Database has multiple log files, which can be less than optimal rule

### Alert Message

Database [@DB\_NAME@] has @LOG\_FILE\_COUNT@ log files, instead of just one

### Detail View

[Database Space Usage](#) on page 26

### Default Rule Properties

|                   |             |
|-------------------|-------------|
| Severity          | 20          |
| Event Type        | SET / RESET |
| Refresh           | 300 seconds |
| Occurrence Window | 1 / 1       |
| Enabled           | Yes         |

|                   |      |
|-------------------|------|
| <b>Attributes</b> | None |
|-------------------|------|

### Source Collection

DBUSAGE

### Related reference

[DBUSAGE](#) on page 157

Database space usage

[DBUSAGE](#) on page 111

DBUSAGE store

[Database Space Usage](#) on page 26

Database space usage

## MSSQL\_DBUSAGE\_OFFLINE\_FILES

Database is online, but has offline files rule

### Alert Message

Database [@DB\_NAME@] is online, but has offline files [Data: @DATA\_NOTONLINE\_FILE\_COUNT@, Log: @LOG\_NOTONLINE\_FILE\_COUNT@]

### Detail View

[Database Space Usage](#) on page 26

### Default Rule Properties

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 30          |
| <b>Event Type</b>        | SET / RESET |
| <b>Refresh</b>           | 300 seconds |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | Yes         |
| <b>Attributes</b>        | None        |

### Source Collection

DBUSAGE

### Related reference

[DBUSAGE](#) on page 157

Database space usage

[DBUSAGE](#) on page 111

DBUSAGE store

[Database Space Usage](#) on page 26

Database space usage

## MSSQL\_DBUSAGE\_SUSPECT\_PAGES

Database contains suspect pages rule

**Alert Message**

Database [@DB\_NAME@] has @DATA\_SUSPECT\_PAGES@ suspect pages

**Detail View**

[Database Space Usage](#) on page 26

**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 30          |
| <b>Event Type</b>        | SET / RESET |
| <b>Refresh</b>           | 300 seconds |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | Yes         |
| <b>Attributes</b>        | None        |

**Source Collection**

DBUSAGE

**Related reference**

[DBUSAGE](#) on page 157

Database space usage

[DBUSAGE](#) on page 111

DBUSAGE store

[Database Space Usage](#) on page 26

Database space usage

**MSSQL\_FGUSAGE\_DATA\_CRITICAL**

Filegroup usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

**Alert Message**

CRITICAL: Database [@DB\_NAME@] filegroup [@FG\_NAME@] is @USED\_PCT@% full with only @FREE\_MB@ MB free

**Detail View**

[Filegroup Usage](#) on page 31

**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 30          |
| <b>Event Type</b>        | SET / RESET |
| <b>Refresh</b>           | 300 seconds |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | Yes         |
| <b>Attributes</b>        | None        |

**Source Collection**

FGUSAGE

**Related reference**[FGUSAGE](#) on page 162

Filegroup space usage

[FGUSAGE](#) on page 113

FGUSAGE store

[Filegroup Usage](#) on page 31

Filegroup space usage

**MSSQL\_FGUSAGE\_DATA\_INFO**

Filegroup usage &gt; value (percentage full) and if small volume, free space &lt; value (MB free) rule

**Alert Message**

INFO: Database [@DB\_NAME@] filegroup [@FG\_NAME@] is @USED\_PCT@% full with only @FREE\_MB@ MB free

**Detail View**[Filegroup Usage](#) on page 31**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 10          |
| <b>Event Type</b>        | SET / RESET |
| <b>Refresh</b>           | 300 seconds |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | No          |
| <b>Attributes</b>        | None        |

**Source Collection**

FGUSAGE

**Related reference**[FGUSAGE](#) on page 162

Filegroup space usage

[FGUSAGE](#) on page 113

FGUSAGE store

[Filegroup Usage](#) on page 31

Filegroup space usage

**MSSQL\_FGUSAGE\_DATA\_WARNING**

Filegroup usage &gt; value (percentage full) and if small volume, free space &lt; value (MB free) rule

**Alert Message**

WARNING: Database [@DB\_NAME@] filegroup [@FG\_NAME@] is @USED\_PCT@% full with only @FREE\_MB@ MB free

**Detail View**

[Filegroup Usage](#) on page 31

**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 20          |
| <b>Event Type</b>        | SET / RESET |
| <b>Refresh</b>           | 300 seconds |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | Yes         |
| <b>Attributes</b>        | None        |

**Source Collection**

FGUSAGE

**Related reference**

[FGUSAGE](#) on page 162

Filegroup space usage

[FGUSAGE](#) on page 113

FGUSAGE store

[Filegroup Usage](#) on page 31

Filegroup space usage

**MSSQL\_FGUSAGE\_LOG\_CRITICAL**

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

**Alert Message**

CRITICAL: Database [@DB\_NAME@] Log is @USED\_PCT@% full with only @FREE\_MB@ MB free

**Detail View**

[Filegroup Usage](#) on page 31

**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 30          |
| <b>Event Type</b>        | SET / RESET |
| <b>Refresh</b>           | 300 seconds |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | Yes         |
| <b>Attributes</b>        | None        |

**Source Collection**

FGUSAGE

**Related reference**

[FGUSAGE](#) on page 162

Filegroup space usage

[FGUSAGE](#) on page 113

FGUSAGE store

[Filegroup Usage](#) on page 31

Filegroup space usage

**MSSQL\_FGUSAGE\_LOG\_INFO**

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

**Alert Message**

INFO: Database [@DB\_NAME@] Log is @USED\_PCT@% full with only @FREE\_MB@ MB free

**Detail View**

[Filegroup Usage](#) on page 31

**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 10          |
| <b>Event Type</b>        | SET / RESET |
| <b>Refresh</b>           | 300 seconds |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | No          |
| <b>Attributes</b>        | None        |

**Source Collection**

FGUSAGE

**Related reference**

[FGUSAGE](#) on page 162

Filegroup space usage

[FGUSAGE](#) on page 113

FGUSAGE store

[Filegroup Usage](#) on page 31

Filegroup space usage

**MSSQL\_FGUSAGE\_LOG\_WARNING**

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

**Alert Message**

WARNING: Database [@DB\_NAME@] Log is @USED\_PCT@% full with only @FREE\_MB@ MB free

**Detail View**

[Filegroup Usage](#) on page 31

**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 20          |
| <b>Event Type</b>        | SET / RESET |
| <b>Refresh</b>           | 300 seconds |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | Yes         |
| <b>Attributes</b>        | None        |

**Source Collection**

FGUSAGE

**Related reference**[FGUSAGE](#) on page 162

Filegroup space usage

[FGUSAGE](#) on page 113

FGUSAGE store

[Filegroup Usage](#) on page 31

Filegroup space usage

**MSSQL\_FILEUSAGE\_SPACEBOUNDALLOC**

Next file OS allocation exceeds OS free space rule

**Alert Message**

DB (@DB\_NAME@) File (@LOGICAL\_NAME@) will fail to allocate @OS\_NEXT\_ALLOC\_MB@ MB from OS (free: @OS\_FREE\_MB@ MB, max\_size: @MAX\_SIZE@)

**Detail View**[Database Space Usage](#) on page 26**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 20          |
| <b>Event Type</b>        | STD         |
| <b>Refresh</b>           | 600 seconds |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | No          |
| <b>Attributes</b>        | None        |

**Source Collection**

FILEUSAGE

**Related reference**[FILEUSAGE](#) on page 165

File space usage

[FILEUSAGE](#) on page 114

FILEUSAGE store

[Database Space Usage](#) on page 26

Database space usage

## MSSQL\_GLOB\_SQLSVR\_DISKIO

SQLSvr Disk IO/sec exceeds value rule

### Alert Message

SQLSvr Disk IO/sec exceeded @VALUE@. Curr = @"SQLSvr Disk IO Sec".Current@. Avg = @"SQLSvr Disk IO Sec".Avg@. Peak = @"SQLSvr Disk IO Sec".Max@.

### Detail View

[Global](#) on page 12

### Default Rule Properties

|                   |            |
|-------------------|------------|
| Severity          | 20         |
| Event Type        | STD        |
| Refresh           | 60 seconds |
| Occurrence Window | 1 / 1      |
| Enabled           | No         |
| Attributes        | None       |

### Source Collection

GLOBALSTATS

### Related reference

[GLOBALSTATS](#) on page 168

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[Global](#) on page 12

Global statistics

## MSSQL\_GLOB\_TOTAL\_DISKIO

Total Disk IO/sec exceeds value rule

### Alert Message

Total Disk IO/sec exceeded @VALUE@. Curr = @"Total Disk IO Sec".Current@. Avg = @"Total Disk IO Sec".Avg@. Peak = @"Total Disk IO Sec".Max@.

### Detail View

[Global](#) on page 12

### Default Rule Properties

|          |    |
|----------|----|
| Severity | 20 |
|----------|----|

|                          |            |
|--------------------------|------------|
| <b>Event Type</b>        | STD        |
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 1 / 1      |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

**Source Collection**

GLOBALSTATS

**Related reference**[GLOBALSTATS](#) on page 168

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[Global](#) on page 12

Global statistics

**MSSQL\_LOGDEVIO\_IOSPERSEC**

Log Dev IO rate &gt; value rule

**Alert Message**

Log Device @device@ IO rate @IOSPERSEC@/sec exceeds @value@

**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 20          |
| <b>Event Type</b>        | STD         |
| <b>Refresh</b>           | 120 seconds |
| <b>Occurrence Window</b> | 5 / 10      |
| <b>Enabled</b>           | No          |
| <b>Attributes</b>        | !NOPERFMON  |

**Source Collection**

LOGDEVIO

**Related reference**[LOGDEVIO](#) on page 115

LOGDEVIO store

**Related information**[#unique\\_72](#)**MSSQL\_LOGDEVIO\_USEDPERCENT**

Log Dev % space usage &gt; value rule

**Alert Message**

Log Device @device@ space usage @USEDPERCENT@% exceeds @value@

**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 20          |
| <b>Event Type</b>        | STD         |
| <b>Refresh</b>           | 600 seconds |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | No          |
| <b>Attributes</b>        | !NOPERFMON  |

**Source Collection**

LOGDEVIO

**Related reference**

[LOGDEVIO](#) on page 115

LOGDEVIO store

**Related information**

[#unique\\_72](#)

**Other**

---

**MSSQL\_AGDB\_LATENCY**

Check Availability Group (AG) database replica latency rule

**Alert Message**

Replica database [@db\_name@] on server [@replica\_server\_name@] has latency [@latency\_ms@ ms] > @THRESHOLD\_SECONDS@ second(s); AG [@ag\_name@]

**Detail View**

[#unique\\_77](#)

**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 20          |
| <b>Event Type</b>        | SET / RESET |
| <b>Refresh</b>           | 60 seconds  |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | No          |
| <b>Attributes</b>        | None        |

**Source Collection**

DMV\_AGDB

**Related reference**[DMV\\_AGDB](#) on page 119

DMV\_AGDB store

**Related information**[#unique\\_78](#)[#unique\\_77](#)**MSSQL\_AGDB\_NOTJOINED**

AG database replica is not joined rule

**Alert Message**

AG [@ag\_name@] database [@replica\_server\_name@.@db\_name@] is not joined (or unknown)

**Detail View**[#unique\\_81](#)**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 20          |
| <b>Event Type</b>        | SET / RESET |
| <b>Refresh</b>           | 60 seconds  |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | No          |
| <b>Attributes</b>        | None        |

**Source Collection**

DMV\_AGDB

**Related reference**[DMV\\_AGDB](#) on page 119

DMV\_AGDB store

**Related information**[#unique\\_78](#)[#unique\\_81](#)**MSSQL\_AGDB\_RECEIVED\_EVER**

Have AG messages ever been received? rule

**Alert Message**

No AG [@ag\_name@] messages have been received at @replica\_server\_name@.@db\_name@

**Detail View**[#unique\\_77](#)

**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 20          |
| <b>Event Type</b>        | SET / RESET |
| <b>Refresh</b>           | 60 seconds  |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | No          |
| <b>Attributes</b>        | None        |

**Source Collection**

DMV\_AGDB

**Related reference**[DMV\\_AGDB](#) on page 119

DMV\_AGDB store

**Related information**[#unique\\_78](#)[#unique\\_77](#)**MSSQL\_AGDB\_RECEIVED\_RECENT**

Have AG messages been received within the last # seconds? rule

**Alert Message**

AG [@ag\_name@] message receipt is late at @replica\_server\_name@.@db\_name@ [last receipt: @last\_received\_time@]

**Detail View**[#unique\\_77](#)**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 20          |
| <b>Event Type</b>        | SET / RESET |
| <b>Refresh</b>           | 60 seconds  |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | No          |
| <b>Attributes</b>        | None        |

**Source Collection**

DMV\_AGDB

**Related reference**[DMV\\_AGDB](#) on page 119

DMV\_AGDB store

**Related information**[#unique\\_78](#)[#unique\\_77](#)**MSSQL\_AGDB\_SUSPENDED**

AG database replica is suspended rule

**Alert Message**

AG [@ag\_name@] database [@replica\_server\_name@.@db\_name@] is suspended [@suspended\_reason@]

**Detail View**[#unique\\_77](#)**Default Rule Properties**

|                   |             |
|-------------------|-------------|
| Severity          | 30          |
| Event Type        | SET / RESET |
| Refresh           | 60 seconds  |
| Occurrence Window | 1 / 1       |
| Enabled           | No          |
| Attributes        | None        |

**Source Collection**

DMV\_AGDB

**Related reference**[DMV\\_AGDB](#) on page 119

DMV\_AGDB store

**Related information**[#unique\\_78](#)[#unique\\_77](#)**MSSQL\_AGDB\_UNHEALTHY**

AG database replica is not healthy rule

**Alert Message**AG [@ag\_name@] database [@replica\_server\_name@.@db\_name@] is not healthy [@sync\_health@], sync  
[@sync\_status@]**Detail View**[#unique\\_77](#)**Default Rule Properties**

|            |             |
|------------|-------------|
| Severity   | 30          |
| Event Type | SET / RESET |

|                          |            |
|--------------------------|------------|
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 1 / 1      |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

**Source Collection**

DMV\_AGDB

**Related reference**[DMV\\_AGDB](#) on page 119

DMV\_AGDB store

**Related information**[#unique\\_78](#)[#unique\\_77](#)**MSSQL\_AGREPLICAS\_DISCONNECTED**

AG replica is disconnected rule

**Alert Message**

AG [@ag\_name@] replica [@replica\_server\_name@] is disconnected

**Detail View**[#unique\\_81](#)**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 20          |
| <b>Event Type</b>        | SET / RESET |
| <b>Refresh</b>           | 60 seconds  |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | No          |
| <b>Attributes</b>        | None        |

**Source Collection**

DMV\_AGREPLICAS

**Related reference**[DMV\\_AGREPLICAS](#) on page 120

DMV\_AGREPLICAS store

**Related information**[#unique\\_87](#)[#unique\\_81](#)**MSSQL\_AG\_OFFLINE\_LISTENERS**

Too many AG listeners are offline rule

**Alert Message**

AG [@ag\_name@] primary [@primary\_server\_name@] has @listener\_online\_count@ listeners online (should be >= @ONLINE\_THRESHOLD@)

**Detail View**

[#unique\\_81](#)

**Default Rule Properties**

|                   |             |
|-------------------|-------------|
| Severity          | 30          |
| Event Type        | SET / RESET |
| Refresh           | 60 seconds  |
| Occurrence Window | 1 / 1       |
| Enabled           | No          |
| Attributes        | None        |

**Source Collection**

DMV\_AG

**Related reference**

[DMV\\_AG](#) on page 118

DMV\_AG store

**Related information**

[#unique\\_90](#)

[#unique\\_81](#)

**MSSQL\_BUFF\_CACHEHIT\_ALERT**

Buffer Mgr CacheHit < value(Alert) rule

**Alert Message**

Buffer Cache Hit Ratio at @"SQLServer\_Buffer Manager:NULL:Buffer Cache Hit Ratio".Current@. Below Alert level @VALUE@.

**Detail View**

[#unique\\_93](#)

**Default Rule Properties**

|                   |             |
|-------------------|-------------|
| Severity          | 20          |
| Event Type        | STD         |
| Refresh           | 120 seconds |
| Occurrence Window | 1 / 1       |
| Enabled           | No          |
| Attributes        | !NOPERFMON  |

**Source Collection**

BUFFCACHE

**Related reference**

[BUFFCACHE](#) on page 116

BUFFCACHE store

**Related information**

[#unique\\_94](#)

[#unique\\_93](#)

**MSSQL\_BUFF\_CACHEHIT\_WARN**

Buffer Mgr CacheHit < value(Warn) rule

**Alert Message**

Buffer Cache Hit Ratio at @"SQLServer\_Buffer Manager:NULL:Buffer Cache Hit Ratio".Current@. Below warning level @VALUE@.

**Detail View**

[#unique\\_93](#)

**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 20          |
| <b>Event Type</b>        | STD         |
| <b>Refresh</b>           | 120 seconds |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | No          |
| <b>Attributes</b>        | !NOPERFMON  |

**Source Collection**

BUFFCACHE

**Related reference**

[BUFFCACHE](#) on page 116

BUFFCACHE store

**Related information**

[#unique\\_94](#)

[#unique\\_93](#)

**MSSQL\_BUFF\_FREEBUFFERS**

Buffer Mgr Free Buffers < value rule

**Alert Message**

Free Buffers below @VALUE@ threshold at @"Free Buffers".KB@!

**Default Rule Properties**

|                   |             |
|-------------------|-------------|
| Severity          | 20          |
| Event Type        | STD         |
| Refresh           | 120 seconds |
| Occurrence Window | 1 / 1       |
| Enabled           | No          |
| Attributes        | !NOPERFMON  |

**Source Collection**

MEMORYMANAGER

**Related reference**[MEMORYMANAGER](#) on page 125

MEMORYMANAGER store

**Related information**[#unique\\_98](#)**MSSQL\_GLOB\_LOCKS**

Lock count exceeds value rule

**Alert Message**

Locks exceeded @VALUE@. Curr = @Locks.Current@. Avg = @Locks.Avg@.

**Detail View**[Global](#) on page 12**Default Rule Properties**

|                   |            |
|-------------------|------------|
| Severity          | 10         |
| Event Type        | STD        |
| Refresh           | 60 seconds |
| Occurrence Window | 1 / 1      |
| Enabled           | No         |
| Attributes        | None       |

**Source Collection**

GLOBALSTATS

**Related reference**[GLOBALSTATS](#) on page 168

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[Global](#) on page 12

Global statistics

## MSSQL\_GLOB\_PROCESSES

Process count exceeds value rule

### Alert Message

Process count exceeded @VALUE@. Curr = @Processes.Current@. Avg = @Processes.Avg@. Peak = @Processes.Max@.

### Detail View

[Global](#) on page 12

### Default Rule Properties

|                   |            |
|-------------------|------------|
| Severity          | 20         |
| Event Type        | STD        |
| Refresh           | 60 seconds |
| Occurrence Window | 1 / 1      |
| Enabled           | No         |
| Attributes        | None       |

### Source Collection

GLOBALSTATS

### Related reference

[GLOBALSTATS](#) on page 168

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[Global](#) on page 12

Global statistics

## MSSQL\_GLOB\_RUNNING\_JOBS

Running job count exceeds value rule

### Alert Message

Running job count exceeded @VALUE@. Curr = @"Running Jobs".Current@. Avg = @"Running Jobs".Avg@. Peak = @"Running Jobs".Max@.

### Detail View

[Global](#) on page 12

### Default Rule Properties

|            |     |
|------------|-----|
| Severity   | 20  |
| Event Type | STD |

|                          |            |
|--------------------------|------------|
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 1 / 1      |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

### Source Collection

GLOBALSTATS

### Related reference

[GLOBALSTATS](#) on page 168

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[Global](#) on page 12

Global statistics

## MSSQL\_GLOB\_SQLSVR\_CPU

SQLServer CPU % exceeds value rule

### Alert Message

SQLServer CPU % exceeded @VALUE@. Curr = @"SQLSvr CPU %".Current@. Avg = @"SQLSvr CPU %".Avg@.

### Detail View

[Global](#) on page 12

### Default Rule Properties

|                          |            |
|--------------------------|------------|
| <b>Severity</b>          | 20         |
| <b>Event Type</b>        | STD        |
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 1 / 1      |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

### Source Collection

GLOBALSTATS

### Related reference

[GLOBALSTATS](#) on page 168

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[Global](#) on page 12

Global statistics

**MSSQL\_GLOB\_SQLSVR\_CPU\_OVERALL**

SQLServer CPU % (overall) exceeds value rule

**Alert Message**

SQLServer CPU % (overall) exceeded @VALUE@. Curr = @"SQLSvr CPU % (overall)".Current@. Avg = @"SQLSvr CPU % (overall)".Avg@.

**Detail View**

[Global](#) on page 12

**Default Rule Properties**

|                          |            |
|--------------------------|------------|
| <b>Severity</b>          | 20         |
| <b>Event Type</b>        | STD        |
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 1 / 1      |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

**Source Collection**

GLOBALSTATS

**Related reference**

[GLOBALSTATS](#) on page 168

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[Global](#) on page 12

Global statistics

**MSSQL\_GLOB\_SQLSVR\_MEM\_MB**

SQLServer Memory(MB) exceeds value rule

**Alert Message**

SQLServer Memory(MB) exceeded @VALUE@. Curr = @"SQLSvr Mem MB".Current@. Avg = @"SQLSvr Mem MB".Avg@. Peak = @"SQLSvr Mem MB".Max@.

**Detail View**

[Global](#) on page 12

**Default Rule Properties**

|                   |            |
|-------------------|------------|
| <b>Severity</b>   | 20         |
| <b>Event Type</b> | STD        |
| <b>Refresh</b>    | 60 seconds |

|                          |       |
|--------------------------|-------|
| <b>Occurrence Window</b> | 1 / 1 |
| <b>Enabled</b>           | No    |
| <b>Attributes</b>        | None  |

**Source Collection**

GLOBALSTATS

**Related reference**[GLOBALSTATS](#) on page 168

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[Global](#) on page 12

Global statistics

**MSSQL\_GLOB\_TOTAL\_CPU**

Total CPU % exceeded value rule

**Alert Message**

Batch request rate exceeded @VALUE@. Curr = @"Total CPU %".Current@. Avg = @"Total CPU %".Avg@.

**Detail View**[Global](#) on page 12**Default Rule Properties**

|                          |            |
|--------------------------|------------|
| <b>Severity</b>          | 20         |
| <b>Event Type</b>        | STD        |
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 10 / 15    |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

**Source Collection**

GLOBALSTATS

**Related reference**[GLOBALSTATS](#) on page 168

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[Global](#) on page 12

Global statistics

**MSSQL\_LOGFILE\_ERROR**

Error SQL Server log entry found rule

**Alert Message**

@APPNAME@/@ERRORLEVEL@/@ERRORCODE@: @ERRORTEXT@

**Default Rule Properties**

|                   |             |
|-------------------|-------------|
| Severity          | 20          |
| Event Type        | STD         |
| Refresh           | 600 seconds |
| Occurrence Window | 1 / 1       |
| Enabled           | No          |
| Attributes        | LOCAL       |

**Source Collection**

LOGFILE

**Related information**

[#unique\\_101](#)

[#unique\\_102](#)

**MSSQL\_MEMORY\_AVAILBYTES**

System Memory Avail < value rule

**Alert Message**

System memory available bytes (@"Available Bytes".Current@) < @VALUE@

**Default Rule Properties**

|                   |             |
|-------------------|-------------|
| Severity          | 20          |
| Event Type        | STD         |
| Refresh           | 120 seconds |
| Occurrence Window | 15 / 30     |
| Enabled           | No          |
| Attributes        | !NOPERFMON  |

**Source Collection**

MEMORY

**Related reference**

[MEMORY](#) on page 125

MEMORY store

**Related information**

[#unique\\_104](#)

**MSSQL\_MEMORY\_PAGESPERSEC**

System Memory Pages/sec > value rule

**Alert Message**

System memory Pages/sec (@ "Pages/sec".Current@) > @VALUE@

**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 20          |
| <b>Event Type</b>        | STD         |
| <b>Refresh</b>           | 120 seconds |
| <b>Occurrence Window</b> | 15 / 30     |
| <b>Enabled</b>           | No          |
| <b>Attributes</b>        | !NOPERFMON  |

**Source Collection**

MEMORY

**Related reference**

[MEMORY](#) on page 125

MEMORY store

**Related information**

[#unique\\_104](#)

**MSSQL\_PROCESS\_BLOCKED\_TIME**

Seconds Blocked exceeds value rule

**Alert Message**

@spid@/@loginame@/@hostname@/@program\_name@, Blocked for @waittimesecs@ seconds.

**Detail View**

[Processes](#) on page 13

**Default Rule Properties**

|                          |            |
|--------------------------|------------|
| <b>Severity</b>          | 20         |
| <b>Event Type</b>        | STD        |
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 1 / 1      |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

**Source Collection**

PROCESS

**Related reference**

[PROCESS](#) on page 172

Processes

[PROCESS](#) on page 126

PROCESS store

[Processes](#) on page 13

Processes

## MSSQL\_PROCESS\_CPU\_PERCENT

Process CPU % exceeds value rule

### Alert Message

@spid@/@loginame@/@hostname@/@program\_name@, CPU % @CPUPCT@ exceeds @VALUE@.

### Detail View

[Processes](#) on page 13

### Default Rule Properties

|                   |            |
|-------------------|------------|
| Severity          | 20         |
| Event Type        | STD        |
| Refresh           | 60 seconds |
| Occurrence Window | 1 / 1      |
| Enabled           | No         |
| Attributes        | None       |

### Source Collection

PROCESS

### Related reference

[PROCESS](#) on page 172

Processes

[PROCESS](#) on page 126

PROCESS store

[Processes](#) on page 13

Processes

## MSSQL\_PROCESS\_CPUSECS

Process CPU secs exceeds value rule

### Alert Message

@spid@/@loginame@/@hostname@/@program\_name@, CPU Secs @cpusecs@ exceeds @VALUE@.

### Detail View

[Processes](#) on page 13

### Default Rule Properties

|          |    |
|----------|----|
| Severity | 20 |
|----------|----|

|                          |            |
|--------------------------|------------|
| <b>Event Type</b>        | STD        |
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 1 / 1      |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

### Source Collection

PROCESS

### Related reference

[PROCESS](#) on page 172

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[PROCESS](#) on page 126

PROCESS store

[Processes](#) on page 13

Processes

## MSSQL\_PROCESS\_DECEASED\_SPID

Record Deceased SPIDs rule

### Alert Message

Session Deceased: @spid@/@loginame@/@hostname@/@program\_name@

### Detail View

[Processes](#) on page 13

### Default Rule Properties

|                          |            |
|--------------------------|------------|
| <b>Severity</b>          | 10         |
| <b>Event Type</b>        | STD        |
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 1 / 1      |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

### Source Collection

PROCESS

### Related reference

[PROCESS](#) on page 172

Processes

[PROCESS](#) on page 126

PROCESS store

[Processes](#) on page 13

Processes

## MSSQL\_PROCESS\_NEW\_SPID

Record New SPIDs rule

### Alert Message

New Session: @spid@/@loginame@/@hostname@/@program\_name@

### Detail View

[Processes](#) on page 13

### Default Rule Properties

|                   |            |
|-------------------|------------|
| Severity          | 10         |
| Event Type        | STD        |
| Refresh           | 60 seconds |
| Occurrence Window | 1 / 1      |
| Enabled           | No         |
| Attributes        | None       |

### Source Collection

PROCESS

### Related reference

[PROCESS](#) on page 172

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PROCESS store

[Processes](#) on page 13

Processes

## MSSQL\_PROCESS\_PHYSIO\_RATE

Physical IO rate exceeds value rule

### Alert Message

@spid@/@loginame@/@hostname@/@program\_name@, Phys IO rate @physical\_io\_rate@ exceeds @VALUE@.

### Detail View

[Processes](#) on page 13

### Default Rule Properties

|                   |            |
|-------------------|------------|
| Severity          | 20         |
| Event Type        | STD        |
| Refresh           | 60 seconds |
| Occurrence Window | 1 / 1      |
| Enabled           | No         |

|            |      |
|------------|------|
| Attributes | None |
|------------|------|

### Source Collection

PROCESS

### Related reference

[PROCESS](#) on page 172

Processes

[PROCESS](#) on page 126

PROCESS store

[Processes](#) on page 13

Processes

## MSSQL\_PROCESS\_STATUS

Process status like value rule

### Alert Message

@spid@/@loginname@/@hostname@/@program\_name@, Status @status@ like "@VALUE@"

### Detail View

[Processes](#) on page 13

### Default Rule Properties

|                   |            |
|-------------------|------------|
| Severity          | 10         |
| Event Type        | STD        |
| Refresh           | 60 seconds |
| Occurrence Window | 1 / 1      |
| Enabled           | No         |
| Attributes        | None       |

### Source Collection

PROCESS

### Related reference

[PROCESS](#) on page 172

Processes

[PROCESS](#) on page 126

PROCESS store

[Processes](#) on page 13

Processes

## MSSQL\_SYSTEM\_PROCQUEUELEN

Processor Queue Len exceeds value rule

### Alert Message

Processor Queue Len of @"SYSTEM:NULL:Processor Queue Length".Current@ > @VALUE@ !

**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 20          |
| <b>Event Type</b>        | STD         |
| <b>Refresh</b>           | 120 seconds |
| <b>Occurrence Window</b> | 15 / 30     |
| <b>Enabled</b>           | No          |
| <b>Attributes</b>        | !NOPERFMON  |

**Source Collection**

PERFMON

**Related reference**[PERFMON](#) on page 126

PERFMON store

**Related information**[#unique\\_108](#)**MSSQL\_SYSTEM\_PROCTIME\_ALERT**

%Total Proc Time exceeds value (Alert) rule

**Alert Message**

%Total Proc Time @"SYSTEM:NULL:% Total Processor Time".Current@ exceeds @VALUE@%.

**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 20          |
| <b>Event Type</b>        | STD         |
| <b>Refresh</b>           | 120 seconds |
| <b>Occurrence Window</b> | 20 / 30     |
| <b>Enabled</b>           | No          |
| <b>Attributes</b>        | !NOPERFMON  |

**Source Collection**

PERFMON

**Related reference**[PERFMON](#) on page 126

PERFMON store

**Related information**[#unique\\_108](#)**MSSQL\_SYSTEM\_PROCTIME\_WARN**

%Total Proc Time exceeds value (warn) rule

## Alert Message

%Total Proc Time @"SYSTEM:NULL:% Processor Time".Current@ exceeds @VALUE@%.

## Default Rule Properties

|                   |             |
|-------------------|-------------|
| Severity          | 20          |
| Event Type        | STD         |
| Refresh           | 120 seconds |
| Occurrence Window | 20 / 30     |
| Enabled           | No          |
| Attributes        | !NOPERFMON  |

## Source Collection

PERFMON

## Related reference

[PERFMON](#) on page 126

PERFMON store

## Related information

[#unique\\_108](#)

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# Chapter

# 3

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## Rules

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### Topics:

- MSSQL\_AGDB\_LATENCY
- MSSQL\_AGDB\_NOTJOINED
- MSSQL\_AGDB\_RECEIVED\_EVER
- MSSQL\_AGDB\_RECEIVED\_RECENT
- MSSQL\_AGDB\_SUSPENDED
- MSSQL\_AGDB\_UNHEALTHY
- MSSQL\_AGREPLICAS\_DISCONNECTED
- MSSQL\_AG\_OFFLINE\_LISTENERS
- MSSQL\_BLOCKTREE\_WAITER
- MSSQL\_BUFF\_CACHEHIT\_ALERT
- MSSQL\_BUFF\_CACHEHIT\_WARN
- MSSQL\_BUFF\_FREEBUFFERS
- MSSQL\_DBUSAGE\_AUTOSHRINK\_ON
- MSSQL\_DBUSAGE\_DATABASE\_OFFLINE
- MSSQL\_DBUSAGE\_DATABASE\_RECOVERY
- MSSQL\_DBUSAGE\_MULTIPLE\_LOGFILES
- MSSQL\_DBUSAGE\_OFFLINE\_FILES
- MSSQL\_DBUSAGE\_SUSPECT\_PAGES
- MSSQL\_FGUSAGE\_DATA\_CRITICAL
- MSSQL\_FGUSAGE\_DATA\_INFO
- MSSQL\_FGUSAGE\_DATA\_WARNING
- MSSQL\_FGUSAGE\_LOG\_CRITICAL
- MSSQL\_FGUSAGE\_LOG\_INFO
- MSSQL\_FGUSAGE\_LOG\_WARNING
- MSSQL\_FILEUSAGE\_SPACEBOUNDALLOC
- MSSQL\_GLOB\_BATCH\_REQS
- MSSQL\_GLOB\_BLOCKED
- MSSQL\_GLOB\_LOCKS
- MSSQL\_GLOB\_PROCESSES
- MSSQL\_GLOB\_RUNNING\_JOBS
- MSSQL\_GLOB\_SQLSVR\_CPU
- MSSQL\_GLOB\_SQLSVR\_CPU\_OVERALL
- MSSQL\_GLOB\_SQLSVR\_DISKIO
- MSSQL\_GLOB\_SQLSVR\_MEM\_MB
- MSSQL\_GLOB\_TOTAL\_CPU
- MSSQL\_GLOB\_TOTAL\_DISKIO

- MSSQL\_LOGDEVIO\_IOSPERSEC
- MSSQL\_LOGDEVIO\_USEDPERCENT
- MSSQL\_LOGFILE\_ERROR
- MSSQL\_MEMORY\_AVAILBYTES
- MSSQL\_MEMORY\_PAGESPERSEC
- MSSQL\_PROCESS\_BLOCKED\_TIME
- MSSQL\_PROCESS\_CPU\_PERCENT
- MSSQL\_PROCESS\_CPUSECS
- MSSQL\_PROCESS\_DECEASED\_SPID
- MSSQL\_PROCESS\_NEW\_SPID
- MSSQL\_PROCESS\_PHYSIO\_RATE
- MSSQL\_PROCESS\_STATUS
- MSSQL\_STMT\_LONGRUNNING
- MSSQL\_SYSTEM\_PROCQUEUELEN
- MSSQL\_SYSTEM\_PROCTIME\_ALERT
- MSSQL\_SYSTEM\_PROCTIME\_WARN

## MSSQL\_AGDB\_LATENCY

---

Check Availability Group (AG) database replica latency rule

### Alert Message

Replica database [@db\_name@] on server [@replica\_server\_name@] has latency [@latency\_ms@ ms] > @THRESHOLD\_SECONDS@ second(s); AG [@ag\_name@]

### Detail View

[#unique\\_77](#)

### Default Rule Properties

|                   |             |
|-------------------|-------------|
| Severity          | 20          |
| Event Type        | SET / RESET |
| Refresh           | 60 seconds  |
| Occurrence Window | 1 / 1       |
| Enabled           | No          |
| Attributes        | None        |

### Source Collection

DMV\_AGDB

### Related reference

[DMV\\_AGDB](#) on page 119

DMV\_AGDB store

### Related information

[#unique\\_78](#)

[#unique\\_77](#)

## MSSQL\_AGDB\_NOTJOINED

---

AG database replica is not joined rule

### Alert Message

AG [@ag\_name@] database [@replica\_server\_name@.@db\_name@] is not joined (or unknown)

### Detail View

[#unique\\_81](#)

### Default Rule Properties

|            |             |
|------------|-------------|
| Severity   | 20          |
| Event Type | SET / RESET |
| Refresh    | 60 seconds  |

|                   |       |
|-------------------|-------|
| Occurrence Window | 1 / 1 |
| Enabled           | No    |
| Attributes        | None  |

**Source Collection**

DMV\_AGDB

**Related reference**[DMV\\_AGDB](#) on page 119

DMV\_AGDB store

**Related information**[#unique\\_78](#)[#unique\\_81](#)

## MSSQL\_AGDB\_RECEIVED\_EVER

---

Have AG messages ever been received? rule

**Alert Message**

No AG [@ag\_name@] messages have been received at @replica\_server\_name@.@db\_name@

**Detail View**[#unique\\_77](#)**Default Rule Properties**

|                   |             |
|-------------------|-------------|
| Severity          | 20          |
| Event Type        | SET / RESET |
| Refresh           | 60 seconds  |
| Occurrence Window | 1 / 1       |
| Enabled           | No          |
| Attributes        | None        |

**Source Collection**

DMV\_AGDB

**Related reference**[DMV\\_AGDB](#) on page 119

DMV\_AGDB store

**Related information**[#unique\\_78](#)[#unique\\_77](#)

## MSSQL\_AGDB\_RECEIVED\_RECENT

---

Have AG messages been received within the last # seconds? rule

### Alert Message

AG [@ag\_name@] message receipt is late at @replica\_server\_name@.@db\_name@ [last receipt: @last\_received\_time@]

### Detail View

[#unique\\_77](#)

### Default Rule Properties

|                   |             |
|-------------------|-------------|
| Severity          | 20          |
| Event Type        | SET / RESET |
| Refresh           | 60 seconds  |
| Occurrence Window | 1 / 1       |
| Enabled           | No          |
| Attributes        | None        |

### Source Collection

DMV\_AGDB

### Related reference

[DMV\\_AGDB](#) on page 119

DMV\_AGDB store

### Related information

[#unique\\_78](#)

[#unique\\_77](#)

## MSSQL\_AGDB\_SUSPENDED

---

AG database replica is suspended rule

### Alert Message

AG [@ag\_name@] database [@replica\_server\_name@.@db\_name@] is suspended [@suspended\_reason@]

### Detail View

[#unique\\_77](#)

### Default Rule Properties

|            |             |
|------------|-------------|
| Severity   | 30          |
| Event Type | SET / RESET |
| Refresh    | 60 seconds  |

|                   |       |
|-------------------|-------|
| Occurrence Window | 1 / 1 |
| Enabled           | No    |
| Attributes        | None  |

**Source Collection**

DMV\_AGDB

**Related reference**[DMV\\_AGDB](#) on page 119

DMV\_AGDB store

**Related information**[#unique\\_78](#)[#unique\\_77](#)

## MSSQL\_AGDB\_UNHEALTHY

---

AG database replica is not healthy rule

**Alert Message**

AG [@ag\_name@] database [@replica\_server\_name@.@db\_name@] is not healthy [@sync\_health@], sync  
 [@sync\_status@]

**Detail View**[#unique\\_77](#)**Default Rule Properties**

|                   |             |
|-------------------|-------------|
| Severity          | 30          |
| Event Type        | SET / RESET |
| Refresh           | 60 seconds  |
| Occurrence Window | 1 / 1       |
| Enabled           | No          |
| Attributes        | None        |

**Source Collection**

DMV\_AGDB

**Related reference**[DMV\\_AGDB](#) on page 119

DMV\_AGDB store

**Related information**[#unique\\_78](#)[#unique\\_77](#)

## MSSQL\_AGREPLICAS\_DISCONNECTED

---

AG replica is disconnected rule

### Alert Message

AG [@ag\_name@] replica [@replica\_server\_name@] is disconnected

### Detail View

[#unique\\_81](#)

### Default Rule Properties

|                   |             |
|-------------------|-------------|
| Severity          | 20          |
| Event Type        | SET / RESET |
| Refresh           | 60 seconds  |
| Occurrence Window | 1 / 1       |
| Enabled           | No          |
| Attributes        | None        |

### Source Collection

DMV\_AGREPLICAS

### Related reference

[DMV\\_AGREPLICAS](#) on page 120

DMV\_AGREPLICAS store

### Related information

[#unique\\_87](#)

[#unique\\_81](#)

## MSSQL\_AG\_OFFLINE\_LISTENERS

---

Too many AG listeners are offline rule

### Alert Message

AG [@ag\_name@] primary [@primary\_server\_name@] has @listener\_online\_count@ listeners online (should be >= @ONLINE\_THRESHOLD@)

### Detail View

[#unique\\_81](#)

### Default Rule Properties

|            |             |
|------------|-------------|
| Severity   | 30          |
| Event Type | SET / RESET |
| Refresh    | 60 seconds  |

|                   |       |
|-------------------|-------|
| Occurrence Window | 1 / 1 |
| Enabled           | No    |
| Attributes        | None  |

### Source Collection

DMV\_AG

### Related reference

[DMV\\_AG](#) on page 118

DMV\_AG store

### Related information

[#unique\\_90](#)

[#unique\\_81](#)

## MSSQL\_BLOCKTREE\_WAITER

---

Waiter has been blocked over time thresholds rule

### Alert Message

spid #@spid@ has been blocked by spid #@blocker@ for @time\_blocked@ seconds.

### Detail View

[Blocked Processes](#) on page 22

### Default Rule Properties

|                   |             |
|-------------------|-------------|
| Severity          | 20          |
| Event Type        | SET / RESET |
| Refresh           | 60 seconds  |
| Occurrence Window | 1 / 1       |
| Enabled           | No          |
| Attributes        | None        |

### Source Collection

BLOCKTREE

### Related reference

[BLOCKTREE](#) on page 154

Blocked processes

[BLOCKTREE](#) on page 108

BLOCKTREE store

[Blocked Processes](#) on page 22

Blocktrees of processes, including blockers and waiters

## MSSQL\_BUFF\_CACHEHIT\_ALERT

---

Buffer Mgr CacheHit < value(Alert) rule

### Alert Message

Buffer Cache Hit Ratio at @"SQLServer\_Buffer Manager:NULL:Buffer Cache Hit Ratio".Current@. Below Alert level @VALUE@.

### Detail View

[#unique\\_93](#)

### Default Rule Properties

|                   |             |
|-------------------|-------------|
| Severity          | 20          |
| Event Type        | STD         |
| Refresh           | 120 seconds |
| Occurrence Window | 1 / 1       |
| Enabled           | No          |
| Attributes        | !NOPERFMON  |

### Source Collection

BUFFCACHE

### Related reference

[BUFFCACHE](#) on page 116  
BUFFCACHE store

### Related information

[#unique\\_94](#)  
[#unique\\_93](#)

## MSSQL\_BUFF\_CACHEHIT\_WARN

---

Buffer Mgr CacheHit < value(Warn) rule

### Alert Message

Buffer Cache Hit Ratio at @"SQLServer\_Buffer Manager:NULL:Buffer Cache Hit Ratio".Current@. Below warning level @VALUE@.

### Detail View

[#unique\\_93](#)

### Default Rule Properties

|            |     |
|------------|-----|
| Severity   | 20  |
| Event Type | STD |

|                          |             |
|--------------------------|-------------|
| <b>Refresh</b>           | 120 seconds |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | No          |
| <b>Attributes</b>        | !NOPERFMON  |

**Source Collection**

BUFFCACHE

**Related reference**

[BUFFCACHE](#) on page 116

BUFFCACHE store

**Related information**

[#unique\\_94](#)

[#unique\\_93](#)

## MSSQL\_BUFF\_FREEBUFFERS

---

Buffer Mgr Free Buffers < value rule

**Alert Message**

Free Buffers below @VALUE@ threshold at @"Free Buffers".KB@!

**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 20          |
| <b>Event Type</b>        | STD         |
| <b>Refresh</b>           | 120 seconds |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | No          |
| <b>Attributes</b>        | !NOPERFMON  |

**Source Collection**

MEMORYMANAGER

**Related reference**

[MEMORYMANAGER](#) on page 125

MEMORYMANAGER store

**Related information**

[#unique\\_98](#)

## MSSQL\_DBUSAGE\_AUTOSHRINK\_ON

---

Database has auto-shrink enabled, which is often problematic rule

**Alert Message**

Database [@DB\_NAME@] has auto-shrink enabled

**Detail View**

[Database Space Usage](#) on page 26

**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 20          |
| <b>Event Type</b>        | SET / RESET |
| <b>Refresh</b>           | 300 seconds |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | Yes         |
| <b>Attributes</b>        | None        |

**Source Collection**

DBUSAGE

**Related reference**

[DBUSAGE](#) on page 157

Database space usage

[DBUSAGE](#) on page 111

DBUSAGE store

[Database Space Usage](#) on page 26

Database space usage

## MSSQL\_DBUSAGE\_DATABASE\_OFFLINE

---

Database is in an offline, emergency, or other such critical state rule

**Alert Message**

Database [@DB\_NAME@] is offline with status [@STATUS@]

**Detail View**

[Database Space Usage](#) on page 26

**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 30          |
| <b>Event Type</b>        | SET / RESET |
| <b>Refresh</b>           | 300 seconds |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | Yes         |
| <b>Attributes</b>        | None        |

**Source Collection**

DBUSAGE

**Related reference**[DBUSAGE](#) on page 157

Database space usage

[DBUSAGE](#) on page 111

DBUSAGE store

[Database Space Usage](#) on page 26

Database space usage

## MSSQL\_DBUSAGE\_DATABASE\_RECOVERY

---

Database is in a restoring / recovery state rule

**Alert Message**

Database [@DB\_NAME@] is in recovery with status [@STATUS@]

**Detail View**[Database Space Usage](#) on page 26**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 20          |
| <b>Event Type</b>        | SET / RESET |
| <b>Refresh</b>           | 300 seconds |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | Yes         |
| <b>Attributes</b>        | None        |

**Source Collection**

DBUSAGE

**Related reference**[DBUSAGE](#) on page 157

Database space usage

[DBUSAGE](#) on page 111

DBUSAGE store

[Database Space Usage](#) on page 26

Database space usage

## MSSQL\_DBUSAGE\_MULTIPLE\_LOGFILES

---

Database has multiple log files, which can be less than optimal rule

**Alert Message**

Database [@DB\_NAME@] has @LOG\_FILE\_COUNT@ log files, instead of just one

**Detail View**

[Database Space Usage](#) on page 26

**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 20          |
| <b>Event Type</b>        | SET / RESET |
| <b>Refresh</b>           | 300 seconds |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | Yes         |
| <b>Attributes</b>        | None        |

**Source Collection**

DBUSAGE

**Related reference**

[DBUSAGE](#) on page 157

Database space usage

[DBUSAGE](#) on page 111

DBUSAGE store

[Database Space Usage](#) on page 26

Database space usage

## MSSQL\_DBUSAGE\_OFFLINE\_FILES

---

Database is online, but has offline files rule

**Alert Message**

Database [@DB\_NAME@] is online, but has offline files [Data: @DATA\_NOTONLINE\_FILE\_COUNT@, Log: @LOG\_NOTONLINE\_FILE\_COUNT@]

**Detail View**

[Database Space Usage](#) on page 26

**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 30          |
| <b>Event Type</b>        | SET / RESET |
| <b>Refresh</b>           | 300 seconds |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | Yes         |

|            |      |
|------------|------|
| Attributes | None |
|------------|------|

**Source Collection**

DBUSAGE

**Related reference**[DBUSAGE](#) on page 157

Database space usage

[DBUSAGE](#) on page 111

DBUSAGE store

[Database Space Usage](#) on page 26

Database space usage

## MSSQL\_DBUSAGE\_SUSPECT\_PAGES

---

Database contains suspect pages rule

**Alert Message**

Database [@DB\_NAME@] has @DATA\_SUSPECT\_PAGES@ suspect pages

**Detail View**[Database Space Usage](#) on page 26**Default Rule Properties**

|                   |             |
|-------------------|-------------|
| Severity          | 30          |
| Event Type        | SET / RESET |
| Refresh           | 300 seconds |
| Occurrence Window | 1 / 1       |
| Enabled           | Yes         |
| Attributes        | None        |

**Source Collection**

DBUSAGE

**Related reference**[DBUSAGE](#) on page 157

Database space usage

[DBUSAGE](#) on page 111

DBUSAGE store

[Database Space Usage](#) on page 26

Database space usage

## MSSQL\_FGUSAGE\_DATA\_CRITICAL

---

Filegroup usage &gt; value (percentage full) and if small filegroup, free space &lt; value (MB free) rule

**Alert Message**

CRITICAL: Database [@DB\_NAME@] filegroup [@FG\_NAME@] is @USED\_PCT@% full with only @FREE\_MB@ MB free

**Detail View**

[Filegroup Usage](#) on page 31

**Default Rule Properties**

|                   |             |
|-------------------|-------------|
| Severity          | 30          |
| Event Type        | SET / RESET |
| Refresh           | 300 seconds |
| Occurrence Window | 1 / 1       |
| Enabled           | Yes         |
| Attributes        | None        |

**Source Collection**

FGUSAGE

**Related reference**

[FGUSAGE](#) on page 162

Filegroup space usage

[FGUSAGE](#) on page 113

FGUSAGE store

[Filegroup Usage](#) on page 31

Filegroup space usage

## MSSQL\_FGUSAGE\_DATA\_INFO

---

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

**Alert Message**

INFO: Database [@DB\_NAME@] filegroup [@FG\_NAME@] is @USED\_PCT@% full with only @FREE\_MB@ MB free

**Detail View**

[Filegroup Usage](#) on page 31

**Default Rule Properties**

|                   |             |
|-------------------|-------------|
| Severity          | 10          |
| Event Type        | SET / RESET |
| Refresh           | 300 seconds |
| Occurrence Window | 1 / 1       |
| Enabled           | No          |

|            |      |
|------------|------|
| Attributes | None |
|------------|------|

### Source Collection

FGUSAGE

### Related reference

[FGUSAGE](#) on page 162

Filegroup space usage

[FGUSAGE](#) on page 113

FGUSAGE store

[Filegroup Usage](#) on page 31

Filegroup space usage

## MSSQL\_FGUSAGE\_DATA\_WARNING

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

### Alert Message

WARNING: Database [@DB\_NAME@] filegroup [@FG\_NAME@] is @USED\_PCT@% full with only @FREE\_MB@ MB free

### Detail View

[Filegroup Usage](#) on page 31

### Default Rule Properties

|                   |             |
|-------------------|-------------|
| Severity          | 20          |
| Event Type        | SET / RESET |
| Refresh           | 300 seconds |
| Occurrence Window | 1 / 1       |
| Enabled           | Yes         |
| Attributes        | None        |

### Source Collection

FGUSAGE

### Related reference

[FGUSAGE](#) on page 162

Filegroup space usage

[FGUSAGE](#) on page 113

FGUSAGE store

[Filegroup Usage](#) on page 31

Filegroup space usage

## MSSQL\_FGUSAGE\_LOG\_CRITICAL

---

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

### Alert Message

CRITICAL: Database [@DB\_NAME@] Log is @USED\_PCT@% full with only @FREE\_MB@ MB free

### Detail View

[Filegroup Usage](#) on page 31

### Default Rule Properties

|                   |             |
|-------------------|-------------|
| Severity          | 30          |
| Event Type        | SET / RESET |
| Refresh           | 300 seconds |
| Occurrence Window | 1 / 1       |
| Enabled           | Yes         |
| Attributes        | None        |

### Source Collection

FGUSAGE

### Related reference

[FGUSAGE](#) on page 162

Filegroup space usage

[FGUSAGE](#) on page 113

FGUSAGE store

[Filegroup Usage](#) on page 31

Filegroup space usage

## MSSQL\_FGUSAGE\_LOG\_INFO

---

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

### Alert Message

INFO: Database [@DB\_NAME@] Log is @USED\_PCT@% full with only @FREE\_MB@ MB free

### Detail View

[Filegroup Usage](#) on page 31

### Default Rule Properties

|            |             |
|------------|-------------|
| Severity   | 10          |
| Event Type | SET / RESET |
| Refresh    | 300 seconds |

|                          |       |
|--------------------------|-------|
| <b>Occurrence Window</b> | 1 / 1 |
| <b>Enabled</b>           | No    |
| <b>Attributes</b>        | None  |

### Source Collection

FGUSAGE

### Related reference

[FGUSAGE](#) on page 162

Filegroup space usage

[FGUSAGE](#) on page 113

FGUSAGE store

[Filegroup Usage](#) on page 31

Filegroup space usage

## MSSQL\_FGUSAGE\_LOG\_WARNING

---

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

### Alert Message

WARNING: Database [@DB\_NAME@] Log is @USED\_PCT@% full with only @FREE\_MB@ MB free

### Detail View

[Filegroup Usage](#) on page 31

### Default Rule Properties

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 20          |
| <b>Event Type</b>        | SET / RESET |
| <b>Refresh</b>           | 300 seconds |
| <b>Occurrence Window</b> | 1 / 1       |
| <b>Enabled</b>           | Yes         |
| <b>Attributes</b>        | None        |

### Source Collection

FGUSAGE

### Related reference

[FGUSAGE](#) on page 162

Filegroup space usage

[FGUSAGE](#) on page 113

FGUSAGE store

[Filegroup Usage](#) on page 31

Filegroup space usage

## MSSQL\_FILEUSAGE\_SPACEBOUNDALLOC

---

Next file OS allocation exceeds OS free space rule

### Alert Message

DB (@DB\_NAME@) File (@LOGICAL\_NAME@) will fail to allocate @OS\_NEXT\_ALLOC\_MB@ MB from OS (free: @OS\_FREE\_MB@ MB, max\_size: @MAX\_SIZE@)

### Detail View

[Database Space Usage](#) on page 26

### Default Rule Properties

|                   |             |
|-------------------|-------------|
| Severity          | 20          |
| Event Type        | STD         |
| Refresh           | 600 seconds |
| Occurrence Window | 1 / 1       |
| Enabled           | No          |
| Attributes        | None        |

### Source Collection

FILEUSAGE

### Related reference

[FILEUSAGE](#) on page 165

File space usage

[FILEUSAGE](#) on page 114

FILEUSAGE store

[Database Space Usage](#) on page 26

Database space usage

## MSSQL\_GLOB\_BATCH\_REQS

---

Batch requests/sec exceeds value rule

### Alert Message

Batch request rate exceeded @VALUE@. Curr = @"Batch Reqs Sec".Current@. Avg = @"Batch Reqs Sec".Avg@.

### Detail View

[Global](#) on page 12

### Default Rule Properties

|            |     |
|------------|-----|
| Severity   | 10  |
| Event Type | STD |

|                          |            |
|--------------------------|------------|
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 1 / 1      |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

### Source Collection

GLOBALSTATS

### Related reference

[GLOBALSTATS](#) on page 168

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[Global](#) on page 12

Global statistics

## MSSQL\_GLOB\_BLOCKED

---

Blocked Process count exceeds value rule

### Alert Message

Blocked Process count exceeded @VALUE@. Curr = @"Blocked Procs".Current@. Avg = @"Blocked Procs".Avg@. Peak = @"Blocked Procs".Max@.

### Detail View

[Global](#) on page 12

### Default Rule Properties

|                          |            |
|--------------------------|------------|
| <b>Severity</b>          | 20         |
| <b>Event Type</b>        | STD        |
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 1 / 1      |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

### Source Collection

GLOBALSTATS

### Related reference

[GLOBALSTATS](#) on page 168

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[Global](#) on page 12

Global statistics

## MSSQL\_GLOB\_LOCKS

---

Lock count exceeds value rule

### Alert Message

Locks exceeded @VALUE@. Curr = @Locks.Current@. Avg = @Locks.Avg@.

### Detail View

[Global](#) on page 12

### Default Rule Properties

|                   |            |
|-------------------|------------|
| Severity          | 10         |
| Event Type        | STD        |
| Refresh           | 60 seconds |
| Occurrence Window | 1 / 1      |
| Enabled           | No         |
| Attributes        | None       |

### Source Collection

GLOBALSTATS

### Related reference

[GLOBALSTATS](#) on page 168

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[Global](#) on page 12

Global statistics

## MSSQL\_GLOB\_PROCESSES

---

Process count exceeds value rule

### Alert Message

Process count exceeded @VALUE@. Curr = @Processes.Current@. Avg = @Processes.Avg@. Peak = @Processes.Max@.

### Detail View

[Global](#) on page 12

### Default Rule Properties

|          |    |
|----------|----|
| Severity | 20 |
|----------|----|

|                          |            |
|--------------------------|------------|
| <b>Event Type</b>        | STD        |
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 1 / 1      |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

**Source Collection**

GLOBALSTATS

**Related reference**[GLOBALSTATS](#) on page 168

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[Global](#) on page 12

Global statistics

## MSSQL\_GLOB\_RUNNING\_JOBS

---

Running job count exceeds value rule

**Alert Message**

Running job count exceeded @VALUE@. Curr = @"Running Jobs".Current@. Avg = @"Running Jobs".Avg@. Peak = @"Running Jobs".Max@.

**Detail View**[Global](#) on page 12**Default Rule Properties**

|                          |            |
|--------------------------|------------|
| <b>Severity</b>          | 20         |
| <b>Event Type</b>        | STD        |
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 1 / 1      |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

**Source Collection**

GLOBALSTATS

**Related reference**[GLOBALSTATS](#) on page 168

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[Global](#) on page 12  
Global statistics

## MSSQL\_GLOB\_SQLSVR\_CPU

---

SQLServer CPU % exceeds value rule

### Alert Message

SQLServer CPU % exceeded @VALUE@. Curr = @"SQLSvr CPU %".Current@. Avg = @"SQLSvr CPU %".Avg@.

### Detail View

[Global](#) on page 12

### Default Rule Properties

|                   |            |
|-------------------|------------|
| Severity          | 20         |
| Event Type        | STD        |
| Refresh           | 60 seconds |
| Occurrence Window | 1 / 1      |
| Enabled           | No         |
| Attributes        | None       |

### Source Collection

GLOBALSTATS

### Related reference

[GLOBALSTATS](#) on page 168  
Global statistics

[GLOBALSTATS](#) on page 123  
GLOBALSTATS store

[Global](#) on page 12  
Global statistics

## MSSQL\_GLOB\_SQLSVR\_CPU\_OVERALL

---

SQLServer CPU % (overall) exceeds value rule

### Alert Message

SQLServer CPU % (overall) exceeded @VALUE@. Curr = @"SQLSvr CPU % (overall)".Current@. Avg = @"SQLSvr CPU % (overall)".Avg@.

### Detail View

[Global](#) on page 12

**Default Rule Properties**

|                          |            |
|--------------------------|------------|
| <b>Severity</b>          | 20         |
| <b>Event Type</b>        | STD        |
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 1 / 1      |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

**Source Collection**

GLOBALSTATS

**Related reference**[GLOBALSTATS](#) on page 168

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[Global](#) on page 12

Global statistics

## MSSQL\_GLOB\_SQLSVR\_DISKIO

---

SQLSvr Disk IO/sec exceeds value rule

**Alert Message**

SQLSvr Disk IO/sec exceeded @VALUE@. Curr = @"SQLSvr Disk IO Sec".Current@. Avg = @"SQLSvr Disk IO Sec".Avg@. Peak = @"SQLSvr Disk IO Sec".Max@.

**Detail View**[Global](#) on page 12**Default Rule Properties**

|                          |            |
|--------------------------|------------|
| <b>Severity</b>          | 20         |
| <b>Event Type</b>        | STD        |
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 1 / 1      |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

**Source Collection**

GLOBALSTATS

**Related reference**[GLOBALSTATS](#) on page 168

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[Global](#) on page 12

Global statistics

## MSSQL\_GLOB\_SQLSVR\_MEM\_MB

---

SQLServer Memory(MB) exceeds value rule

### Alert Message

SQLServer Memory(MB) exceeded @VALUE@. Curr = @"SQLSvr Mem MB".Current@. Avg = @"SQLSvr Mem MB".Avg@. Peak = @"SQLSvr Mem MB".Max@.

### Detail View

[Global](#) on page 12

### Default Rule Properties

|                   |            |
|-------------------|------------|
| Severity          | 20         |
| Event Type        | STD        |
| Refresh           | 60 seconds |
| Occurrence Window | 1 / 1      |
| Enabled           | No         |
| Attributes        | None       |

### Source Collection

GLOBALSTATS

### Related reference

[GLOBALSTATS](#) on page 168

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[Global](#) on page 12

Global statistics

## MSSQL\_GLOB\_TOTAL\_CPU

---

Total CPU % exceeded value rule

### Alert Message

Batch request rate exceeded @VALUE@. Curr = @"Total CPU %".Current@. Avg = @"Total CPU %".Avg@.

### Detail View

[Global](#) on page 12

**Default Rule Properties**

|                          |            |
|--------------------------|------------|
| <b>Severity</b>          | 20         |
| <b>Event Type</b>        | STD        |
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 10 / 15    |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

**Source Collection**

GLOBALSTATS

**Related reference**[GLOBALSTATS](#) on page 168

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[Global](#) on page 12

Global statistics

**MSSQL\_GLOB\_TOTAL\_DISKIO**

---

Total Disk IO/sec exceeds value rule

**Alert Message**

Total Disk IO/sec exceeded @VALUE@. Curr = @"Total Disk IO Sec".Current@. Avg = @"Total Disk IO Sec".Avg@. Peak = @"Total Disk IO Sec".Max@.

**Detail View**[Global](#) on page 12**Default Rule Properties**

|                          |            |
|--------------------------|------------|
| <b>Severity</b>          | 20         |
| <b>Event Type</b>        | STD        |
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 1 / 1      |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

**Source Collection**

GLOBALSTATS

**Related reference**[GLOBALSTATS](#) on page 168

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[Global](#) on page 12

Global statistics

## MSSQL\_LOGDEVIO\_IOSPERSEC

---

Log Dev IO rate > value rule

### Alert Message

Log Device @device@ IO rate @IOSPERSEC@/sec exceeds @value@

### Default Rule Properties

|                   |             |
|-------------------|-------------|
| Severity          | 20          |
| Event Type        | STD         |
| Refresh           | 120 seconds |
| Occurrence Window | 5 / 10      |
| Enabled           | No          |
| Attributes        | !NOPERFMON  |

### Source Collection

LOGDEVIO

### Related reference

[LOGDEVIO](#) on page 115

LOGDEVIO store

### Related information

[#unique\\_72](#)

## MSSQL\_LOGDEVIO\_USEDPERCENT

---

Log Dev % space usage > value rule

### Alert Message

Log Device @device@ space usage @USEDPERCENT@% exceeds @value@

### Default Rule Properties

|                   |             |
|-------------------|-------------|
| Severity          | 20          |
| Event Type        | STD         |
| Refresh           | 600 seconds |
| Occurrence Window | 1 / 1       |
| Enabled           | No          |

|            |            |
|------------|------------|
| Attributes | !NOPERFMON |
|------------|------------|

**Source Collection**

LOGDEVIO

**Related reference**[LOGDEVIO](#) on page 115

LOGDEVIO store

**Related information**[#unique\\_72](#)

## MSSQL\_LOGFILE\_ERROR

---

Error SQL Server log entry found rule

**Alert Message**

@APPNAME@/@ERRORLEVEL@/@ERRORCODE@: @ERRORTEXT@

**Default Rule Properties**

|                   |             |
|-------------------|-------------|
| Severity          | 20          |
| Event Type        | STD         |
| Refresh           | 600 seconds |
| Occurrence Window | 1 / 1       |
| Enabled           | No          |
| Attributes        | LOCAL       |

**Source Collection**

LOGFILE

**Related information**[#unique\\_101](#)[#unique\\_102](#)

## MSSQL\_MEMORY\_AVAILBYTES

---

System Memory Avail &lt; value rule

**Alert Message**

System memory available bytes (@"Available Bytes".Current@) &lt; @VALUE@

**Default Rule Properties**

|            |             |
|------------|-------------|
| Severity   | 20          |
| Event Type | STD         |
| Refresh    | 120 seconds |

|                   |            |
|-------------------|------------|
| Occurrence Window | 15 / 30    |
| Enabled           | No         |
| Attributes        | !NOPERFMON |

**Source Collection**

MEMORY

**Related reference**[MEMORY](#) on page 125

MEMORY store

**Related information**[#unique\\_104](#)

## MSSQL\_MEMORY\_PAGESPERSEC

---

System Memory Pages/sec &gt; value rule

**Alert Message**

System memory Pages/sec (@ "Pages/sec".Current@) &gt; @VALUE@

**Default Rule Properties**

|                   |             |
|-------------------|-------------|
| Severity          | 20          |
| Event Type        | STD         |
| Refresh           | 120 seconds |
| Occurrence Window | 15 / 30     |
| Enabled           | No          |
| Attributes        | !NOPERFMON  |

**Source Collection**

MEMORY

**Related reference**[MEMORY](#) on page 125

MEMORY store

**Related information**[#unique\\_104](#)

## MSSQL\_PROCESS\_BLOCKED\_TIME

---

Seconds Blocked exceeds value rule

**Alert Message**

@spid@/@loginame@/@hostname@/@program\_name@, Blocked for @waittimesecs@ seconds.

**Detail View**

[Processes](#) on page 13

**Default Rule Properties**

|                          |            |
|--------------------------|------------|
| <b>Severity</b>          | 20         |
| <b>Event Type</b>        | STD        |
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 1 / 1      |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

**Source Collection**

PROCESS

**Related reference**

[PROCESS](#) on page 172

Processes

[PROCESS](#) on page 126

PROCESS store

[Processes](#) on page 13

Processes

## MSSQL\_PROCESS\_CPU\_PERCENT

---

Process CPU % exceeds value rule

**Alert Message**

@spid@/@loginame@/@hostname@/@program\_name@, CPU % @CPUPCT@ exceeds @VALUE@.

**Detail View**

[Processes](#) on page 13

**Default Rule Properties**

|                          |            |
|--------------------------|------------|
| <b>Severity</b>          | 20         |
| <b>Event Type</b>        | STD        |
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 1 / 1      |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

**Source Collection**

PROCESS

**Related reference**[PROCESS](#) on page 172

Processes

[PROCESS](#) on page 126

PROCESS store

[Processes](#) on page 13

Processes

## MSSQL\_PROCESS\_CPUSECS

---

Process CPU secs exceeds value rule

**Alert Message**

@spid@/@loginame@/@hostname@/@program\_name@, CPU Secs @cpusecs@ exceeds @VALUE@.

**Detail View**[Processes](#) on page 13**Default Rule Properties**

|                          |            |
|--------------------------|------------|
| <b>Severity</b>          | 20         |
| <b>Event Type</b>        | STD        |
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 1 / 1      |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

**Source Collection**

PROCESS

**Related reference**[PROCESS](#) on page 172

Processes

[PROCESS](#) on page 126

PROCESS store

[Processes](#) on page 13

Processes

## MSSQL\_PROCESS\_DECEASED\_SPID

---

Record Deceased SPIDs rule

**Alert Message**

Session Deceased: @spid@/@loginame@/@hostname@/@program\_name@

**Detail View**

[Processes](#) on page 13

**Default Rule Properties**

|                          |            |
|--------------------------|------------|
| <b>Severity</b>          | 10         |
| <b>Event Type</b>        | STD        |
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 1 / 1      |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

**Source Collection**

PROCESS

**Related reference**

[PROCESS](#) on page 172

Processes

[PROCESS](#) on page 126

PROCESS store

[Processes](#) on page 13

Processes

## MSSQL\_PROCESS\_NEW\_SPID

---

Record New SPIDs rule

**Alert Message**

New Session: @spid@/@loginame@/@hostname@/@program\_name@

**Detail View**

[Processes](#) on page 13

**Default Rule Properties**

|                          |            |
|--------------------------|------------|
| <b>Severity</b>          | 10         |
| <b>Event Type</b>        | STD        |
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 1 / 1      |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

**Source Collection**

PROCESS

**Related reference**[PROCESS](#) on page 172

Processes

[PROCESS](#) on page 126

PROCESS store

[Processes](#) on page 13

Processes

## MSSQL\_PROCESS\_PHYSIO\_RATE

---

Physical IO rate exceeds value rule

**Alert Message**

@spid@/@loginname@/@hostname@/@program\_name@, Phys IO rate @physical\_io\_rate@ exceeds @VALUE@.

**Detail View**[Processes](#) on page 13**Default Rule Properties**

|                          |            |
|--------------------------|------------|
| <b>Severity</b>          | 20         |
| <b>Event Type</b>        | STD        |
| <b>Refresh</b>           | 60 seconds |
| <b>Occurrence Window</b> | 1 / 1      |
| <b>Enabled</b>           | No         |
| <b>Attributes</b>        | None       |

**Source Collection**

PROCESS

**Related reference**[PROCESS](#) on page 172

Processes

[PROCESS](#) on page 126

PROCESS store

[Processes](#) on page 13

Processes

## MSSQL\_PROCESS\_STATUS

---

Process status like value rule

**Alert Message**

@spid@/@loginname@/@hostname@/@program\_name@, Status @status@ like "@VALUE@"

**Detail View**

[Processes](#) on page 13

**Default Rule Properties**

|                   |            |
|-------------------|------------|
| Severity          | 10         |
| Event Type        | STD        |
| Refresh           | 60 seconds |
| Occurrence Window | 1 / 1      |
| Enabled           | No         |
| Attributes        | None       |

**Source Collection**

PROCESS

**Related reference**

[PROCESS](#) on page 172

Processes

[PROCESS](#) on page 126

PROCESS store

[Processes](#) on page 13

Processes

## MSSQL\_STMT\_LONGRUNNING

---

Statement running for time > value (seconds) rule

**Alert Message**

Statement (sid=@session\_id@, user=@login\_name@, app=@program\_name@) has been running over @VALUE@ seconds (start=@start\_time@).

**Detail View**

[Current Executing Stmts](#) on page 23

**Default Rule Properties**

|                   |             |
|-------------------|-------------|
| Severity          | 20          |
| Event Type        | SET / RESET |
| Refresh           | 30 seconds  |
| Occurrence Window | 1 / 1       |
| Enabled           | Yes         |
| Attributes        | DMV         |

**Source Collection**

DMV\_CURRENTSTMT

**Related reference**[DMV\\_CURRENTSTMT](#) on page 156

Current executing statements

[DMV\\_CURRENTSTMT](#) on page 109

DMV\_CURRENTSTMT store

[Current Executing Stmts](#) on page 23

Current executing statements

## MSSQL\_SYSTEM\_PROCQUEUELEN

---

Processor Queue Len exceeds value rule

**Alert Message**

Processor Queue Len of @"SYSTEM:NULL:Processor Queue Length".Current@ &gt; @VALUE@ !

**Default Rule Properties**

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 20          |
| <b>Event Type</b>        | STD         |
| <b>Refresh</b>           | 120 seconds |
| <b>Occurrence Window</b> | 15 / 30     |
| <b>Enabled</b>           | No          |
| <b>Attributes</b>        | !NOPERFMON  |

**Source Collection**

PERFMON

**Related reference**[PERFMON](#) on page 126

PERFMON store

**Related information**[#unique\\_108](#)

## MSSQL\_SYSTEM\_PROCTIME\_ALERT

---

%Total Proc Time exceeds value (Alert) rule

**Alert Message**

%Total Proc Time @"SYSTEM:NULL:% Total Processor Time".Current@ exceeds @VALUE@%.

**Default Rule Properties**

|                 |    |
|-----------------|----|
| <b>Severity</b> | 20 |
|-----------------|----|

|                          |             |
|--------------------------|-------------|
| <b>Event Type</b>        | STD         |
| <b>Refresh</b>           | 120 seconds |
| <b>Occurrence Window</b> | 20 / 30     |
| <b>Enabled</b>           | No          |
| <b>Attributes</b>        | !NOPERFMON  |

#### Source Collection

PERFMON

#### Related reference

[PERFMON](#) on page 126

PERFMON store

#### Related information

[#unique\\_108](#)

## MSSQL\_SYSTEM\_PROCTIME\_WARN

---

%Total Proc Time exceeds value (warn) rule

#### Alert Message

%Total Proc Time @"SYSTEM:NULL:% Processor Time".Current@ exceeds @VALUE@%.

#### Default Rule Properties

|                          |             |
|--------------------------|-------------|
| <b>Severity</b>          | 20          |
| <b>Event Type</b>        | STD         |
| <b>Refresh</b>           | 120 seconds |
| <b>Occurrence Window</b> | 20 / 30     |
| <b>Enabled</b>           | No          |
| <b>Attributes</b>        | !NOPERFMON  |

#### Source Collection

PERFMON

#### Related reference

[PERFMON](#) on page 126

PERFMON store

#### Related information

[#unique\\_108](#)

---

# Chapter

# 4

---

## Stores By Category

---

Topics:

- [SQL](#)
- [Storage](#)
- [Other](#)

## SQL

---

### BLOCKTREE

BLOCKTREE store

#### Default Store Properties

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 120 Seconds |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

#### Related reference

[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 22

Blocktrees of processes, including blockers and waiters

[BLOCKTREE](#) on page 154

Blocked processes

[MSSQL\\_BLOCKTREE\\_WAITER](#) on page 38

Waiter has been blocked over time thresholds rule

### DMV\_CURRENTSHOWPLAN

DMV\_CURRENTSHOWPLAN store

#### Default Store Properties

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 10 Seconds  |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

**Related reference**

[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 22

Blocktrees of processes, including blockers and waiters

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV\\_CURRENTSHOWPLAN](#) on page 154

SQL plans for current executing statements

**DMV\_CURRENTSQLTEXT**

DMV\_CURRENTSQLTEXT store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 10 Seconds  |
| <b>Enabled</b>                | Yes         |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

**Related reference**

[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 22

Blocktrees of processes, including blockers and waiters

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV\\_CURRENTSQLTEXT](#) on page 155

SQL text of current executing statements

**DMV\_CURRENTSTMT**

DMV\_CURRENTSTMT store

**Default Store Properties**

|                           |            |
|---------------------------|------------|
| <b>Refresh</b>            | 10 Seconds |
| <b>Enabled</b>            | Yes        |
| <b>Overdue Timeout</b>    | 1 Minutes  |
| <b>Partition Interval</b> | 1 Days     |
| <b>Partitions</b>         | 7          |

|                               |             |
|-------------------------------|-------------|
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

**Related reference**

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV\\_CURRENTSTMT](#) on page 156

Current executing statements

[MSSQL\\_STMT\\_LONGRUNNING](#) on page 40

Statement running for time > value (seconds) rule

**DMV\_HEALTH\_LONGSQL**

DMV\_HEALTH\_LONGSQL store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 120 Seconds |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 01:00:00 |

**Related information**

[#unique\\_116](#)

**DMV\_LONGOPS**

DMV\_LONGOPS store

**Default Store Properties**

|                           |             |
|---------------------------|-------------|
| <b>Refresh</b>            | 120 Seconds |
| <b>Enabled</b>            | No          |
| <b>Overdue Timeout</b>    | 1 Minutes   |
| <b>Partition Interval</b> | 1 Days      |
| <b>Partitions</b>         | 7           |
| <b>Filter</b>             |             |
| <b>Export</b>             | No          |

|                               |             |
|-------------------------------|-------------|
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 01:00:00 |

**Related information**[#unique\\_118](#)**DMV\_RECENTSTMT\_CASK**

DMV\_RECENTSTMT\_CASK store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 30 Seconds  |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

**Related information**[#unique\\_120](#)**Storage**

---

**DBUSAGE**

DBUSAGE store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 300 Seconds |
| <b>Enabled</b>                | Yes         |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | Yes         |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

**Related reference**

[Database Space Usage](#) on page 26

Database space usage

[DBUSAGE](#) on page 157

Database space usage

[MSSQL\\_DBUSAGE\\_AUTOSHRINK\\_ON](#) on page 40

Database has auto-shrink enabled, which is often problematic rule

[MSSQL\\_DBUSAGE\\_DATABASE\\_OFFLINE](#) on page 41

Database is in an offline, emergency, or other such critical state rule

[MSSQL\\_DBUSAGE\\_DATABASE\\_RECOVERY](#) on page 42

Database is in a restoring / recovery state rule

[MSSQL\\_DBUSAGE\\_MULTIPLE\\_LOGFILES](#) on page 42

Database has multiple log files, which can be less than optimal rule

[MSSQL\\_DBUSAGE\\_OFFLINE\\_FILES](#) on page 43

Database is online, but has offline files rule

[MSSQL\\_DBUSAGE\\_SUSPECT\\_PAGES](#) on page 43

Database contains suspect pages rule

**DMV\_TEMPDB\_OVERVIEW**

DMV\_TEMPDB\_OVERVIEW store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 300 Seconds |
| <b>Enabled</b>                | Yes         |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 01:00:00 |

**Related information**

[#unique\\_123](#)

**DMV\_TEMPDB\_TOP\_PARTITIONS**

DMV\_TEMPDB\_TOP\_PARTITIONS store

**Default Store Properties**

|                           |             |
|---------------------------|-------------|
| <b>Refresh</b>            | 300 Seconds |
| <b>Enabled</b>            | No          |
| <b>Overdue Timeout</b>    | 1 Minutes   |
| <b>Partition Interval</b> | 1 Days      |

|                               |             |
|-------------------------------|-------------|
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 01:00:00 |

**Related information**

[#unique\\_125](#)

**FGUSAGE**

FGUSAGE store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 300 Seconds |
| <b>Enabled</b>                | Yes         |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 01:00:00 |

**Related reference**

[Database Space Usage](#) on page 26

Database space usage

[Filegroup Usage](#) on page 31

Filegroup space usage

[FGUSAGE](#) on page 162

Filegroup space usage

[MSSQL\\_FGUSAGE\\_DATA\\_CRITICAL](#) on page 44

Filegroup usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_DATA\\_INFO](#) on page 45

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_DATA\\_WARNING](#) on page 45

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_LOG\\_CRITICAL](#) on page 46

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_LOG\\_INFO](#) on page 47

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_LOG\\_WARNING](#) on page 47

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

## FILEUSAGE

FILEUSAGE store

### Default Store Properties

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 1 Hour      |
| <b>Enabled</b>                | Yes         |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 12:00:00 |

### Related reference

[Database Space Usage](#) on page 26

Database space usage

[Filegroup Usage](#) on page 31

Filegroup space usage

[FILEUSAGE](#) on page 165

File space usage

[MSSQL\\_FILEUSAGE\\_SPACEBOUNDALLOC](#) on page 48

Next file OS allocation exceeds OS free space rule

## FULLEST\_FG\_DATA

FULLEST\_FG\_DATA store

### Default Store Properties

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 120 Seconds |
| <b>Enabled</b>                | Yes         |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 01:00:00 |

### Related information

[#unique\\_127](#)

## FULLEST\_FG\_LOG

FULLEST\_FG\_LOG store

### Default Store Properties

|                        |             |
|------------------------|-------------|
| Refresh                | 120 Seconds |
| Enabled                | Yes         |
| Overdue Timeout        | 1 Minutes   |
| Partition Interval     | 1 Days      |
| Partitions             | 7           |
| Filter                 |             |
| Export                 | No          |
| Export Start           | immediate   |
| Export Repeat Interval | 00 01:00:00 |

### Related information

[#unique\\_129](#)

## LOGDEVIO

LOGDEVIO store

### Default Store Properties

|                        |             |
|------------------------|-------------|
| Refresh                | 300 Seconds |
| Enabled                | No          |
| Overdue Timeout        | 1 Minutes   |
| Partition Interval     | 1 Days      |
| Partitions             | 7           |
| Filter                 |             |
| Export                 | No          |
| Export Start           | immediate   |
| Export Repeat Interval | 00 01:00:00 |

### Related reference

[MSSQL\\_LOGDEVIO\\_IOSPERSEC](#) on page 50

Log Dev IO rate > value rule

[MSSQL\\_LOGDEVIO\\_USEDPERCENT](#) on page 50

Log Dev % space usage > value rule

### Related information

[#unique\\_72](#)

## TEMPDB\_IO

TEMPDB\_IO store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 120 Seconds |
| <b>Enabled</b>                | Yes         |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 01:00:00 |

**Related information**[#unique\\_131](#)**TEMPDB\_STORAGE**

TEMPDB\_STORAGE store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 120 Seconds |
| <b>Enabled</b>                | Yes         |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 01:00:00 |

**Related information**[#unique\\_133](#)**Other**

---

**BUFFCACHE**

BUFFCACHE store

**Default Store Properties**

|                |             |
|----------------|-------------|
| <b>Refresh</b> | 120 Seconds |
| <b>Enabled</b> | No          |

|                               |             |
|-------------------------------|-------------|
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

**Related reference**

[MSSQL\\_BUFF\\_CACHEHIT\\_ALERT](#) on page 56

Buffer Mgr CacheHit < value(Alert) rule

[MSSQL\\_BUFF\\_CACHEHIT\\_WARN](#) on page 57

Buffer Mgr CacheHit < value(Warn) rule

**Related information**

[#unique\\_94](#)

**CACHEMANAGER**

CACHEMANAGER store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 10 Minutes  |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 05:00:00 |

**Related information**

[#unique\\_136](#)

**CACHEOBJECTS**

CACHEOBJECTS store

**Default Store Properties**

|                           |            |
|---------------------------|------------|
| <b>Refresh</b>            | 10 Minutes |
| <b>Enabled</b>            | No         |
| <b>Overdue Timeout</b>    | 1 Minutes  |
| <b>Partition Interval</b> | 1 Days     |

|                               |             |
|-------------------------------|-------------|
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 05:00:00 |

**Related information**[#unique\\_138](#)**CONFIGSNAP**

CONFIGSNAP store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 2 Hours     |
| <b>Enabled</b>                | Yes         |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 12:00:00 |

**Related information**[#unique\\_140](#)**DMV\_AG**

DMV\_AG store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 60 Seconds  |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

**Related reference**

[MSSQL\\_AG\\_OFFLINE\\_LISTENERS](#) on page 55

Too many AG listeners are offline rule

**Related information**

[#unique\\_90](#)

**DMV\_AGDB**

DMV\_AGDB store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 60 Seconds  |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

**Related reference**

[MSSQL\\_AGDB\\_LATENCY](#) on page 51

Check Availability Group (AG) database replica latency rule

[MSSQL\\_AGDB\\_NOTJOINED](#) on page 52

AG database replica is not joined rule

[MSSQL\\_AGDB\\_RECEIVED\\_EVER](#) on page 52

Have AG messages ever been received? rule

[MSSQL\\_AGDB\\_RECEIVED\\_RECENT](#) on page 53

Have AG messages been received within the last # seconds? rule

[MSSQL\\_AGDB\\_SUSPENDED](#) on page 54

AG database replica is suspended rule

[MSSQL\\_AGDB\\_UNHEALTHY](#) on page 54

AG database replica is not healthy rule

**Related information**

[#unique\\_78](#)

**DMV\_AGLISTENERS**

DMV\_AGLISTENERS store

**Default Store Properties**

|                        |            |
|------------------------|------------|
| <b>Refresh</b>         | 60 Seconds |
| <b>Enabled</b>         | No         |
| <b>Overdue Timeout</b> | 1 Minutes  |

|                               |             |
|-------------------------------|-------------|
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

**Related information**[#unique\\_142](#)**DMV\_AGREDOTHEADS**

DMV\_AGREDOTHEADS store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 60 Seconds  |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

**Related information**[#unique\\_144](#)**DMV\_AGREPLICAS**

DMV\_AGREPLICAS store

**Default Store Properties**

|                           |            |
|---------------------------|------------|
| <b>Refresh</b>            | 60 Seconds |
| <b>Enabled</b>            | No         |
| <b>Overdue Timeout</b>    | 1 Minutes  |
| <b>Partition Interval</b> | 1 Days     |
| <b>Partitions</b>         | 7          |
| <b>Filter</b>             |            |
| <b>Export</b>             | No         |
| <b>Export Start</b>       | immediate  |

|                               |             |
|-------------------------------|-------------|
| <b>Export Repeat Interval</b> | 00 00:30:00 |
|-------------------------------|-------------|

**Related reference**

[MSSQL\\_AGREPLICAS\\_DISCONNECTED](#) on page 55

AG replica is disconnected rule

**Related information**

[#unique\\_87](#)

**DMV\_BUFFERCACHE\_SUM**

DMV\_BUFFERCACHE\_SUM store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 120 Seconds |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 01:00:00 |

**Related information**

[#unique\\_146](#)

**DMV\_CACHEOBJECTS**

DMV\_CACHEOBJECTS store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 10 Minutes  |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 05:00:00 |

**Related information**

[#unique\\_148](#)

**DMV\_HEALTH\_INSTANCE**

DMV\_HEALTH\_INSTANCE store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 60 Minutes  |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 10 Days     |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 02 00:00:00 |

**Related information**[#unique\\_150](#)**DMV\_TIMEEVENTS**

DMV\_TIMEEVENTS store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 300 Seconds |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

**Related information**[#unique\\_152](#)**DMV\_TIMEEVENTS\_CLASS**

DMV\_TIMEEVENTS\_CLASS store

**Default Store Properties**

|                |             |
|----------------|-------------|
| <b>Refresh</b> | 300 Seconds |
| <b>Enabled</b> | No          |

|                               |             |
|-------------------------------|-------------|
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 01:00:00 |

**Related information**[#unique\\_154](#)**GLOBALSTATS**

GLOBALSTATS store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 120 Seconds |
| <b>Enabled</b>                | Yes         |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

**Related reference**[Global](#) on page 12

Global statistics

[GLOBALSTATS](#) on page 168

Global statistics

[MSSQL\\_GLOB\\_BATCH\\_REQS](#) on page 38

Batch requests/sec exceeds value rule

[MSSQL\\_GLOB\\_BLOCKED](#) on page 39

Blocked Process count exceeds value rule

[MSSQL\\_GLOB\\_LOCKS](#) on page 58

Lock count exceeds value rule

[MSSQL\\_GLOB\\_PROCESSES](#) on page 59

Process count exceeds value rule

[MSSQL\\_GLOB\\_RUNNING\\_JOBS](#) on page 59

Running job count exceeds value rule

[MSSQL\\_GLOB\\_SQLSVR\\_CPU](#) on page 60

SQLServer CPU % exceeds value rule

[MSSQL\\_GLOB\\_SQLSVR\\_CPU\\_OVERALL](#) on page 61

SQLServer CPU % (overall) exceeds value rule

[MSSQL\\_GLOB\\_SQLSVR\\_DISKIO](#) on page 49

SQLSvr Disk IO/sec exceeds value rule

[MSSQL\\_GLOB\\_SQLSVR\\_MEM\\_MB](#) on page 61

SQLServer Memory(MB) exceeds value rule

[MSSQL\\_GLOB\\_TOTAL\\_CPU](#) on page 62

Total CPU % exceeded value rule

[MSSQL\\_GLOB\\_TOTAL\\_DISKIO](#) on page 49

Total Disk IO/sec exceeds value rule

## JOBSRUNNING

JOBSRUNNING store

### Default Store Properties

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 2 Hours     |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 12:00:00 |

### Related information

[#unique\\_156](#)

## LOCKS

LOCKS store

### Default Store Properties

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 120 Seconds |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

**Related reference**

[Active Locks](#) on page 19

Locks

[LOCKS](#) on page 170

Locks

**MEMORY**

MEMORY store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 300 Seconds |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 01:00:00 |

**Related reference**

[MSSQL\\_MEMORY\\_AVAILBYTES](#) on page 63

System Memory Avail < value rule

[MSSQL\\_MEMORY\\_PAGESPERSEC](#) on page 63

System Memory Pages/sec > value rule

**Related information**

[#unique\\_104](#)

**MEMORYMANAGER**

MEMORYMANAGER store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 300 Seconds |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 01:00:00 |

**Related reference**

[MSSQL\\_BUFF\\_FREEBUFFERS](#) on page 57

Buffer Mgr Free Buffers < value rule

**Related information**

[#unique\\_98](#)

**PERFMON**

PERFMON store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 300 Seconds |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 01:00:00 |

**Related reference**

[MSSQL\\_SYSTEM\\_PROCQUEUELEN](#) on page 68

Processor Queue Len exceeds value rule

[MSSQL\\_SYSTEM\\_PROCTIME\\_ALERT](#) on page 69

%Total Proc Time exceeds value (Alert) rule

[MSSQL\\_SYSTEM\\_PROCTIME\\_WARN](#) on page 69

%Total Proc Time exceeds value (warn) rule

**Related information**

[#unique\\_108](#)

**PROCESS**

PROCESS store

**Default Store Properties**

|                           |             |
|---------------------------|-------------|
| <b>Refresh</b>            | 120 Seconds |
| <b>Enabled</b>            | No          |
| <b>Overdue Timeout</b>    | 1 Minutes   |
| <b>Partition Interval</b> | 1 Days      |
| <b>Partitions</b>         | 7           |
| <b>Filter</b>             |             |
| <b>Export</b>             | No          |

|                               |             |
|-------------------------------|-------------|
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

### Related reference

[Processes](#) on page 13

Processes

[PROCESS](#) on page 172

Processes

[MSSQL\\_PROCESS\\_BLOCKED\\_TIME](#) on page 64

Seconds Blocked exceeds value rule

[MSSQL\\_PROCESS\\_CPU\\_PERCENT](#) on page 65

Process CPU % exceeds value rule

[MSSQL\\_PROCESS\\_CPUSECS](#) on page 65

Process CPU secs exceeds value rule

[MSSQL\\_PROCESS\\_DECEASED\\_SPID](#) on page 66

Record Deceased SPIDs rule

[MSSQL\\_PROCESS\\_NEW\\_SPID](#) on page 67

Record New SPIDs rule

[MSSQL\\_PROCESS\\_PHYSIO\\_RATE](#) on page 67

Physical IO rate exceeds value rule

[MSSQL\\_PROCESS\\_STATUS](#) on page 68

Process status like value rule

## SP\_CONFIGURE

SP\_CONFIGURE store

### Default Store Properties

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 1 Days      |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 10 00:00:00 |

### Related reference

[System Settings](#) on page 34

SQL Server settings, or parameters

[SP\\_CONFIGURE](#) on page 174

SQL Server settings, or parameters



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# Chapter

# 5

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## Stores

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### Topics:

- [BLOCKTREE](#)
- [BUFFCACHE](#)
- [CACHEMANAGER](#)
- [CACHEOBJECTS](#)
- [CONFIGSNAP](#)
- [DBUSAGE](#)
- [DMV\\_AG](#)
- [DMV\\_AGDB](#)
- [DMV\\_AGLISTENERS](#)
- [DMV\\_AGREDOTHEADS](#)
- [DMV\\_AGREPLICAS](#)
- [DMV\\_BUFFERCACHE\\_SUM](#)
- [DMV\\_CACHEOBJECTS](#)
- [DMV\\_CURRENTSHOWPLAN](#)
- [DMV\\_CURRENTSQLTEXT](#)
- [DMV\\_CURRENTSTMT](#)
- [DMV\\_HEALTH\\_INSTANCE](#)
- [DMV\\_HEALTH\\_LONGSQL](#)
- [DMV\\_LONGOPS](#)
- [DMV\\_RECENTSTMT\\_CASK](#)
- [DMV\\_TEMPDB\\_OVERVIEW](#)
- [DMV\\_TEMPDB\\_TOP\\_PARTITIONS](#)
- [DMV\\_TIMEDEVENTS](#)
- [DMV\\_TIMEDEVENTS\\_CLASS](#)
- [FGUSAGE](#)
- [FILEUSAGE](#)
- [FULLEST\\_FG\\_DATA](#)
- [FULLEST\\_FG\\_LOG](#)
- [GLOBALSTATS](#)
- [JOBSRUNNING](#)
- [LOCKS](#)
- [LOGDEVIO](#)
- [MEMORY](#)
- [MEMORYMANAGER](#)
- [PERFMON](#)
- [PROCESS](#)

- [SP\\_CONFIGURE](#)
- [TEMPDB\\_IO](#)
- [TEMPDB\\_STORAGE](#)

## BLOCKTREE

---

BLOCKTREE store

### Default Store Properties

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 120 Seconds |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

### Related reference

[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 22

Blocktrees of processes, including blockers and waiters

[BLOCKTREE](#) on page 154

Blocked processes

[MSSQL\\_BLOCKTREE\\_WAITER](#) on page 38

Waiter has been blocked over time thresholds rule

## BUFFCACHE

---

BUFFCACHE store

### Default Store Properties

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 120 Seconds |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

**Related reference**

[MSSQL\\_BUFF\\_CACHEHIT\\_ALERT](#) on page 56

Buffer Mgr CacheHit < value(Alert) rule

[MSSQL\\_BUFF\\_CACHEHIT\\_WARN](#) on page 57

Buffer Mgr CacheHit < value(Warn) rule

**Related information**

[#unique\\_94](#)

## CACHEMANAGER

---

CACHEMANAGER store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 10 Minutes  |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 05:00:00 |

**Related information**

[#unique\\_136](#)

## CACHEOBJECTS

---

CACHEOBJECTS store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 10 Minutes  |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 05:00:00 |

**Related information**[#unique\\_138](#)

## CONFIGSNAP

---

CONFIGSNAP store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 2 Hours     |
| <b>Enabled</b>                | Yes         |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 12:00:00 |

**Related information**[#unique\\_140](#)

## DBUSAGE

---

DBUSAGE store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 300 Seconds |
| <b>Enabled</b>                | Yes         |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | Yes         |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

**Related reference**[Database Space Usage](#) on page 26

Database space usage

[DBUSAGE](#) on page 157

Database space usage

[MSSQL\\_DBUSAGE\\_AUTOSHRINK\\_ON](#) on page 40

Database has auto-shrink enabled, which is often problematic rule

[MSSQL\\_DBUSAGE\\_DATABASE\\_OFFLINE](#) on page 41

Database is in an offline, emergency, or other such critical state rule

[MSSQL\\_DBUSAGE\\_DATABASE\\_RECOVERY](#) on page 42

Database is in a restoring / recovery state rule

[MSSQL\\_DBUSAGE\\_MULTIPLE\\_LOGFILES](#) on page 42

Database has multiple log files, which can be less than optimal rule

[MSSQL\\_DBUSAGE\\_OFFLINE\\_FILES](#) on page 43

Database is online, but has offline files rule

[MSSQL\\_DBUSAGE\\_SUSPECT\\_PAGES](#) on page 43

Database contains suspect pages rule

## DMV\_AG

---

DMV\_AG store

### Default Store Properties

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 60 Seconds  |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

### Related reference

[MSSQL\\_AG\\_OFFLINE\\_LISTENERS](#) on page 55

Too many AG listeners are offline rule

### Related information

[#unique\\_90](#)

## DMV\_AGDB

---

DMV\_AGDB store

### Default Store Properties

|                        |            |
|------------------------|------------|
| <b>Refresh</b>         | 60 Seconds |
| <b>Enabled</b>         | No         |
| <b>Overdue Timeout</b> | 1 Minutes  |

|                               |             |
|-------------------------------|-------------|
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

#### Related reference

[MSSQL\\_AGDB\\_LATENCY](#) on page 51

Check Availability Group (AG) database replica latency rule

[MSSQL\\_AGDB\\_NOTJOINED](#) on page 52

AG database replica is not joined rule

[MSSQL\\_AGDB\\_RECEIVED\\_EVER](#) on page 52

Have AG messages ever been received? rule

[MSSQL\\_AGDB\\_RECEIVED\\_RECENT](#) on page 53

Have AG messages been received within the last # seconds? rule

[MSSQL\\_AGDB\\_SUSPENDED](#) on page 54

AG database replica is suspended rule

[MSSQL\\_AGDB\\_UNHEALTHY](#) on page 54

AG database replica is not healthy rule

#### Related information

[#unique\\_78](#)

## DMV\_AGLISTENERS

---

DMV\_AGLISTENERS store

#### Default Store Properties

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 60 Seconds  |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

#### Related information

[#unique\\_142](#)

## DMV\_AGREDOTHEADS

---

DMV\_AGREDOTHEADS store

### Default Store Properties

|                        |             |
|------------------------|-------------|
| Refresh                | 60 Seconds  |
| Enabled                | No          |
| Overdue Timeout        | 1 Minutes   |
| Partition Interval     | 1 Days      |
| Partitions             | 7           |
| Filter                 |             |
| Export                 | No          |
| Export Start           | immediate   |
| Export Repeat Interval | 00 00:30:00 |

### Related information

[#unique\\_144](#)

## DMV\_AGREPLICAS

---

DMV\_AGREPLICAS store

### Default Store Properties

|                        |             |
|------------------------|-------------|
| Refresh                | 60 Seconds  |
| Enabled                | No          |
| Overdue Timeout        | 1 Minutes   |
| Partition Interval     | 1 Days      |
| Partitions             | 7           |
| Filter                 |             |
| Export                 | No          |
| Export Start           | immediate   |
| Export Repeat Interval | 00 00:30:00 |

### Related reference

[MSSQL\\_AGREPLICAS\\_DISCONNECTED](#) on page 55

AG replica is disconnected rule

### Related information

[#unique\\_87](#)

## DMV\_BUFFERCACHE\_SUM

---

DMV\_BUFFERCACHE\_SUM store

### Default Store Properties

|                        |             |
|------------------------|-------------|
| Refresh                | 120 Seconds |
| Enabled                | No          |
| Overdue Timeout        | 1 Minutes   |
| Partition Interval     | 1 Days      |
| Partitions             | 7           |
| Filter                 |             |
| Export                 | No          |
| Export Start           | immediate   |
| Export Repeat Interval | 00 01:00:00 |

### Related information

[#unique\\_146](#)

## DMV\_CACHEOBJECTS

---

DMV\_CACHEOBJECTS store

### Default Store Properties

|                        |             |
|------------------------|-------------|
| Refresh                | 10 Minutes  |
| Enabled                | No          |
| Overdue Timeout        | 1 Minutes   |
| Partition Interval     | 1 Days      |
| Partitions             | 7           |
| Filter                 |             |
| Export                 | No          |
| Export Start           | immediate   |
| Export Repeat Interval | 00 05:00:00 |

### Related information

[#unique\\_148](#)

## DMV\_CURRENTSHOWPLAN

---

DMV\_CURRENTSHOWPLAN store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 10 Seconds  |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

**Related reference**

[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 22

Blocktrees of processes, including blockers and waiters

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV\\_CURRENTSHOWPLAN](#) on page 154

SQL plans for current executing statements

**DMV\_CURRENTSQLTEXT**

DMV\_CURRENTSQLTEXT store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 10 Seconds  |
| <b>Enabled</b>                | Yes         |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

**Related reference**

[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 22

Blocktrees of processes, including blockers and waiters

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV\\_CURRENTSQLTEXT](#) on page 155

SQL text of current executing statements

## DMV\_CURRENTSTMT

---

DMV\_CURRENTSTMT store

### Default Store Properties

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 10 Seconds  |
| <b>Enabled</b>                | Yes         |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

### Related reference

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV\\_CURRENTSTMT](#) on page 156

Current executing statements

[MSSQL\\_STMT\\_LONGRUNNING](#) on page 40

Statement running for time > value (seconds) rule

## DMV\_HEALTH\_INSTANCE

---

DMV\_HEALTH\_INSTANCE store

### Default Store Properties

|                           |            |
|---------------------------|------------|
| <b>Refresh</b>            | 60 Minutes |
| <b>Enabled</b>            | No         |
| <b>Overdue Timeout</b>    | 1 Minutes  |
| <b>Partition Interval</b> | 10 Days    |
| <b>Partitions</b>         | 7          |
| <b>Filter</b>             |            |
| <b>Export</b>             | No         |
| <b>Export Start</b>       | immediate  |

|                        |             |
|------------------------|-------------|
| Export Repeat Interval | 02 00:00:00 |
|------------------------|-------------|

**Related information**[#unique\\_150](#)

## DMV\_HEALTH\_LONGSQL

---

DMV\_HEALTH\_LONGSQL store

**Default Store Properties**

|                        |             |
|------------------------|-------------|
| Refresh                | 120 Seconds |
| Enabled                | No          |
| Overdue Timeout        | 1 Minutes   |
| Partition Interval     | 1 Days      |
| Partitions             | 7           |
| Filter                 |             |
| Export                 | No          |
| Export Start           | immediate   |
| Export Repeat Interval | 00 01:00:00 |

**Related information**[#unique\\_116](#)

## DMV\_LONGOPS

---

DMV\_LONGOPS store

**Default Store Properties**

|                        |             |
|------------------------|-------------|
| Refresh                | 120 Seconds |
| Enabled                | No          |
| Overdue Timeout        | 1 Minutes   |
| Partition Interval     | 1 Days      |
| Partitions             | 7           |
| Filter                 |             |
| Export                 | No          |
| Export Start           | immediate   |
| Export Repeat Interval | 00 01:00:00 |

**Related information**[#unique\\_118](#)

## DMV\_RECENTSTMT\_CASK

---

DMV\_RECENTSTMT\_CASK store

### Default Store Properties

|                        |             |
|------------------------|-------------|
| Refresh                | 30 Seconds  |
| Enabled                | No          |
| Overdue Timeout        | 1 Minutes   |
| Partition Interval     | 1 Days      |
| Partitions             | 7           |
| Filter                 |             |
| Export                 | No          |
| Export Start           | immediate   |
| Export Repeat Interval | 00 00:30:00 |

### Related information

[#unique\\_120](#)

## DMV\_TEMPDB\_OVERVIEW

---

DMV\_TEMPDB\_OVERVIEW store

### Default Store Properties

|                        |             |
|------------------------|-------------|
| Refresh                | 300 Seconds |
| Enabled                | Yes         |
| Overdue Timeout        | 1 Minutes   |
| Partition Interval     | 1 Days      |
| Partitions             | 7           |
| Filter                 |             |
| Export                 | No          |
| Export Start           | immediate   |
| Export Repeat Interval | 00 01:00:00 |

### Related information

[#unique\\_123](#)

## DMV\_TEMPDB\_TOP\_PARTITIONS

---

DMV\_TEMPDB\_TOP\_PARTITIONS store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 300 Seconds |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 01:00:00 |

**Related information**[#unique\\_125](#)**DMV\_TIMEDEVENTS**

---

DMV\_TIMEDEVENTS store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 300 Seconds |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

**Related information**[#unique\\_152](#)**DMV\_TIMEDEVENTS\_CLASS**

---

DMV\_TIMEDEVENTS\_CLASS store

**Default Store Properties**

|                        |             |
|------------------------|-------------|
| <b>Refresh</b>         | 300 Seconds |
| <b>Enabled</b>         | No          |
| <b>Overdue Timeout</b> | 1 Minutes   |

|                               |             |
|-------------------------------|-------------|
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 01:00:00 |

**Related information**

[#unique\\_154](#)

## FGUSAGE

---

FGUSAGE store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 300 Seconds |
| <b>Enabled</b>                | Yes         |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 01:00:00 |

**Related reference**

[Database Space Usage](#) on page 26

Database space usage

[Filegroup Usage](#) on page 31

Filegroup space usage

[FGUSAGE](#) on page 162

Filegroup space usage

[MSSQL\\_FGUSAGE\\_DATA\\_CRITICAL](#) on page 44

Filegroup usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_DATA\\_INFO](#) on page 45

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_DATA\\_WARNING](#) on page 45

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_LOG\\_CRITICAL](#) on page 46

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_LOG\\_INFO](#) on page 47

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_LOG\\_WARNING](#) on page 47

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

## FILEUSAGE

---

FILEUSAGE store

### Default Store Properties

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 1 Hour      |
| <b>Enabled</b>                | Yes         |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 12:00:00 |

### Related reference

[Database Space Usage](#) on page 26

Database space usage

[Filegroup Usage](#) on page 31

Filegroup space usage

[FILEUSAGE](#) on page 165

File space usage

[MSSQL\\_FILEUSAGE\\_SPACEBOUNDALLOC](#) on page 48

Next file OS allocation exceeds OS free space rule

## FULLEST\_FG\_DATA

---

FULLEST\_FG\_DATA store

### Default Store Properties

|                           |             |
|---------------------------|-------------|
| <b>Refresh</b>            | 120 Seconds |
| <b>Enabled</b>            | Yes         |
| <b>Overdue Timeout</b>    | 1 Minutes   |
| <b>Partition Interval</b> | 1 Days      |
| <b>Partitions</b>         | 7           |
| <b>Filter</b>             |             |
| <b>Export</b>             | No          |
| <b>Export Start</b>       | immediate   |

|                        |             |
|------------------------|-------------|
| Export Repeat Interval | 00 01:00:00 |
|------------------------|-------------|

**Related information**[#unique\\_127](#)

## FULLEST\_FG\_LOG

---

FULLEST\_FG\_LOG store

**Default Store Properties**

|                        |             |
|------------------------|-------------|
| Refresh                | 120 Seconds |
| Enabled                | Yes         |
| Overdue Timeout        | 1 Minutes   |
| Partition Interval     | 1 Days      |
| Partitions             | 7           |
| Filter                 |             |
| Export                 | No          |
| Export Start           | immediate   |
| Export Repeat Interval | 00 01:00:00 |

**Related information**[#unique\\_129](#)

## GLOBALSTATS

---

GLOBALSTATS store

**Default Store Properties**

|                        |             |
|------------------------|-------------|
| Refresh                | 120 Seconds |
| Enabled                | Yes         |
| Overdue Timeout        | 1 Minutes   |
| Partition Interval     | 1 Days      |
| Partitions             | 7           |
| Filter                 |             |
| Export                 | No          |
| Export Start           | immediate   |
| Export Repeat Interval | 00 00:30:00 |

**Related reference**[Global](#) on page 12

Global statistics

[GLOBALSTATS](#) on page 168

Global statistics

[MSSQL\\_GLOB\\_BATCH\\_REQS](#) on page 38

Batch requests/sec exceeds value rule

[MSSQL\\_GLOB\\_BLOCKED](#) on page 39

Blocked Process count exceeds value rule

[MSSQL\\_GLOB\\_LOCKS](#) on page 58

Lock count exceeds value rule

[MSSQL\\_GLOB\\_PROCESSES](#) on page 59

Process count exceeds value rule

[MSSQL\\_GLOB\\_RUNNING\\_JOBS](#) on page 59

Running job count exceeds value rule

[MSSQL\\_GLOB\\_SQLSVR\\_CPU](#) on page 60

SQLServer CPU % exceeds value rule

[MSSQL\\_GLOB\\_SQLSVR\\_CPU\\_OVERALL](#) on page 61

SQLServer CPU % (overall) exceeds value rule

[MSSQL\\_GLOB\\_SQLSVR\\_DISKIO](#) on page 49

SQLSvr Disk IO/sec exceeds value rule

[MSSQL\\_GLOB\\_SQLSVR\\_MEM\\_MB](#) on page 61

SQLServer Memory(MB) exceeds value rule

[MSSQL\\_GLOB\\_TOTAL\\_CPU](#) on page 62

Total CPU % exceeded value rule

[MSSQL\\_GLOB\\_TOTAL\\_DISKIO](#) on page 49

Total Disk IO/sec exceeds value rule

## JOBSRUNNING

---

JOBSRUNNING store

### Default Store Properties

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 2 Hours     |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 12:00:00 |

### Related information

[#unique\\_156](#)

## LOCKS

---

LOCKS store

### Default Store Properties

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 120 Seconds |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

### Related reference

[Active Locks](#) on page 19

Locks

[LOCKS](#) on page 170

Locks

## LOGDEVIO

---

LOGDEVIO store

### Default Store Properties

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 300 Seconds |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 01:00:00 |

### Related reference

[MSSQL\\_LOGDEVIO\\_IOSPERSEC](#) on page 50

Log Dev IO rate > value rule

[MSSQL\\_LOGDEVIO\\_USEDPERCENT](#) on page 50

Log Dev % space usage > value rule

**Related information**[#unique\\_72](#)

## MEMORY

---

MEMORY store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 300 Seconds |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 01:00:00 |

**Related reference**[MSSQL\\_MEMORY\\_AVAILBYTES](#) on page 63

System Memory Avail &lt; value rule

[MSSQL\\_MEMORY\\_PAGESPERSEC](#) on page 63

System Memory Pages/sec &gt; value rule

**Related information**[#unique\\_104](#)

## MEMORYMANAGER

---

MEMORYMANAGER store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 300 Seconds |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 01:00:00 |

**Related reference**

[MSSQL\\_BUFF\\_FREEBUFFERS](#) on page 57

Buffer Mgr Free Buffers < value rule

**Related information**

[#unique\\_98](#)

## PERFMON

---

PERFMON store

**Default Store Properties**

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 300 Seconds |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 01:00:00 |

**Related reference**

[MSSQL\\_SYSTEM\\_PROCQUEUELEN](#) on page 68

Processor Queue Len exceeds value rule

[MSSQL\\_SYSTEM\\_PROCTIME\\_ALERT](#) on page 69

%Total Proc Time exceeds value (Alert) rule

[MSSQL\\_SYSTEM\\_PROCTIME\\_WARN](#) on page 69

%Total Proc Time exceeds value (warn) rule

**Related information**

[#unique\\_108](#)

## PROCESS

---

PROCESS store

**Default Store Properties**

|                           |             |
|---------------------------|-------------|
| <b>Refresh</b>            | 120 Seconds |
| <b>Enabled</b>            | No          |
| <b>Overdue Timeout</b>    | 1 Minutes   |
| <b>Partition Interval</b> | 1 Days      |
| <b>Partitions</b>         | 7           |
| <b>Filter</b>             |             |

|                               |             |
|-------------------------------|-------------|
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 00:30:00 |

#### Related reference

[Processes](#) on page 13

Processes

[PROCESS](#) on page 172

Processes

[MSSQL\\_PROCESS\\_BLOCKED\\_TIME](#) on page 64

Seconds Blocked exceeds value rule

[MSSQL\\_PROCESS\\_CPU\\_PERCENT](#) on page 65

Process CPU % exceeds value rule

[MSSQL\\_PROCESS\\_CPUSECS](#) on page 65

Process CPU secs exceeds value rule

[MSSQL\\_PROCESS\\_DECEASED\\_SPID](#) on page 66

Record Deceased SPIDs rule

[MSSQL\\_PROCESS\\_NEW\\_SPID](#) on page 67

Record New SPIDs rule

[MSSQL\\_PROCESS\\_PHYSIO\\_RATE](#) on page 67

Physical IO rate exceeds value rule

[MSSQL\\_PROCESS\\_STATUS](#) on page 68

Process status like value rule

## SP\_CONFIGURE

---

SP\_CONFIGURE store

#### Default Store Properties

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 1 Days      |
| <b>Enabled</b>                | No          |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 10 00:00:00 |

#### Related reference

[System Settings](#) on page 34

SQL Server settings, or parameters

[SP\\_CONFIGURE](#) on page 174

SQL Server settings, or parameters

## TEMPDB\_IO

---

TEMPDB\_IO store

### Default Store Properties

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 120 Seconds |
| <b>Enabled</b>                | Yes         |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 01:00:00 |

### Related information

[#unique\\_131](#)

## TEMPDB\_STORAGE

---

TEMPDB\_STORAGE store

### Default Store Properties

|                               |             |
|-------------------------------|-------------|
| <b>Refresh</b>                | 120 Seconds |
| <b>Enabled</b>                | Yes         |
| <b>Overdue Timeout</b>        | 1 Minutes   |
| <b>Partition Interval</b>     | 1 Days      |
| <b>Partitions</b>             | 7           |
| <b>Filter</b>                 |             |
| <b>Export</b>                 | No          |
| <b>Export Start</b>           | immediate   |
| <b>Export Repeat Interval</b> | 00 01:00:00 |

### Related information

[#unique\\_133](#)



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# Chapter

# 6

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## Collections By Category

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Topics:

- [SQL](#)
- [Storage](#)
- [Other](#)



## SQL

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### BLOCKTREE

Blocked processes

#### Comments

When a process must wait to acquire a lock, it is a *waiter*. The other process that already has the lock (and is causing the waiter to wait) is a *blocker*.

This collection contains rows for both the blocker processes and the waiter processes in the database. If the row is a blocker process, then BLOCKERSPID = 0. If the row is a waiter process, then the BLOCKER column has information about its immediate blocker.

Waiters being blocked by a blocker can themselves also block other waiters, potentially forming a *blocktree* involving many processes. Thus, a row can be a waiter and a blocker, in some cases (and can involve different locks).

#### ROWID

(spid)

#### Columns

| Name         | Data Type  | Description                                                         |
|--------------|------------|---------------------------------------------------------------------|
| spid         | long       | Session ID                                                          |
| kpid         | long       | Thread ID                                                           |
| blocker      | long       | Blocker session process ID (SPID); 0 = the row is a blocker process |
| time_blocked | long       | Duration of time blocked, in seconds                                |
| username     | string(32) | Login name                                                          |

#### Requirements

**Attributes:** None

**Minimum database version:** 8.0

#### Related reference

[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 22

Blocktrees of processes, including blockers and waiters

[BLOCKTREE](#) on page 108

BLOCKTREE store

[MSSQL\\_BLOCKTREE\\_WAITER](#) on page 38

Waiter has been blocked over time thresholds rule

### DMV\_CURRENTSHOWPLAN

SQL plans for current executing statements

**ROWID**

(session\_id, request\_id, seqno)

**Columns**

| Name       | Data Type    | Description                                                     |
|------------|--------------|-----------------------------------------------------------------|
| session_id | long         | Session ID                                                      |
| request_id | long         | Request ID                                                      |
| sqlid      | string(36)   | SQL ID; created by Surveillance (based on SQL handle)           |
| planid     | string(20)   | SQL plan ID; created by Surveillance (based on SQL plan handle) |
| seqno      | double       | Sequence # of XML text fragment                                 |
| query_plan | string(1024) | XML text fragment of SQL plan                                   |

**Requirements****Attributes:** DMV**Minimum database version:** 10.0**Related reference**[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 22

Blocktrees of processes, including blockers and waiters

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV\\_CURRENTSHOWPLAN](#) on page 108

DMV\_CURRENTSHOWPLAN store

**DMV\_CURRENTSQLTEXT**

SQL text of current executing statements

**ROWID**

(session\_id, request\_id, seqno)

**Columns**

| Name       | Data Type   | Description                                           |
|------------|-------------|-------------------------------------------------------|
| session_id | long        | Session ID                                            |
| request_id | long        | Request ID                                            |
| sqlid      | string(36)  | SQL ID; created by Surveillance (based on SQL handle) |
| seqno      | double      | Sequence # of text fragment                           |
| sql_text   | string(260) | SQL text fragment                                     |

## Requirements

**Attributes:** DMV  
**Minimum database version:** 9.0.3042

## Related reference

[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 22

Blocktrees of processes, including blockers and waiters

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV\\_CURRENTSQLTEXT](#) on page 109

DMV\_CURRENTSQLTEXT store

## DMV\_CURRENTSTMT

Current executing statements

## ROWID

(session\_id, request\_id, start\_time)

## Columns

| Name                 | Data Type    | Description                                                           |
|----------------------|--------------|-----------------------------------------------------------------------|
| session_id           | long         | Session ID                                                            |
| request_id           | long         | Request ID                                                            |
| sqlid                | string(36)   | SQL ID; created by Surveillance (based on SQL handle)                 |
| planid               | string(20)   | SQL plan ID; created by Surveillance (based on SQL plan handle)       |
| login_name           | string(260)  | Login name                                                            |
| program_name         | string(260)  | Name of client program                                                |
| db_name              | string(260)  | Database name                                                         |
| start_time           | time         | Start time of the statement                                           |
| elapsed_time_ms      | long         | Elapsed time, in milliseconds                                         |
| cpu_time_ms          | long         | CPU time, in milliseconds                                             |
| physical_reads       | double       | Number of physical reads                                              |
| logical_reads        | double       | Number of logical reads                                               |
| cache_miss_pct       | double       | Data cache miss %, or how often logical reads required physical reads |
| physical_writes      | double       | Number of physical writes                                             |
| sql_text             | string(1028) | SQL text preview                                                      |
| MERGESTATUS          | long         | Internal-use merge status; created by Surveillance                    |
| PHYSICAL_READS_DELTA | double       | Delta number of physical reads                                        |

| Name                  | Data Type | Description                                               |
|-----------------------|-----------|-----------------------------------------------------------|
| PHYSICAL_READS_TOTAL  | double    | Total number of physical reads, since collection started  |
| LOGICAL_READS_DELTA   | double    | Delta number of logical reads                             |
| LOGICAL_READS_TOTAL   | double    | Total number of logical reads, since collection started   |
| PHYSICAL_WRITES_DELTA | double    | Delta number of physical writes                           |
| PHYSICAL_WRITES_TOTAL | double    | Total number of physical writes, since collection started |
| CPUTIMEMS_DELTA       | double    | CPU time delta, in milliseconds                           |
| ELAPSEDTIMEMS_DELTA   | double    | Elapsed time delta, in milliseconds                       |

## Requirements

**Attributes:** DMV

**Minimum database version:** 9.0

## Related reference

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV\\_CURRENTSTMT](#) on page 109

DMV\_CURRENTSTMT store

[MSSQL\\_STMT\\_LONGRUNNING](#) on page 40

Statement running for time > value (seconds) rule

## Storage

---

## DBUSAGE

Database space usage

## Comments

Log file space metrics are shown under an artificial *LOG* filegroup for each database.

## ROWID

(db\_name)

## Columns

| Name        | Data Type   | Description                                                                                              |
|-------------|-------------|----------------------------------------------------------------------------------------------------------|
| database_id | long        | Database ID                                                                                              |
| db_name     | string(260) | Database name                                                                                            |
| status      | string(124) | Database state, including (but not limited to):<br>ONLINE<br>RESTORING<br>RECOVERING<br>RECOVERY_PENDING |

| Name                      | Data Type  | Description                                                                                      |
|---------------------------|------------|--------------------------------------------------------------------------------------------------|
|                           |            | SUSPECT<br>EMERGENCY<br>OFFLINE<br>COPYING<br>OFFLINE_SECONDARY                                  |
| user_access               | string(36) | User access setting (MULTI_USER, RESTRICTED_USER, SINGLE_USER)                                   |
| log_reuse_wait            | string(68) | Reuse of transaction log space is waiting on this, as of last checkpoint, if applicable          |
| is_read_only              | string(4)  | Whether database is marked read-only                                                             |
| snapshot_count            | long       | Number of database snapshots that have this database as the source                               |
| is_snapshot               | string(4)  | Whether this is a database snapshot                                                              |
| snapshot_source_db_id     | long       | Source database, if this is a database snapshot                                                  |
| mirroring_role            | string(36) | Mirror role of this database (MIRROR, PRINCIPAL), if applicable                                  |
| is_auto_shrink            | string(4)  | Whether auto shrink is enabled on the database; this is often problematic                        |
| is_auto_close             | string(4)  | Whether auto close is enabled on the database                                                    |
| create_date               | time       | Time when the database was created or renamed; tempdb is recreated on each startup               |
| data_used_pct             | double     | % of total usable space (database + OS) that is used by (data) filegroups in the database        |
| data_filegroup_count      | long       | Number of (data) filegroups in the database (excludes log files)                                 |
| data_file_count           | long       | Total number of files over all (data) filegroups in the database                                 |
| data_notonline_file_count | long       | Total number of files that are not online, over all (data) filegroups in the database            |
| data_readonly_file_count  | long       | Total number of files that are marked read-only, over all (data) filegroups in the database      |
| data_suspect_file_count   | long       | Total number of files with suspect pages, over all (data) filegroups in the database             |
| data_suspect_pages        | long       | Number of suspect pages in the database                                                          |
| data_has_storage          | string(4)  | Whether an extent has been allocated yet in every file in every (data) filegroup in the database |
| data_is_sparse            | string(4)  | Whether any file in any (data) filegroup of the database is a sparse file (i.e. for snapshots)   |
| data_used_space           | double     | Amount of space used by (data) filegroups in the database, in bytes                              |

| Name                 | Data Type | Description                                                                                                                                                                                                                                                                                                              |
|----------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| data_max_free_space  | double    | Maximum unused space, in bytes, in total over all OS volumes holding files from (data) filegroups in the database                                                                                                                                                                                                        |
| data_min_free_space  | double    | Minimum unused space, in bytes, in total over all OS volumes holding files from (data) filegroups in the database                                                                                                                                                                                                        |
| data_max_total_space | double    | Maximum allocatable size for the database, in bytes, in total over all OS volumes holding files from (data) filegroups in the database                                                                                                                                                                                   |
| data_min_total_space | double    | Minimum allocatable size for the database, in bytes, in total over all OS volumes holding files from (data) filegroups in the database                                                                                                                                                                                   |
| data_db_used         | double    | Amount of space (database) used by (data) filegroups in the database, in bytes                                                                                                                                                                                                                                           |
| data_db_free         | double    | Unused space (database) for (data) filegroups in the database, in bytes                                                                                                                                                                                                                                                  |
| data_db_unusable     | double    | Amount of unusable space (database) for (data) filegroups in the database, in bytes                                                                                                                                                                                                                                      |
| data_db_total        | double    | Total allocated size (database) over all (data) filegroups in the database, in bytes                                                                                                                                                                                                                                     |
| data_os_used         | double    | Amount of space (OS) used by (data) filegroups in the database, in bytes                                                                                                                                                                                                                                                 |
| data_max_os_free     | double    | Maximum unused space (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database; if OS free space is too small for next (grown) file extent for a file, then that will be shown under <i>os_unusable</i> , and the value considered here, for that file on that volume, will be 0 |
| data_min_os_free     | double    | Minimum unused space (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database; if OS free space is too small for next (grown) file extent for a file, then that will be shown under <i>os_unusable</i> , and the value considered here, for that file on that volume, will be 0 |
| data_max_os_unusable | double    | Maximum amount of unusable space (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database; for example, OS free space that is too small for next (grown) file extent                                                                                                            |
| data_min_os_unusable | double    | Minimum amount of unusable space (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database; for example, OS free space that is too small for next (grown) file extent                                                                                                            |
| data_max_os_total    | double    | Maximum allocatable size (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database                                                                                                                                                                                               |

| Name                     | Data Type | Description                                                                                                                                                                                                                                                                            |
|--------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| data_min_os_total        | double    | Minimum allocatable size (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database                                                                                                                                                             |
| data_is_growth_unlimited | string(4) | Whether any file in any (data) filegroup in the database has growth unlimited                                                                                                                                                                                                          |
| data_max_size            | double    | Total maximum size, in bytes, imposed on the database over all data files; 0 = On all data files, no growth allowed or unlimited growth (subject to OS space); the meaning of this value will be ambiguous if the database has a mix of unlimited growth and limited growth data files |
| data_db_used_pct         | double    | % of total usable space (database) that is used by (data) filegroups in the database                                                                                                                                                                                                   |
| log_used_pct             | double    | % of total usable space (database + OS) that is used by the log files in the database                                                                                                                                                                                                  |
| log_file_count           | long      | Total number of log files in the database                                                                                                                                                                                                                                              |
| log_notonline_file_count | long      | Total number of log files in the database that are not online                                                                                                                                                                                                                          |
| log_readonly_file_count  | long      | Total number of log files in the database that are marked read-only                                                                                                                                                                                                                    |
| log_used_space           | double    | Amount of space used by log files in the database, in bytes                                                                                                                                                                                                                            |
| log_max_free_space       | double    | Maximum unused space, in bytes, in total over all OS volumes holding log files in the database                                                                                                                                                                                         |
| log_min_free_space       | double    | Minimum unused space, in bytes, in total over all OS volumes holding log files in the database                                                                                                                                                                                         |
| log_max_total_space      | double    | Maximum allocatable size for the database, in bytes, in total over all OS volumes holding log files in the database                                                                                                                                                                    |
| log_min_total_space      | double    | Minimum allocatable size for the database, in bytes, in total over all OS volumes holding log files in the database                                                                                                                                                                    |
| log_db_used              | double    | Amount of space (database) used by log files in the database, in bytes                                                                                                                                                                                                                 |
| log_db_free              | double    | Unused space (database) for log files in the database, in bytes                                                                                                                                                                                                                        |
| log_db_unusable          | double    | Amount of unusable space (database) for log files in the database, in bytes                                                                                                                                                                                                            |
| log_db_total             | double    | Total allocated size (database) for log files in the database, in bytes                                                                                                                                                                                                                |
| log_os_used              | double    | Amount of space (OS) used by log files in the database, in bytes                                                                                                                                                                                                                       |
| log_max_os_free          | double    | Maximum unused space (OS), in bytes, in total over all OS volumes holding log files in the database; if OS free                                                                                                                                                                        |

| Name                    | Data Type | Description                                                                                                                                                                                                                                                                                           |
|-------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         |           | space is too small for next (grown) file extent for a file, then that will be shown under <i>os_unusable</i> , and the value considered here, for that file on that volume, will be 0                                                                                                                 |
| log_min_os_free         | double    | Minimum unused space (OS), in bytes, in total over all OS volumes holding log files in the database; if OS free space is too small for next (grown) file extent for a file, then that will be shown under <i>os_unusable</i> , and the value considered here, for that file on that volume, will be 0 |
| log_max_os_unusable     | double    | Maximum amount of unusable space (OS), in bytes, in total over all OS volumes holding log files in the database; for example, OS free space that is too small for next (grown) file extent                                                                                                            |
| log_min_os_unusable     | double    | Minimum amount of unusable space (OS), in bytes, in total over all OS volumes holding log files in the database; for example, OS free space that is too small for next (grown) file extent                                                                                                            |
| log_max_os_total        | double    | Maximum allocatable size (OS), in bytes, in total over all OS volumes holding log files in the database                                                                                                                                                                                               |
| log_min_os_total        | double    | Minimum allocatable size (OS), in bytes, in total over all OS volumes holding log files in the database                                                                                                                                                                                               |
| log_is_growth_unlimited | string(4) | Whether any log file in the database has growth unlimited                                                                                                                                                                                                                                             |
| log_max_size            | double    | Total maximum size, in bytes, imposed on the database over all log files; 0 = On all log files, no growth allowed or unlimited growth (subject to OS space); the meaning of this value will be ambiguous if the database has a mix of unlimited growth and limited growth log files                   |
| log_db_used_pct         | double    | % of total usable space (database) that is used by log files in the database                                                                                                                                                                                                                          |
| MERGESTATUS             | long      | Internal-use merge status; created by Surveillance                                                                                                                                                                                                                                                    |
| DATA_DB_USED_RATE       | double    | Additional amount of space (database), in bytes, used by (data) filegroups in the database per second, in interval                                                                                                                                                                                    |
| DATA_DB_USED_RATE_AVG   | double    | Average additional amount of space (database), in bytes, used by (data) filegroups in the database per second, since collection started                                                                                                                                                               |
| DATA_DB_USED_MB         | double    | Amount of space (database) used by (data) filegroups in the database, in megabytes                                                                                                                                                                                                                    |
| DATA_OS_USED_MB         | double    | Amount of space (OS) used by (data) filegroups in the database, in megabytes                                                                                                                                                                                                                          |
| DATA_MAX_FREE_MB        | double    | Maximum unused space, in megabytes, in total over all OS volumes holding files from (data) filegroups in the database                                                                                                                                                                                 |
| DATA_DB_USED_DELTA      | double    | Delta amount of space (database) used by (data) filegroups in the database, in bytes                                                                                                                                                                                                                  |

| Name                   | Data Type | Description                                                                                                                     |
|------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------|
| DATA_DB_USED_DELTA_AVG | double    | Average of delta amount of space (database), in bytes, used by (data) filegroups in the database, since collection started      |
| LOG_DB_USED_RATE       | double    | Additional amount of space (database), in bytes, used by log files in the database per second, in interval                      |
| LOG_DB_USED_RATE_AVG   | double    | Average additional amount of space (database), in bytes, used by log files in the database per second, since collection started |
| LOG_DB_USED_MB         | double    | Amount of space (database) used by log files in the database, in megabytes                                                      |
| LOG_OS_USED_MB         | double    | Amount of space (OS) used by log files in the database, in megabytes                                                            |
| LOG_MAX_FREE_MB        | double    | Maximum unused space, in megabytes, in total over all OS volumes holding log files in the database                              |
| LOG_DB_USED_DELTA      | double    | Delta amount of space (database) used by log files in the database, in bytes                                                    |
| LOG_DB_USED_DELTA_AVG  | double    | Average of delta amount of space (database), in bytes, used by log files in the database, since collection started              |

## Requirements

**Attributes:** None

**Minimum database version:** 9.0

## Related reference

[Database Space Usage](#) on page 26

Database space usage

[DBUSAGE](#) on page 111

DBUSAGE store

[MSSQL\\_DBUSAGE\\_AUTOSHRINK\\_ON](#) on page 40

Database has auto-shrink enabled, which is often problematic rule

[MSSQL\\_DBUSAGE\\_DATABASE\\_OFFLINE](#) on page 41

Database is in an offline, emergency, or other such critical state rule

[MSSQL\\_DBUSAGE\\_DATABASE\\_RECOVERY](#) on page 42

Database is in a restoring / recovery state rule

[MSSQL\\_DBUSAGE\\_MULTIPLE\\_LOGFILES](#) on page 42

Database has multiple log files, which can be less than optimal rule

[MSSQL\\_DBUSAGE\\_OFFLINE\\_FILES](#) on page 43

Database is online, but has offline files rule

[MSSQL\\_DBUSAGE\\_SUSPECT\\_PAGES](#) on page 43

Database contains suspect pages rule

## FGUSAGE

Filegroup space usage

## Comments

Log file space metrics are shown under an artificial *LOG* filegroup for each database.

## ROWID

(db\_name, fg\_name)

## Columns

| Name                 | Data Type   | Description                                                                                                                                                                                                                                                                                |
|----------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| database_id          | long        | Database ID                                                                                                                                                                                                                                                                                |
| filegroup_id         | long        | Filegroup ID; 0 = Log files                                                                                                                                                                                                                                                                |
| db_name              | string(260) | Database name                                                                                                                                                                                                                                                                              |
| fg_name              | string(260) | Filegroup name; LOG = Log files                                                                                                                                                                                                                                                            |
| file_count           | long        | Number of files in the filegroup                                                                                                                                                                                                                                                           |
| notonline_file_count | long        | Number of files in the filegroup that are not online                                                                                                                                                                                                                                       |
| readonly_file_count  | long        | Number of files in the filegroup that are marked read-only                                                                                                                                                                                                                                 |
| suspect_file_count   | long        | Number of files in the filegroup that have suspect pages                                                                                                                                                                                                                                   |
| suspect_pages        | long        | Number of suspect pages in the filegroup                                                                                                                                                                                                                                                   |
| has_storage          | string(8)   | Whether an extent has been allocated yet in every file                                                                                                                                                                                                                                     |
| status               | string(124) | Filegroup status (ONLINE, SUSPECT, UNAVAILABLE)                                                                                                                                                                                                                                            |
| used_pct             | double      | % of total usable space (database + OS) that is used                                                                                                                                                                                                                                       |
| is_sparse            | string(8)   | Whether any file in the filegroup is a sparse file (i.e. for snapshots)                                                                                                                                                                                                                    |
| used_space           | double      | Amount of space used in the filegroup, in bytes                                                                                                                                                                                                                                            |
| free_space           | double      | Total unused space, in bytes, over all OS volumes holding files from this filegroup                                                                                                                                                                                                        |
| db_used              | double      | Amount of space (database) used in the filegroup, in bytes                                                                                                                                                                                                                                 |
| db_free              | double      | Unused space (database), in bytes                                                                                                                                                                                                                                                          |
| db_unusable          | double      | Amount of unusable space (database), in bytes                                                                                                                                                                                                                                              |
| db_total             | double      | Total allocated size (database) for the filegroup, in bytes                                                                                                                                                                                                                                |
| os_used              | double      | Amount of space (OS) used in the filegroup, in bytes                                                                                                                                                                                                                                       |
| os_free              | double      | Total unused space (OS), in bytes, over all OS volumes holding files from this filegroup; if OS free space is too small for next (grown) file extent for a file, then that will be shown under <i>os_unusable</i> , and the value considered here, for that file on that volume, will be 0 |
| os_unusable          | double      | Total amount of unusable space (OS), in bytes, over all OS volumes holding files from this filegroup; for                                                                                                                                                                                  |

| Name                | Data Type | Description                                                                                                                                                                                                                                                             |
|---------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |           | example, OS free space that is too small for next (grown) file extent                                                                                                                                                                                                   |
| os_total            | double    | Total allocatable size (OS) for the filegroup, in bytes, over all OS volumes holding files from this filegroup                                                                                                                                                          |
| is_growth_unlimited | string(8) | Whether any file in the filegroup has growth unlimited                                                                                                                                                                                                                  |
| max_size            | double    | Total maximum size, in bytes, imposed on the filegroup over all files; 0 = On all files, no growth allowed or unlimited growth (subject to OS space); the meaning of this value will be ambiguous if a filegroup has a mix of unlimited growth and limited growth files |
| db_used_pct         | double    | % of total usable space (database) that is used                                                                                                                                                                                                                         |
| total_space         | double    | Total allocatable size for the filegroup, in bytes, over all OS volumes holding files from this filegroup                                                                                                                                                               |
| MERGESTATUS         | long      | Internal-use merge status; created by Surveillance                                                                                                                                                                                                                      |
| DB_USED_RATE        | double    | Additional amount of space (database), in bytes, used in the filegroup per second, in interval                                                                                                                                                                          |
| DB_USED_RATE_AVG    | double    | Average additional amount of space (database), in bytes, used in the filegroup per second, since collection started                                                                                                                                                     |
| DB_USED_MB          | double    | Amount of space (database) used in the filegroup, in megabytes                                                                                                                                                                                                          |
| OS_USED_MB          | double    | Amount of space (OS) used in the filegroup, in megabytes                                                                                                                                                                                                                |
| FREE_MB             | double    | Total unused space, in megabytes, over all OS volumes holding files from this filegroup                                                                                                                                                                                 |
| DB_USED_DELTA       | double    | Delta amount of space (database) used in the filegroup, in bytes                                                                                                                                                                                                        |
| DB_USED_DELTA_AVG   | double    | Average of delta amount of space (database), in bytes, used in the filegroup, since collection started                                                                                                                                                                  |

## Requirements

**Attributes:** None

**Minimum database version:** 9.0

## Related reference

[Database Space Usage](#) on page 26

Database space usage

[Filegroup Usage](#) on page 31

Filegroup space usage

[FGUSAGE](#) on page 113

FGUSAGE store

[MSSQL\\_FGUSAGE\\_DATA\\_CRITICAL](#) on page 44

Filegroup usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_DATA\\_INFO](#) on page 45

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_DATA\\_WARNING](#) on page 45

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_LOG\\_CRITICAL](#) on page 46

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_LOG\\_INFO](#) on page 47

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_LOG\\_WARNING](#) on page 47

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

## FILEUSAGE

File space usage

### ROWID

(db\_name, logical\_name)

### Columns

| Name          | Data Type   | Description                                                                                                                                                                                                                                                                                      |
|---------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| database_id   | long        | Database ID                                                                                                                                                                                                                                                                                      |
| file_id       | long        | File ID                                                                                                                                                                                                                                                                                          |
| filegroup_id  | long        | Filegroup ID; 0 = Log file                                                                                                                                                                                                                                                                       |
| db_name       | string(260) | Database name                                                                                                                                                                                                                                                                                    |
| logical_name  | string(260) | Logical name of file                                                                                                                                                                                                                                                                             |
| fg_name       | string(260) | Filegroup name; LOG = Log file                                                                                                                                                                                                                                                                   |
| suspect_pages | long        | Number of suspect pages; sourced from <i>msdb..suspect_pages</i>                                                                                                                                                                                                                                 |
| has_storage   | string(4)   | Whether an extent has been allocated yet                                                                                                                                                                                                                                                         |
| status        | string(124) | File state, including (but not limited to):<br><br>ONLINE<br>RESTORING<br>RECOVERING<br>RECOVERY_PENDING<br>SUSPECT<br>OFFLINE<br>DEFUNCT<br>DB ONLINE<br>DB RESTORING<br>DB RECOVERING<br>DB RECOVERY_PENDING<br>DB SUSPECT<br>DB EMERGENCY<br>DB OFFLINE<br>DB COPYING<br>DB OFFLINE_SECONDARY |

| Name                | Data Type   | Description                                                                                                                                                          |
|---------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |             | UNAVAILABLE                                                                                                                                                          |
| used_pct            | double      | % of total usable space (database + OS) that is used                                                                                                                 |
| is_sparse           | string(4)   | Whether this is a sparse file (i.e. for snapshots)                                                                                                                   |
| is_read_only        | string(4)   | Whether the file is marked read-only                                                                                                                                 |
| used_space          | double      | Amount of space used in the file, in bytes                                                                                                                           |
| free_space          | double      | Unused space, in bytes                                                                                                                                               |
| total_space         | double      | Total allocatable size for the file, in bytes                                                                                                                        |
| db_used             | double      | Amount of space (database) used in the file, in bytes                                                                                                                |
| db_free             | double      | Unused space (database), in bytes                                                                                                                                    |
| db_unusable         | double      | Amount of unusable space (database), in bytes                                                                                                                        |
| db_total            | double      | Total allocated size (database) for the file, in bytes                                                                                                               |
| os_used             | double      | Amount of space (OS) used in the file, in bytes                                                                                                                      |
| os_free             | double      | Unused space (OS), in bytes; if OS free space is too small for next (grown) file extent, then that will be shown under <i>os_unusable</i> , and this value will be 0 |
| os_unusable         | double      | Amount of unusable space (OS), in bytes; for example, OS free space that is too small for next (grown) file extent                                                   |
| os_total            | double      | Total allocatable size (OS) for the file, in bytes                                                                                                                   |
| is_growth_unlimited | string(4)   | Whether growth is unlimited (subject to OS space) for the file                                                                                                       |
| os_pct_growth       | long        | % growth applied to new file extents, at the OS level; 0 = Not percentage-based growth                                                                               |
| os_growth           | double      | Absolute growth applied to new file extents, at the OS level, in bytes; 0 = Percentage-based growth                                                                  |
| os_next_allocation  | double      | Absolute size, in bytes, of next (grown) file extent allocation at OS level; calculated by Surveillance using many factors                                           |
| max_size            | double      | Maximum size, in bytes, imposed on the file; 0 = No growth allowed, -1 = Unlimited growth (subject to OS space)                                                      |
| db_used_pct         | double      | % of total usable space (database) that is used                                                                                                                      |
| physical_name       | string(524) | Physical name (path) of the file                                                                                                                                     |
| MERGESTATUS         | long        | Internal-use merge status; created by Surveillance                                                                                                                   |
| DB_USED_RATE        | double      | Additional amount of space (database), in bytes, used in the file per second, in interval                                                                            |
| DB_USED_RATE_AVG    | double      | Average additional amount of space (database), in bytes, used in the file per second, since collection started                                                       |

| Name              | Data Type | Description                                                                                                                    |
|-------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------|
| DB_USED_MB        | double    | Amount of space (database) used in the file, in megabytes                                                                      |
| OS_USED_MB        | double    | Amount of space (OS) used in the file, in megabytes                                                                            |
| FREE_MB           | double    | Unused space, in megabytes                                                                                                     |
| DB_USED_DELTA     | double    | Delta amount of space (database) used in the file, in bytes                                                                    |
| DB_USED_DELTA_AVG | double    | Average of delta amount of space (database), in bytes, used in the file, since collection started                              |
| OS_FREE_MB        | double    | Unused space (OS), in megabytes; see <i>os_free</i> for more information                                                       |
| OS_NEXT_ALLOC_MB  | double    | Absolute size, in megabytes, of next (grown) file extent allocation at OS level; calculated by Surveillance using many factors |

## Requirements

**Attributes:** None

**Minimum database version:** 9.0

## Related reference

[Database Space Usage](#) on page 26

Database space usage

[Filegroup Usage](#) on page 31

Filegroup space usage

[FILEUSAGE](#) on page 114

FILEUSAGE store

[MSSQL\\_FILEUSAGE\\_SPACEBOUNDALLOC](#) on page 48

Next file OS allocation exceeds OS free space rule

## Other

---

## DMV\_SESSIONSUM\_BYDB

Session summary by database

## ROWID

(db\_name)

## Columns

| Name                 | Data Type   | Description                                    |
|----------------------|-------------|------------------------------------------------|
| db_name              | string(260) | Database name                                  |
| session_count        | long        | Number of sessions                             |
| active_session_count | long        | Number of sessions in the <i>running</i> state |

| Name                | Data Type | Description                                            |
|---------------------|-----------|--------------------------------------------------------|
| xact_count          | long      | Number of open transactions over all sessions          |
| inactive_xact_count | long      | Number of open transactions over all inactive sessions |
| memory_bytes        | double    | Memory usage, in bytes, over all sessions              |

### Requirements

**Attributes:** DMV

**Minimum database version:** 11.0

### Related reference

[Processes](#) on page 13

Processes

## DMV\_SESSIONSUM\_BYLOGIN

Session summary by login name

### ROWID

(login\_name)

### Columns

| Name                 | Data Type   | Description                                            |
|----------------------|-------------|--------------------------------------------------------|
| login_name           | string(260) | Login name                                             |
| session_count        | long        | Number of sessions                                     |
| active_session_count | long        | Number of sessions in the <i>running</i> state         |
| xact_count           | long        | Number of open transactions over all sessions          |
| inactive_xact_count  | long        | Number of open transactions over all inactive sessions |
| memory_bytes         | double      | Memory usage, in bytes, over all sessions              |

### Requirements

**Attributes:** DMV

**Minimum database version:** 11.0

### Related reference

[Processes](#) on page 13

Processes

## GLOBALSTATS

Global statistics

### ROWID

(metricname)

## Columns

| Name              | Data Type  | Description                                               |
|-------------------|------------|-----------------------------------------------------------|
| metricid          | long       | Metric ID; ID < 100 = displayable metric                  |
| metricname        | string(36) | Metric name                                               |
| dvalue            | double     |                                                           |
| countertype       | long       | Internal counter type:<br><b>TBD</b><br>TBD               |
| hrperftime        | double     |                                                           |
| hrperffreq        | double     |                                                           |
| hrperftime100nsec | double     |                                                           |
| perftime          | double     |                                                           |
| perffreq          | double     |                                                           |
| MERGESTATUS       | long       | Internal-use merge status; created by Surveillance        |
| CURRENT           | double     | Current metric value, based on metric type                |
| AVG               | double     | Average of current metric value, since collection started |
| MAX               | double     | Maximum current metric value, since collection started    |

## Requirements

**Attributes:** None

**Minimum database version:** 7.0

## Related reference

[Global](#) on page 12

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[MSSQL\\_GLOB\\_BATCH\\_REQS](#) on page 38

Batch requests/sec exceeds value rule

[MSSQL\\_GLOB\\_BLOCKED](#) on page 39

Blocked Process count exceeds value rule

[MSSQL\\_GLOB\\_LOCKS](#) on page 58

Lock count exceeds value rule

[MSSQL\\_GLOB\\_PROCESSES](#) on page 59

Process count exceeds value rule

[MSSQL\\_GLOB\\_RUNNING\\_JOBS](#) on page 59

Running job count exceeds value rule

[MSSQL\\_GLOB\\_SQLSVR\\_CPU](#) on page 60

SQLServer CPU % exceeds value rule

[MSSQL\\_GLOB\\_SQLSVR\\_CPU\\_OVERALL](#) on page 61

SQLServer CPU % (overall) exceeds value rule

[MSSQL\\_GLOB\\_SQLSVR\\_DISKIO](#) on page 49

SQLSvr Disk IO/sec exceeds value rule

[MSSQL\\_GLOB\\_SQLSVR\\_MEM\\_MB](#) on page 61

SQLServer Memory(MB) exceeds value rule

[MSSQL\\_GLOB\\_TOTAL\\_CPU](#) on page 62

Total CPU % exceeded value rule

[MSSQL\\_GLOB\\_TOTAL\\_DISKIO](#) on page 49

Total Disk IO/sec exceeds value rule

## LOCKS

Locks

### Comments

Only the first 10,000 locks per session ID are selected, and overall, only the first 30,000 rows are returned.

### ROWID

None

### Columns

| Name   | Data Type   | Description                                                                                                                                                                                                                                                                    |
|--------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| spid   | long        | Session ID                                                                                                                                                                                                                                                                     |
| dbname | string(124) | Database name                                                                                                                                                                                                                                                                  |
| object | string(84)  | Object name                                                                                                                                                                                                                                                                    |
| objid  | long        | Object ID                                                                                                                                                                                                                                                                      |
| indid  | long        | Index ID                                                                                                                                                                                                                                                                       |
| type   | string(24)  | Resource type, including (but not limited to):<br><br><b>APP</b><br>Application<br><b>AU</b><br>Allocation Unit<br><b>DB</b><br>Database<br><b>EXT</b><br>Extent<br><b>FIL</b><br>File<br><b>HBT</b><br>HOBt<br><b>KEY</b><br>Key (i.e. unique index)<br><b>MD</b><br>Metadata |

| Name     | Data Type  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |            | <b>PAG</b><br>Page<br><b>RID</b><br>Row ID<br><b>TAB</b><br>Table                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| resource | string(64) | Description of lock resource; for RID type, this is %%lockres%% on the table row                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| mode     | string(24) | Lock request mode, including (not not limited to):<br><b>BU</b><br>Bulk operation<br><b>IS</b><br>Intent Shared<br><b>IU</b><br>Intent Update<br><b>IX</b><br>Intent Exclusive<br><b>RangeIn-Null</b><br>Insert Key-Range + Null<br><b>RangeIn-S</b><br>Key-Range Conversion, RangeIn-Null + S<br><b>RangeIn-U</b><br>Key-Range Conversion, RangeIn-Null + U<br><b>RangeIn-X</b><br>Key-Range Conversion, RangeIn-Null + X<br><b>RangeS-S</b><br>Shared Key-Range + Shared<br><b>RangeS-U</b><br>Shared Key-Range + Update<br><b>RangeX-S</b><br>Key-Range Conversion, RangeIn-Null + RangeS-S<br><b>RangeX-U</b><br>Key-Range Conversion, RangeIn-Null + RangeS-U<br><b>RangeX-X</b><br>Exclusive Key-Range + Exclusive<br><b>S</b><br>Shared<br><b>Sch-M</b><br>Schema modification |

| Name     | Data Type  | Description                                                                                                                                                                                             |
|----------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |            | <b>Sch-S</b><br>Schema stability<br><b>SIU</b><br>Shared Intent Update<br><b>SIX</b><br>Shared Intent Exclusive<br><b>U</b><br>Update<br><b>UIX</b><br>Update Intent Exclusive<br><b>X</b><br>Exclusive |
| status   | string(24) | Request status, including (but not limited to):<br><b>CNVT</b><br>Converting (waiting)<br><b>GRANT</b><br>Granted<br><b>WAIT</b><br>Waiting                                                             |
| username | string(64) | Login name                                                                                                                                                                                              |

## Requirements

**Attributes:** None

**Minimum database version:** 9.0

## Related reference

[Active Locks](#) on page 19

Locks

[LOCKS](#) on page 124

LOCKS store

## PROCESS

Processes

## ROWID

(spid, login\_time, login\_time\_ms)

## Columns

| Name     | Data Type | Description               |
|----------|-----------|---------------------------|
| cputicks | long      | CPU time, in milliseconds |

| Name              | Data Type   | Description                                                                                                 |
|-------------------|-------------|-------------------------------------------------------------------------------------------------------------|
| cpusecs           | double      | CPU time, in seconds                                                                                        |
| physical_io       | double      | Number of physical I/O operations (disk reads + writes)                                                     |
| memusage          | long        | Memory usage, in pages (pagesize is 8 KB)                                                                   |
| spid              | long        | Session ID                                                                                                  |
| loginame          | string(516) | Login name                                                                                                  |
| status            | string(124) | Status:<br><br>dormant<br>running<br>background<br>rollback<br>pending<br>runnable<br>spinloop<br>suspended |
| blkby             | long        | Blocker session ID, if applicable; may be negative in special circumstances                                 |
| time_blocked      | double      | Duration of time blocked, in milliseconds                                                                   |
| dbname            | string(260) | Database name                                                                                               |
| cmd               | string(68)  | General command type being executed                                                                         |
| program_name      | string(516) | Application name                                                                                            |
| hostname          | string(516) | Client host name                                                                                            |
| hostprocess       | string(36)  | Client OS PID                                                                                               |
| kpid              | long        | Thread ID                                                                                                   |
| waitstatus        | string(132) | if blocked: Blocked by <spid>; if not blocked: <status> or <lastwaittype>                                   |
| waittimesecs      | double      | Duration of time waiting, in seconds                                                                        |
| lastwaittype      | string(132) | Current or last wait event name                                                                             |
| waitresource      | string(260) | Text description of the wait resource; for example, a description of the RID that is locked                 |
| login_time        | time        | Time of login, with second resolution                                                                       |
| login_time_ms     | long        | Millisecond component of login time                                                                         |
| logintime         | string(36)  | Text description of login time                                                                              |
| logintimesecs     | long        | Duration of time connected, in seconds                                                                      |
| lastbatchtime     | string(36)  | Text description of last batch statement time                                                               |
| lastbatchtimesecs | long        | Duration of time since last batch statement, in seconds                                                     |
| open_tran         | long        | Number of open transactions                                                                                 |
| nt_domain         | string(68)  | Windows domain of the client                                                                                |

| Name             | Data Type  | Description                                                                    |
|------------------|------------|--------------------------------------------------------------------------------|
| nt_username      | string(68) | Windows user name of the client                                                |
| MERGESTATUS      | long       | Internal-use merge status; created by Surveillance                             |
| CPUPCT           | double     | CPU % Used (1 CPU), in interval                                                |
| CPUPCT_AVG       | double     | Average CPU % Used (1 CPU), since collection started                           |
| CPUPCT_MAX       | double     | Maximum CPU % Used (1 CPU), since collection started                           |
| PHYSICAL_IO_RATE | double     | Number of physical I/O operations per second, in interval                      |
| PHYS_IO_RATE_AVG | double     | Average number of physical I/O operations per second, since collection started |
| PHYS_IO_RATE_MAX | double     | Maximum number of physical I/O operations per second, since collection started |

## Requirements

**Attributes:** None

**Minimum database version:** 8.0

## Related reference

[Processes](#) on page 13

Processes

[PROCESS](#) on page 126

PROCESS store

[MSSQL\\_PROCESS\\_BLOCKED\\_TIME](#) on page 64

Seconds Blocked exceeds value rule

[MSSQL\\_PROCESS\\_CPU\\_PERCENT](#) on page 65

Process CPU % exceeds value rule

[MSSQL\\_PROCESS\\_CPUSECS](#) on page 65

Process CPU secs exceeds value rule

[MSSQL\\_PROCESS\\_DECEASED\\_SPID](#) on page 66

Record Deceased SPIDs rule

[MSSQL\\_PROCESS\\_NEW\\_SPID](#) on page 67

Record New SPIDs rule

[MSSQL\\_PROCESS\\_PHYSIO\\_RATE](#) on page 67

Physical IO rate exceeds value rule

[MSSQL\\_PROCESS\\_STATUS](#) on page 68

Process status like value rule

## SP\_CONFIGURE

SQL Server settings, or parameters

## ROWID

(name)

## Columns

| Name           | Data Type  | Description                                                   |
|----------------|------------|---------------------------------------------------------------|
| name           | string(72) | Configuration option name                                     |
| minimum        | long       | Minimum value for the configuration option                    |
| maximum        | long       | Maximum value for the configuration option                    |
| config_value   | long       | Configured value for the configuration option                 |
| run_value      | long       | Current runtime value for the configuration option            |
| MERGESTATUS    | long       | Internal-use merge status; created by Surveillance            |
| STARTUP_DELTA  | double     | Difference between the runtime value and the configured value |
| INTERVAL_DELTA | double     | Delta runtime value for the configuration option              |

## Requirements

**Attributes:** None

**Minimum database version:** 7.0

## Related reference

[System Settings](#) on page 34

SQL Server settings, or parameters

[SP\\_CONFIGURE](#) on page 127

SP\_CONFIGURE store



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# Chapter

# 7

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## Collections

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### Topics:

- [BLOCKTREE](#)
- [DBUSAGE](#)
- [DMV\\_CURRENTSHOWPLAN](#)
- [DMV\\_CURRENTSQLTEXT](#)
- [DMV\\_CURRENTSTMT](#)
- [DMV\\_SESSIONSUM\\_BYDB](#)
- [DMV\\_SESSIONSUM\\_BYLOGIN](#)
- [FGUSAGE](#)
- [FILEUSAGE](#)
- [GLOBALSTATS](#)
- [LOCKS](#)
- [PROCESS](#)
- [SP\\_CONFIGURE](#)

## BLOCKTREE

---

Blocked processes

### Comments

When a process must wait to acquire a lock, it is a *waiter*. The other process that already has the lock (and is causing the waiter to wait) is a *blocker*.

This collection contains rows for both the blocker processes and the waiter processes in the database. If the row is a blocker process, then BLOCKERSPID = 0. If the row is a waiter process, then the BLOCKER column has information about its immediate blocker.

Waiters being blocked by a blocker can themselves also block other waiters, potentially forming a *blocktree* involving many processes. Thus, a row can be a waiter and a blocker, in some cases (and can involve different locks).

### ROWID

(spid)

### Columns

| Name         | Data Type  | Description                                                         |
|--------------|------------|---------------------------------------------------------------------|
| spid         | long       | Session ID                                                          |
| kpid         | long       | Thread ID                                                           |
| blocker      | long       | Blocker session process ID (SPID); 0 = the row is a blocker process |
| time_blocked | long       | Duration of time blocked, in seconds                                |
| username     | string(32) | Login name                                                          |

### Requirements

**Attributes:** None

**Minimum database version:** 8.0

### Related reference

[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 22

Blocktrees of processes, including blockers and waiters

[BLOCKTREE](#) on page 108

BLOCKTREE store

[MSSQL\\_BLOCKTREE\\_WAITER](#) on page 38

Waiter has been blocked over time thresholds rule

## DBUSAGE

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Database space usage

## Comments

Log file space metrics are shown under an artificial *LOG* filegroup for each database.

## ROWID

(db\_name)

## Columns

| Name                  | Data Type   | Description                                                                                                                                                                     |
|-----------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| database_id           | long        | Database ID                                                                                                                                                                     |
| db_name               | string(260) | Database name                                                                                                                                                                   |
| status                | string(124) | Database state, including (but not limited to):<br><br>ONLINE<br>RESTORING<br>RECOVERING<br>RECOVERY_PENDING<br>SUSPECT<br>EMERGENCY<br>OFFLINE<br>COPYING<br>OFFLINE_SECONDARY |
| user_access           | string(36)  | User access setting (MULTI_USER, RESTRICTED_USER, SINGLE_USER)                                                                                                                  |
| log_reuse_wait        | string(68)  | Reuse of transaction log space is waiting on this, as of last checkpoint, if applicable                                                                                         |
| is_read_only          | string(4)   | Whether database is marked read-only                                                                                                                                            |
| snapshot_count        | long        | Number of database snapshots that have this database as the source                                                                                                              |
| is_snapshot           | string(4)   | Whether this is a database snapshot                                                                                                                                             |
| snapshot_source_db_id | long        | Source database, if this is a database snapshot                                                                                                                                 |
| mirroring_role        | string(36)  | Mirror role of this database (MIRROR, PRINCIPAL), if applicable                                                                                                                 |
| is_auto_shrink        | string(4)   | Whether auto shrink is enabled on the database; this is often problematic                                                                                                       |
| is_auto_close         | string(4)   | Whether auto close is enabled on the database                                                                                                                                   |
| create_date           | time        | Time when the database was created or renamed; tempdb is recreated on each startup                                                                                              |
| data_used_pct         | double      | % of total usable space (database + OS) that is used by (data) filegroups in the database                                                                                       |
| data_filegroup_count  | long        | Number of (data) filegroups in the database (excludes log files)                                                                                                                |
| data_file_count       | long        | Total number of files over all (data) filegroups in the database                                                                                                                |

| Name                      | Data Type | Description                                                                                                                                                                                                                                                                                                              |
|---------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| data_notonline_file_count | long      | Total number of files that are not online, over all (data) filegroups in the database                                                                                                                                                                                                                                    |
| data_readonly_file_count  | long      | Total number of files that are marked read-only, over all (data) filegroups in the database                                                                                                                                                                                                                              |
| data_suspect_file_count   | long      | Total number of files with suspect pages, over all (data) filegroups in the database                                                                                                                                                                                                                                     |
| data_suspect_pages        | long      | Number of suspect pages in the database                                                                                                                                                                                                                                                                                  |
| data_has_storage          | string(4) | Whether an extent has been allocated yet in every file in every (data) filegroup in the database                                                                                                                                                                                                                         |
| data_is_sparse            | string(4) | Whether any file in any (data) filegroup of the database is a sparse file (i.e. for snapshots)                                                                                                                                                                                                                           |
| data_used_space           | double    | Amount of space used by (data) filegroups in the database, in bytes                                                                                                                                                                                                                                                      |
| data_max_free_space       | double    | Maximum unused space, in bytes, in total over all OS volumes holding files from (data) filegroups in the database                                                                                                                                                                                                        |
| data_min_free_space       | double    | Minimum unused space, in bytes, in total over all OS volumes holding files from (data) filegroups in the database                                                                                                                                                                                                        |
| data_max_total_space      | double    | Maximum allocatable size for the database, in bytes, in total over all OS volumes holding files from (data) filegroups in the database                                                                                                                                                                                   |
| data_min_total_space      | double    | Minimum allocatable size for the database, in bytes, in total over all OS volumes holding files from (data) filegroups in the database                                                                                                                                                                                   |
| data_db_used              | double    | Amount of space (database) used by (data) filegroups in the database, in bytes                                                                                                                                                                                                                                           |
| data_db_free              | double    | Unused space (database) for (data) filegroups in the database, in bytes                                                                                                                                                                                                                                                  |
| data_db_unusable          | double    | Amount of unusable space (database) for (data) filegroups in the database, in bytes                                                                                                                                                                                                                                      |
| data_db_total             | double    | Total allocated size (database) over all (data) filegroups in the database, in bytes                                                                                                                                                                                                                                     |
| data_os_used              | double    | Amount of space (OS) used by (data) filegroups in the database, in bytes                                                                                                                                                                                                                                                 |
| data_max_os_free          | double    | Maximum unused space (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database; if OS free space is too small for next (grown) file extent for a file, then that will be shown under <i>os_unusable</i> , and the value considered here, for that file on that volume, will be 0 |
| data_min_os_free          | double    | Minimum unused space (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database; if OS free space is too small for next                                                                                                                                                           |

| Name                     | Data Type | Description                                                                                                                                                                                                                                                                            |
|--------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |           | (grown) file extent for a file, then that will be shown under <i>os_unusable</i> , and the value considered here, for that file on that volume, will be 0                                                                                                                              |
| data_max_os_unusable     | double    | Maximum amount of unusable space (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database; for example, OS free space that is too small for next (grown) file extent                                                                          |
| data_min_os_unusable     | double    | Minimum amount of unusable space (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database; for example, OS free space that is too small for next (grown) file extent                                                                          |
| data_max_os_total        | double    | Maximum allocatable size (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database                                                                                                                                                             |
| data_min_os_total        | double    | Minimum allocatable size (OS), in bytes, in total over all OS volumes holding files from (data) filegroups in the database                                                                                                                                                             |
| data_is_growth_unlimited | string(4) | Whether any file in any (data) filegroup in the database has growth unlimited                                                                                                                                                                                                          |
| data_max_size            | double    | Total maximum size, in bytes, imposed on the database over all data files; 0 = On all data files, no growth allowed or unlimited growth (subject to OS space); the meaning of this value will be ambiguous if the database has a mix of unlimited growth and limited growth data files |
| data_db_used_pct         | double    | % of total usable space (database) that is used by (data) filegroups in the database                                                                                                                                                                                                   |
| log_used_pct             | double    | % of total usable space (database + OS) that is used by the log files in the database                                                                                                                                                                                                  |
| log_file_count           | long      | Total number of log files in the database                                                                                                                                                                                                                                              |
| log_notonline_file_count | long      | Total number of log files in the database that are not online                                                                                                                                                                                                                          |
| log_readonly_file_count  | long      | Total number of log files in the database that are marked read-only                                                                                                                                                                                                                    |
| log_used_space           | double    | Amount of space used by log files in the database, in bytes                                                                                                                                                                                                                            |
| log_max_free_space       | double    | Maximum unused space, in bytes, in total over all OS volumes holding log files in the database                                                                                                                                                                                         |
| log_min_free_space       | double    | Minimum unused space, in bytes, in total over all OS volumes holding log files in the database                                                                                                                                                                                         |
| log_max_total_space      | double    | Maximum allocatable size for the database, in bytes, in total over all OS volumes holding log files in the database                                                                                                                                                                    |

| Name                    | Data Type | Description                                                                                                                                                                                                                                                                                           |
|-------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| log_min_total_space     | double    | Minimum allocatable size for the database, in bytes, in total over all OS volumes holding log files in the database                                                                                                                                                                                   |
| log_db_used             | double    | Amount of space (database) used by log files in the database, in bytes                                                                                                                                                                                                                                |
| log_db_free             | double    | Unused space (database) for log files in the database, in bytes                                                                                                                                                                                                                                       |
| log_db_unusable         | double    | Amount of unusable space (database) for log files in the database, in bytes                                                                                                                                                                                                                           |
| log_db_total            | double    | Total allocated size (database) for log files in the database, in bytes                                                                                                                                                                                                                               |
| log_os_used             | double    | Amount of space (OS) used by log files in the database, in bytes                                                                                                                                                                                                                                      |
| log_max_os_free         | double    | Maximum unused space (OS), in bytes, in total over all OS volumes holding log files in the database; if OS free space is too small for next (grown) file extent for a file, then that will be shown under <i>os_unusable</i> , and the value considered here, for that file on that volume, will be 0 |
| log_min_os_free         | double    | Minimum unused space (OS), in bytes, in total over all OS volumes holding log files in the database; if OS free space is too small for next (grown) file extent for a file, then that will be shown under <i>os_unusable</i> , and the value considered here, for that file on that volume, will be 0 |
| log_max_os_unusable     | double    | Maximum amount of unusable space (OS), in bytes, in total over all OS volumes holding log files in the database; for example, OS free space that is too small for next (grown) file extent                                                                                                            |
| log_min_os_unusable     | double    | Minimum amount of unusable space (OS), in bytes, in total over all OS volumes holding log files in the database; for example, OS free space that is too small for next (grown) file extent                                                                                                            |
| log_max_os_total        | double    | Maximum allocatable size (OS), in bytes, in total over all OS volumes holding log files in the database                                                                                                                                                                                               |
| log_min_os_total        | double    | Minimum allocatable size (OS), in bytes, in total over all OS volumes holding log files in the database                                                                                                                                                                                               |
| log_is_growth_unlimited | string(4) | Whether any log file in the database has growth unlimited                                                                                                                                                                                                                                             |
| log_max_size            | double    | Total maximum size, in bytes, imposed on the database over all log files; 0 = On all log files, no growth allowed or unlimited growth (subject to OS space); the meaning of this value will be ambiguous if the database has a mix of unlimited growth and limited growth log files                   |
| log_db_used_pct         | double    | % of total usable space (database) that is used by log files in the database                                                                                                                                                                                                                          |
| MERGESTATUS             | long      | Internal-use merge status; created by Surveillance                                                                                                                                                                                                                                                    |

| Name                   | Data Type | Description                                                                                                                             |
|------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|
| DATA_DB_USED_RATE      | double    | Additional amount of space (database), in bytes, used by (data) filegroups in the database per second, in interval                      |
| DATA_DB_USED_RATE_AVG  | double    | Average additional amount of space (database), in bytes, used by (data) filegroups in the database per second, since collection started |
| DATA_DB_USED_MB        | double    | Amount of space (database) used by (data) filegroups in the database, in megabytes                                                      |
| DATA_OS_USED_MB        | double    | Amount of space (OS) used by (data) filegroups in the database, in megabytes                                                            |
| DATA_MAX_FREE_MB       | double    | Maximum unused space, in megabytes, in total over all OS volumes holding files from (data) filegroups in the database                   |
| DATA_DB_USED_DELTA     | double    | Delta amount of space (database) used by (data) filegroups in the database, in bytes                                                    |
| DATA_DB_USED_DELTA_AVG | double    | Average of delta amount of space (database), in bytes, used by (data) filegroups in the database, since collection started              |
| LOG_DB_USED_RATE       | double    | Additional amount of space (database), in bytes, used by log files in the database per second, in interval                              |
| LOG_DB_USED_RATE_AVG   | double    | Average additional amount of space (database), in bytes, used by log files in the database per second, since collection started         |
| LOG_DB_USED_MB         | double    | Amount of space (database) used by log files in the database, in megabytes                                                              |
| LOG_OS_USED_MB         | double    | Amount of space (OS) used by log files in the database, in megabytes                                                                    |
| LOG_MAX_FREE_MB        | double    | Maximum unused space, in megabytes, in total over all OS volumes holding log files in the database                                      |
| LOG_DB_USED_DELTA      | double    | Delta amount of space (database) used by log files in the database, in bytes                                                            |
| LOG_DB_USED_DELTA_AVG  | double    | Average of delta amount of space (database), in bytes, used by log files in the database, since collection started                      |

## Requirements

**Attributes:** None

**Minimum database version:** 9.0

## Related reference

[Database Space Usage](#) on page 26

Database space usage

[DBUSAGE](#) on page 111

DBUSAGE store

[MSSQL\\_DBUSAGE\\_AUTOSHRINK\\_ON](#) on page 40

Database has auto-shrink enabled, which is often problematic rule

[MSSQL\\_DBUSAGE\\_DATABASE\\_OFFLINE](#) on page 41

Database is in an offline, emergency, or other such critical state rule

[MSSQL\\_DBUSAGE\\_DATABASE\\_RECOVERY](#) on page 42

Database is in a restoring / recovery state rule

[MSSQL\\_DBUSAGE\\_MULTIPLE\\_LOGFILES](#) on page 42

Database has multiple log files, which can be less than optimal rule

[MSSQL\\_DBUSAGE\\_OFFLINE\\_FILES](#) on page 43

Database is online, but has offline files rule

[MSSQL\\_DBUSAGE\\_SUSPECT\\_PAGES](#) on page 43

Database contains suspect pages rule

## DMV\_CURRENTSHOWPLAN

---

SQL plans for current executing statements

### ROWID

(session\_id, request\_id, seqno)

### Columns

| Name       | Data Type    | Description                                                     |
|------------|--------------|-----------------------------------------------------------------|
| session_id | long         | Session ID                                                      |
| request_id | long         | Request ID                                                      |
| sqlid      | string(36)   | SQL ID; created by Surveillance (based on SQL handle)           |
| planid     | string(20)   | SQL plan ID; created by Surveillance (based on SQL plan handle) |
| seqno      | double       | Sequence # of XML text fragment                                 |
| query_plan | string(1024) | XML text fragment of SQL plan                                   |

### Requirements

**Attributes:** DMV

**Minimum database version:** 10.0

### Related reference

[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 22

Blocktrees of processes, including blockers and waiters

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV\\_CURRENTSHOWPLAN](#) on page 108

DMV\_CURRENTSHOWPLAN store

## DMV\_CURRENTSQLTEXT

---

SQL text of current executing statements

### ROWID

(session\_id, request\_id, seqno)

### Columns

| Name       | Data Type   | Description                                           |
|------------|-------------|-------------------------------------------------------|
| session_id | long        | Session ID                                            |
| request_id | long        | Request ID                                            |
| sqlid      | string(36)  | SQL ID; created by Surveillance (based on SQL handle) |
| seqno      | double      | Sequence # of text fragment                           |
| sql_text   | string(260) | SQL text fragment                                     |

### Requirements

**Attributes:** DMV

**Minimum database version:** 9.0.3042

### Related reference

[Processes](#) on page 13

Processes

[Blocked Processes](#) on page 22

Blocktrees of processes, including blockers and waiters

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV\\_CURRENTSQLTEXT](#) on page 109

DMV\_CURRENTSQLTEXT store

## DMV\_CURRENTSTMT

---

Current executing statements

### ROWID

(session\_id, request\_id, start\_time)

### Columns

| Name       | Data Type  | Description                                           |
|------------|------------|-------------------------------------------------------|
| session_id | long       | Session ID                                            |
| request_id | long       | Request ID                                            |
| sqlid      | string(36) | SQL ID; created by Surveillance (based on SQL handle) |

| Name                  | Data Type    | Description                                                           |
|-----------------------|--------------|-----------------------------------------------------------------------|
| planid                | string(20)   | SQL plan ID; created by Surveillance (based on SQL plan handle)       |
| login_name            | string(260)  | Login name                                                            |
| program_name          | string(260)  | Name of client program                                                |
| db_name               | string(260)  | Database name                                                         |
| start_time            | time         | Start time of the statement                                           |
| elapsed_time_ms       | long         | Elapsed time, in milliseconds                                         |
| cpu_time_ms           | long         | CPU time, in milliseconds                                             |
| physical_reads        | double       | Number of physical reads                                              |
| logical_reads         | double       | Number of logical reads                                               |
| cache_miss_pct        | double       | Data cache miss %, or how often logical reads required physical reads |
| physical_writes       | double       | Number of physical writes                                             |
| sql_text              | string(1028) | SQL text preview                                                      |
| MERGESTATUS           | long         | Internal-use merge status; created by Surveillance                    |
| PHYSICAL_READS_DELTA  | double       | Delta number of physical reads                                        |
| PHYSICAL_READS_TOTAL  | double       | Total number of physical reads, since collection started              |
| LOGICAL_READS_DELTA   | double       | Delta number of logical reads                                         |
| LOGICAL_READS_TOTAL   | double       | Total number of logical reads, since collection started               |
| PHYSICAL_WRITES_DELTA | double       | Delta number of physical writes                                       |
| PHYSICAL_WRITES_TOTAL | double       | Total number of physical writes, since collection started             |
| CPUTIMEMS_DELTA       | double       | CPU time delta, in milliseconds                                       |
| ELAPSEDTIMEMS_DELTA   | double       | Elapsed time delta, in milliseconds                                   |

## Requirements

**Attributes:** DMV

**Minimum database version:** 9.0

## Related reference

[Current Executing Stmts](#) on page 23

Current executing statements

[DMV\\_CURRENTSTMT](#) on page 109

DMV\_CURRENTSTMT store

[MSSQL\\_STMT\\_LONGRUNNING](#) on page 40

Statement running for time > value (seconds) rule

## DMV\_SESSIONSUM\_BYDB

Session summary by database

**ROWID**

(db\_name)

**Columns**

| Name                 | Data Type   | Description                                            |
|----------------------|-------------|--------------------------------------------------------|
| db_name              | string(260) | Database name                                          |
| session_count        | long        | Number of sessions                                     |
| active_session_count | long        | Number of sessions in the <i>running</i> state         |
| xact_count           | long        | Number of open transactions over all sessions          |
| inactive_xact_count  | long        | Number of open transactions over all inactive sessions |
| memory_bytes         | double      | Memory usage, in bytes, over all sessions              |

**Requirements****Attributes:** DMV**Minimum database version:** 11.0**Related reference**[Processes](#) on page 13

Processes

**DMV\_SESSIONSUM\_BYLOGIN**

---

Session summary by login name

**ROWID**

(login\_name)

**Columns**

| Name                 | Data Type   | Description                                            |
|----------------------|-------------|--------------------------------------------------------|
| login_name           | string(260) | Login name                                             |
| session_count        | long        | Number of sessions                                     |
| active_session_count | long        | Number of sessions in the <i>running</i> state         |
| xact_count           | long        | Number of open transactions over all sessions          |
| inactive_xact_count  | long        | Number of open transactions over all inactive sessions |
| memory_bytes         | double      | Memory usage, in bytes, over all sessions              |

**Requirements****Attributes:** DMV**Minimum database version:** 11.0

**Related reference**[Processes](#) on page 13

Processes

## FGUSAGE

---

Filegroup space usage

**Comments**Log file space metrics are shown under an artificial *LOG* filegroup for each database.**ROWID**

(db\_name, fg\_name)

**Columns**

| Name                 | Data Type   | Description                                                                         |
|----------------------|-------------|-------------------------------------------------------------------------------------|
| database_id          | long        | Database ID                                                                         |
| filegroup_id         | long        | Filegroup ID; 0 = Log files                                                         |
| db_name              | string(260) | Database name                                                                       |
| fg_name              | string(260) | Filegroup name; LOG = Log files                                                     |
| file_count           | long        | Number of files in the filegroup                                                    |
| notonline_file_count | long        | Number of files in the filegroup that are not online                                |
| readonly_file_count  | long        | Number of files in the filegroup that are marked read-only                          |
| suspect_file_count   | long        | Number of files in the filegroup that have suspect pages                            |
| suspect_pages        | long        | Number of suspect pages in the filegroup                                            |
| has_storage          | string(8)   | Whether an extent has been allocated yet in every file                              |
| status               | string(124) | Filegroup status (ONLINE, SUSPECT, UNAVAILABLE)                                     |
| used_pct             | double      | % of total usable space (database + OS) that is used                                |
| is_sparse            | string(8)   | Whether any file in the filegroup is a sparse file (i.e. for snapshots)             |
| used_space           | double      | Amount of space used in the filegroup, in bytes                                     |
| free_space           | double      | Total unused space, in bytes, over all OS volumes holding files from this filegroup |
| db_used              | double      | Amount of space (database) used in the filegroup, in bytes                          |
| db_free              | double      | Unused space (database), in bytes                                                   |
| db_unusable          | double      | Amount of unusable space (database), in bytes                                       |
| db_total             | double      | Total allocated size (database) for the filegroup, in bytes                         |

| Name                | Data Type | Description                                                                                                                                                                                                                                                                                |
|---------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| os_used             | double    | Amount of space (OS) used in the filegroup, in bytes                                                                                                                                                                                                                                       |
| os_free             | double    | Total unused space (OS), in bytes, over all OS volumes holding files from this filegroup; if OS free space is too small for next (grown) file extent for a file, then that will be shown under <i>os_unusable</i> , and the value considered here, for that file on that volume, will be 0 |
| os_unusable         | double    | Total amount of unusable space (OS), in bytes, over all OS volumes holding files from this filegroup; for example, OS free space that is too small for next (grown) file extent                                                                                                            |
| os_total            | double    | Total allocatable size (OS) for the filegroup, in bytes, over all OS volumes holding files from this filegroup                                                                                                                                                                             |
| is_growth_unlimited | string(8) | Whether any file in the filegroup has growth unlimited                                                                                                                                                                                                                                     |
| max_size            | double    | Total maximum size, in bytes, imposed on the filegroup over all files; 0 = On all files, no growth allowed or unlimited growth (subject to OS space); the meaning of this value will be ambiguous if a filegroup has a mix of unlimited growth and limited growth files                    |
| db_used_pct         | double    | % of total usable space (database) that is used                                                                                                                                                                                                                                            |
| total_space         | double    | Total allocatable size for the filegroup, in bytes, over all OS volumes holding files from this filegroup                                                                                                                                                                                  |
| MERGESTATUS         | long      | Internal-use merge status; created by Surveillance                                                                                                                                                                                                                                         |
| DB_USED_RATE        | double    | Additional amount of space (database), in bytes, used in the filegroup per second, in interval                                                                                                                                                                                             |
| DB_USED_RATE_AVG    | double    | Average additional amount of space (database), in bytes, used in the filegroup per second, since collection started                                                                                                                                                                        |
| DB_USED_MB          | double    | Amount of space (database) used in the filegroup, in megabytes                                                                                                                                                                                                                             |
| OS_USED_MB          | double    | Amount of space (OS) used in the filegroup, in megabytes                                                                                                                                                                                                                                   |
| FREE_MB             | double    | Total unused space, in megabytes, over all OS volumes holding files from this filegroup                                                                                                                                                                                                    |
| DB_USED_DELTA       | double    | Delta amount of space (database) used in the filegroup, in bytes                                                                                                                                                                                                                           |
| DB_USED_DELTA_AVG   | double    | Average of delta amount of space (database), in bytes, used in the filegroup, since collection started                                                                                                                                                                                     |

## Requirements

**Attributes:** None

**Minimum database version:** 9.0

## Related reference

[Database Space Usage](#) on page 26

Database space usage

[Filegroup Usage](#) on page 31

Filegroup space usage

[FGUSAGE](#) on page 113

FGUSAGE store

[MSSQL\\_FGUSAGE\\_DATA\\_CRITICAL](#) on page 44

Filegroup usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_DATA\\_INFO](#) on page 45

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_DATA\\_WARNING](#) on page 45

Filegroup usage > value (percentage full) and if small volume, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_LOG\\_CRITICAL](#) on page 46

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_LOG\\_INFO](#) on page 47

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

[MSSQL\\_FGUSAGE\\_LOG\\_WARNING](#) on page 47

Database log usage > value (percentage full) and if small filegroup, free space < value (MB free) rule

## FILEUSAGE

---

File space usage

### ROWID

(db\_name, logical\_name)

### Columns

| Name          | Data Type   | Description                                                                                                                    |
|---------------|-------------|--------------------------------------------------------------------------------------------------------------------------------|
| database_id   | long        | Database ID                                                                                                                    |
| file_id       | long        | File ID                                                                                                                        |
| filegroup_id  | long        | Filegroup ID; 0 = Log file                                                                                                     |
| db_name       | string(260) | Database name                                                                                                                  |
| logical_name  | string(260) | Logical name of file                                                                                                           |
| fg_name       | string(260) | Filegroup name; LOG = Log file                                                                                                 |
| suspect_pages | long        | Number of suspect pages; sourced from <i>msdb..suspect_pages</i>                                                               |
| has_storage   | string(4)   | Whether an extent has been allocated yet                                                                                       |
| status        | string(124) | File state, including (but not limited to):<br><br>ONLINE<br>RESTORING<br>RECOVERING<br>RECOVERY_PENDING<br>SUSPECT<br>OFFLINE |

| Name                | Data Type | Description                                                                                                                                                                   |
|---------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |           | DEFUNCT<br>DB ONLINE<br>DB RESTORING<br>DB RECOVERING<br>DB RECOVERY_PENDING<br>DB SUSPECT<br>DB EMERGENCY<br>DB OFFLINE<br>DB COPYING<br>DB OFFLINE_SECONDARY<br>UNAVAILABLE |
| used_pct            | double    | % of total usable space (database + OS) that is used                                                                                                                          |
| is_sparse           | string(4) | Whether this is a sparse file (i.e. for snapshots)                                                                                                                            |
| is_read_only        | string(4) | Whether the file is marked read-only                                                                                                                                          |
| used_space          | double    | Amount of space used in the file, in bytes                                                                                                                                    |
| free_space          | double    | Unused space, in bytes                                                                                                                                                        |
| total_space         | double    | Total allocatable size for the file, in bytes                                                                                                                                 |
| db_used             | double    | Amount of space (database) used in the file, in bytes                                                                                                                         |
| db_free             | double    | Unused space (database), in bytes                                                                                                                                             |
| db_unusable         | double    | Amount of unusable space (database), in bytes                                                                                                                                 |
| db_total            | double    | Total allocated size (database) for the file, in bytes                                                                                                                        |
| os_used             | double    | Amount of space (OS) used in the file, in bytes                                                                                                                               |
| os_free             | double    | Unused space (OS), in bytes; if OS free space is too small for next (grown) file extent, then that will be shown under <i>os_unusable</i> , and this value will be 0          |
| os_unusable         | double    | Amount of unusable space (OS), in bytes; for example, OS free space that is too small for next (grown) file extent                                                            |
| os_total            | double    | Total allocatable size (OS) for the file, in bytes                                                                                                                            |
| is_growth_unlimited | string(4) | Whether growth is unlimited (subject to OS space) for the file                                                                                                                |
| os_pct_growth       | long      | % growth applied to new file extents, at the OS level; 0 = Not percentage-based growth                                                                                        |
| os_growth           | double    | Absolute growth applied to new file extents, at the OS level, in bytes; 0 = Percentage-based growth                                                                           |
| os_next_allocation  | double    | Absolute size, in bytes, of next (grown) file extent allocation at OS level; calculated by Surveillance using many factors                                                    |
| max_size            | double    | Maximum size, in bytes, imposed on the file; 0 = No growth allowed, -1 = Unlimited growth (subject to OS space)                                                               |

| Name              | Data Type   | Description                                                                                                                    |
|-------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------|
| db_used_pct       | double      | % of total usable space (database) that is used                                                                                |
| physical_name     | string(524) | Physical name (path) of the file                                                                                               |
| MERGESTATUS       | long        | Internal-use merge status; created by Surveillance                                                                             |
| DB_USED_RATE      | double      | Additional amount of space (database), in bytes, used in the file per second, in interval                                      |
| DB_USED_RATE_AVG  | double      | Average additional amount of space (database), in bytes, used in the file per second, since collection started                 |
| DB_USED_MB        | double      | Amount of space (database) used in the file, in megabytes                                                                      |
| OS_USED_MB        | double      | Amount of space (OS) used in the file, in megabytes                                                                            |
| FREE_MB           | double      | Unused space, in megabytes                                                                                                     |
| DB_USED_DELTA     | double      | Delta amount of space (database) used in the file, in bytes                                                                    |
| DB_USED_DELTA_AVG | double      | Average of delta amount of space (database), in bytes, used in the file, since collection started                              |
| OS_FREE_MB        | double      | Unused space (OS), in megabytes; see <i>os_free</i> for more information                                                       |
| OS_NEXT_ALLOC_MB  | double      | Absolute size, in megabytes, of next (grown) file extent allocation at OS level; calculated by Surveillance using many factors |

## Requirements

**Attributes:** None

**Minimum database version:** 9.0

## Related reference

[Database Space Usage](#) on page 26

Database space usage

[Filegroup Usage](#) on page 31

Filegroup space usage

[FILEUSAGE](#) on page 114

FILEUSAGE store

[MSSQL\\_FILEUSAGE\\_SPACEBOUNDALLOC](#) on page 48

Next file OS allocation exceeds OS free space rule

## GLOBALSTATS

Global statistics

### ROWID

(metricname)

## Columns

| Name              | Data Type  | Description                                               |
|-------------------|------------|-----------------------------------------------------------|
| metricid          | long       | Metric ID; ID < 100 = displayable metric                  |
| metricname        | string(36) | Metric name                                               |
| dvalue            | double     |                                                           |
| countertype       | long       | Internal counter type:<br><b>TBD</b><br>TBD               |
| hrperftime        | double     |                                                           |
| hrperffreq        | double     |                                                           |
| hrperftime100nsec | double     |                                                           |
| perftime          | double     |                                                           |
| perffreq          | double     |                                                           |
| MERGESTATUS       | long       | Internal-use merge status; created by Surveillance        |
| CURRENT           | double     | Current metric value, based on metric type                |
| AVG               | double     | Average of current metric value, since collection started |
| MAX               | double     | Maximum current metric value, since collection started    |

## Requirements

**Attributes:** None

**Minimum database version:** 7.0

## Related reference

[Global](#) on page 12

Global statistics

[GLOBALSTATS](#) on page 123

GLOBALSTATS store

[MSSQL\\_GLOB\\_BATCH\\_REQS](#) on page 38

Batch requests/sec exceeds value rule

[MSSQL\\_GLOB\\_BLOCKED](#) on page 39

Blocked Process count exceeds value rule

[MSSQL\\_GLOB\\_LOCKS](#) on page 58

Lock count exceeds value rule

[MSSQL\\_GLOB\\_PROCESSES](#) on page 59

Process count exceeds value rule

[MSSQL\\_GLOB\\_RUNNING\\_JOBS](#) on page 59

Running job count exceeds value rule

[MSSQL\\_GLOB\\_SQLSVR\\_CPU](#) on page 60

SQLServer CPU % exceeds value rule

[MSSQL\\_GLOB\\_SQLSVR\\_CPU\\_OVERALL](#) on page 61

SQLServer CPU % (overall) exceeds value rule

[MSSQL\\_GLOB\\_SQLSVR\\_DISKIO](#) on page 49

SQLSvr Disk IO/sec exceeds value rule

[MSSQL\\_GLOB\\_SQLSVR\\_MEM\\_MB](#) on page 61

SQLServer Memory(MB) exceeds value rule

[MSSQL\\_GLOB\\_TOTAL\\_CPU](#) on page 62

Total CPU % exceeded value rule

[MSSQL\\_GLOB\\_TOTAL\\_DISKIO](#) on page 49

Total Disk IO/sec exceeds value rule

## LOCKS

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Locks

### Comments

Only the first 10,000 locks per session ID are selected, and overall, only the first 30,000 rows are returned.

### ROWID

None

### Columns

| Name   | Data Type   | Description                                                                                                                                                                                                                                                        |
|--------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| spid   | long        | Session ID                                                                                                                                                                                                                                                         |
| dbname | string(124) | Database name                                                                                                                                                                                                                                                      |
| object | string(84)  | Object name                                                                                                                                                                                                                                                        |
| objid  | long        | Object ID                                                                                                                                                                                                                                                          |
| indid  | long        | Index ID                                                                                                                                                                                                                                                           |
| type   | string(24)  | Resource type, including (but not limited to):<br><br><b>APP</b><br>Application<br><b>AU</b><br>Allocation Unit<br><b>DB</b><br>Database<br><b>EXT</b><br>Extent<br><b>FIL</b><br>File<br><b>HBT</b><br>HOBt<br><b>KEY</b><br>Key (i.e. unique index)<br><b>MD</b> |

| Name     | Data Type  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |            | Metadata<br><b>PAG</b><br>Page<br><b>RID</b><br>Row ID<br><b>TAB</b><br>Table                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| resource | string(64) | Description of lock resource; for RID type, this is %%lockres%% on the table row                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| mode     | string(24) | Lock request mode, including (not not limited to):<br><b>BU</b><br>Bulk operation<br><b>IS</b><br>Intent Shared<br><b>IU</b><br>Intent Update<br><b>IX</b><br>Intent Exclusive<br><b>RangeIn-Null</b><br>Insert Key-Range + Null<br><b>RangeIn-S</b><br>Key-Range Conversion, RangeIn-Null + S<br><b>RangeIn-U</b><br>Key-Range Conversion, RangeIn-Null + U<br><b>RangeIn-X</b><br>Key-Range Conversion, RangeIn-Null + X<br><b>RangeS-S</b><br>Shared Key-Range + Shared<br><b>RangeS-U</b><br>Shared Key-Range + Update<br><b>RangeX-S</b><br>Key-Range Conversion, RangeIn-Null + RangeS-S<br><b>RangeX-U</b><br>Key-Range Conversion, RangeIn-Null + RangeS-U<br><b>RangeX-X</b><br>Exclusive Key-Range + Exclusive<br><b>S</b><br>Shared<br><b>Sch-M</b> |

| Name     | Data Type  | Description                                                                                                                                                                                                                    |
|----------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |            | Schema modification<br><b>Sch-S</b><br>Schema stability<br><b>SIU</b><br>Shared Intent Update<br><b>SIX</b><br>Shared Intent Exclusive<br><b>U</b><br>Update<br><b>UIX</b><br>Update Intent Exclusive<br><b>X</b><br>Exclusive |
| status   | string(24) | Request status, including (but not limited to):<br><b>CNVT</b><br>Converting (waiting)<br><b>GRANT</b><br>Granted<br><b>WAIT</b><br>Waiting                                                                                    |
| username | string(64) | Login name                                                                                                                                                                                                                     |

### Requirements

**Attributes:** None

**Minimum database version:** 9.0

### Related reference

[Active Locks](#) on page 19

Locks

[LOCKS](#) on page 124

LOCKS store

## PROCESS

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Processes

### ROWID

(spid, login\_time, login\_time\_ms)

**Columns**

| Name              | Data Type   | Description                                                                                                 |
|-------------------|-------------|-------------------------------------------------------------------------------------------------------------|
| cputicks          | long        | CPU time, in milliseconds                                                                                   |
| cpusecs           | double      | CPU time, in seconds                                                                                        |
| physical_io       | double      | Number of physical I/O operations (disk reads + writes)                                                     |
| memusage          | long        | Memory usage, in pages (pagesize is 8 KB)                                                                   |
| spid              | long        | Session ID                                                                                                  |
| loginame          | string(516) | Login name                                                                                                  |
| status            | string(124) | Status:<br><br>dormant<br>running<br>background<br>rollback<br>pending<br>runnable<br>spinloop<br>suspended |
| blkby             | long        | Blocker session ID, if applicable; may be negative in special circumstances                                 |
| time_blocked      | double      | Duration of time blocked, in milliseconds                                                                   |
| dbname            | string(260) | Database name                                                                                               |
| cmd               | string(68)  | General command type being executed                                                                         |
| program_name      | string(516) | Application name                                                                                            |
| hostname          | string(516) | Client host name                                                                                            |
| hostprocess       | string(36)  | Client OS PID                                                                                               |
| kpid              | long        | Thread ID                                                                                                   |
| waitstatus        | string(132) | if blocked: Blocked by <spid>; if not blocked: <status> or <lastwaittype>                                   |
| waittimesecs      | double      | Duration of time waiting, in seconds                                                                        |
| lastwaittype      | string(132) | Current or last wait event name                                                                             |
| waitresource      | string(260) | Text description of the wait resource; for example, a description of the RID that is locked                 |
| login_time        | time        | Time of login, with second resolution                                                                       |
| login_time_ms     | long        | Millisecond component of login time                                                                         |
| logintime         | string(36)  | Text description of login time                                                                              |
| logintimesecs     | long        | Duration of time connected, in seconds                                                                      |
| lastbatchtime     | string(36)  | Text description of last batch statement time                                                               |
| lastbatchtimesecs | long        | Duration of time since last batch statement, in seconds                                                     |

| Name             | Data Type  | Description                                                                    |
|------------------|------------|--------------------------------------------------------------------------------|
| open_tran        | long       | Number of open transactions                                                    |
| nt_domain        | string(68) | Windows domain of the client                                                   |
| nt_username      | string(68) | Windows user name of the client                                                |
| MERGESTATUS      | long       | Internal-use merge status; created by Surveillance                             |
| CPUPCT           | double     | CPU % Used (1 CPU), in interval                                                |
| CPUPCT_AVG       | double     | Average CPU % Used (1 CPU), since collection started                           |
| CPUPCT_MAX       | double     | Maximum CPU % Used (1 CPU), since collection started                           |
| PHYSICAL_IO_RATE | double     | Number of physical I/O operations per second, in interval                      |
| PHYS_IO_RATE_AVG | double     | Average number of physical I/O operations per second, since collection started |
| PHYS_IO_RATE_MAX | double     | Maximum number of physical I/O operations per second, since collection started |

### Requirements

**Attributes:** None

**Minimum database version:** 8.0

### Related reference

[Processes](#) on page 13  
Processes

[PROCESS](#) on page 126  
PROCESS store

[MSSQL\\_PROCESS\\_BLOCKED\\_TIME](#) on page 64  
Seconds Blocked exceeds value rule

[MSSQL\\_PROCESS\\_CPU\\_PERCENT](#) on page 65  
Process CPU % exceeds value rule

[MSSQL\\_PROCESS\\_CPUSECS](#) on page 65  
Process CPU secs exceeds value rule

[MSSQL\\_PROCESS\\_DECEASED\\_SPID](#) on page 66  
Record Deceased SPIDs rule

[MSSQL\\_PROCESS\\_NEW\\_SPID](#) on page 67  
Record New SPIDs rule

[MSSQL\\_PROCESS\\_PHYSIO\\_RATE](#) on page 67  
Physical IO rate exceeds value rule

[MSSQL\\_PROCESS\\_STATUS](#) on page 68  
Process status like value rule

## SP\_CONFIGURE

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SQL Server settings, or parameters

**ROWID**

(name)

**Columns**

| Name           | Data Type  | Description                                                   |
|----------------|------------|---------------------------------------------------------------|
| name           | string(72) | Configuration option name                                     |
| minimum        | long       | Minimum value for the configuration option                    |
| maximum        | long       | Maximum value for the configuration option                    |
| config_value   | long       | Configured value for the configuration option                 |
| run_value      | long       | Current runtime value for the configuration option            |
| MERGESTATUS    | long       | Internal-use merge status; created by Surveillance            |
| STARTUP_DELTA  | double     | Difference between the runtime value and the configured value |
| INTERVAL_DELTA | double     | Delta runtime value for the configuration option              |

**Requirements****Attributes:** None**Minimum database version:** 7.0**Related reference**[System Settings](#) on page 34

SQL Server settings, or parameters

[SP\\_CONFIGURE](#) on page 127

SP\_CONFIGURE store



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# Chapter

# 8

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## Central Repository Schema

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The table name in the Central Repository for a collection is a collector-specific prefix (i.e. OS), followed by an underscore (\_), and then the collection name. For example, the OS collection GLOBALSTATS is exported to the table OS\_GLOBALSTATS.

Column names are prefixed with "C\_". Additional metadata columns are exported, as well: C\_ENTITY\_NAME, C\_SAMPLE\_HOST, C\_SAMPLE\_TIME. A few optional columns may be present to track various archive operations: IS\_PEAK, ARCHIVES\_STATUS.

