

Solutions: Microsoft SQL Server, MySQL, and Oracle

Description: The Longitude SQL Server, MySQL, and Oracle solutions provide comprehensive out-of-the-box monitoring for your database environment. Longitude proactively monitors key performance metrics to ensure that your databases are running optimally and alerts you when there is a problem. Longitude also provides pre-configured, on-demand reports and graphs of key performance metrics to help you proactively take action and ensure maximum availability.

Sample Rules available for Database Monitoring

Rule	Description
SQL Server	
Sql_BufferCacheEfficiencyLow	Reports when the SQL Server data cache hit ratio is low.
Sql_DiskBusyPctHigh	Reports when the disk utilization high.
Sql_LowFreeMemory	Reports when the percent of memory available to be used by SQL Server is low.
Sql_BlockedProcess	Reports when a SQL Server process is blocking another process.
Sql_HighCpuTimeProcesses	Reports when one or more SQL Server processes has used too much CPU time.
Sql_HighDiskWriteTime	Reports when the average time (in seconds) to write data to the disk is too high.
Sql_LockWaitOverThreshold	Reports when the average wait time for locks is too high.
Sqs_JobFailures	Reports on job failures.
Sqs_TooFrequent Queries	Reports when a query is executed too frequently.
Sqs_HighIndexFragmentation	Reports on Indexes with a high percentage of fragmentation.
MySQL	
Msq_LockedProcesses	Reports MySQL locked processes.
Msq_TooManyThreadsConnected	Reports if there are more than a specified number of clients connected.
Msq_Requests	Reports when the number of requests changes dramatically.
Msq_TooManyOpenedTables	Reports if there are more than a specified number of tables opened.
Msq_SelectFullJoin	Reports if there are too many joins performed without using indexes.
Msq_TooManySlowQueries	Reports if there are a large percentage of queries that have taken a long time to create or that are not using indexes.
Msq_LowWriteCache	Reports if the write cache percentage is too low.
Msq_TableSpaceFull	Reports the amount of free space available to tablespaces on the database.

Rule	Description
Oracle	
Ora_DictCacheHitRatio	Reports poor dictionary cache efficiency.
Ora_InstanceStatus	Reports Oracle instances that are down.
Ora_LongQueries	Reports long running queries.
Ora_ConnectionRate	Reports high connection rates.
Ora_DbCacheHitRatio	Reports poor database cache efficiency.
Ora_RedoLogBufferWaits	Reports excessive transactions waiting for a redo log buffer.
Ora_SortsInMemory	Reports database instances with not enough sorts performed in memory.
Ora_TablespaceStatus	Reports the status of tablespaces on the database.

Sample Reports available for Database Monitoring

Report Type	Data Shown
SQL Server	
Lock and Latch Wait	Lock Waits, Non-Page Latch Waits, Page Latch Waits
Longitude Queries	Query elapsed time in milliseconds, Query
Memory Grants	Grants Pending, Grants Outstanding
Oracle	
Cache	Database Cache Hit %/Ratio, Physical Reads, Block Gets, Consistent Gets, Dictionary Cache Hit %, Cache Gets, Cache Misses
Executions	Execution Rate per instance
Instance Space	Free Space, Used Space, Total Space per instance
Long Queries	Units Completed, Elapsed Time, Time Remaining, Message for longest running queries on each computer



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