

SQL Tool Belt

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DFIN Analytics Server

This is the server that controls ALL data collections. When data is pulled (SSIS Jobs) from a monitored server, it is placed into the fact and dimension tables and the SSAS process processes all the data (daily) and builds the analytics cubes. These cubes are then used to feed the reporting/monitoring dashboards (SSRS).

CONTROL JOBS & SCRIPTS

- Presently, all control programs and scheduling scripts are in PowerShell. This allows the Tool Belt to have one set of control programs that run across all versions of SQL Server, and if needed, other DBMS's as well.
- The PULL script is an SSIS job. A table within the Tool Belt Analytics Database (DFINAnalytics.dbo.ActiveServers) contains a list of ALL servers that are being tracked and having their diagnostics data pulled daily. For more detail, please read the SSIS Tool Belt section in this document.
- **NOTE: all the PowerShell jobs are in folder JobsDFIN.**

Scripts

AllInstances.txt	Contains a list of servers, databases, and whether the server/database is an Azure or non-Azure instance. Depending upon whether Azure is involved in the run or not, processes may be slightly different within the control script.
------------------	--

_InstallJobsIntoScheduler.ps1

In order to simplify the creation of the jobs in the Windows Scheduler on the Analytics Server, this script can easily be modified to create all the jobs. Each of these jobs executes a stored procedure on a monitored server and the monitored servers are contained within the file "AllInstances.txt" as explained above.

_ApplyIVP_AllDatabases.ps1

FILE:	_ApplyIVP_AllDatabases.ps1
Purpose:	Manually execute this script and it will update all databases in the control file
Control:	DFINAnalytics\ControlFiles\AllInstances.txt
Executes:	DFINAnalytics\BATCH_FILES\IVP_DFINAnalytics.sql

JOB_UTIL_Monitor_TPS.ps1

FILE: JOB_UTIL_Monitor_TPS.ps1

Purpose: This executes the monitor that tracks the transactions per second that are executing on the target database and what each type of transaction is with respect to CRUD.

Control: DFINAnalytics\ControlFiles\AllInstances.txt

Executes sp_UTIL_TxMonitorIDX
sp_UTIL_TxMonitorTableStats

JOB_UTIL_DefragAllIndexes

FILE: JOB_UTIL_ReorgFragmentedIndexes.ps1

Purpose:

Control:

Executes

JOB_UTIL_ReorgFragmentedIndexes

FILE: JOB_UTIL_ReorgFragmentedIndexes.ps1

Purpose:

Control:

Executes

JOB_CaptureWorstPerfQuery

FILE: JOB_CaptureWorstPerfQuery.ps1

Purpose:

Control:

Executes sp_UTIL_IO_BoundQry2000
sp_UTIL_CPU_BoundQry2000 ;'
UTIL_Process_QrysPlans

JOB_DFS_CleanDFSTables

FILE:

Purpose:

Control:

Executes

JOB_DFS_GetAllTableSizesAndRowCnt

FILE:

Purpose:

Control:

Executes

JOB_DFS_MonitorLocks

FILE:

Purpose:

Control:

Executes

JOB_MonitorWorkload

FILE:

Purpose:

Control:

Executes

JOB_UTIL_DbMon_IndexVolatility

FILE:

Purpose:

Control:

Executes

JOB_UTIL_DFS_DbSize

FILE:

Purpose:

Control:

Executes

JOB_UTIL_GetIndexStats

FILE:

Purpose:

Control:

Executes

JOB_UTIL_MonitorDeadlocks

FILE:

Purpose:

Control:

Executes

JOB_UTIL_QryPlanStats

FILE:

Purpose:

Control:

Executes

JOB_UTIL_TrackSessionWaitStats

FILE:

Purpose:

Control:

Executes

JOB_UTIL_TxMonitorTableStats

FILE:

Purpose:

Control:

Executes

JOB_UTIL_DBSpace

FILE:

Purpose:

Control:

Executes

JOB_UTIL_DBTableSpace

FILE:

Purpose:

Control:

Executes

DFS_CleanDFSTables

This cleans the DFS tables removing all records older than X number of days as supplied in the parms.

SQL: DFINAnalytics\DFS_CleanDFSTables.sql

PROC: DFS_CleanDFSTables

PARMS: @DaysToDelete int = 3

In this setting, all records older than 3 days will be deleted.

JOB: JOB_DFS_CleanDFSTables

_Emergency_StartAllAnalyticsJobs

When this proc is executed, it immediately launches, in parallel, all the Analytics Capture Jobs. This can be done in the case of a hung or deadlocked process and all the currently active process stats are wanted.

SQL: DFINAnalytics_Emergency_StartAllAnalyticsJobs.sql

TBL: NONE

JOB: NONE

JOB_UTIL_DFS_DbSize

Tracks database and file growth.

SQL: DFINAnalytics\UTIL_DatabaseAndFileSize.sql

TBL: [DFS_DbFileSizing]

JOB: JOB_UTIL_DFS_DbSize

Diagnostic Routines

The following is a list of the diagnostic routines that are executed by the Tool Belt and a brief explanation of what each one captures.

UTIL_ADD_DFS_QrysPlans

Processes captured query plans and identifies the worst running and moves the PLAN xml into its own table to eliminate redundant data sotres.

CONTAINS:

- UTIL_Process_QrysPlans
- UTIL_ADD_DFS_QrysPlans
- Table: DFS_CPU_BoundQry

SQL: DFINAnalytics\UTIL_ADD_DFS_QrysPlans.sql

Func_genInsertSql

Due to differences in the returned data/columns from various versions of SQL Server, it is necessary to dynamically insert data into columns based entirely on a returned dataset. This function generates an INSERT statement from one table to another based on the columns in the first table. The second table, the receptor table, must have all columns that can be returned by any version of SQL Server.

USE: `function genInsertSql (@FromTBL NVARCHAR(250) , @IntoTBL NVARCHAR(250))`

SQL: DFINAnalytics\Func_genInsertSql.sql

USAGE:

```
/****** USAGE *****/
/*
IF OBJECT_ID('tempdb..#DFS_IO_BoundQry2000') IS NOT NULL
BEGIN
    DROP TABLE #DFS_IO_BoundQry2000;
END;

SELECT TOP 10 @@SERVERNAME AS SVRName , 'DBNAME' AS DBName , st.text ,
qp.query_plan , qs.* , GETDATE() AS RunDate , @@version AS SSVER , 333 AS RunID ,
NEWID() AS [UID] , o AS processed
INTO [#DFS_IO_BoundQry2000]
FROM sys.dm_exec_query_stats AS qs CROSS APPLY sys.dm_exec_sql_text ( qs.plan_handle
) AS st
CROSS APPLY sys.dm_exec_query_plan ( qs.plan_handle
) AS qp
ORDER BY total_logical_reads DESC;

DECLARE @FromTable NVARCHAR(250) = ;
```

```

DECLARE @IntoTable NVARCHAR(250);

DECLARE @s NVARCHAR(MAX);

set @s = DFINAnalytics.dbo.genInsertSql ('#DFS_IO_BoundQry2000',
'DFINAnalytics.dbo.DFS_IO_BoundQry2000');

PRINT @s;

*/

```

Wait Types

There are many different types of waits and locks tracked by the utilities. Explanations are supplied as part of some of the queries and views within SSD. The table that contains these Wait Type codes and definitions is created using the SQL in:

SQL: DFINAnalytics\create_DFS_WaitTypes_TableAndPopulate.sql

This is included in the IVP.

UTIL_GetSeq

In some versions of SQL Server, the SEQ is not available. The need to generate a unique number across the database still exists. This utility will provide a sequence number for those versions of SQL that do not provide the NEXT SEQ built in function.

SQL: DFINAnalytics\UTIL_GetSeq.sql

This is included in the IVP.

Workload

This is a set of measurements that are gathered at the server level. More importantly, they represent a time domain snapshot of how the server is running and the load imposed across all databases through multiple and specific counters and calculations.

When considering the entire spectrum of a time domain reflective analysis, it can be used to correlate waits, locks, blocks, etc. to workload across the server.

SQL: DFINAnalytics\UTIL_MonitorWorkload.sql

JOB: JOB_MonitorWorkload

DFINAnalytics\Jobs\JOB_MonitorWorkload.sql

This is included in the IVP.

UTIL_TrackSessionWaitStats

Waits occur at the database level. A wait can be caused by any number of reasons and most, if not all, tie back to another action on the server or in the database. As with all data tracked within this system, it is tied directly to a domain of time and will be fed into the Analytics Database so that predictive and trend analysis can be executed. Additionally, a cross correlation of associated factors can be determined and reviewed within the same domain of time.

SQL: DFINAnalytics\UTIL_TrackSessionWaitStats.sql

JOB: JOB_UTIL_TrackSessionWaitStats
DFINAnalytics\Jobs\JOB_UTIL_TrackSessionWaitStats.sql

PROC: sp_UTIL_DFS_WaitStats

PARMS: @MaxWaitMS int – this is the cutoff. Any waits less than the specified number will NOT be recorded.
@RunID INT This number, a SEQ, correlates all of the stats gathered in one execution to a specific RUNID, thus grouping them accordingly if needed.

It is in the IVP.

DMV_SuggestMissingFKIndexes

This is a script not a procedure that can be run to help identify potentially missing foreign key indexes.

It is **not** in the IVP.

DMV_SuggestMissingIndexes

This is a script not a procedure that can be run to help identify potentially missing indexes.

It is **not** in the IVP.

DMV_TableReadsAndWrites

This tracks the cumulative total reads, writes, and updates for each table in each database. Using this in conjunction with other domain based diagnostics, we can determine the heaviest hit tables, their sizes, and how best to partition if needed.

SQL: DFINAnalytics\DMV_TableReadsAndWrites.sql

PROC: sp_UTIL_TrackTblReadsWrites

TBL: DFINAnalytics.dbo.[DFS_TableReadWrites]

VIEW: vTrackTblReadsWrites

UTIL_Monitor_TPS.sql

In the results, you'll have the following columns:

- TableName - The name of the table (the easiest column)
- IndexName - when populated, the name of the index. When it's NULL, it refers to a HEAP - a table without a clustered index IndexID - If this is 0, it's a HEAP (IndexName should also be NULL in these cases). When 1, this refers to a clustered index (meaning that the activity columns still all refer to the table data itself). When 2 or greater, this is a standard non-clustered index.
- User activity (the number of times each type of operation has been performed on the index/table):
- User Seeks - searched for a small number of rows - this is the most efficient index operation.
- User Scans - scanned through the whole index looking for rows that meet the WHERE criteria.
- User Lookups - query used the index to find a row number, then pulled data from the table itself to satisfy the query.
- User Updates - number of times the data in this index/table has been updated. Note that not every table update will update every query - if an update modifies a column that's not part of an index, the table update counter will increment
- , but the index counter will not User activity timestamps - these show the most recent occurrence of each of the four types of "User" events

SQL: DFINAnalytics\UTIL_Monitor_TPS.sql

JOB: JOB_UTIL_Monitor_TPS

PROC: sp_UTIL_TxMonitorTableStats

sp_UTIL_TxMonitorIDX

TBL: DFS_TxMonitorTableStats

DFS_TxMonitorIDX

UTIL_GetAllDBTblStats.sql

Statistics from Dynamic Management Views are cleared out each time the SQL Server restarts (wait and latch statistics can also be cleared out manually). The longer the server has been up, the more reliable the statistics. Place more confidence on statistics that are over 30 days (assumes the tables have been through a month end cycle) and a lot less confidence if they are less than 7 days.

- Table Reads and Writes
- Heap tables out of scope for this query.
- Heaps do not have indexes.
- Only lists tables referenced since the last server restart

- This query uses a cursor to identify all the user databases on the server
- Consolidates individual database results into a table, using a temp table.

SQL: DFINAnalytics\UTIL_GetAllDBTblStats.sql

UTIL_DbMon_IndexVolity

Monitors critical INDEX statistics such as seeks, scans, lookups, updates, etc. across a domain of time. Executes at the database level and for each index in the database.

SQL: DFINAnalytics\UTIL_DbMon_IndexVolity.sql

JOB: JOB_UTIL_DbMon_IndexVolity

Runs every 12 hours.

PROC: sp_UTIL_TxMonitorTableIndexStats

PARMS: RunID

FindBlockingDetail

Tracks blocks across the server at the database level and across a domain of time. This allows us using the TOP WORST QUERIES diagnostic to potentially get the SQL and the PLAN for the blocking SPID.

SQL: DFINAnalytics\FindBlockingDetail.sql

JOB: JOB_DFS_MonitorLocks

PROC: sp_DFS_MonitorLocks

PARMS: RunID

find_Blocking_History

Finds and records blocks caused by an index locking. Runs across each database and each index within the database. Careful, this table can incur large amounts of data quickly. That is why the parameters should be set to control target indexes that exceed the Max limits specified.

SQL: DFINAnalytics\find_Blocking_History.sql

PROC: sp_UTIL_GetIndexStats

Parms: @RunID BIGINT;
 @MaxWaitMS INT= 30;
 @MaxWaitCount INT= 3;

JOB: JOB_UTIL_GetIndexStats

Runs every 20 minutes

UTIL_MonitorDeadlocks

Find and records deadlocks within each database. Saves which SPID was blocking and which ones it blocked. Using the WORST queries data, it may be possible to see what SQL was causing the block.

SQL: DFINAnalytics\UTIL_MonitorDeadlocks.sql
TBL: DFINAnalytics.dbo.DFS_DeadlockStats
JOB: JOB_UTIL_MonitorDeadlocks
DFINAnalytics\Jobs\JOB_UTIL_MonitorDeadlocks.sql

UTIL_WorstPerformingQueries

This diagnostic will scan one server, all servers, and all databases at any specified interval and capture the worst performing queries and store the metrics (stats), query SQL, and the plan of the query (in XML format). The monitored queries are broken into two categories, those worst by IO and those by CPU.

SQL: DFINAnalytics\UTIL_WorstPerformingQueries.sql
TBL: DFINAnalytics.dbo.DFS_DeadlockStats
PROC: sp_UTIL_MSTR_BoundQry2000
sp_UTIL_CPU_BoundQry2000
sp_UTIL_IO_BoundQry2000
UTIL_Process_QrysPlans
JOB: JOB_CaptureWorstPerfQuery
DFINAnalytics\Jobs\JOB_UTIL_WorstPerformingQueries.sql

DFINAnalytics\UTIL_DefragAllIndexes.sql

UTIL_DefragAllIndexes

Any or all databases can have their indexes inspected and reorganized if their fragmentation exceeds the specified cutoff.

SQL: DFINAnalytics\UTIL_DefragAllIndexes.sql
PROC: UTIL_DefragAllIndexes

JOB: JOB_UTIL_DefragAllIndexes

PARMS: @StartingDB NVARCHAR(100): NULL if wanting to start with First DB
@EndingDB NVARCHAR(100), NULL if wanting to process to the END
@MaxPct DECIMAL(6, 2) = 30, Anything with more than 30% fragmentation will be processed
@PreviewOnly INT = 1, 1 will not DEFRAG only display target indexes
@ReorgIndexes INT = 0, 1 will cause tgt indexes to be reorganized offline
@RunID VARCHAR(60) = NULL the supplied RunID for tracking purposes

JOB: JOB_UTIL_DefragAllIndexes

JOB_UTIL_DefragAllIndexes.SQL

NOTE: The following will run the reorg utility against all tables in all databases

```
exec UTIL_DefragAllIndexes null, null, 30, 0, 1, -1;
```

UTIL_ReorgFragmentedIndexes

Use this if you wish to REORG all indexes on all databases on the server.

SQL: DFINAnalytics\UTIL_ReorgFragmentedIndexes.sql

PROC: sp_UTIL_ReorgFragmentedIndexes

JOB: JOB_UTIL_ReorgFragmentedIndexes

DFINAnalytics\Jobs\JOB_UTIL_ReorgFragmentedIndexes.sql

DFS_GetAllTableSizesAndRowCnt

This diagnostic tracks table growth both in record count and size.

SQL: DFINAnalytics\DFS_GetAllTableSizesAndRowCnt.sql

Proc: DFS_GetAllTableSizesAndRowCnt

JOB: JOB_DFS_GetAllTableSizesAndRowCnt

DATA Acquisition from Monitored Servers

SSIS Tool Belt

Operation:

The SSIS data pull packages lives and executes on the Tool Belt Analytics server. The package is executed every 8 hours in order to prevent any significant data buildup on the monitored servers. As the data is successfully pulled from the below tables, the data is removed from the monitored server and placed into the Tool Belt Analytics warehouse.

Pulled Tables:

ActiveServers: Pushed to monitored databases.	DFIN_TRACKED_DATABASE_PROCS	DFIN_TRACKED_DATABASES
DFS_BlockingHistory	DFS_CleanedDFSTables	DFS_CPU_BoundQry
DFS_CPU_BoundQry2000	DFS_DBzSkip: Pushed to monitored databases.	DFS_DbFileSizing
DFS_DBSpace	DFS_DBTableSpace	DFS_DBVersion
DFS_DeadlockStats	DFS_IndexFragErrors	DFS_IndexFragHist
DFS_IndexFragProgress	DFS_IndexFragReorgHistory	DFS_IndexReorgCmds
DFS_IndexStats	DFS_IO_BoundQry	DFS_IO_BoundQry2000
DFS_MissingFKIndexes	DFS_MissingIndexes	DFS_MonitorMostCommonWaits
DFS_ParallelMonitor	DFS_PerfMonitor	DFS_QryOptStats
DFS_QryPlanBridge	DFS_QrysPlans	DFS_RecordCount
DFS_SEQ: Rows removed as this is the table use to get a unique number. They are deleted, not truncated.	DFS_SequenceTABLE	DFS_TableGrowthHistory
DFS_TableReadWrites	DFS_TableSizeAndRowCount	DFS_TableStats
DFS_TempDbMonitor	DFS_TempProcErrors	DFS_TestDBContext
DFS_TranLocks	DFS_TxMonitorIDX	DFS_TxMonitorTableIndexStats
DFS_TxMonitorTableStats	DFS_TxMonitorTblUpdates	DFS_WaitStats
DFS_WaitTypes: Pushed to monitored databases.	DFS_Workload	SequenceTABLE: Rows removed as this is the table use to get a unique number. They are deleted, not truncated.

Diagnostic Routines

DVM_IdentifyQueriesCandidatesForOptimization

The below CTE provides information about the number of executions, total run time, and pages read from memory. The results can be used to identify queries that may be candidates for optimization.

Note: The results of this query can vary depending on the version of SQL Server.

SQL: DVM_IdentifyQueriesCandidatesForOptimization.sql

Proc: UTIL_QryPlanStats

TABLE: DFS_QryOptStats

JOB: JOB_UTIL_QryPlanStats

DFINAnalytics\DBMON_TxMonitorTableStats.sql

DBMON_TxMonitorTableStats

In the results, you'll have the following columns:

- 1) TableName - The name of the table (the easiest column)
- 2) IndexName - when populated, the name of the index. When it's NULL, it refers to a HEAP - a table without a clustered index
- 3) IndexID - If this is 0, it's a HEAP (IndexName should also be NULL in these cases).
 - a) When 1, this refers to a clustered index (meaning that the activity columns
 - b) still all refer to the table data itself). When 2 or greater, this is a standard
 - c) non-clustered index.
- 4) User activity (the number of times each type of operation has been performed)
 - a) on the index/table):
- 5) User Seeks - searched for a small number of rows - this is the most efficient
 - a) index operation.
- 6) User Scans - scanned through the whole index looking for rows that meet the WHERE criteria.
- 7) User Lookups - query used the index to find a row number, then pulled data from the table itself to satisfy the query.
- 8) User Updates - number of times the data in this index/table has been updated.

- a) Note that not every table update will update every query - if an update
- b) modifies a column that's not part of an index, the table update counter
- c) will increment , but the index counter will not User activity timestamps
- 9) these show the most recent occurrence of each of the four types of "User" events

SQL: DFINAnalytics\DBMON_TxMonitorTableStats.sql

Proc: DBMON_TxMonitorTableStats

TABLE: DFINAnalytics.dbo.DFS_TxMonitorTableStats

JOB: JOB_DBMON_TxMonitorTableStats

Note: Runs once per day at midnight

CreateTempProc.sql

This procedure will take an existing procedure, modify it, and build it to run in TempDB – overcomes the loss of the hidden functionality of placing a proc in the Master DB with a prefix of “sp_” and having it run from any database. The procedure returns a 1 if successful. Anything other than a 1 indicates failure.

CONTAINS:

- UTIL_RemoveCommentsFromCode
- Table: DFS_TempProcErrors
- UTIL_GetErrorInfo
- _CreateTempProc

SQL: DFINAnalytics_CreateTempProc.sql

GetProcDependencies.sql

When generating existing procedures to run in TempDB from a primary database, it is necessary to know of any other called procedures. This procedure builds a list of those dependencies.

USE: exec _GetProcDependencies 'UTIL_Process_QrysPlans'

SQL: DFINAnalytics_GetProcDependencies.sql

VIEW: vProcDependencies

IVP – Installation Verification Procedure

This is the installation Verification Procedure. It is a set of CMD Line programs that builds the complete set of executables (SQL CMDS) required to install the DFIN Analytics Database, all procedures, create all tables, and set up all needed tracking jobs. Each of the “merged files” may contain multiple scripts that create procedures, functions, tables, etc.

NOTE: The IVP build is order specific in that tables and procs are dependent upon the existence of each other in a specific way.

CMD FILES: Build_Client_DFINAnalytics_IVP.bat

AddSeparator.bat

LOCATION: DFINAnalytics\BATCH_FILES

Generated File: IVP_DFINAnalytics.sql

Merged Files:

- IvpFile=DFINAnalytics\Batch_Files\IVP_DFINAnalytics.sql"
- DFINAnalytics_CreateAllDfinTables.sql
- DFINAnalytics\UTIL_ADD_DFS_QrysPlans.sql
- FQN: DFINAnalytics\create_master_seq.sql
- FQN: DFINAnalytics\sp_UTIL_GetSeq.sql
- DFINAnalytics\PrintImmediate.sql
- DFINAnalytics\CREATE_DFS_DB2Skip.sql
- DFINAnalytics\sp_ckProcessDB.sql
- DFINAnalytics\DFS_DBVersion.sql
- DFINAnalytics\createSeq2008.sql
- DFINAnalytics\create_DFS_WaitTypes_TableAndPopulate.sql
- DFINAnalytics\DMV_SuggestMissingIndexes.sql
- DFINAnalytics\DMV_SuggestMissingFKIndexes.sql
- DFINAnalytics\DMV_TableReadsAndWrites.sql
- DFINAnalytics\DVM_IdentifyQueriesCandidatesForOptimization.sql
- DFINAnalytics\find_Blocking_History.sql
- DFINAnalytics\UTIL_WorstPerformingQuerries2008.sql
- DFINAnalytics\FindBlockingDetail.sql
- DFINAnalytics\UTIL_RebuildAllDbIndexUsingDBCC.sql
- DFINAnalytics\UTIL_MonitorWorkload.sql
- DFINAnalytics\FindBlockedSPIDS.sql
- DFINAnalytics\findLocks.sql
- DFINAnalytics\MonitorBlockingDetail.sql
- DFINAnalytics\UTIL_MonitorDeadlocks.sql
- DFINAnalytics\UTIL_ReorgFragmentedIndexes.sql
- DFINAnalytics\UTIL_TableGrowthHistory.sql
- DFINAnalytics\PerformanceMonitorForProcs.sql

- DFINAnalytics\DFS_CleanDFSTables.sql
- DFINAnalytics\UTIL_Monitor_TPS.sql
- DFINAnalytics\UTIL_DefragAllIndexes.sql
- DFINAnalytics\sp_MeasurePerformanceInSP.sql
- DFINAnalytics\sp_UTIL_RebuildAllDbIndexes.sql
- DFINAnalytics\DFS_IO_BoundQry2000_ProcessTable.sql
- DFINAnalytics\DFS_CPU_BoundQry2000_ProcessTable.sql
- DFINAnalytics\DFS_CPU_BoundQry_ProcessTable.sql
- DFINAnalytics\DFS_IO_BoundQry_ProcessTable.sql
- DFINAnalytics\dm_exec_session_wait_stats.sql
- DFINAnalytics\DVM_IdentifyQueriesCandidatesForOptimization.sql

CREATE THE VIEWS

- DFINAnalytics\Create_View_DFS_Workload.sql" >> %IvpFile%
- DFINAnalytics\create_view_SessionStatus.sql
- DFINAnalytics\DFS_GetAllTableSizesAndRowCnt.sql

EVENT NOTIFICATION

- To create an event notification that is scoped to the database (ON DATABASE), requires CREATE DATABASE DDL EVENT NOTIFICATION permission in the current database.
- To create an event notification on a DDL statement that is scoped to the server (ON SERVER), requires CREATE DDL EVENT NOTIFICATION permission in the server.
- To create an event notification on a trace event, requires CREATE TRACE EVENT NOTIFICATION permission in the server.

PowerShell management Scripts

At times, in mixed environments, it is easier to perform repetitive tasks and single use functions using PowerShell. We did not take the time to document each one that will be available as that would take an immense amount of time. It is our hope that the script's name will help find what is available and needed.

_DB_FUNCS

Source: _DB_FUNCS.ps1

Contains:

- function _genConnStr
- function _prepConnStr
- function _changeSvrDB
- function _setConn
- function _getRowCntCurrConn
- function _getTableRowCnt
- function _createTempProc
- function _dropTempProc
- function _getSPText
- function _ExecuteSqlQuery

PowersShell Jobs

Directories: JobsDFIN\

- DFS_BoundQry_ProcessAllTables.ps1
- JOB_UTIL_Monitor_TPS.ps1
- JOB_UTIL_ReorgFragmentedIndexes.ps1
- JOB_CaptureWorstPerfQuery.ps1
- JOB_DFS_BoundQry_ProcessAllTables.ps1
- JOB_DFS_CleanDFSTables.ps1
- JOB_DFS_GetAllTableSizesAndRowCnt.ps1
- JOB_DFS_MonitorLocks.ps1
- JOB_JOB_UTIL_MonitorDeadlocks.ps1
- JOB_MonitorWorkload.ps1
- JOB_StdFunctions.ps1
- JOB_UTIL_DbMon_IndexVolatility.ps1
- JOB_UTIL_DBSpace.ps1
- JOB_UTIL_DBTableSpace.ps1
- JOB_UTIL_DFS_DbSize.ps1
- JOB_UTIL_GetIndexStats.ps1
- JOB_UTIL_MonitorDeadlocks.ps1
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430. PS_DB\functions\Remove-DbPfDataCollectorCounter.ps1	431. PS_DB\functions\Remove-DbPfDataCollectorSet.ps1	432. PS_DB\functions\Remove-DbSpn.ps1
433. PS_DB\functions\Remove-DbTrace.ps1	434. PS_DB\functions\Remove-DbXESession.ps1	435. PS_DB\functions\Remove-DbXESmartTarget.ps1
436. PS_DB\functions\Rename-DbDatabase.ps1	437. PS_DB\functions\Rename-DbLogin.ps1	438. PS_DB\functions\Repair-DbDbMirror.ps1
439. PS_DB\functions\Repair-DbDbOrphanUser.ps1	440. PS_DB\functions\Repair-DbServerName.ps1	441. PS_DB\functions\Reset-DbAdmin.ps1
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1300. PS_DB\tests\Watch-DbXESession.Tests.ps1	1301. PS_DB\tests\Write-DbDataTable.Tests.ps1	

Included SQL Scripts

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