

## MS SQL Server DBA Troubleshooting Tips

S1 No	Problem Reported / General point	Environment / Comments	Fix / Solution.
16	Query to list all the user tables and their number of rows.		<pre> SELECT [''+SCHEMA_NAME(t.[SCHEMA_ID])+'].['+t. NAME+']' AS [fulltable_name], SCHEMA_NAME(t.[SCHEMA_ID]) AS [schema_name],t.NAME as [table_name] ,i.rows FROM sys.tables t INNER JOIN sysindexes i ON (t.object_id = i.id AND i.indid &lt; 2) </pre>
17	Delete all data in the database		<pre> CREATE PROCEDURE sp_EmptyAllTable AS EXEC sp_MSForEachTable 'ALTER TABLE ? NOCHECK CONSTRAINT ALL' EXEC sp_MSForEachTable 'DELETE FROM ?' EXEC sp_MSForEachTable 'ALTER TABLE ? CHECK CONSTRAINT ALL' GO EXEC sp_EmptyAllTable </pre>
18	Detect fragmentation in a single object.	ALL	<pre> USE [DBNAME]; GO SELECT a.index_id, name, avg_fragmentation_in_percent FROM sys.dm_db_index_physical_stats (DB_ID(), OBJECT_ID(N'schema.objectname'), NULL, NULL, NULL) AS a </pre>

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			<pre>JOIN sys.indexes AS b ON a.object_id = b.object_id AND a.index_id = b.index_id;  GO</pre>
19	Query to get the fragmentation percentage of a table.	ALL	<pre>SELECT *  FROM sys.dm_db_index_physical_stats(DB_ID(), OBJECT_ID('Objectname'), NULL, NULL , 'DETAILED')</pre>
20	T-SQL to set up linked servers.	ALL	<pre>USE master;  GO  EXEC sp_addlinkedserver      'SQLServerToBeLinked',      N'SQL Server'  GO  Example  USE master;  GO  EXEC sp_addlinkedserver      'dbservername\instance',      N'SQL Server'  GO</pre>

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21	Stored procedure to cause a message to be event-logged sin windows.	ANY INSTANCE.	<code>sp_altermessage 3738, 'WITH_LOG', 'TRUE'</code>
22	To configure the environment t be able to execute shell command as below.  'xp_cmd_shell'	ANY INSTANCE	<code>EXEC sp_configure 'show advanced options', 1;</code> <code>GO</code> <code>RECONFIGURE;</code> <code>GO</code>  <code>EXEC sp_configure 'xp_cmdshell',1</code> <code>GO</code> <code>RECONFIGURE</code> <code>GO</code>
23	To connect to a sql instance from command prompt.		
24	T-SQL to backup Transactional log	ANY SQL SERVER DATABASE.	<code>BACKUP LOG MyAdvWorks_FullRM</code>  <code>TO MyAdvWorks_FullRM_log1;</code>  <code>GO</code>
25	To give only the readonly to a user (Windows\SQL server).	ANY SQL DATABASE (USER DATABASE)	Just give the user a ' <b>db_datareader</b> ' and also ' <b>db_denydatawriter</b> ' against that database.  Even though only <b>db_datareader</b> is given , its actually the <b>db_denydatawriter</b> that prevents the user from writing to

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			the database , hence making the access privilege 'Read-only'.
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