MsSQL - Verify Properties

```
/*

This will check the proprties on a given Database and also the server

Created By: Steve Ling 2022/04/07

*/

--Change the DB name here
DECLARE @DATABASE NVARCHAR(50) = 'SHOP'




/*
No changes below this line
*/
---- Simple Version Query
--SELECT    SERVERPROPERTY(   'productversion'   )   AS    "Product Version"    ,
--   SERVERPROPERTY (   'productlevel'   )   AS    "Product Level"    ,
--   SERVERPROPERTY (   'edition'   )   AS    "Edition"
-- Full Properties Query
 SELECT
 SERVERPROPERTY(   'ComputerNamePhysicalNetBIOS'   )   AS    'Current Failover Machine'    ,
 SERVERPROPERTY(   'MachineName'   )   AS    'Main Machine Name'    ,
 SERVERPROPERTY(   'ServerName'   )   AS    'Server\Instance Name'    ,
 SERVERPROPERTY(   'InstanceName'   )   AS    'Instance Name'    ,
 SERVERPROPERTY(   'ProcessID'   )   AS    'Instance ProcessID'    ,

 CASE    SUBSTRING   (   CONVERT   (VARCHAR(50), SERVERPROPERTY(   'productversion'   )), 1, 4)
    WHEN    '8.00'    THEN    'SQL2000'
      WHEN    '9.00'    THEN    'SQL2005'
      WHEN    '10.0'    THEN    'SQL2008'
      WHEN    '10.5'    THEN    'SQL2008 R2'
    WHEN    '11.0'    THEN    'SQL2012'
    WHEN    '12.0'    THEN    'SQL2014'
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   WHEN   '13.0'   THEN   'SQL2016'
   WHEN   '14.0'   THEN   'SQL2017'
   WHEN   '15.0'   THEN   'SQL2019'
   WHEN   '16.0'   THEN   'SQL2022'
   WHEN   '17.0'   THEN   'SQL2025'
   ELSE   'Undetermined'   END   AS   'SQL Version'   ,

SERVERPROPERTY(   'ProductVersion'   )   AS   'Product Version'   ,
SERVERPROPERTY(   'ProductLevel'   )   AS   'Product Level'   ,
SERVERPROPERTY(   'Edition'   )   AS   'Edition'   ,

CASE   SERVERPROPERTY(   'EngineEdition'   )
   WHEN   1   THEN   'Person / Desktop'
   WHEN   2   THEN   'Standard'
   WHEN   3   THEN   'Enterprise'
   WHEN   4   THEN   'Express'
   WHEN   5   THEN   'SQL Database'
   WHEN   6   THEN   'Azure Synapse Analytics'
   WHEN   8   THEN   'Azure SQL Managed Instance'
   WHEN   9   THEN   'Azure SQL Edge'
   WHEN   11  THEN   'Azure Synapse serverless SQL pool / Fabric'
   WHEN   12  THEN   'Fabric SQL database'
   ELSE   'Unknown'   END   AS   EngineEdition,



CASE   SERVERPROPERTY(   'IsIntegratedSecurityOnly'   )
   WHEN   1   THEN   'Window Authentication'
   WHEN   0   THEN   'Windows and SQL Authentication'
   ELSE   'Unknown'   END   AS   'Security Mode'   ,

SERVERPROPERTY(   'Collation'   )   AS   'Collation'   ,
SERVERPROPERTY(   'BuildClrVersion'   )   AS   'CLR Version'   ,

CASE   SERVERPROPERTY(   'IsFullTextInstalled'   )
   WHEN   1   THEN   'Installed'
   WHEN   0   THEN   'Not Installed'
   ELSE   'Unknown'   END   AS   'Full Text Indexing'   ,

CASE   SERVERPROPERTY(   'IsHadrEnabled'   )
   WHEN   0   THEN   'Disabled'
```

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    WHEN   1   THEN    'Enabled'
    ELSE    'Unknown'   END     AS    'AlwaysOn Availability Groups'    ,

 CASE   SERVERPROPERTY(   'HadrManagerStatus'   )
    WHEN   0   THEN    'Not Started / PENDING'
    WHEN   1   THEN    'Start/Running'
    WHEN   2   THEN    'Not Started / FAILED'
    ELSE    'Unknown'   END   AS    'AlwaysOn Availability Groups Manager'    ,

 CASE   SERVERPROPERTY(   'IsClustered'   )
    WHEN   1   THEN    'Clustered'
    WHEN   0   THEN    'Not Clustered'
    ELSE    'Unknown'   END   AS    'Failover Cluster'    ,

 CASE   SERVERPROPERTY(   'IsSingleUser'   )
    WHEN   0   THEN    'Not in Single User Mode'
    WHEN   1   THEN    'In Single User Mode'
    ELSE    'Unknown'   END   AS    'Single User Mode'    ;

DECLARE @DB SYSNAME = @DATABASE

SELECT 'Collation' as Property, DATABASEPROPERTYEX (@DB, 'Collation') as Value UNION
SELECT 'ComparisonStyle' as Property, DATABASEPROPERTYEX (@DB, 'ComparisonStyle') as Value UNION
SELECT 'Edition' as Property, DATABASEPROPERTYEX (@DB, 'Edition') as Value UNION
SELECT 'IsAnsiNullDefault' as Property, DATABASEPROPERTYEX (@DB, 'IsAnsiNullDefault') as Value UNION
SELECT 'IsAnsiNullsEnabled' as Property, DATABASEPROPERTYEX (@DB, 'IsAnsiNullsEnabled') as Value UNION
SELECT 'IsAnsiPaddingEnabled' as Property, DATABASEPROPERTYEX (@DB, 'IsAnsiPaddingEnabled') as Value
UNION
SELECT 'IsAnsiWarningsEnabled' as Property, DATABASEPROPERTYEX (@DB, 'IsAnsiWarningsEnabled') as Value
UNION
SELECT 'IsArithmeticAbortEnabled' as Property, DATABASEPROPERTYEX (@DB, 'IsArithmeticAbortEnabled') as
Value UNION
SELECT 'IsAutoClose' as Property, DATABASEPROPERTYEX (@DB, 'IsAutoClose') as Value UNION
SELECT 'IsAutoCreateStatistics' as Property, DATABASEPROPERTYEX (@DB, 'IsAutoCreateStatistics') as Value
UNION
SELECT 'IsAutoCreateStatisticsIncremental' as Property, DATABASEPROPERTYEX (@DB,
'IsAutoCreateStatisticsIncremental') as Value UNION
SELECT 'IsAutoShrink' as Property, DATABASEPROPERTYEX (@DB, 'IsAutoShrink') as Value UNION
SELECT 'IsAutoUpdateStatistics' as Property, DATABASEPROPERTYEX (@DB, 'IsAutoUpdateStatistics') as Value
UNION
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SELECT 'IsClone' as Property, DATABASEPROPERTYEX (@DB, 'IsClone') as Value UNION
SELECT 'IsCloseCursorsOnCommitEnabled' as Property, DATABASEPROPERTYEX (@DB,
'IsCloseCursorsOnCommitEnabled') as Value UNION
SELECT 'IsFulltextEnabled' as Property, DATABASEPROPERTYEX (@DB, 'IsFulltextEnabled') as Value UNION
SELECT 'IsInStandBy' as Property, DATABASEPROPERTYEX (@DB, 'IsInStandBy') as Value UNION
SELECT 'IsLocalCursorsDefault' as Property, DATABASEPROPERTYEX (@DB, 'IsLocalCursorsDefault') as Value
UNION
SELECT 'IsMemoryOptimizedElevateToSnapshotEnabled' as Property, DATABASEPROPERTYEX (@DB,
'IsMemoryOptimizedElevateToSnapshotEnabled') as Value UNION
SELECT 'IsMergePublished' as Property, DATABASEPROPERTYEX (@DB, 'IsMergePublished') as Value UNION
SELECT 'IsNullConcat' as Property, DATABASEPROPERTYEX (@DB, 'IsNullConcat') as Value UNION
SELECT 'IsNumericRoundAbortEnabled' as Property, DATABASEPROPERTYEX (@DB,
'IsNumericRoundAbortEnabled') as Value UNION
SELECT 'IsParameterizationForced' as Property, DATABASEPROPERTYEX (@DB, 'IsParameterizationForced') as
Value UNION
SELECT 'IsQuotedIdentifiersEnabled' as Property, DATABASEPROPERTYEX (@DB, 'IsQuotedIdentifiersEnabled') as
Value UNION
SELECT 'IsPublished' as Property, DATABASEPROPERTYEX (@DB, 'IsPublished') as Value UNION
SELECT 'IsRecursiveTriggersEnabled' as Property, DATABASEPROPERTYEX (@DB, 'IsRecursiveTriggersEnabled')
as Value UNION
SELECT 'IsSubscribed' as Property, DATABASEPROPERTYEX (@DB, 'IsSubscribed') as Value UNION
SELECT 'IsSyncWithBackup' as Property, DATABASEPROPERTYEX (@DB, 'IsSyncWithBackup') as Value UNION
SELECT 'IsTornPageDetectionEnabled' as Property, DATABASEPROPERTYEX (@DB, 'IsTornPageDetectionEnabled')
as Value UNION
SELECT 'IsVerifiedClone' as Property, DATABASEPROPERTYEX (@DB, 'IsVerifiedClone') as Value UNION
SELECT 'IsXTPSupported' as Property, DATABASEPROPERTYEX (@DB, 'IsXTPSupported') as Value UNION
SELECT 'LastGoodCheckDbTime' as Property, DATABASEPROPERTYEX (@DB, 'LastGoodCheckDbTime') as Value
UNION
SELECT 'LCID' as Property, DATABASEPROPERTYEX (@DB, 'LCID') as Value UNION
SELECT 'MaxSizeInBytes' as Property, DATABASEPROPERTYEX (@DB, 'MaxSizeInBytes') as Value UNION
SELECT 'Recovery' as Property, DATABASEPROPERTYEX (@DB, 'Recovery') as Value UNION
SELECT 'ServiceObjective' as Property, DATABASEPROPERTYEX (@DB, 'ServiceObjective') as Value UNION
SELECT 'ServiceObjectiveId' as Property, DATABASEPROPERTYEX (@DB, 'ServiceObjectiveId') as Value UNION
SELECT 'SQLSortOrder' as Property, DATABASEPROPERTYEX (@DB, 'SQLSortOrder') as Value UNION
SELECT 'Status' as Property, DATABASEPROPERTYEX (@DB, 'Status') as Value UNION
SELECT 'Updateability' as Property, DATABASEPROPERTYEX (@DB, 'Updateability') as Value UNION
SELECT 'UserAccess' as Property, DATABASEPROPERTYEX (@DB, 'UserAccess') as Value UNION
SELECT 'Version' as Property, DATABASEPROPERTYEX (@DB, 'Version') as Value

DECLARE @props TABLE (propertyname sysname PRIMARY KEY)
```

```
INSERT INTO @props(propertyname)
SELECT 'BuildClrVersion'
UNION
SELECT 'Collation'
UNION
SELECT 'CollationID'
UNION
SELECT 'ComparisonStyle'
UNION
SELECT 'ComputerNamePhysicalNetBIOS'
UNION
SELECT 'Edition'
UNION
SELECT 'EditionID'
UNION
SELECT 'EngineEdition'
UNION
SELECT 'InstanceName'
UNION
SELECT 'IsClustered'
UNION
SELECT 'IsFullTextInstalled'
UNION
SELECT 'IsIntegratedSecurityOnly'
UNION
SELECT 'IsSingleUser'
UNION
SELECT 'LCID'
UNION
SELECT 'LicenseType'
UNION
SELECT 'MachineName'
UNION
SELECT 'NumLicenses'
UNION
SELECT 'ProcessID'
UNION
SELECT 'ProductVersion'
UNION
SELECT 'ProductLevel'
```

```
UNION
SELECT 'ResourceLastUpdateDateTime'
UNION
SELECT 'ResourceVersion'
UNION
SELECT 'ServerName'
UNION
SELECT 'SqlCharSet'
UNION
SELECT 'SqlCharSetName'
UNION
SELECT 'SqlSortOrder'
UNION
SELECT 'SqlSortOrderName'
UNION
SELECT 'FilestreamShareName'
UNION
SELECT 'FilestreamConfiguredLevel'
UNION
SELECT 'FilestreamEffectiveLevel'

SELECT propertyname, SERVERPROPERTY(propertyname) FROM @props
```

Last verified: October 2026

Sources:

- https://learn.microsoft.com/en-us/sql/t-sql/functions/serverproperty-transact-sql

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