SQL Database Documentation

Demonstration database

CONTOSO TECHNICAL SERVICES

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Author	DEMO2012R2\sysadmin
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SQL Instance Information

Provides general information for this item.

General Information

Name	CLUSTER-2K19-2
Description	Microsoft SQL Server 2019 Enterprise Edition (64-bit)
Primary Owner Name	Technical Services
Primary Owner Contact	technicalservices@contoso.com

System Information

Item Path	Contoso Technical Services
Item ID	1115
Version ID	1.03
CheckOut Status	Available

Custom Item Details

This is a demonstration SQL Instance item.

Demonstration database

This section provides detailed information relating to the database.

Database

Date Created	09/09/2020 11:58:41
Description	This is a demonstration database.
Memory Allocated To Memory Optimized Objects	0.00
Memory Used By Memory Optimized Objects	0.00
Owner	TEST2019\sysadmin
Size (MB)	16.00
Space Available (MB)	5.12
Status	Normal

Maintenance

Collation	Latin1_General_CI_AS

Full-Text Search

Use Full-Text Indexing	True

Backup

Last Database Backup	09/09/2020 11:59:06
Last Log Backup Date	[Not Configured]

Change Tracking

Change Tracking Enabled	False

Database Mirroring

Enabled	False

3 Permissions

Name	Grantor	Permission	State
public	dbo	VIEW ANY COLUMN ENCRYPTION KEY DEFINITION	Grant
public	dbo	VIEW ANY COLUMN MASTER KEY DEFINITION	Grant
dbo	dbo	CONNECT	Grant

1 Extended Properties

Name	Type	Value
ms_description	String	This is a demonstration database.

Query Store

Operation Mode (Actual)	Off
Operation Mode (Requested)	Off
Data Flush Interval (Minutes)	15
Statistics Collection Interval	1 hour
Maximum Plans Per Query	200
Max Size (MB)	1,000
Capture Mode	Auto
Size Based Cleanup Mode	Auto
Stale Query Threshold (Days)	30

Assemblies

Assemblies are DLL files used in an instance of SQL Server to deploy functions, stored procedures, triggers, user-defined aggregates, and user-defined types that are written in one of the managed code languages hosted by the Microsoft.NET Framework common language runtime (CLR), instead of in Transact-SQL.

1 Assemblies

Name	Security Level	Version
Microsoft.SqlServer.Types	Unrestricted	15.0.0.0

Microsoft.SqlServer.Types

Assemblies are DLL files used in an instance of SQL Server to deploy functions, stored procedures, triggers, user-defined aggregates, and user-defined types that are written in one of the managed code languages hosted by the Microsoft.NET Framework common language runtime (CLR), instead of in Transact-SQL.

General Settings

Assembly Security Level	Unrestricted
Date Created	24/09/2019 14:19:54
Strong Named	True
System Object	True
Owner	sys
Version	15.0.0.0

Extended Properties

There are no extended properties defined for this object.

Database Creation Script

This section provides the T-SQL command used to create the database.

SQL Script

```
CREATE DATABASE [Demonstration database]
 CONTAINMENT = NONE
 ON  PRIMARY
( NAME = 'Demonstration database'N, FILENAME = 'C:\Program Files\Microsoft SQL
Server\MSSQL15.MSSQLSERVER\MSSQL\DATA\Demonstration database.mdf'N , SIZE = 8192KB , MAXSIZE =
UNLIMITED, FILEGROWTH = 65536KB )
 LOG ON
( NAME = 'Demonstration database_log'N, FILENAME = 'C:\Program Files\Microsoft SQL
Server\MSSQL15.MSSQLSERVER\MSSQL\DATA\Demonstration database_log.ldf'N , SIZE = 8192KB , MAXSIZE =
2048GB , FILEGROWTH = 65536KB )
 COLLATE Latin1_General_CI_AS
 WITH CATALOG_COLLATION = DATABASE_DEFAULT
IF (1 = FULLTEXTSERVICEPROPERTY('IsFullTextInstalled'))
begin
EXEC [Demonstration database].[dbo].[sp_fulltext_database] @action = 'enable'
end
ALTER DATABASE [Demonstration database] SET ANSI_NULL_DEFAULT OFF
ALTER DATABASE [Demonstration database] SET ANSI_NULLS OFF
ALTER DATABASE [Demonstration database] SET ANSI_PADDING OFF
ALTER DATABASE [Demonstration database] SET ANSI_WARNINGS OFF
ALTER DATABASE [Demonstration database] SET ARITHABORT OFF
ALTER DATABASE [Demonstration database] SET AUTO_CLOSE OFF
ALTER DATABASE [Demonstration database] SET AUTO_SHRINK OFF
ALTER DATABASE [Demonstration database] SET AUTO_UPDATE_STATISTICS ON
ALTER DATABASE [Demonstration database] SET CURSOR_CLOSE_ON_COMMIT OFF
ALTER DATABASE [Demonstration database] SET CURSOR_DEFAULT  GLOBAL
ALTER DATABASE [Demonstration database] SET CONCAT_NULL_YIELDS_NULL OFF
ALTER DATABASE [Demonstration database] SET NUMERIC_ROUNDABORT OFF
ALTER DATABASE [Demonstration database] SET QUOTED_IDENTIFIER OFF
ALTER DATABASE [Demonstration database] SET RECURSIVE_TRIGGERS OFF
ALTER DATABASE [Demonstration database] SET  DISABLE_BROKER
ALTER DATABASE [Demonstration database] SET AUTO_UPDATE_STATISTICS_ASYNC OFF
ALTER DATABASE [Demonstration database] SET DATE_CORRELATION_OPTIMIZATION OFF
ALTER DATABASE [Demonstration database] SET TRUSTWORTHY OFF
ALTER DATABASE [Demonstration database] SET ALLOW_SNAPSHOT_ISOLATION OFF
ALTER DATABASE [Demonstration database] SET PARAMETERIZATION SIMPLE
ALTER DATABASE [Demonstration database] SET READ_COMMITTED_SNAPSHOT OFF
ALTER DATABASE [Demonstration database] SET HONOR_BROKER_PRIORITY OFF
ALTER DATABASE [Demonstration database] SET RECOVERY FULL
ALTER DATABASE [Demonstration database] SET  MULTI_USER
ALTER DATABASE [Demonstration database] SET PAGE_VERIFY CHECKSUM
ALTER DATABASE [Demonstration database] SET DB_CHAINING OFF
ALTER DATABASE [Demonstration database] SET FILESTREAM( NON_TRANSACTED_ACCESS = OFF )
ALTER DATABASE [Demonstration database] SET TARGET_RECOVERY_TIME = 60 SECONDS
ALTER DATABASE [Demonstration database] SET DELAYED_DURABILITY = DISABLED
ALTER DATABASE [Demonstration database] SET QUERY_STORE = OFF
ALTER DATABASE [Demonstration database] SET  READ_WRITE
```

Options

This section provides options information relating to the database.

Maintenance	
Collation	Latin1_General_CI_AS
Recovery Model	Full
Compatibility Level	SQL Server 2019 (150)
Containment Type	NONE

Automatic	
Auto Close	False
Auto Create Incremental Statistics	False
Auto Create Statistics	True
Auto Shrink	False
Auto Update Statistics	True
Auto Update Statistics Asynchronously	False

Containment	
Containment Type	NONE
Default Fulltext Language LCID	1033
Default Language Name	English (United States)
Nested Triggers	True
Transform Noise Words	False
Two Digit Year Cutoff	2049

Cursor	
Close Cursors On Commit Enabled	False
Default Cursor	GLOBAL

Database Scoped Configurations	
Legacy Cardinality Estimation	Off
Legacy Cardinality Estimation For Secondary	Primary
Max DOP	0
Max DOP For Secondary	0
Parameter Sniffing	On
Parameter Sniffing For Secondary	Primary
Query Optimizer Fixes	Off
Query Optimizer Fixes For Secondary	Primary

FILESTREAM

FILESTREAM Directory Name	
FILESTREAM Non-Transacted Access	Off

Miscellaneous

Allow Snapshot Isolation	False
ANSI NULL Default	False
ANSI NULLS Enabled	False
ANSI Padding Enabled	False
ANSI Warnings Enabled	False
Arithmetic Abort Enabled	False
Concatenate Null Yields Null	False
Cross-database Ownership Chaining Enabled	False
Date Correlation Optimization	False
Delayed Durability	Disabled
Is Read Committed Snapshot On	False
Parameterization	Simple
Quoted Identifiers Enabled	False
Recursive Triggers Enabled	False
Trustworthy	False
VarDecimal Storage Format Enabled	True

Recovery

Page Verify	CHECKSUM
Target Recovery Time (Seconds)	60

Service Broker

Broker Enabled	False
Honor Broker Priority	False
Service Broker Identity	195637f7-a329-400b-a3f5-01f5358544d4

State

Database Read-Only	False
Status	Normal
Encryption Enabled	False
Restrict Access	MULTI_USER

Files

This section provides information relating to the files used by the database.

Demonstration database

File Type	ROWS Data
Primary File	True
Sparse	False
Filegroup Name	PRIMARY
Initial Size (MB)	8
Autogrowth	By 64 MB, Unlimited
Path	C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSERVER\MSSQL\DATA
Filename	Demonstration database.mdf

Demonstration database_log

File Type	LOG
Sparse	False
Initial Size (MB)	8
Autogrowth	By 64 MB, Limited to 2097152 MB
Path	C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSERVER\MSSQL\DATA
Filename	Demonstration database_log.ldf

Filegroups

Filegroups are used to group data files together for administrative, data allocation, and placement purposes.

1 Filegroups

Name	Type	Files	Read-Only	Default	Autogrow All Files
PRIMARY	Rows	1	False	True	False

Stored Procedures

A stored procedure in SQL Server is a group of one or more Transact-SQL statements or a reference to a Microsoft .NET Framework common runtime language (CLR) method.

1 Stored Procedures

Name	Schema	Owner
DemonstrationProcedure	dbo	dbo

DemonstrationProcedure

A stored procedure in SQL Server is a group of one or more Transact-SQL statements or a reference to a Microsoft .NET Framework common runtime language (CLR) method.

General Settings

Schema	dbo
Owner	dbo
Date Created	10/09/2020 15:10:02
Date Last Modified	10/09/2020 15:10:02
System Object	False
Description	This is a demonstration stored procedure.
Execution Context	Caller

Options

ANSI NULLs	True
Encrypted	False
Quoted Identifier	True
For Replication	False
Recompile	False
Natively Compiled	False
Schema Bound	False

2 Parameters

Name	Data Type	Default Value	Direction
@p1	int	0	Input
@p2	int	0	Input

1 Extended Properties

Name	Type	Value
ms_description	String	This is a demonstration stored procedure.

SQL Script

```sql
SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
-- =============================================
-- Author:      Demonstration author
-- Create date: 10th September 2020
-- Description:   This is a demonstration stored procedure
-- =============================================
CREATE PROCEDURE DemonstrationProcedure
   @p1 int = 0,
   @p2 int = 0
AS
BEGIN
   -- SET NOCOUNT ON added to prevent extra result sets from
   -- interfering with SELECT statements.
   SET NOCOUNT ON;

   SELECT @p1, @p2
END
```

Tables

Tables are database objects that contain all the data in a database. In tables, data is logically organized in a row-and-column format similar to a spreadsheet. Each row represents a unique record, and each column represents a field in the record.

1 Tables

Name	Schema	Collation	Description
DemonstrationTable	dbo	Latin1_General_CI_AS	This is a demonstration table.

DemonstrationTable

Tables are database objects that contain all the data in a database. In tables, data is logically organized in a row-and-column format similar to a spreadsheet. Each row represents a unique record, and each column represents a field in the record.

General Settings

Schema	dbo
Date Created	10/09/2020 15:10:56
Date Last Modified	10/09/2020 15:10:56
Description	This is a demonstration table.
System Object	False
Collation	Latin1_General_CI_AS

Options

Temporal Type	None
Durability	SchemaAndData
Memory Optimized	False
ANSI NULLs	True
Quoted Identifier	True
Replicated	False

Change Tracking

Change Tracking Enabled	False
Track Columns Updated	False

GraphDB

Is Edge Table	False
Is Node Table	False

Storage

Filegroup	PRIMARY
Text Filegroup	
Table Partitioned	False
VarDecimal Storage Format Enabled	False
Row Count	0

1 Extended Properties

Name	Type	Value
ms_description	String	This is a demonstration table.

SQL Script

```sql
SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
CREATE TABLE [dbo].[DemonstrationTable](
   [Demonstration column] [int] NULL
) ON [PRIMARY]
```

Columns

In tables, data is logically organized in a row-and-column format similar to a spreadsheet. Each column represents a field in the record. Each column can have a data type and default value assigned.

1 Columns

Name	Data Type	Allow Nulls
Demonstration column	int	True

Demonstration column

In tables, data is logically organized in a row-and-column format similar to a spreadsheet. Each column represents a field in the record. Each column can have a data type and default value assigned.

General Settings

Allow Nulls	True
ANSI Padding Status	False
Collation	
Computed Text	
Data Type	int
Default Schema	
Default Value Or Binding	
Description	
Primary Key	False
Is Columnset	False
Computed	False
Deterministic	False
Foreign Key	False
Full-Text Indexed	False
Is Hidden	False
IsSparse	False
Not For Replication	False

Identity

Identity	False

Extended Properties

There are no extended properties defined for this object.

Foreign Keys

A foreign key (FK) is a column or combination of columns that is used to establish and enforce a link between the data in two tables to control the data that can be stored in the foreign key table.

Foreign Keys

There are no foreign keys defined.

Triggers

A trigger is a special type of stored procedure that automatically runs when an event occurs in the database server.

Triggers

There are no triggers defined.

User Defined Functions

Like functions in programming languages, SQL Server user-defined functions are routines that accept parameters, perform an action, such as a complex calculation, and return the result of that action as a value. The return value can either be a single scalar value or a result set.

1 User Defined Functions

Name	Schema	Owner	Type
TableValuedFunction	dbo	dbo	Inline Function

TableValuedFunction

Like functions in programming languages, SQL Server user-defined functions are routines that accept parameters, perform an action, such as a complex calculation, and return the result of that action as a value. The return value can either be a single scalar value or a result set.

General Settings

Function Type	Inline Function
Schema	dbo
Owner	dbo
Date Created	10/09/2020 15:16:05
Date Last Modified	10/09/2020 15:16:05
System Object	False
Description	This is a demonstration table-valued function.
Execution Context	Caller

Options

ANSI NULLs	True
Encrypted	False
Quoted Identifier	True
Natively Compiled	False
Schema Bound	False

2 Parameters

Name	Data Type	Default Value
@p1	int	No Default
@p2	char(1)	No Default

1 Extended Properties

Name	Type	Value
ms_description	String	This is a demonstration database.

SQL Script

```sql
SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
-- ============================================
-- Author:      Demonstration author
-- Create date: 10th September 2020
-- Description:   This is a demonstration table-valued function
-- ============================================
CREATE FUNCTION TableValuedFunction
(
   @p1 int,
   @p2 char
)
RETURNS TABLE
AS
RETURN
(
   SELECT 0 AS [COLUMN]
)
```

Views

A view is a virtual table whose contents are defined by a query. Like a table, a view consists of a set of named columns and rows of data.

1 Views

Name	Schema	Owner
DemonstrationView	dbo	dbo

DemonstrationView

A view is a virtual table whose contents are defined by a query. Like a table, a view consists of a set of named columns and rows of data.

General Settings

Date Created	10/09/2020 15:17:16
Date Last Modified	10/09/2020 15:17:20
System Object	False
Owner	dbo
Schema	dbo

Options

ANSI NULLs	True
Encrypted	False
Quoted Identifier	True
Schema Bound	False

1 Columns

Name	Data Type	Allow Nulls
Demonstration column	int	True

2 Extended Properties

Name	Type	Value
MS_DiagramPane1	String	[0E232FF0-B466-11cf-A24F-00AA00A3EFFF, 1.00] Begin DesignProperties = Begin PaneConfigurations = Begin PaneConfiguration = 0 NumPanes = 4 Configuration = "(H (1[40] 4[20] 2[20] 3))" End Begin PaneConfiguration = 1 NumPanes = 3 Configuration = "(H (1 [50] 4 [25] 3))" End Begin PaneConfiguration = 2 NumPanes = 3 Configuration = "(H (1 [50] 2 [25] 3))" End Begin PaneConfiguration = 3 NumPanes = 3 Configuration = "(H (4 [30] 2 [40] 3))" End Begin PaneConfiguration = 4 NumPanes = 2 Configuration = "(H (1 [56] 3))" End Begin PaneConfiguration = 5 NumPanes = 2 Configuration = "(H (2 [66] 3))" End Begin PaneConfiguration = 6 NumPanes = 2 Configuration = "(H (4 [50] 3))" End Begin PaneConfiguration = 7

		NumPanes = 1 Configuration = "(V (3))" End Begin PaneConfiguration = 8 NumPanes = 3 Configuration = "(H (1[56] 4[18] 2))" End Begin PaneConfiguration = 9 NumPanes = 2 Configuration = "(H (1 [75] 4))" End Begin PaneConfiguration = 10 NumPanes = 2 Configuration = "(H (1[66] 2))" End Begin PaneConfiguration = 11 NumPanes = 2 Configuration = "(H (4 [60] 2))" End Begin PaneConfiguration = 12 NumPanes = 1 Configuration = "(H (1))" End Begin PaneConfiguration = 13 NumPanes = 1 Configuration = "(V (4))" End Begin PaneConfiguration = 14 NumPanes = 1 Configuration = "(V (2))" End ActivePaneConfig = 0 End Begin DiagramPane = Begin Origin = Top = 0 Left = 0 End Begin Tables = Begin Table = "DemonstrationTable" Begin Extent = Top = 9 Left = 57 Bottom = 125 Right = 344 End DisplayFlags = 280 TopColumn = 0 End End End Begin SQLPane = End Begin DataPane = Begin ParameterDefaults = "" End End Begin CriteriaPane = Begin ColumnWidths = 11 Column = 1440 Alias = 900 Table = 1170 Output = 720 Append = 1400 NewValue = 1170 SortType = 1350 SortOrder = 1410 GroupBy = 1350 Filter = 1350 Or = 1350 Or = 1350 Or = 1350 End End End
MS_DiagramPaneCount	Int32	1

Version History

The version history displays the changes that have been made to the documentation of this item over time - either automatically when a change has been detected, or manually by users of the system.

4 versions

Version	Username	Date	Time	Description
1.03	DEMO2012R2\sysadmin	02 November 2020	12:12	Updated by XIA Configuration Client Data
1.02	DEMO2012R2\sysadmin	02 November 2020	11:30	Added Primary Owner.
1.01	DEMO2012R2\sysadmin	02 November 2020	10:42	Updated by XIA Configuration Client Data
1.00	DEMO2012R2\sysadmin	02 November 2020	10:42	Item created.