

# ApexSQL Script

Version 2020.x

Release Notes and Requirements

## System requirements

<b>Hardware</b>	Dual Core 2.0 GHz CPU 3 GB memory 167 MB disk space
<b>SQL Server</b>	SQL Server 2005 and higher <sup>[1]</sup> Azure SQL Database <sup>[1]</sup> Amazon RDS for SQL Server <sup>[1]</sup>
<b>OS</b>	Windows 7 SP1 / Windows Server 2008 R2 SP1 and higher <sup>[1]</sup>
<b>Software</b>	<a href="#">.NET Framework 4.7.2</a> or higher
<b>Note</b>	<a href="#">Source control integration available</a> for Azure DevOps <sup>[4]</sup> , Git <sup>[5]</sup> , Mercurial <sup>[5]</sup> , Subversion <sup>[5]</sup> and Perforce <sup>[5]</sup>
<b>Permissions and additional requirements</b>	Windows user account with administrative privileges  See <a href="#">Minimum permissions required to install and use ApexSQL products</a>  See <a href="#">Minimum SQL Server permissions for ApexSQL Developer tools</a>  See <a href="#">Remote access for SQL Server instance</a>

<sup>[1]</sup> See [Supported systems](#) for exact version support

<sup>[4]</sup> Azure DevOps Server (TFS) <sup>[5]</sup> / Azure DevOps Services

<sup>[5]</sup> Up to the latest version

## Supported Software

Windows version				
Windows 7 SP1 & Windows Server 2008 R2 SP1	Windows Server 2012	Windows 8.1 & Windows Server 2012 R2	Windows 10 & Windows Server 2016	Windows Server 2019
✓	✓	✓	✓	✓

SQL Server version <sup>[4]</sup>									
	2005	2008	2012	2014	2016	2017		2019 CTP 3	
						Windows	Linux <sup>[3]</sup>	Windows	Linux <sup>[3]</sup>
<a href="#">ApexSQL Script</a>	✓	✓	✓	✓	✓	✓	✓	✓	✓

SQL Server edition <sup>[4]</sup>						
	Express	Standard	Enterprise	Azure SQL Database		Amazon RDS for SQL Server
				Single Database, Elastic Pool	Managed Instance	
<a href="#">ApexSQL Script</a>	✓	✓	✓	✓	✓	✓

## Source control systems

	Azure DevOps <sup>[6]</sup>	Git <sup>[7]</sup>	Mercurial <sup>[7]</sup>	Perforce <sup>[7]</sup>	Subversion <sup>[7]</sup>
<a href="#">ApexSQL Script</a>	✓	✓	✓	✓	✓

<sup>[3]</sup> Tested on Ubuntu 16.04

<sup>[4]</sup> Including Amazon EC2, Google Compute Engine, and Azure Virtual Machine cloud computing SQL Server instances

<sup>[6]</sup> Azure DevOps Server (TFS) <sup>[7]</sup> / Azure DevOps Services

<sup>[7]</sup> Up to the latest version

## Getting Started

For further information about installation and getting started, please check the [Quest Knowledge Base](#) or [ApexSQL Getting Started](#).

## Release Notes [\(release history\)](#)

Release: 2020.02.0486

Date: September 16, 2020

### Fixes:

- 183811: "Parse error: Incorrect syntax near 'RANGE'" error is encountered when attempting to script the SQL database
- 183812: SQL databases are not loaded when using SQL Server 2008
- 185359: The output script doesn't include a begin transaction at the top of the script when generating individual scripts into a folder

Release: 2020.01.0482

Date: March 2, 2020

### Enhancements:

- [SQL Server 2019 support](#)
- Temporal tables support

- SQL graph tables support
- [Application telemetry now collects anonymous data on the use and performance of applications and application component](#)
- [ApexSQL Updater is added for configuring advanced updating settings of all installed ApexSQL products](#)

## Fixes:

- Empty folder structure is generated in the temporary folder and the folder is generated in the wrong location when committing scripts to the Team Foundation Server repository
- The application stops responding when scripting out filtered list of triggers from Amazon RDS database
- Applying schema or object name column filters in objects lists does not affect the list
- Data is not scripted with the Structure and data scripting mode selected when the Object filter is set after loading a database
- "Make sure correct username and password are specified" message is encountered when establishing connection to the Git repository hosted on the Azure DevOps
- Blank error dialog is shown when all the files are deleted from Team Foundation Server repository and commit is started again
- The application is not automatically closed during the update process
- Performance drop when scripting a database with 200+ users and permissions on all objects for them
- "Parse error: [Incorrect syntax near 'WITH'] at" error is encountered when the Script process is initiated with the Structure and data scripting mode and a table included has the with fill-factor value
- Database and column collation are changed, and SQL Server default collation is used when creating a database from a created executable installer
- "Method not found: 'Void DevExpress.XtraTreeLis" error is encountered when saving the project file
- Date and time are not changed for the file name in the Script wizard after one scripting process is finished and another one is started
- Filter editor under the Object filter panel in the main application window is not working
- Underscores are not added when the Date and Time tags are added for the file name under the Output tab of the Options window
- "Object reference not set to an instance of an object" error is encountered when scripting out a database to a script folder
- Missing statements to create filegroups for objects that uses them when the Filegroups option under the Structure section of the Options tab in the New project window is checked and output to script folder is selected
- Authentication type is automatically changed to the Active Directory - Universal with MFA support authentication when changing SQL Server
- Missing the Active Directory - Universal with MFA support authentication for the Connection to SQL Server dialog under the Integrated editor
- Missing source control connection parameters when generating automation script for scripting to a local Git repository

- "Repository not found: C:\Users\Username\AppData\Local\ApexSQL\ApexSQL Script\" error is encountered when scripting database to the local Git repository
- Objects are not shown in the main application window when SQL Server 2008 database is loaded
- Pre and Post processing scripts are not included in the scripting process when the Use embedded option is selected under the Additional scripts tab of the New project window
- Object type selection in the Object filter tab of the New project window is reset when any selection is made, a tab is switched and then the Object filter tab is selected again
- Database with its objects and data remains in the Structure and Data grids in the main application window, even though the project is edited, and other database is checked for loading, while the first one is unchecked
- The last used path for the automation script is not remembered
- "Object reference not set to an instance of an object" error is encountered when configuring scripting target source control parameters after second database is loaded in same application session
- Missing the option to exclude specific objects through the CLI
- Static data is not scripted for tables that do not have primary key defined

## Changes:

- Dark theme is now used as the default application theme
- Save as dialogs are now inheriting the application theme

Release: 2018.04.0452

Date: June 21, 2019

## Changes:

- Software Transaction Agreement is added as a new step in the installation wizard and updated in accordance with <https://www.quest.com/legal/sta.aspx>

Release: 2018.04.0447

Date: April 23, 2019

## Enhancements:

- [Active Directory support for:](#)
  - [Password authentication](#)
  - [Integrated authentication](#)
  - [Universal with MFA support authentication](#)
- Visual Studio 2019 version option is added for the C# solution and Executable installer options steps in the Script wizard
- CLI switches:
  - Login for Azure Active Directory authentication [/ad]

- New value for the Visual Studio /vs\_ver switch: VS2019

## Fixes:

- "ExecuteScalar requires an open and available Connection. The connection's current state is closed" error is encountered in the log file when Azure SQL Database or Amazon RDS for SQL Server is loaded, even though there is no error in the application's GUI
- "Object reference not set to an instance of an object" error is encountered when the OK button is clicked in the Connection options dialog after changing value for timeout options
- The created C# solution is not opened upon creating it through the CLI, even though the /open\_vs switch is specified
- The created executable installer is not opened upon creating it through the CLI, even though the /run\_exe\_now switch is specified
- The Disable all triggers and constraints prior to loading data option switch is not working in the CLI
- "Could not load file or assembly" error is encountered during the commit process to the Team Foundation Server repository
- "Index 4 is out of range" error is encountered when the Clear filter button is clicked in the Object filter panel of the main application window

## Changes:

- Where clause dialog and column under the Data view are now Row filter

Release:	2018.03.0425
Date:	February 22, 2019

## Fixes:

- The Extend evaluation button does not open default e-mail client when clicked and the application is opened in the Community edition
- Objects and data are scripted to the same StaticData folder when more than one database schema and data is selected for scripting
- Randomly named project are created when an existing one is deleted from the Team Foundation Server repository
- "Source control error: One or more errors occurred" error is encountered when creating new project on Team Foundation Server repository

Release:	2018.02.0418
Date:	December 18, 2018

## Enhancements:

- SQL Server 2019 CTP 2.0 support
- [High DPI and 4K resolution support](#)
- [Save automation script as a PowerShell script](#)
- [New error handling and send logs functionality](#)
- [Improved application installer with a dark theme](#)
- [New application icon](#)
- Check for object existence with If exists/If not exists option is added under the Options tab of the New project window
- Include dependent database objects option is added under the Options tab of the New project window
- CLI switches:
  - Name of the executable installer or C# solution package [/pknm]
  - Output name/folder path of the SQL script, script folder or executable packages [/on]

## Fixes:

- "Source control error: Comment cannot be empty" error is encountered while creating new project for Mercurial source control without entering a comment
- "There was an error when processing files. The directory is not empty" error message is encountered when committing to Subversion and Git project label
- "The path is not of a legal form" error is encountered when running executable installer if it was created with the Use compression option and saved in the ApexSQL Script installation folder
- "Source control project path is not specified" error is encountered when running the CLI to commit objects/data without the /scj switch for setting up the source control project
- "Source control working folder is not specified" error is encountered when omitting the switch for the working folder
- Executable installer cannot execute a script to create a database on Azure SQL Database V12
- "Failed to commit operation with message 'No pending changes'" error is encountered when creating a subproject on Team Foundation Server repository
- Triggers are not being disabled or re-enabled when scripting only data
- "Parse error: Incorrect syntax near '@SB'" is encountered when scripting a stored procedure that contains uniqueidentifier
- Creating of new projects from the Source control wizard for the latest version of Mercurial source control system 3.9 and above is not working
- Labels are applied to each commit to source control repository, even when label is not provided in the Output file window
- "Please check the 'Script create database' option in project defaults" message is shown when the Use for database option is checked in the Options tab and the Alter database name is checked in the SQL script options step of the Script wizard
- "NGit.Errors.TransportException: https://UserName@bitbucket.org/UserName/citest.git: not authorized" error is encountered while committing objects to Git repository from the CLI
- "Login failed for user 'sa'" error is encountered when /user and /password switches are used in the CLI to override settings in the project file

- "Switch '/scusr (/sourcecontrol\_user)' can only be used with a switch '/sctype (/sourcecontrol\_type)'" error is encountered when the /scusr and /scpwd switches are specified with the /project switch
- The application commits data for tables to the source control repository that were only checked in the Structure view
- "Could not load file or assembly 'Newtonsoft.Json, Version=7.0.0.0...' or one of its dependencies. The system cannot find the file specified" error is encountered when the Test or Finish button is clicked once all system logins are provided for Team Foundation Server repository
- The Branch option is wrongly loaded as the /csbr switch in the Save as batch window
- The Create database option is wrongly loaded as the /scr\_create\_d switch in the Save as batch window
- Objects are showed for scripting, even if they were deselected in the Object filter tab after editing the current project
- Incorrect CLI switches are created for the Disable all triggers and constraints and Apply date format options in the Save as batch window
- CLI switch /owner\_type is showed twice in the Save as batch window
- "Bad format of switch: /owner\_map" error is encountered in the CLI after loading the created batch script that contains the Owner mapping option
- Switches /no\_transaction\_handling and /no\_format\_scr\_header are created in the Save as batch window, but cannot be used when the output type is C# solution or Executable installer
- "Bad format of switch: /db\_size" error is encountered in the CLI after loading the created batch script that contains the database size option
- "Bad format of switch: /package\_author" error is encountered in the CLI after loading the created batch script that contains the Author option for the Optional package information
- Missing the back-slash (/) before the /owner\_type switch in the Save as batch window
- "Source control error: Cannot checkin pending changes 'The array must contain at least one element'" error is encountered while committing a database to a Team Foundation Server repository
- "Could not load file or assembly" error is encountered when the Browse button is clicked to select a project for a Git repository hosted by Visual Studio Online
- The /exclude switch is not working when specific object type needs to be excluded
- The excluded schema is not shown in the script even though it was shown and checked in the Include dependent database objects step of the Scripting wizard
- "Could not load file or assembly " error is encountered when the Browse button is clicked to choose project for all source control systems
- "Database is not specified" message is shown in the CLI when exporting CLI help file to HTML
- Wrong alias is used for the project file switch in the CLI
- Missing output types and wrong naming of the existing ones in the CLI
- Missing and wrongly named compatibility levels for the /db\_compatibility\_level CLI switch
- Missing and wrongly named Visual Studio versions for the /vs\_ver CLI switch
- When trying to open a project from the Recent projects option in the New project window nothing happens, even though there is recent project created and present
- Object filter is not filtering the selected objects once the Load button is clicked

- The Setup button in the Source control options of the Script wizard is not working after closing and re-opening the Source control wizard
- The application stops working when the X button is clicked in the main application window after editing the project options
- The application can be uninstalled even when it's running
- The Row filter not shown for the Structure view and its button is under the wrong group in the View tab
- Missing the Default collation and SQL Server version options under the Source control options step of the Script wizard
- Pre and post processing scripts cannot be set both at once
- "Could not load file or assembly 'SharpSvn'" error is encountered when the Browse button is clicked to select project for the Subversion source control repository
- Static data is not committed to source control repository when any source control system is used
- "The version of the selected solution is higher than the solution version supported by this Visual Studio release" message is shown when Visual Studio 2017 version is selected in C# solution options in the Script wizard and the created solution is opened
- Object header and Pre-script options are loaded and checked by default in the Save as batch window even though these were not set in the project
- "Arguments can be combined in output\_elements switch" error is encountered while exporting the CLI help file into HTML
- Wrong CLI switch is used for the output name in the Save as batch window when SQL script is selected as the output type
- Wrong switches are generated and missing switches in the Save as batch window when the Script folder is selected as the output type
- Wrong switches are generated and missing switches in the Save as batch window when the Source control is selected as the output type
- Wrong switches and values are generated and missing switches in the Save as batch window when the C# solution is selected as the output type
- Wrong switches and values are generated and missing switches in the Save as batch window when the Executable installer is selected as the output type
- "The server was not found or was not accessible" error is encountered in continuous loop when loading the project file with saved connection that does not exist any more
- "Enter username and password" message is shown when a project file from the previous major version is loaded that contains saved user name and password for SQL Server authentication
- Structure and data options under the Options tab of the New project window are not saved in the project file and therefore default options are loaded along with the loaded project file
- Previously saved SQL Server credentials in the project file are not loaded along with the project file
- The Save as my defaults button doesn't saves custom options under the Options and Package tabs in the New project window
- Wrong project name is loaded in the Batch script panel when the project file is saved in the Save as batch window
- Wrong default project name is shown when the Save button for the project file is clicked in the Save as batch window

- Project file with a wrong name is saved along with the created batch file
- "File doesn't exist or is of incorrect format" error is encountered when the saved project file is run through the CLI
- "Cannot connect to 'Server.Name'. The target principal name is incorrect" error is encountered when the previously saved project file with Azure SQL Database connection credentials is opened and the Connect button is clicked
- The Save as batch window is closed when the Cancel button is clicked in the Save as window
- Default settings are not correctly checked for the Apply date format under Options tab in the New project window after the application installation
- "Branch name is not allowed" error is encountered while committing objects to a source control repository via the CLI
- SQL output script is created with no data rows when the Where clause option is used to filter rows
- Static data is not committed to a source control repository through the GUI
- Package and Additional tabs, along with Script folder, Source control, C# solution and Executable installer output types are not available in the Evaluation period
- The /output\_name switch is missing in the Batch script panel when executable installer or C# solution are selected as output type
- The Date and Time tags are not formatted correctly in the Save as batch window for the /package\_name switch
- Wrong branch name is set for the /scb switch when Git source control repository is set in the Save as batch window
- Redundant /scf CLI switch is loaded in the Batch script panel when source control is selected as the output type
- Missing quotation marks for the /scr and /scj switches in the Save as batch window when source control is selected as the output type
- Missing value for the /scr switch and missing /scj switch in the Save as batch window when Perforce source control information are loaded
- "Connecting to source control server [localhost:1666] has failed Authentication was failed with message 'ProjectName is a depot, not a client" error is encountered while committing to the Perforce source control repository from the CLI
- "The specified folder does not contain the appropriate folder structure" message is shown when a selected source control project contains the Assemblies folder
- The Include dependent objects step is not shown when the Structure and data scripting mode is selected in the Script wizard
- "Windows logins are not supported in this version of SQL Server" error is encountered when trying to save a Where clause while connected to Azure SQL Database
- "The login is from an untrusted domain and cannot be used with Integrated authentication" error is encountered when trying to save a Where clause while connected to Amazon RDS for SQL Server
- The Compatibility level option is not working in the GUI
- The /db\_compatibility\_level switch is not working when run in the CLI

## Changes:

- The application now requires Microsoft .NET framework 4.7.2
- Save as batch is now Automation script

Release: 2018.01.0333

Date: July 04, 2018

## Enhancements:

- [Visual themes](#)
- [Visual Language Dictionary for Visual Studio for iconography and other imagery concepts applied](#)
- The "Manage Owners" option is added in the New Project form
- CLI switches:
  - /on (/output\_name)
  - /eso (/exclude\_schema\_objects)

## Fixes:

- The Windows taskbar is not shown on mouse hover when the Auto-hide the taskbar option is checked and the application is maximized
- The "Row filter" option is missing under the Structure view
- The executable installer does not check if there is a previous version installed
- The Run executable installer now option is unchecked when the Back button is clicked in the Export batch form
- When adding pattern in the Object filter step of the wizard pattern should become active when checked
- "loading objects failed" error is encountered if no database is selected when initiating Schema mapping or Object filter
- Unresponsive progress forms when connecting data source selecting Schema mapping or Object Folder
- The Create database option cannot be saved as "my defaults" in the connection form under the structure tab
- Missing a prompt dialog whether to uninstall the previous version or cancel the current installation
- Parsing errors keep reoccurring once encountered
- "Automatic updates" options are not checked by the default in the application
- Indicator of excluded objects doesn't respond in the status bar under Data tab
- Indicator of excluded objects doesn't respond in the status bar under Structure tab
- Lack of summary after scripting process
- Missing the Logging option in the Package tab
- The Working folder is redundant as a source control system
- Missing line numbers in the Where clause window
- Unable to execute file in temporary directory Setup is aborted when downloading and installing the application

- "Could not load file or assembly 'Newtonsoft.Json, Version=7.0.0.0...' or one of its dependencies. The system cannot find the file specified" error is encountered when the Test or Finish button is clicked once all system logins are provided for TFS
- Objects still showing for scripting even if they were deselected in the Object filter
- Compatibility level option is not saved in the project
- "Parse error: [Incorrect syntax near 'READ']" error is encountered while parsing the procedure
- Missing the /exclude\_dependent\_objects switch that will exclude objects that depend on the excluded objects specified in the /exclude
- The license file disappears when virtual machine is stopped and then run on Amazon AWS
- "Cannot insert duplicate key in object 'SchemaName.TableName'. The duplicate key value is (0)" error is encountered when executing the generated SQL script to create a trigger after renaming a table and creating a view on which trigger depends on
- Wrong CLI switch is used for the output name in the Save as batch window when SQL script is selected as the output type
- Arguments can be combined in output\_elements switch error is encountered while exporting the CLI help file into HTML
- Wrong switches and values are generated and missing switches in the Save as batch window when the solution is selected as the output type:
  - C#
  - Executable installer
  - Script folder
  - Source control
- The application stops working when the Commit button is clicked with Source control as the Output type without providing source control credentials
- The Create database option cannot be saved as "my defaults" in the connection form the structure tab
- When using dual setup monitor environment application starts on the secondary monitor regardless if it was used on the primary

## Changes:

- The application now requires Microsoft .NET framework 4.7.1
- Windows Vista and Windows Server 2008 are no longer supported
- The /pf switch is changed to /pr CLI switch
- Removed /fl, /in, /fn, /sta, /stc, /stl, /stc1, /stc2 and /stc3 CLI switches