

Export/Import database data between servers

For the purposes of that action, we will use SQL Management Studio and Command Prompt

Export data

- Open SQL Management Studio and connect to the server of the database to export from
- 2. Right-click on the database and select 'Generate Scripts'

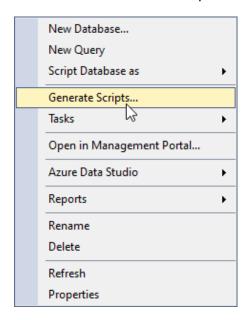


Figure 1. SQL Server Management Studio 18



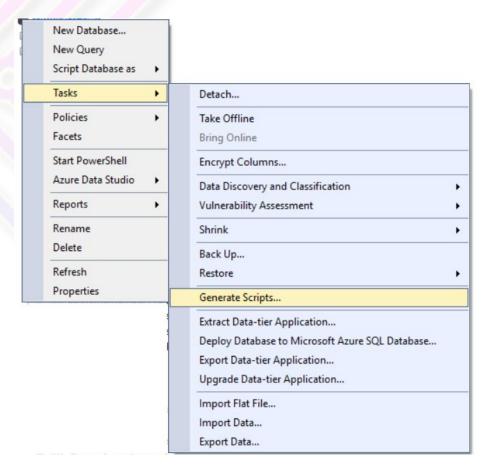


Figure 2. SQL Server Management Studio 19

3. A new window will pop up



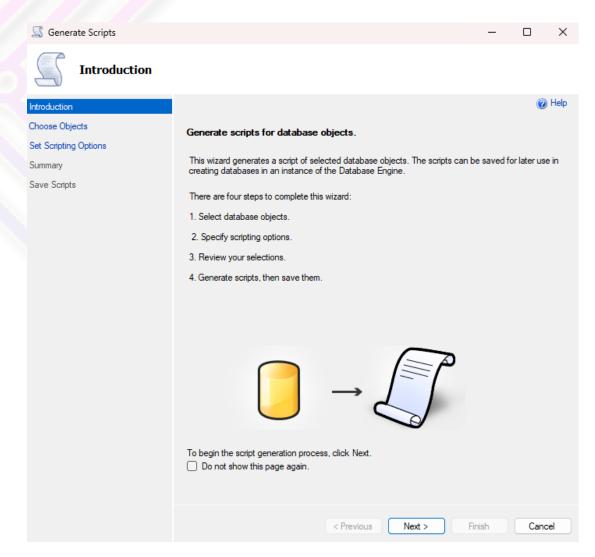


Figure 3. Generate Scripts window

4. By clicking the Next button proceed to step 'Choose Objects' from the wizard and choose 'Select specific database objects'



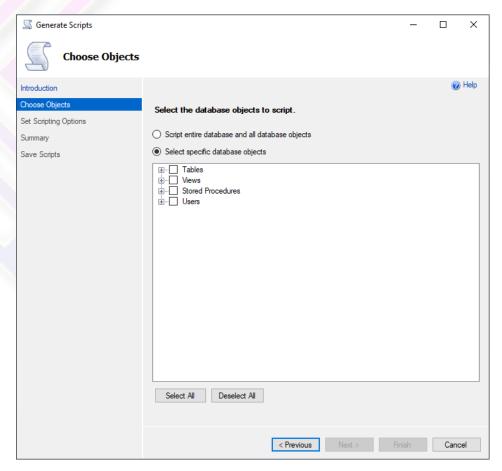


Figure 4. Step 'Choose Objects'



5. Select 'Tables' for which to generate the script and click 'Next' button Generate Scripts Choose Objects Help Introduction Choose Objects Select the database objects to script. Set Scripting Options O Script entire database and all database objects Summary Select specific database objects Save Scripts dbo.cmsContentNu dbo.cmsContentType dbo.cmsContentType2ContentType dbo.cmsContentTypeAllowedContentType dbo.cmsDictionary dbo.cmsDocumentType dbo.cmsLanguageText dbo.cmsMacro dbo.cmsMacroProperty dbo.cmsMember dbo.cmsMember2MemberGroup dbo.cmsMemberType dbo.cmsPropertyType dbo.cmsPropertyTypeGroup dbo.cmsTagRelationship dbo.cmsTags ✓ dbo.cmsTemplate dbo.umbracoAccess dbo.umbracoAccessRule dbo.umbracoAudit dbo.umbracoCacheInstruction . dha umhracaCaneant Select All Deselect All

Figure 5. Select database objects to script

< Previous

Next >

Finish

Cancel



6. From 'Set Scripting Options' step, select the 'Advanced' button

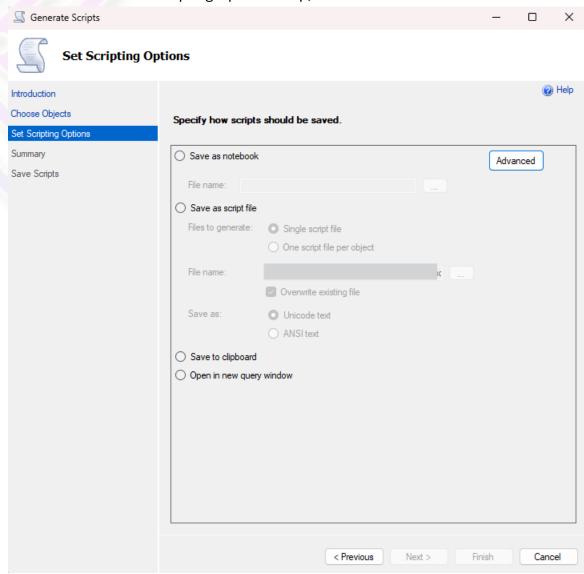


Figure 6. Step 'Set Scripting Options'



7. From the new window search for 'Types of data to script' in the General group of options

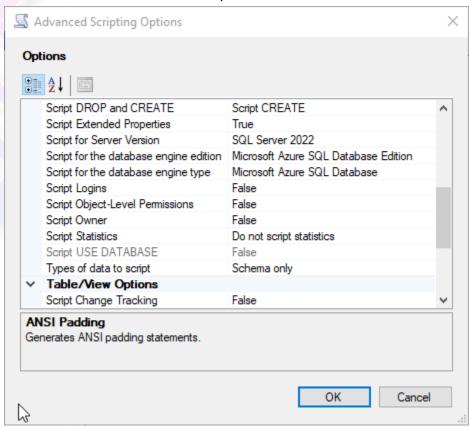


Figure 7. 'Types of data to script'



Advanced Scripting Options Options Script DROP and CREATE Script CREATE Script Extended Properties True Script for Server Version SQL Server 2022 Microsoft Azure SQL Database Edition Script for the database engine edition Script for the database engine type Microsoft Azure SQL Database False Script Logins Script Object-Level Permissions False Script Owner False Script Statistics Do not script statistics Script USE DATABASE False Types of data to script Schema only Table/View Options Data only Script Change Tracking Schema and data Schema only Types of data to script Generates script that contains schema only or schema and data. OK Cancel

8. From the dropdown choose the option depending on your need:

Figure 8. 'Types of data to script' options

- a. 'Schema Only' if the request is only for the tables without any data
- b. 'Schema and data' will generate a script which will include altogether: tables structure and data in each
- c. 'Data Only' if the request is only for the tables data

As a recommendation, create 2 separated scripts for schema and data, for fast importing afterwards



9. After the required type is selected click OK, and return to the 'Set Scripting Options' window from where to select the script to be saved as a script file

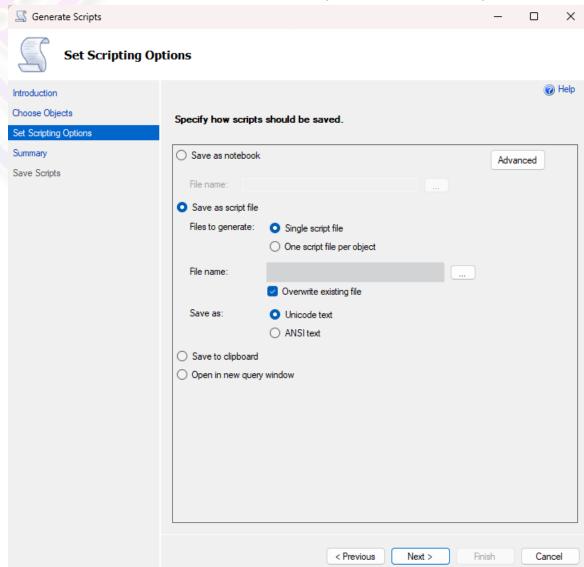


Figure 9. Save a script file

10. Then proceed with the Next button that leads to the Summary step



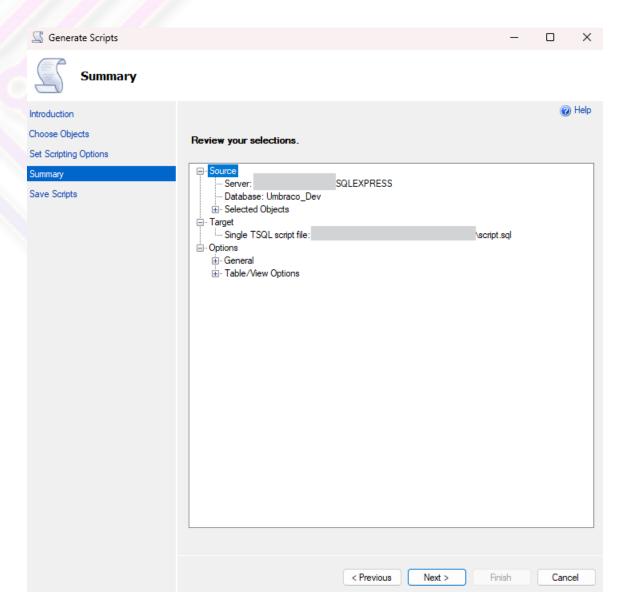


Figure 10. Step 'Summary'



11. If all looks good, again click the 'Next' button until getting to 'Save Scripts' step where the script file is in action to be generated and saved

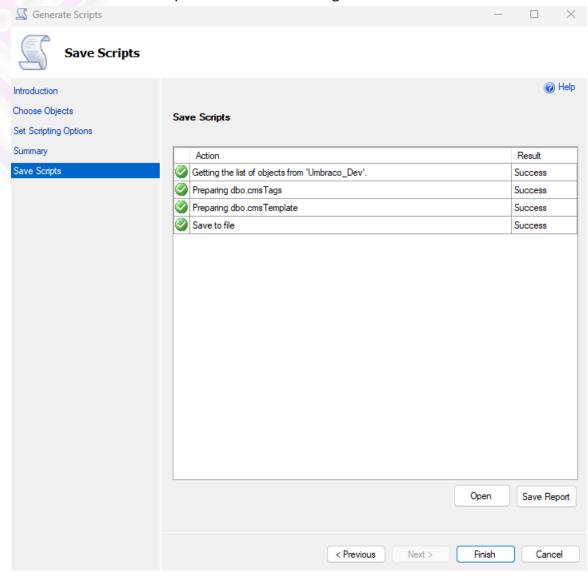


Figure 11. Step 'Save Scripts'

12. Close the window by clicking the 'Finish' button

If you have selected 'Schema only' option from 'Types of data to script' (as in the described case), for fetching the data, follow the same steps since point 1 but change the 'Types of data script' to 'Data only' as explained in point 7



Import data

Here are the steps for importing into the new database when separated script files for scheme and data were generated

- Connect to the new database and open the generated script with the scheme only in the SQL Management studio
- 2. If the new database is not selected, at the beginning of the script add USE statement to reassure that we are creating the tables in the proper Database:

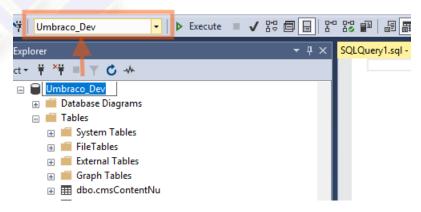


Figure 12. Selected Database

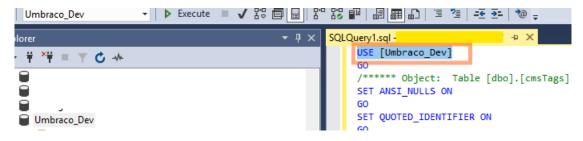


Figure 13. USE statement

- 3. Execute the script. This will create the tables in the new database with all columns
- 4. For importing the data, open Command Prompt from the place where the SQL generated script file is placed
- 5. Run the following command sqlcmd -S <server name> -d <database name> -U <username> -P <paddword> -i <filename.sql>

This is done by CMD because of the big amount of data to be transferred



6. Wait for the command to finish and all is now done