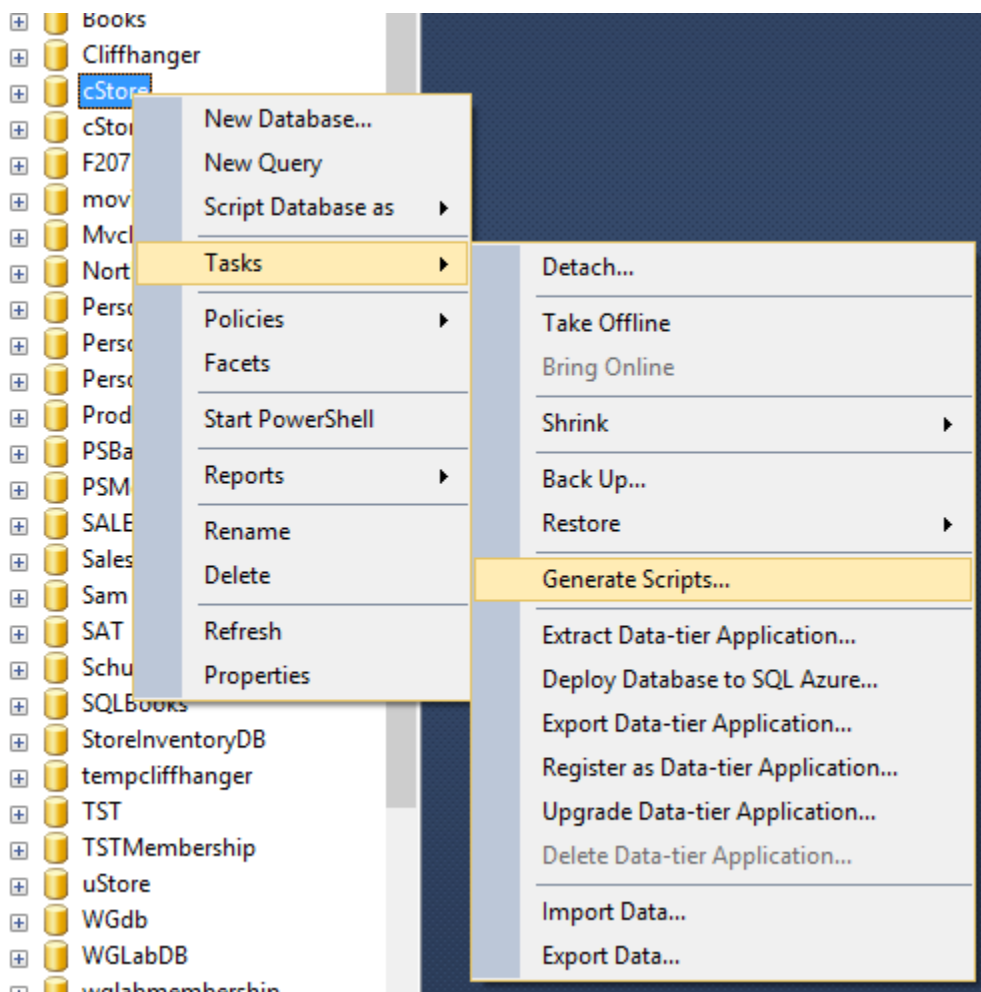
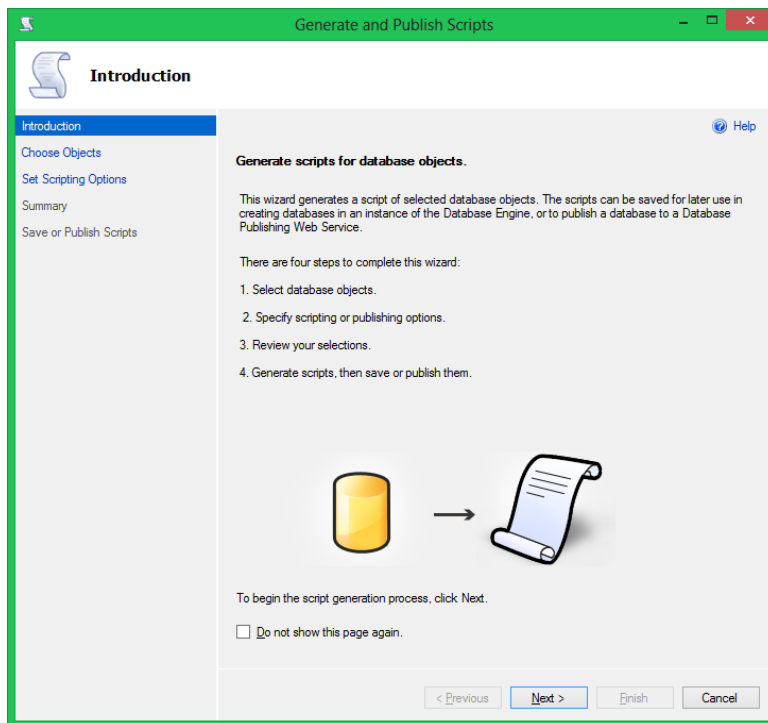


## Database Scripting

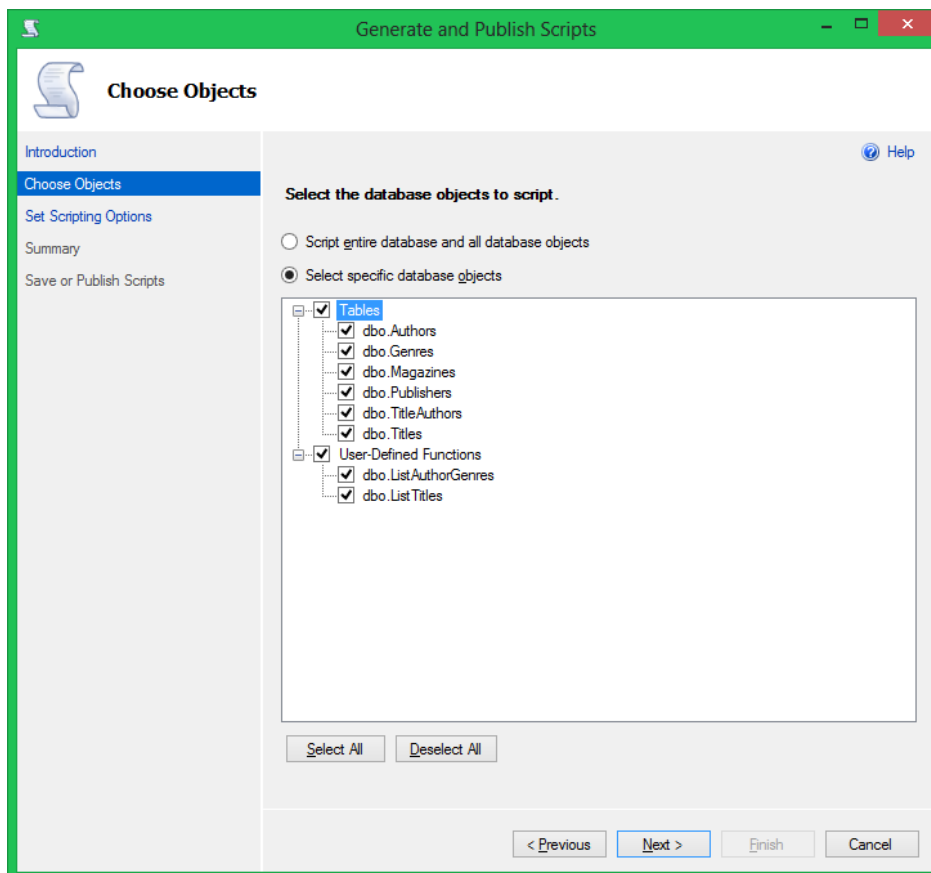
Keeping backups of database information and structure is imperative and can be done easily using SQL Server Management Studio. There are several options when backing up depending on the information you may need to restore at a later date or deploy to a server. First, you can back up DATA ONLY. With this kind of script you can restore all of your data in your DB to a previous state. Second, you can backup the SCHEMA only. This will allow you to recreate table structure, relationships, keys, etc.. but NOT the data within the tables. Third, you can backup BOTH the schema and the data. These options will be listed in the following steps.

1. In SQL Server Management Studio (SSMS), open the Object Explorer → right-click the database you wish to create a backup script for → Tasks → Generate Scripts

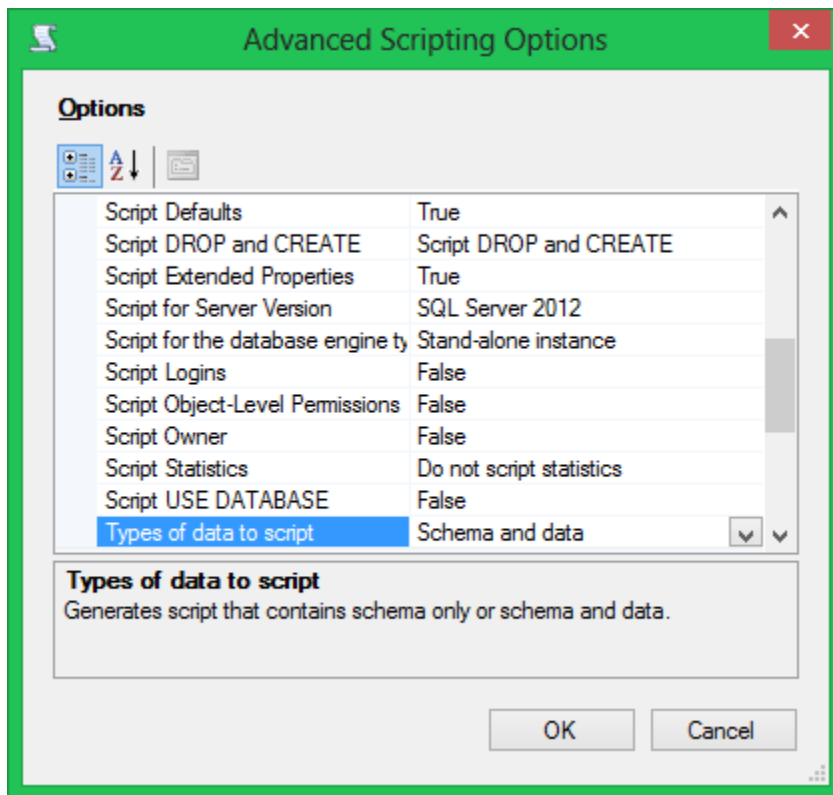




2. At the next wizard screen (above) click Next
3. Choose the DB Objects you wish to generate with the script then click Next



4. Use the three ellipsis next to the File Name field to choose a destination to save this backup .sql file and give it a unique name
5. Click Advanced to choose which type of script and change other scripting options
6. Most of these options can be left at their default values, but there are a few that need to be changed in order to deploy our DB to SmarterASP
  - a. Set **Check for Object Existence** to **True**
  - b. Set **Script DROP and CREATE** to **Script DROP and CREATE**
    - i. This will allow us to overwrite any DB that may already exist
  - c. Set **Script USE DATABASE** to **False**
    - i. The default DB name in SmarterASP will add a prefix, so this using statement would cause an error
  - d. Set **Types of data to script** to **Schema and Data**
    - i. This will allow us to recreate our database structure AND fill it with data



7. Click OK → Next → Next
  - a. If the script generation fails, go back through the steps again