

# How to Create Migration Scripts in The TradingStation DB.

1. Create a folder */Services/DataBaseService/Utils/MigrationScripts/FolderName*, where *FolderName* represents specialties of the current migration. For example, "03.2020" means "March migration".
2. Check if *ConnectionStrings* are correct. Especially, the server name must correspond to your machine's one.
3. Begin creating *id\_Name.sql* scripts in the folder. Prefix indexing (0001...n) is important since the Engine reads files one by one in the default sort order – by filename. The Name must be unique and represent the content of the script. Declare to colleagues that this index was taken to avoid conflicts. PascalCase.
4. In the Visual Studio mark new scripts as *Embedded Resources* (see Properties).
5. Writing scripts:
  - 5.1. It is recommended to use MS SSMStudio to write scripts since it has built-in IntelliSense. If you see something marked by IntelliSense as incorrect, but you are sure everything is fine, try "Ctrl + Shift + R" to refresh it.
  - 5.2. The DB used by default is *TradingStation*, which surely exists – see *MigrationEngine.cs* code for more info. You don't need to write "USE [DBname]" until you need to change the DB you work with.
  - 5.3. It is recommended to create one script for one task. For example, do not write several "CREATE TABLE" commands in one .sql file.
  - 5.4. The scheme used by the DB is [dbo].
  - 5.5. Creations, altering, stored procedures and so on are allowed. Make sure to initialize the table or the procedure before using (in other words, let its script filename have smaller id).
  - 5.6. It is important to wrap table, procedure, DB names into the "[...]" square brackets. Otherwise, scripts may fail for some reason.
  - 5.7. It is recommended to write easy-to-read scripts with alignment and indentation. Please note: all the executed code is stored in the [\_\_ExecutedScripts] table for a future investigation when needed.
6. All the Embedded scripts (step 4) will be executed on the next *DataBaseService* (or the solution) startup.