***Deadline*: week 9 → monday 16:40**

Description:

Sometimes, after you design a database, you need to change its structure. Unfortunately, changes aren't correct every time, so they must be reverted. Your task is to create a versioning mechanism that allows you to easily switch between database versions.

Task:

Write SQL scripts that:

a. modify the type of a column

b. add / remove a column

c. add / remove a DEFAULT constraint

d. add / remove a primary key

e. add / remove a candidate key

f. add / remove a foreign key

g. create / drop a table

For each of the scripts above, write another one that reverts the operation. Place each script in a stored procedure. Use a simple, intuitive naming convention.

Create a new table that holds the current version of the database schema. Simplifying assumption: the version is an integer number.

Write a stored procedure that receives as a parameter a version number and brings the database to that version.

Useful references:

▼ T-SQL

- DECLARE, SET, BEGIN…END http://msdn.microsoft.com/en-us/library/ms188927.aspxhttp://msdn.microsoft.com/en-us/library/ms189484.aspxhttp://msdn.microsoft.com/en-us/library/ms190487.aspx
- WHILE http://msdn.microsoft.com/en-us/library/ms178642.aspx
- sp_executesql http://msdn.microsoft.com/en-us/library/ms188001.aspx

▼ Stored Procedures

http://msdn.microsoft.com/en-us/library/ms190782.aspx

▼ SQL Server technical documentation

https://docs.microsoft.com/en-us/sql/sql-server/sql-server-technical-documentation