Homework: Introduction to MSSQL Server

This document defines the homework assignments from the ["Databases" Course @ Software University](). Please submit as homework a single **zip** / **rar** / **7z** archive holding the solutions (source code) of all below described problems.

Problem 1.   Download and install SQL Server (Express or Developer edition)

Download and install SQL Server. Don't forget to install SQL Server Management Studio. Do not install unneeded features of SQL Server.

You do not have to submit anything in your homework for this problem.

Problem 2.   Connect to the SQL Server with SSMS

Your task is to connect to SQL Server instance on your machine using windows authentication.

You do not have to submit anything in your homework for this problem.

Problem 3.   Create a new server account

Your task is to create a new SQL Server account. You can follow the steps from the presentation. Try to connect to the SQL Server instance with your created account.

You do not have to submit anything in your homework for this problem.

Problem 4.   Create a new database

Create a new database **School** and give permissions for the database to your new account from the previous task. Add a few tables to the database: **Students (Name, Age, PhoneNumber)**, **Classes (Name, MaxStudents)**. Add columns for the tables. Populate the tables with random content.

You should submit a screenshot of your database diagram or tables as a part of your homework.

Problem 5.   Backup database

Backup the database **School** from the previous task into a file named "**school-backup.bak**". Delete your database from SQL Server Management Studio. Then restore the database from the created backup.

You should submit the database backup file as a part of your homework.

Problem 6.   Generate SQL script

Generate SQL script from the School database. View the script file and try to understand different commands. Execute the script.

You should submit the SQL scripts as a part of your homework.