Lab: Database Basics MySQL Queries

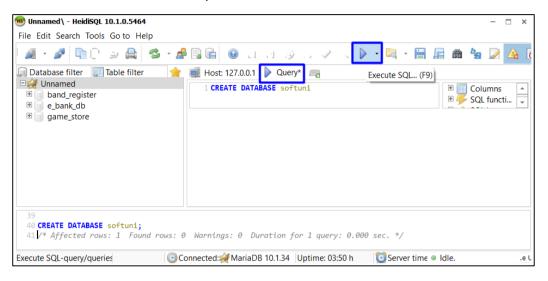
Problems for exercises and homework for the "Programming Fundamentals" course @ SoftUni.

Submit your solutions (source code) of all below described problems in the Judge.

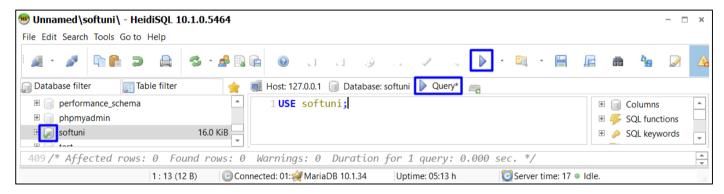
O. Create New Database

First start **HeidiSQL**. Then write a query that will create the "**softuni**" database.

Queries are written in the "Query" tab:



When we create a database, we specify the database we want to use. This is done by using the "USE" clause:



1. Create Table

Submit your solutions in JUDGE without the "USE {database name}" row:

Using **HeidiSQL** in database **"softuni"** create table **"students"**. You should specify five columns:

- Name: id, Datatype: INT, Autoincrement, Primary Key
- Name: first_name, Datatype: VARCHAR, Max Length: 50, Allow NULL: true
- Name: last_name, Datatype: VARCHAR, Max Length: 50, Allow NULL: true
- Name: age, Datatype: INT, Allow NULL: true
- Name grade, Datatype: DOUBLE, Allow NULL: true















2. Insert Data

Insert 6 recordings in the "students" table.

Example

Id	first_name	last_name	age	grade
1	Guy	Gilbert	15	4.5
2	Kevin	Brown	17	5.4
3	Roberto	Tamburello	19	6
4	Linda	Smith	18	5
5	John	Stones	16	4.25
6	Nicole	Nelson	17	5.50

3. Find All Records

Write a query to find all records.

4. Find Last Name, Age and Grade

Write a query to find the last name, age, and grade of each student.

last_name	age	grade
Gilbert	15	4.5
Brown	17	5.4
Tamburello	19	6
Smith	18	5
Stones	16	4.25
Nelson	17	5.50

5. Find First 5 Records

Write a query to find the first 5 records.

Id	first_name	last_name	age	grade
1	Guy	Gilbert	15	4.5
2	Kevin	Brown	17	5.4
3	Roberto	Tamburello	19	6
4	Linda	Smith	18	5
5	John	Stones	16	4.25

6. Find First 5 Last Name and Grade

Write a query to find the top 5 records. Select only last name and grade.













last_name	grade		
Gilbert	4.5		
Brown	5.4		
Tamburello	6		
Smith	5		
Stones	4.25		

7. Truncate Table

Remove all records in "students" table.

8. Drop Table

Drop table "students".

9. Drop Database

Drop database "softuni".















