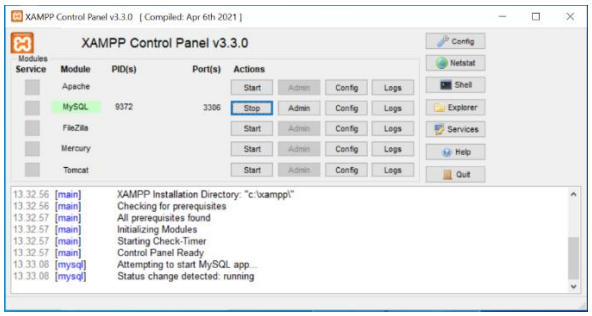
Web-julkaisujärjestelmät: Harjoitukset 1

Yhteensä 16/16pistettä:

Task- 1 8/8 pistettä

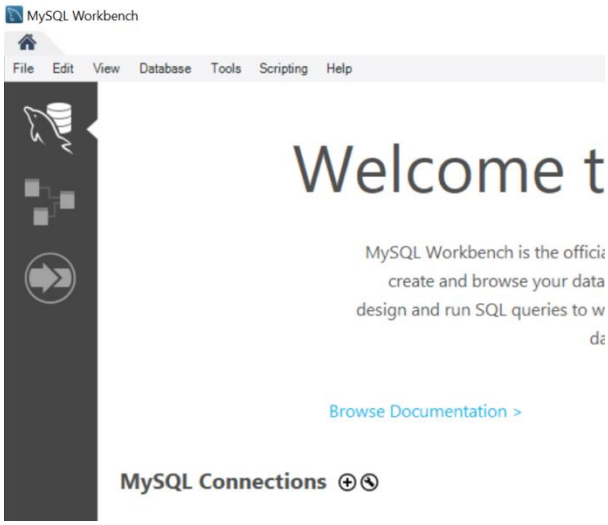
1) **XAMPP installation**
   According to the course instruction I downloaded and installed XAMPP, everything event smooth and running smooth with port 3306



2) **MY SQL Workbench INSTALLATION**

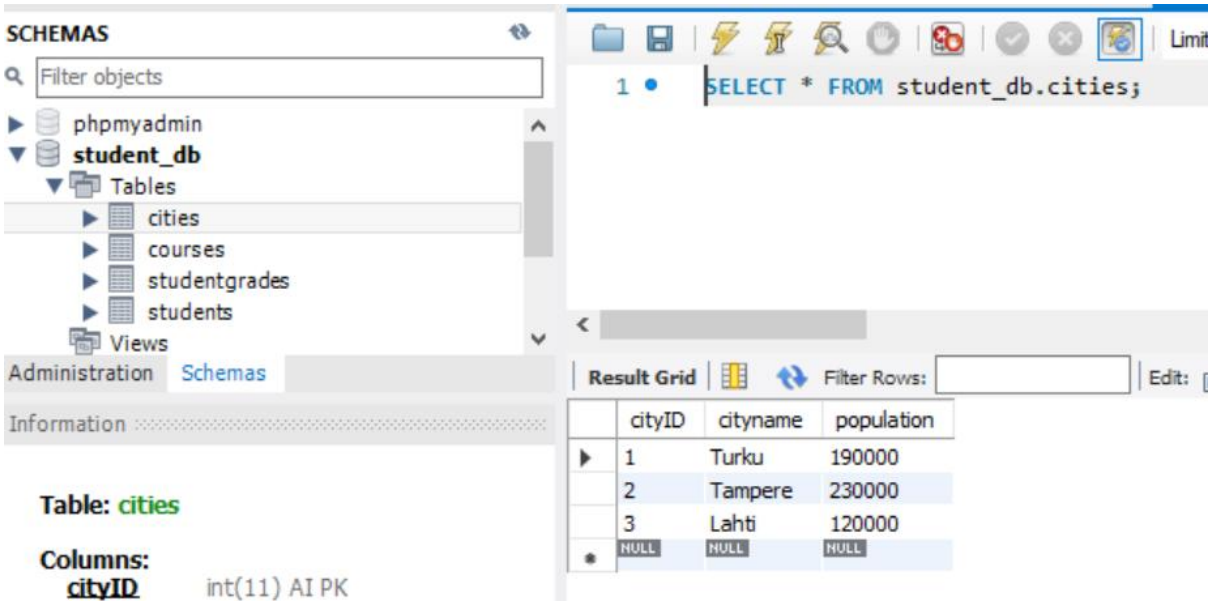
- Downloaded the latest version of workbench using this(link: https://dev.mysql.com/downloads/workbench/) click the marked in the image.

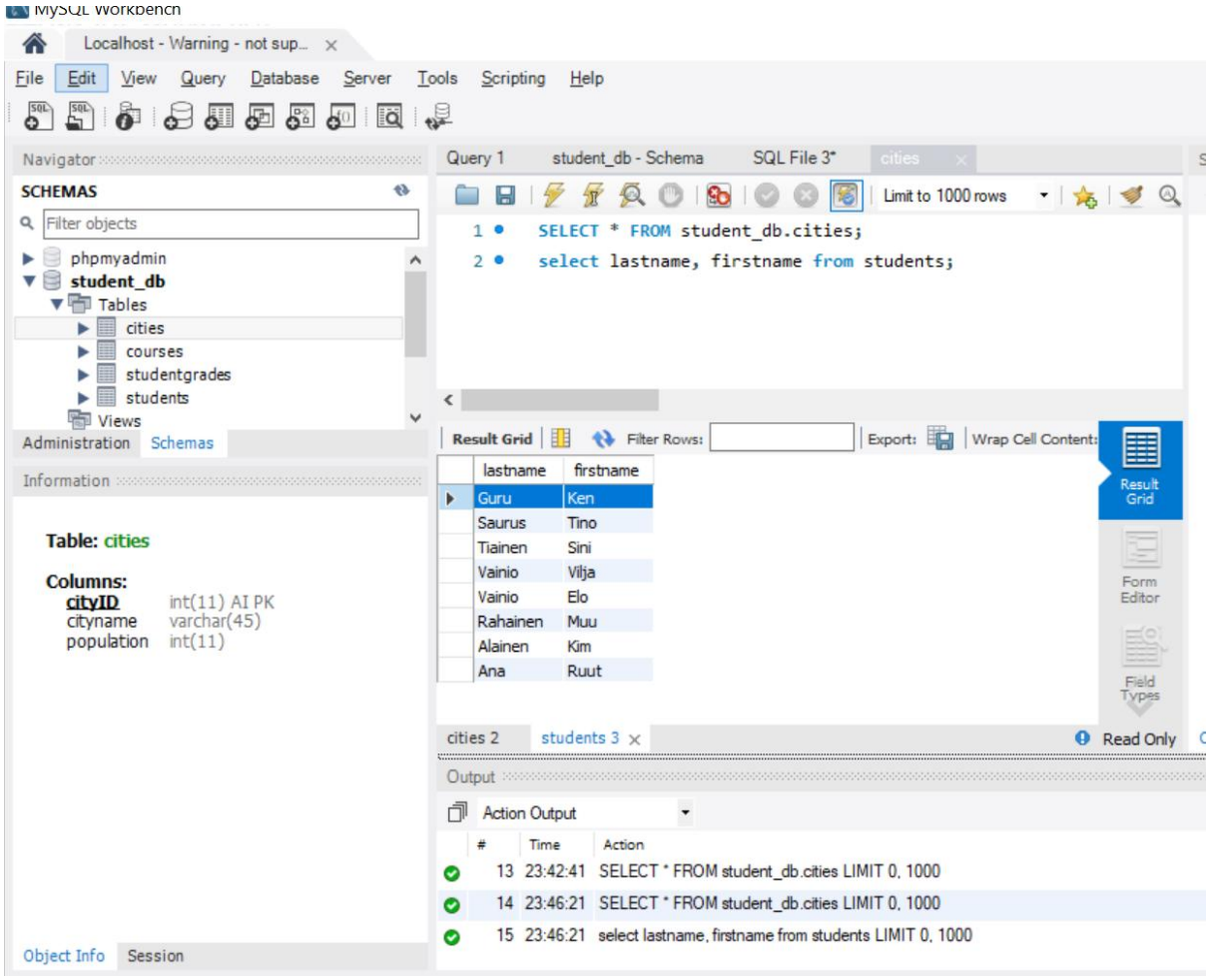
- After installation MySQL Workbench tool is shown like below



In the MYSQL workbench I created a new connection with the username root and then created a new Database student_db according to the instuction in the course.

Selected the desired database (student_db) as a default schema and created a new SQL tab for executing queries. The results are shown below image.

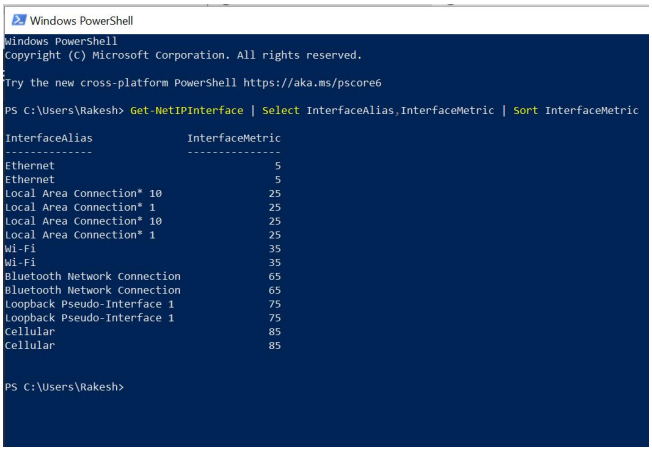




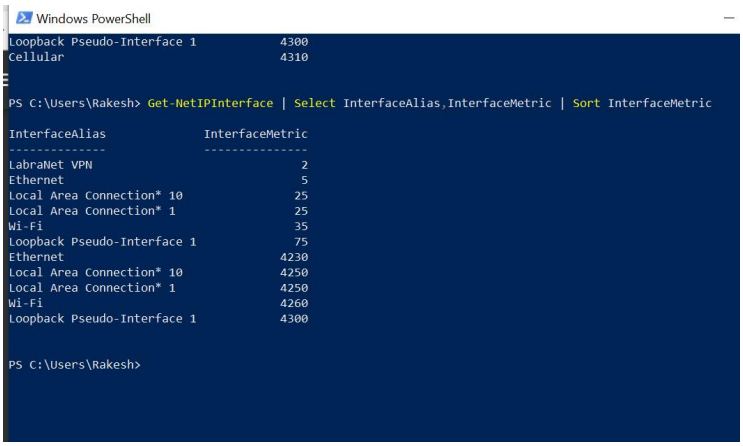
Task- 2 8/8 scores

1. VPN connection -Labranet database

- using Labranet's databases, we can avoid having to set up our own database server and our databases are available everywhere. For this VPN connection is done using the instruction mentioned in the https://student.labranet.jamk.fi/
- Added the VPN connection and followed the procedure given in the instruction, some of the images provided below are few steps observed

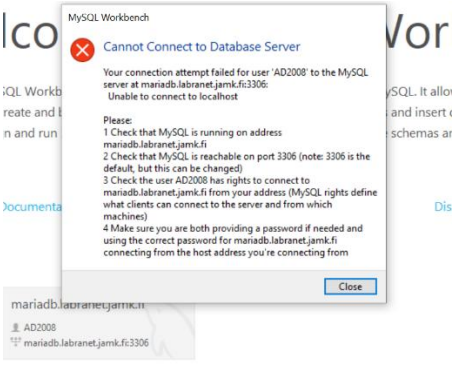


- LabraNet VPN is the first connection listed with the lowest InterfaceMetric value thus having the highest priority this is observed. It is the mandatory requirement for the VPN connection

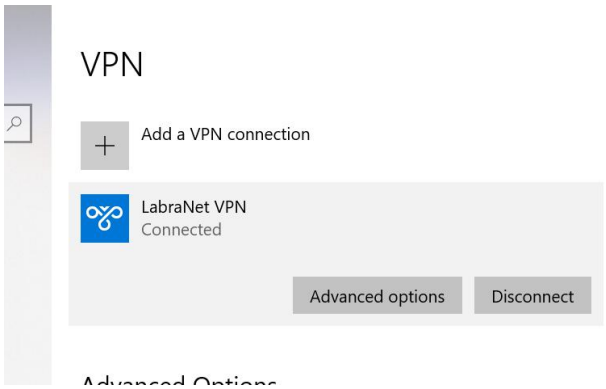


1. Creation of MariaDB

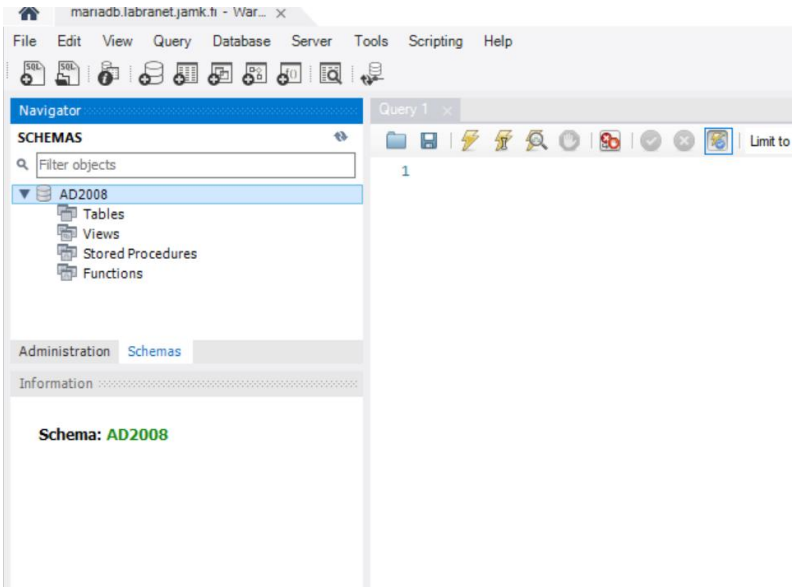
To create a MariaDB ID and password followed the given instruction in the course material and created a new connection in the MYSQL workbench. I observed cannot connect to Database server as shown below.



So I checked the VPN Connection (In windows search bar selected the VPN settings) when I click the connect VPN then the error was solved.



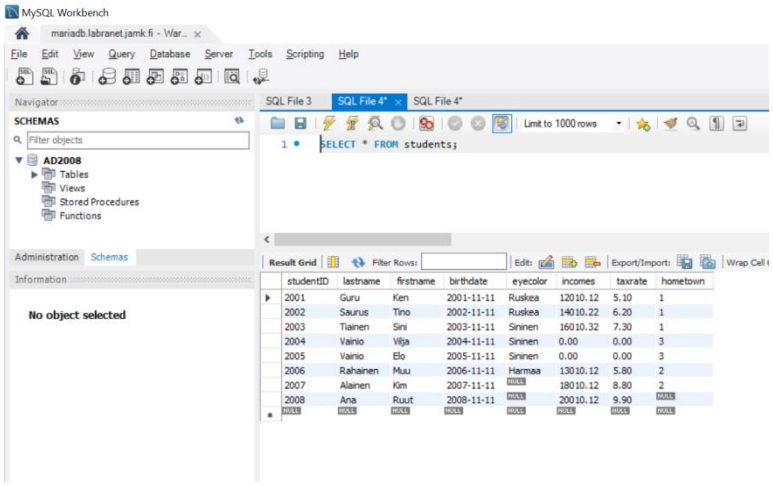
This below image shows the new connection created with the new database

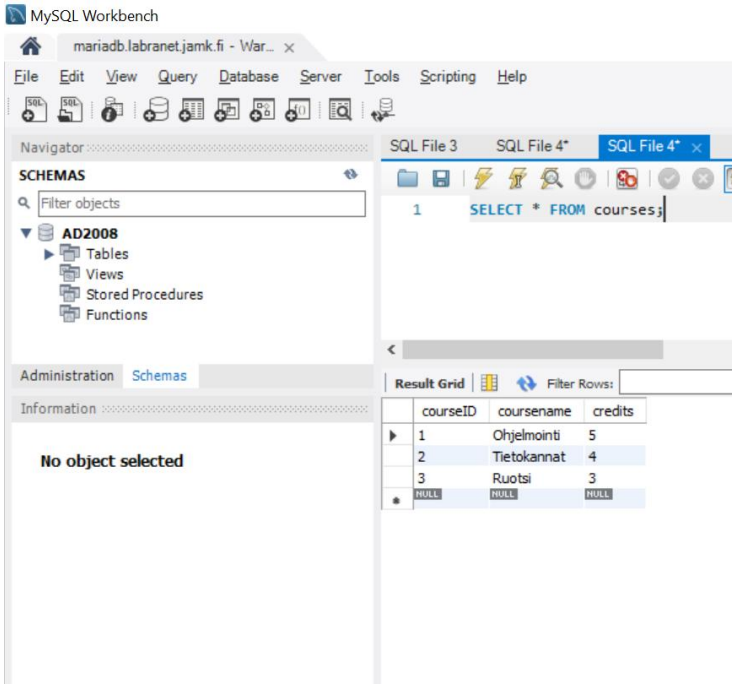


- The following SQL queries run in MariaDB(MYSQL workbench)

```
SELECT * FROM students;
SELECT * FROM courses;
```

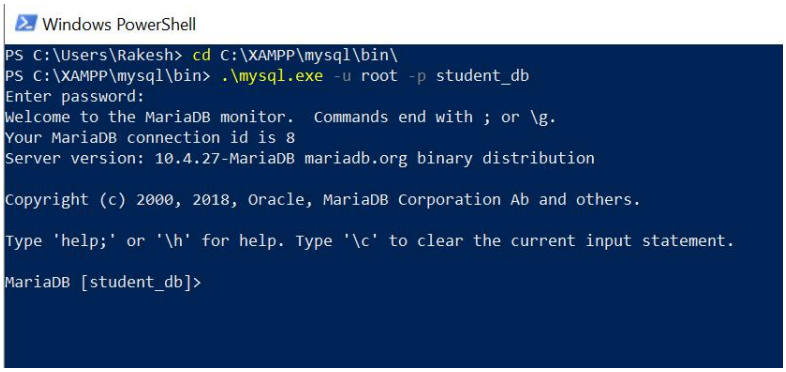
Results

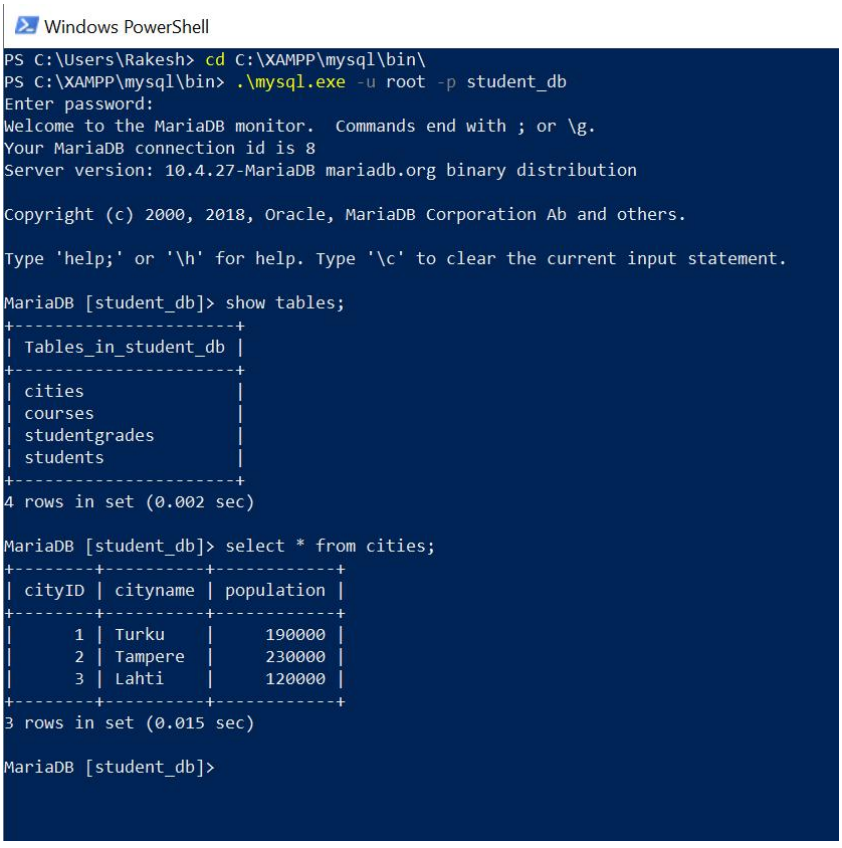




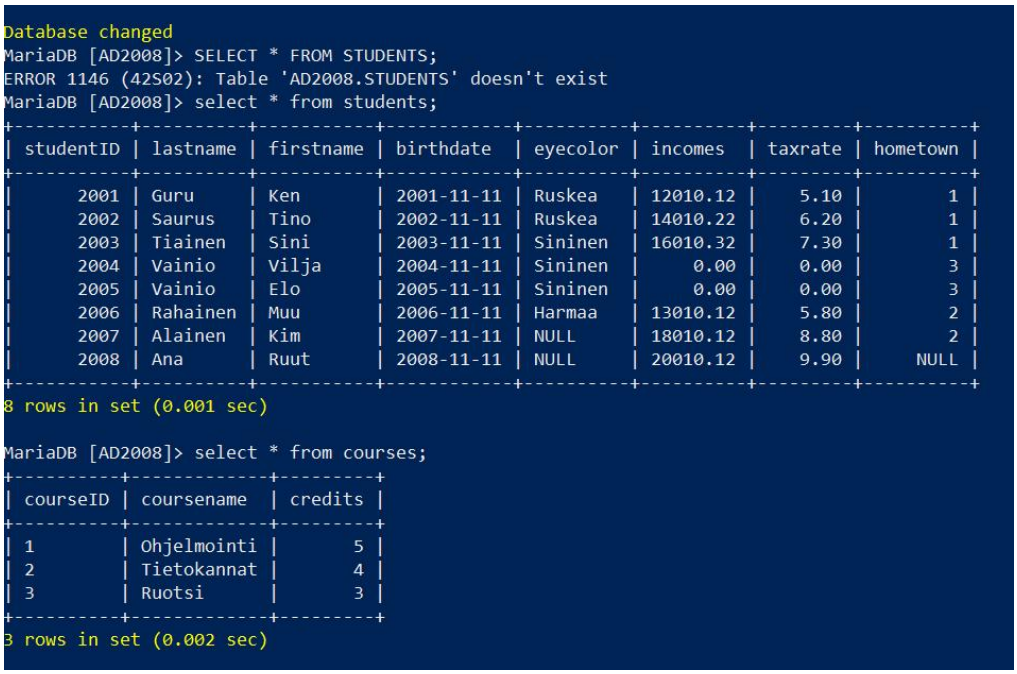
MySQL command line tool for Windows

Changed working directory in the powershell and connected to student_db database


Windows PowerShell
PS C:\Users\Rakesh> cd C:\XAMPP\mysql\bin\
PS C:\XAMPP\mysql\bin> .\mysql.exe -u root -p student_db
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 8
Server version: 10.4.27-MariaDB mariadb.org binary distribution
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [student_db]>


Windows PowerShell
PS C:\Users\Rakesh> cd C:\XAMPP\mysql\bin\
PS C:\XAMPP\mysql\bin> .\mysql.exe -u root -p student_db
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 8
Server version: 10.4.27-MariaDB mariadb.org binary distribution
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [student_db]> show tables;
+----------------------+
| Tables_in_student_db |
+----------------------+
| cities |
| courses |
| studentgrades |
| students |
+----------------------+
4 rows in set (0.002 sec)
MariaDB [student_db]> select * from cities;
+--------+----------+------------+
| cityID | cityname | population |
+--------+----------+------------+
1	Turku	190000
2	Tampere	230000
3	Lahti	120000
+--------+----------+------------+
3 rows in set (0.015 sec)
MariaDB [student_db]>

With same above queires run in the powershell and the the results are in the following screen shot.



```
Database changed
MariaDB [AD2008]> SELECT * FROM STUDENTS;
ERROR 1146 (42S02): Table 'AD2008.STUDENTS' doesn't exist
MariaDB [AD2008]> select * from students;
+-----------+----------+-----------+------------+----------+----------+---------+----------+
| studentID | lastname | firstname | birthdate  | eyecolor | incomes  | taxrate | hometown |
+-----------+----------+-----------+------------+----------+----------+---------+----------+
|      2001 | Guru     | Ken       | 2001-11-11 | Ruskea   | 12010.12 |    5.10 |        1 |
|      2002 | Saurus   | Tino      | 2002-11-11 | Ruskea   | 14010.22 |    6.20 |        1 |
|      2003 | Tiainen  | Sini      | 2003-11-11 | Sininen  | 16010.32 |    7.30 |        1 |
|      2004 | Vainio   | Vilja     | 2004-11-11 | Sininen  |     0.00 |    0.00 |        3 |
|      2005 | Vainio   | Elo       | 2005-11-11 | Sininen  |     0.00 |    0.00 |        3 |
|      2006 | Rahainen | Muu       | 2006-11-11 | Harmaa   | 13010.12 |    5.80 |        2 |
|      2007 | Alainen  | Kim       | 2007-11-11 | NULL     | 18010.12 |    8.80 |        2 |
|      2008 | Ana      | Ruut      | 2008-11-11 | NULL     | 20010.12 |    9.90 |     NULL |
+-----------+----------+-----------+------------+----------+----------+---------+----------+
8 rows in set (0.001 sec)

MariaDB [AD2008]> select * from courses;
+----------+-------------+---------+
| courseID | coursename  | credits |
+----------+-------------+---------+
| 1        | Ohjelmointi |       5 |
| 2        | Tietokannat |       4 |
| 3        | Ruotsi      |       3 |
+----------+-------------+---------+
3 rows in set (0.002 sec)
```