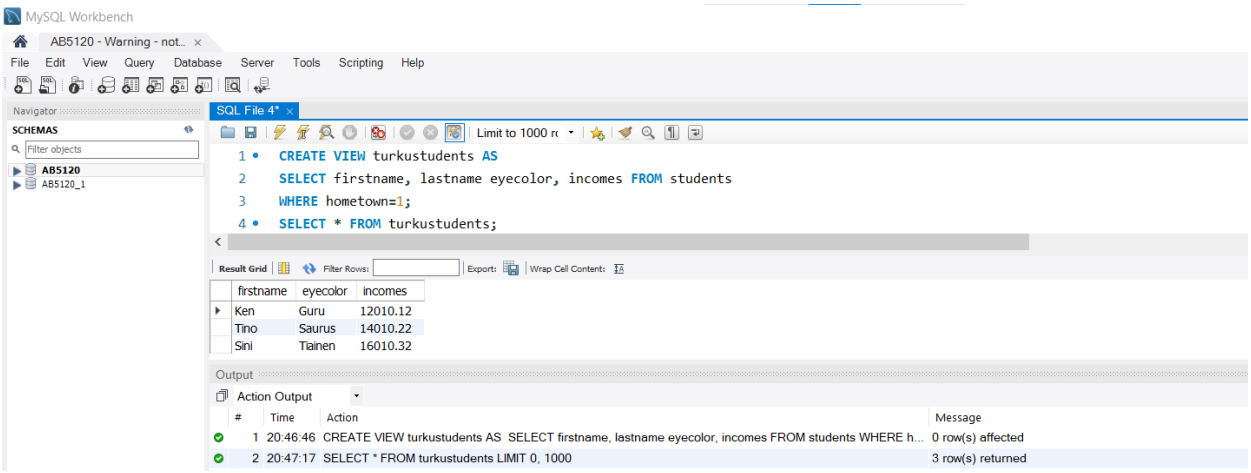
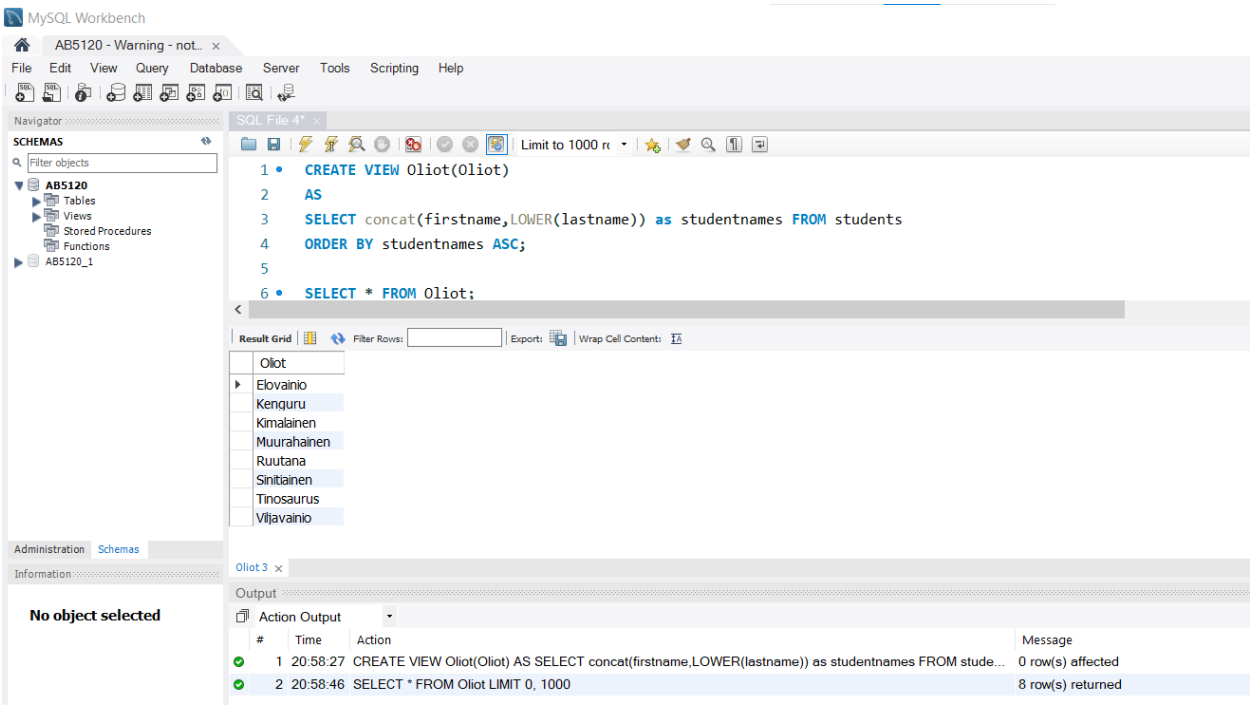
HARJOITUS 7

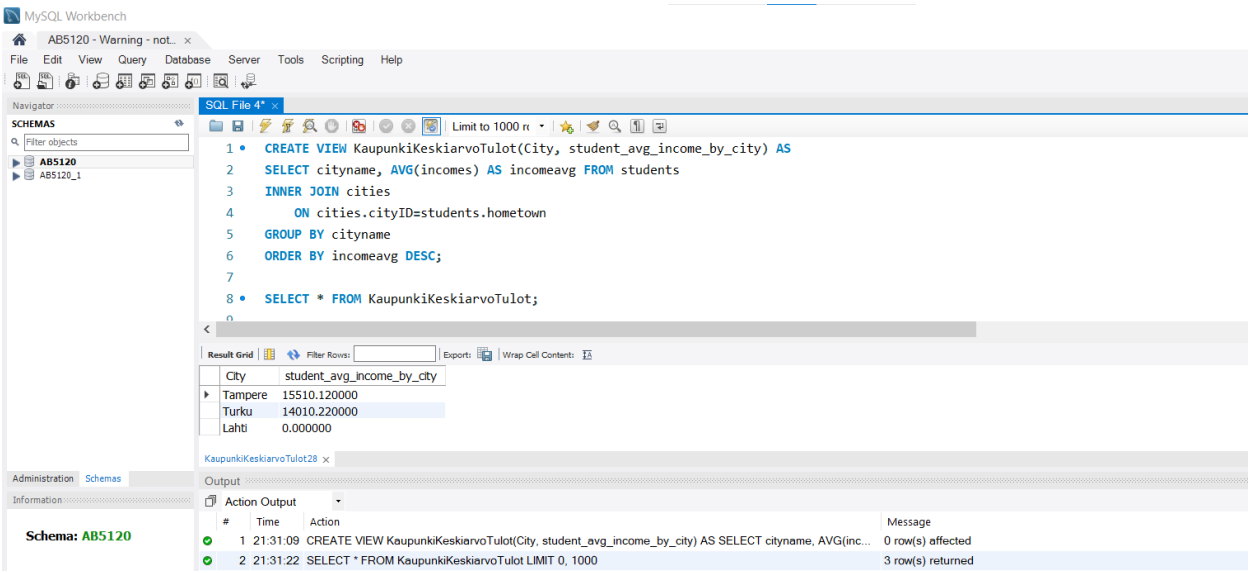
7_1_A



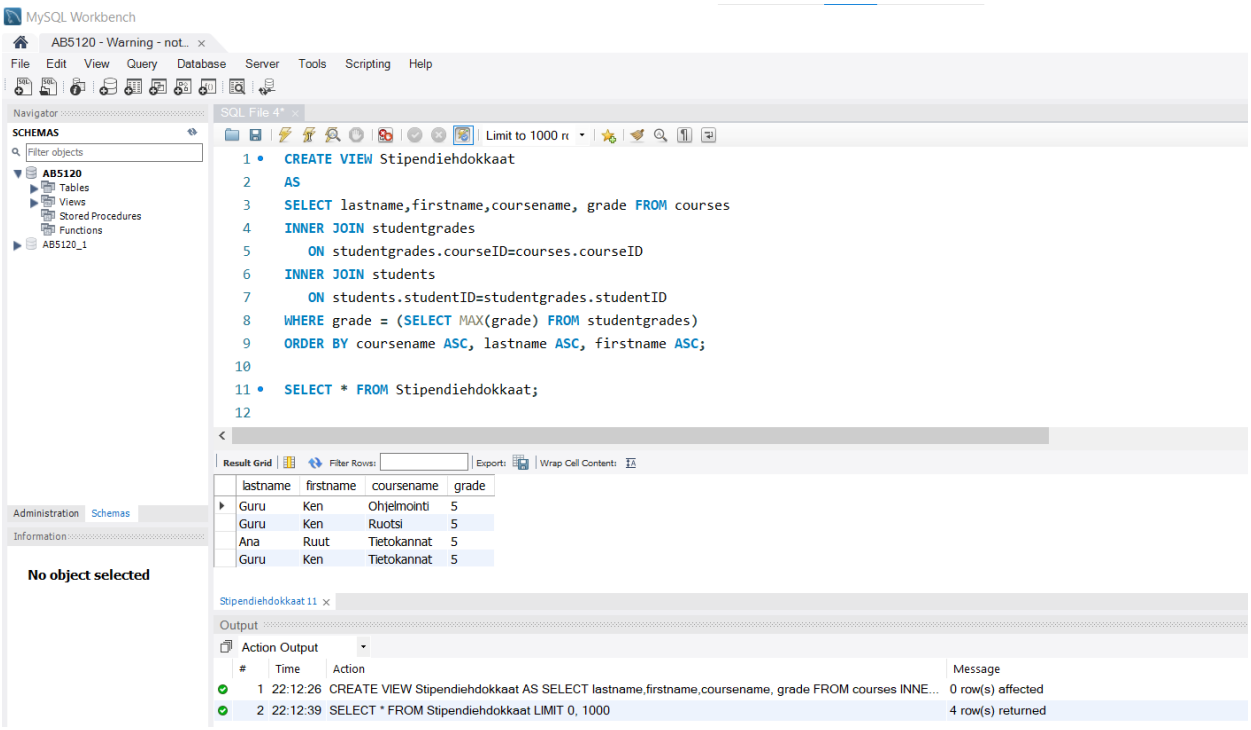
7_1_B



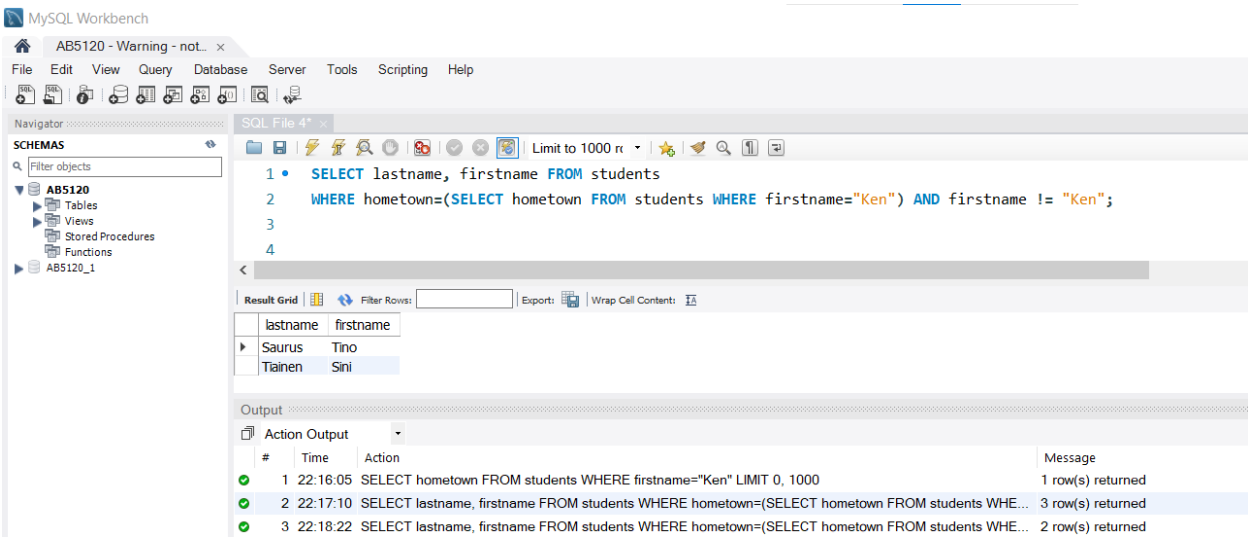
7_2_A


MySQL Workbench
AB5120 - Warning - not..
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
AB5120
AB5120_1
SQL File 4*
Limit to 1000 r
1 • CREATE VIEW KaupunkiKeskiarvoTulot(City, student_avg_income_by_city) AS
2 SELECT cityname, AVG(incomes) AS incomeavg FROM students
3 INNER JOIN cities
4 ON cities.cityID=students.hometown
5 GROUP BY cityname
6 ORDER BY incomeavg DESC;
7
8 • SELECT * FROM KaupunkiKeskiarvoTulot;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
City
student_avg_income_by_city
Tampere 15510.120000
Turku 14010.220000
Lahti 0.000000
KaupunkiKeskiarvoTulot28
Administration Schemas
Information
Schema: AB5120
Output
Action Output
Time Action Message
1 21:31:09 CREATE VIEW KaupunkiKeskiarvoTulot(City, student_avg_income_by_city) AS SELECT cityname, AVG(inc... 0 row(s) affected
2 21:31:22 SELECT * FROM KaupunkiKeskiarvoTulot LIMIT 0, 1000 3 row(s) returned

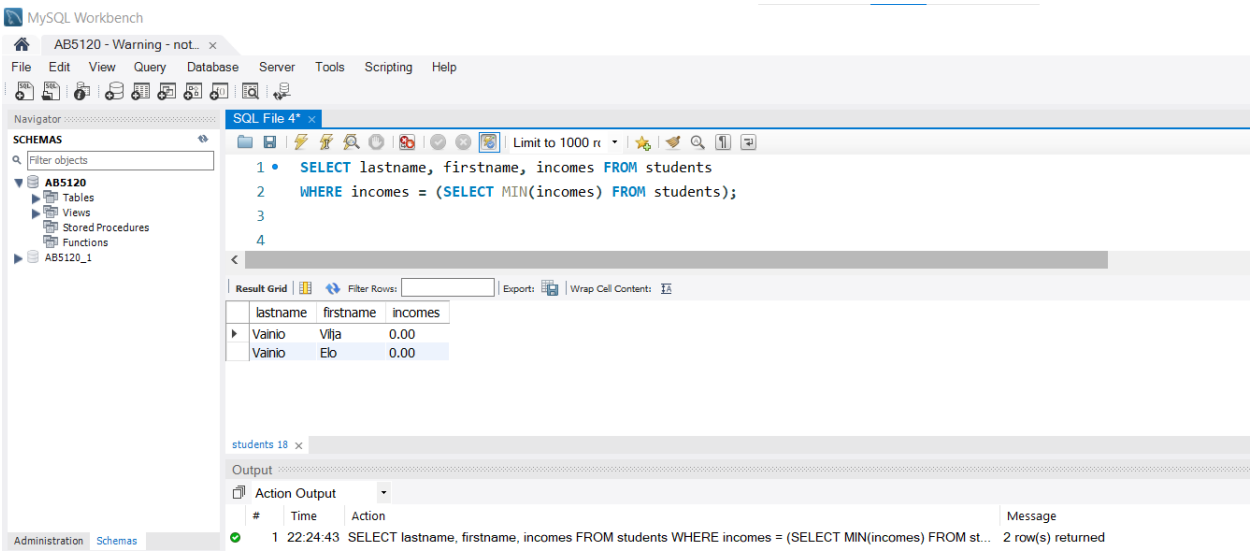
7_2_B


MySQL Workbench
AB5120 - Warning - not..
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
AB5120
Tables
Views
Stored Procedures
Functions
AB5120_1
SQL File 4*
Limit to 1000 r
1 • CREATE VIEW Stipendiehdokkaat
2 AS
3 SELECT lastname,firstname,coursename, grade FROM courses
4 INNER JOIN studentgrades
5 ON studentgrades.courseID=courses.courseID
6 INNER JOIN students
7 ON students.studentID=studentgrades.studentID
8 WHERE grade = (SELECT MAX(grade) FROM studentgrades)
9 ORDER BY coursename ASC, lastname ASC, firstname ASC;
10
11 • SELECT * FROM Stipendiehdokkaat;
12
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
lastname firstname coursename grade
Guru Ken Ohjelmointi 5
Guru Ken Ruotsi 5
Ana Ruut Tietokannat 5
Guru Ken Tietokannat 5
Administration Schemas
Information
No object selected
Stipendiehdokkaat 11
Output
Action Output
Time Action Message
1 22:12:26 CREATE VIEW Stipendiehdokkaat AS SELECT lastname,firstname,coursename, grade FROM courses INNE... 0 row(s) affected
2 22:12:39 SELECT * FROM Stipendiehdokkaat LIMIT 0, 1000 4 row(s) returned

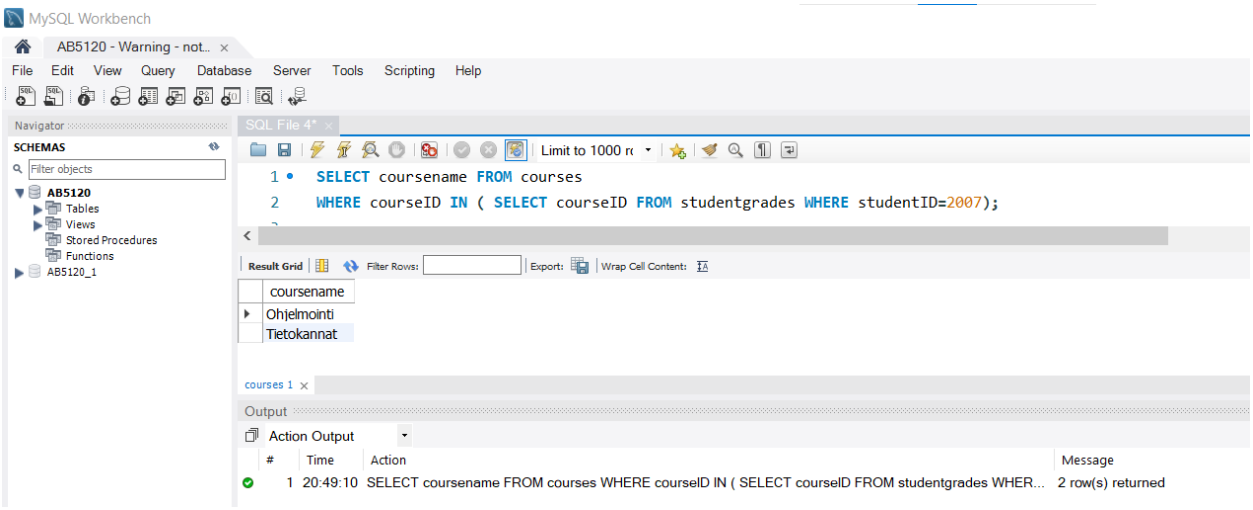
7_3_A


MySQL Workbench
AB5120 - Warning - not...
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
AB5120
Tables
Views
Stored Procedures
Functions
AB5120_1
SQL File 4*
Limit to 1000 r
1 • SELECT lastname, firstname FROM students
2 WHERE hometown=(SELECT hometown FROM students WHERE firstname="Ken") AND firstname != "Ken";
3
4
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
lastname firstname
Saurus Tino
Tiainen Sini
Output
Action Output
Time Action Message
1 22:16:05 SELECT hometown FROM students WHERE firstname="Ken" LIMIT 0, 1000 1 row(s) returned
2 22:17:10 SELECT lastname, firstname FROM students WHERE hometown=(SELECT hometown FROM students WHE... 3 row(s) returned
3 22:18:22 SELECT lastname, firstname FROM students WHERE hometown=(SELECT hometown FROM students WHE... 2 row(s) returned

7_3_B


MySQL Workbench
AB5120 - Warning - not...
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
AB5120
Tables
Views
Stored Procedures
Functions
AB5120_1
SQL File 4*
Limit to 1000 r
1 • SELECT lastname, firstname, incomes FROM students
2 WHERE incomes = (SELECT MIN(incomes) FROM students);
3
4
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
lastname firstname incomes
Vainio Vilja 0.00
Vainio Elo 0.00
students 18
Output
Action Output
Time Action Message
1 22:24:43 SELECT lastname, firstname, incomes FROM students WHERE incomes = (SELECT MIN(incomes) FROM st... 2 row(s) returned
Administration Schemas

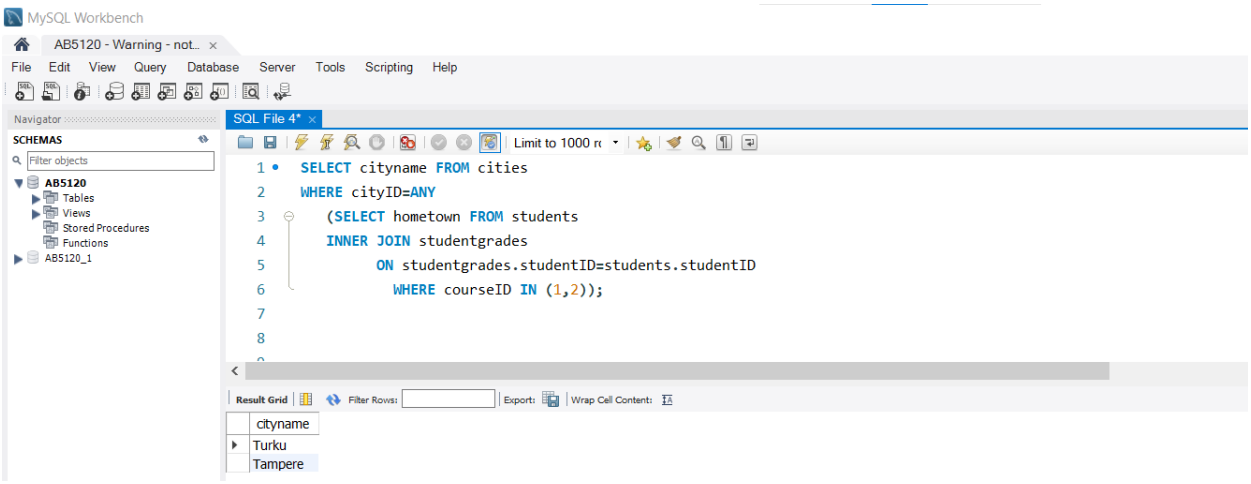
7_3_C



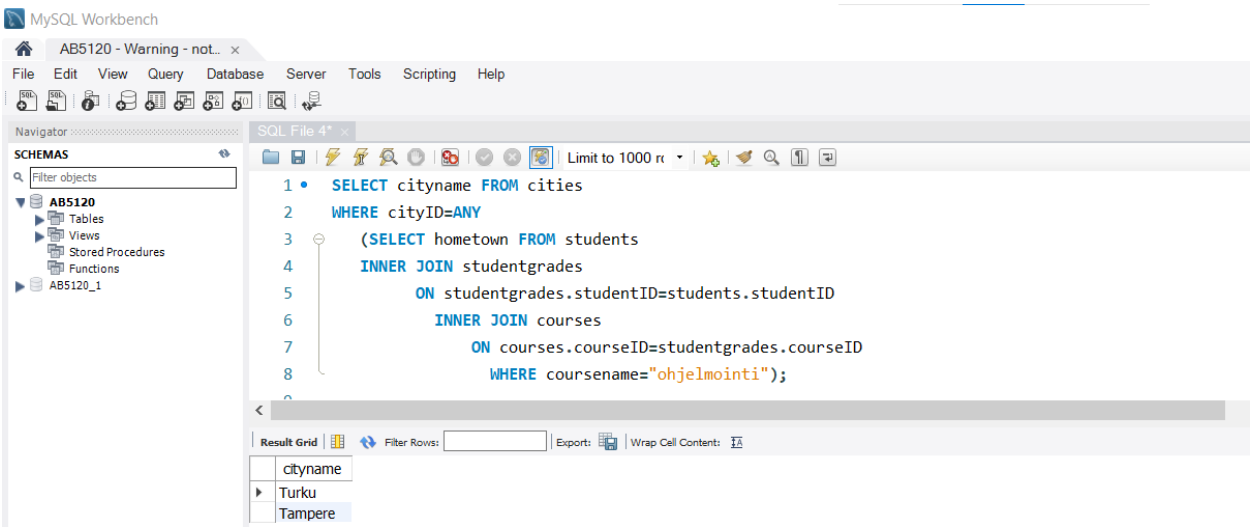
7_4_A

I have two solutions here because I was not sure whether I understood the question well!

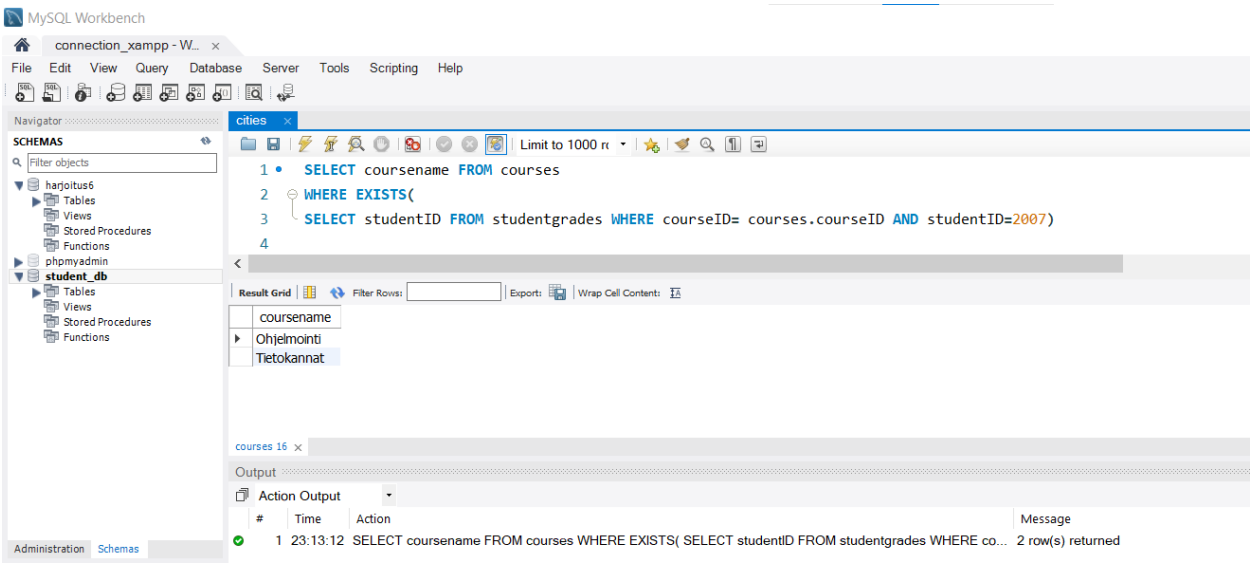
Solution 1



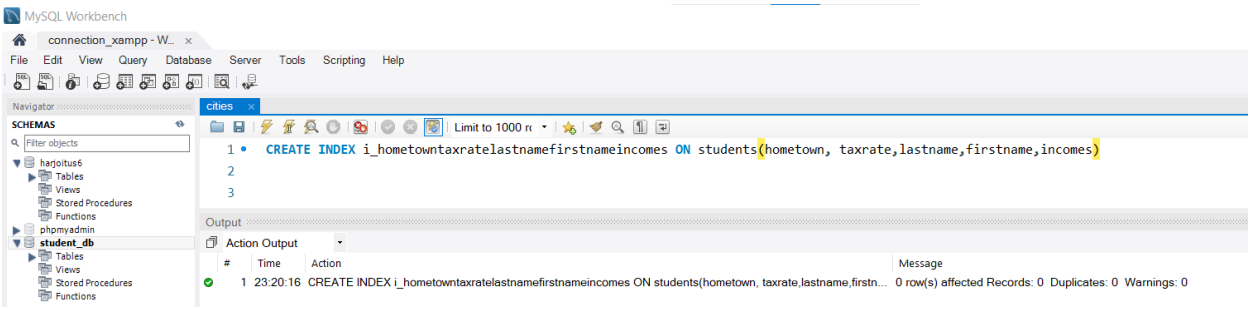
Solution B



7_4_B



7_5


MySQL Workbench
connection_xampp - W...
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
harjoitus6
Tables
Views
Stored Procedures
Functions
phpmyadmin
student_db
Tables
Views
Stored Procedures
Functions
cities
Limit to 1000 r
1 • CREATE INDEX i_hometowntaxratelastnamefirstnameincomes ON students(hometown, taxrate,lastname,firstname,incomes)
2
3
Output
Action Output
Time Action Message
1 23:20:16 CREATE INDEX i_hometowntaxratelastnamefirstnameincomes ON students(hometown, taxrate,lastname,firstn... 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0