

# HARJOITUS 6

## 6.1

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with 'harjoitus6' selected. The main editor window shows a SQL query to create a table named 'Persons'.

```
1 CREATE TABLE Persons(  
2   hetu CHAR(11) PRIMARY KEY,  
3   sukunimi VARCHAR(64) NOT NULL,  
4   etunimi VARCHAR(64) NOT NULL,  
5   email VARCHAR(128) UNIQUE,  
6   biologinen_sukupuoli VARCHAR(32) NOT NULL,  
7   fobia VARCHAR(64) DEFAULT "hippopotomonstrosesquippedaliofobia",  
8   CHECK (biologinen_sukupuoli IN ("mies", "nainen", "intersukupuolinen"))  
9 );  
10  
11
```

The bottom status bar indicates the query was executed successfully, affecting 0 rows.

The screenshot shows the MySQL Workbench interface after executing a SELECT query. The main editor window shows the query: `SELECT * FROM Persons`. The bottom status bar indicates the query was executed successfully, affecting 0 rows.

The result set is displayed in the 'Result Grid' at the bottom of the window. It shows a single row with all columns set to NULL.

hetu	sukunimi	etunimi	email	biologinen_sukupuoli	fobia
NULL	NULL	NULL	NULL	NULL	NULL

MySQL Workbench

connection\_xampp - W...

File Edit View Query Database Server Tools Scripting Help

Navigator: cities

SCHEMAS

Filter objects

- harry006
  - Tables
  - Views
  - Stored Procedures
  - Functions
  - phpmyadmin
  - student\_db
    - Tables
      - cities
      - courses
      - studentgrades
      - students
      - Views
    - Stored Procedures
    - Functions

Limit to 1000 rows

```

1 • INSERT INTO Persons
2   VALUES ('121212-1234','Guru','Ken',NULL,'intersukupuolinen','fobofobia'),
3   ('121212-1235','Vainio','Elo','elo@gmail.com','mies','panofobia'),
4   ('121212-1236','Vainio','Vilja','vilja@gmail.com','nainen',DEFAULT);
5

```

Output

Action Output

#	Time	Action	Message
1	11:08:25	INSERT INTO Persons VALUES ('121212-1234','Guru','Ken',NULL,'intersukupuolinen','fobofobia'), ('121212-1235','Vainio','Elo','elo@gmail.com','mies','panofobia'), ('121212-1236','Vainio','Vilja','vilja@gmail.com','nainen',DEFAULT);	(121212-1234) 1 row(s) affected Records: 3 Duplicates: 0 Warnings: 0

The screenshot shows the MySQL Workbench interface. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. Below the menu is a toolbar with various icons for database operations. The left sidebar shows the 'SCHEMAS' tree with a search filter 'Filter objects'. The tree structure includes 'harjoitus6' (Tables, Views, Stored Procedures, Functions), 'phpmyadmin', and 'student\_db' (Tables, courses, studentgrades, students). The 'cities' table is selected in the 'student\_db' schema.

The main editor area displays a SQL query:

```
1 • SELECT * FROM Persons;
```

Below the query editor, the 'Result Grid' is visible, showing the results of the query. The grid has columns: hetu, sukunimi, etunimi, email, biologinen\_sukupuoli, and fobia. The results are as follows:

hetu	sukunimi	etunimi	email	biologinen_sukupuoli	fobia
121212-1234	Guru	Ken	NULL	intersukupuolinen	fobofobia
121212-1235	Vainio	Elo	elo@gmail.com	mies	panofobia
121212-1236	Vainio	Vilja	vilja@gmail.com	nainen	hippopotomonstrosesquipedaliofobia

At the bottom, the status bar indicates 'Persons 1 x'.

\*Here I have used a trigger to display the error since the error couldn't be displayed.

**DELIMITER \$\$**

**CREATE TRIGGER trigger1**

**BEFORE INSERT ON persons**

**FOR EACH ROW**

**BEGIN**

**IF !(NEW.biologinen\_sukupuoli IN ('mies','nainen','intersukupuolinen')) THEN**

**CALL `Error: wrong gender`;**

**END IF;**

**END\$\$**



\*This task has worked without the use of triggers



\*This task has been completed with the help of a trigger

**DELIMITER \$\$**

**CREATE TRIGGER trigger2**

**BEFORE INSERT ON persons**

**FOR EACH ROW**

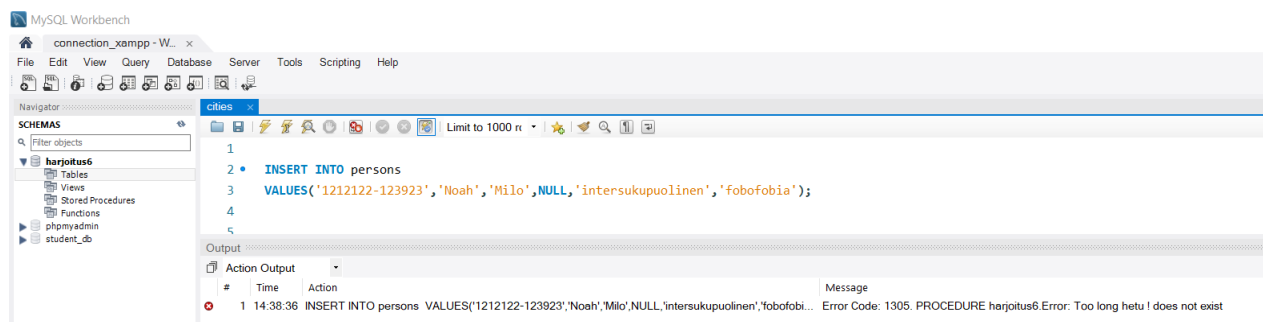
**BEGIN**

**IF !(NEW.hetu <=11) THEN**

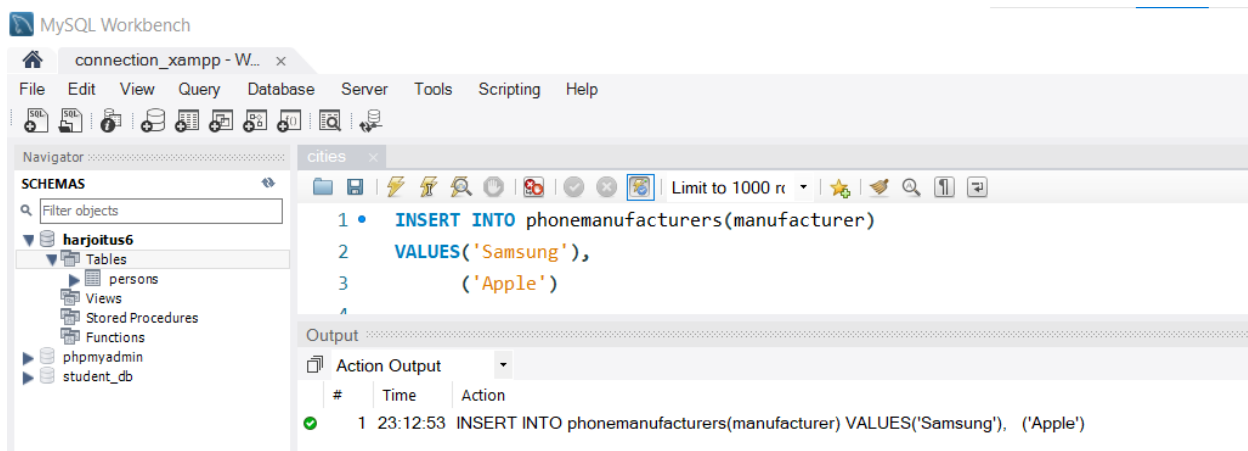
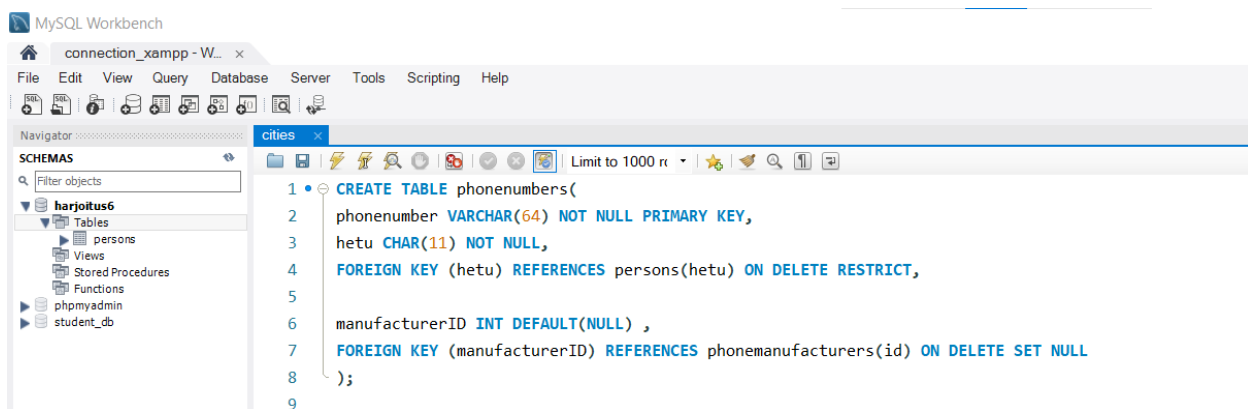
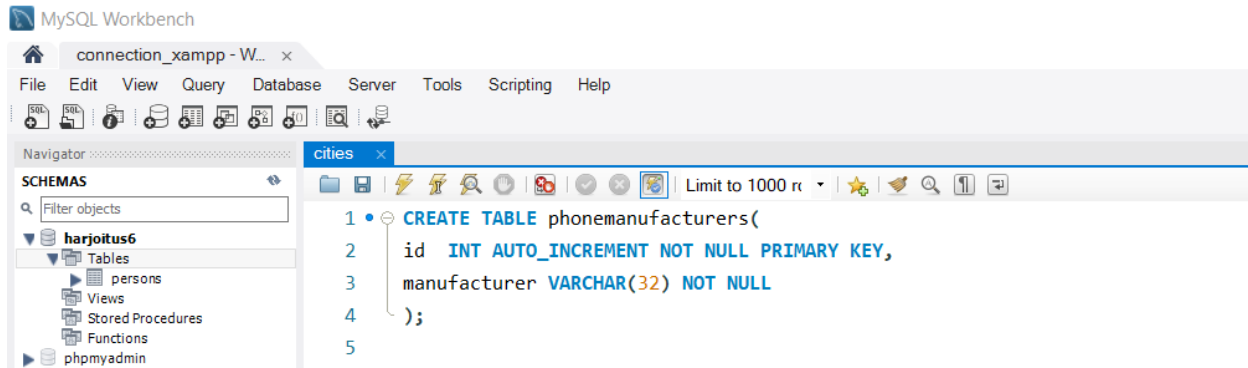
**CALL `Error: Too long hetu !`;**

**END IF;**

**END\$\$**



## 6.3



MySQL Workbench

connection\_xampp - W... x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

harjoitus6

Tables

persons

phonemakers

phonenumbers

Columns

phonenum

hetu

manufacturerID

Indexes

Foreign Keys

Triggers

Views

Stored Procedures

Functions

phpmyadmin

student\_db

cities

Limit to 1000 r

1

2 • INSERT INTO phonenumbers(phonenum,hetu,manufacturerID)

3 VALUES('0449875654','121212-1234',1),

4 ('0449873638','121212-1235',2),

5 ('0449873639','121212-1236',2);

6

7

8

9

Output

Action Output

# Time Action Message

1 23:18:37 INSERT INTO phonenumbers(phonenum,hetu,manufacturerID) VALUES('0449875654','121212-1234',1), ... 3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0

MySQL Workbench

connection\_xampp - W... x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

harjoitus6

Tables

persons

phonemakers

phonenumbers

Columns

phonenum

hetu

manufacturerID

Indexes

Foreign Keys

Views

Stored Procedures

Functions

phpmyadmin

student\_db

cities

Limit to 1000 r

1

2 • DELETE FROM phonemakers WHERE manufacturer="Samsung";

3

Output

Action Output

# Time Action Message

1 23:21:00 DELETE FROM phonemakers WHERE manufacturer="Samsung" 1 row(s) affected

MySQL Workbench

connection\_xampp - W... x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

harjoitus6

Tables

persons

phonemakers

phonenumbers

Columns

phonenum

hetu

manufacturerID

Indexes

Foreign Keys

Triggers

Views

Stored Procedures

Functions

phpmyadmin

student\_db

cities

Limit to 1000 r

Result Grid

Filter Rows:

phonenum hetu manufacturerID

0449873638 121212-1235 2

0449873639 121212-1236 2

0449875654 121212-1234 1

Output

Action Output

# Time Action Message

1 23:21:00 DELETE FROM phonemakers WHERE manufacturer="Samsung" 1 row(s) affected

2 23:22:34 SELECT \* FROM phonenumbers LIMIT 0, 1000 3 row(s) returned

MySQL Workbench

connection\_xampp - W... x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

harjoitus6

Tables

persons

phonemakers

phonenumbers

Columns

phonenum

hetu

manufacturerID

Indexes

Foreign Keys

Triggers

Views

Stored Procedures

Functions

phpmyadmin

student\_db

cities

Limit to 1000 n

1 • DELETE FROM persons WHERE etunimi="Vilja";

2

3

4

Output

Action Output

# Time Action Message

1 23:24:56 DELETE FROM persons WHERE etunimi="Vilja" Error Code: 1451. Cannot delete or update a parent row: a foreign key constraint fails ('harjoitus6'.phonenumbers, CONSTRAINT 'phonenumbers\_ibfk\_1' FOREIGN...