ANKARA UNIVERSITY
COMPUTER ENGINEERING DEPARTMENT

COM2058 LAB1

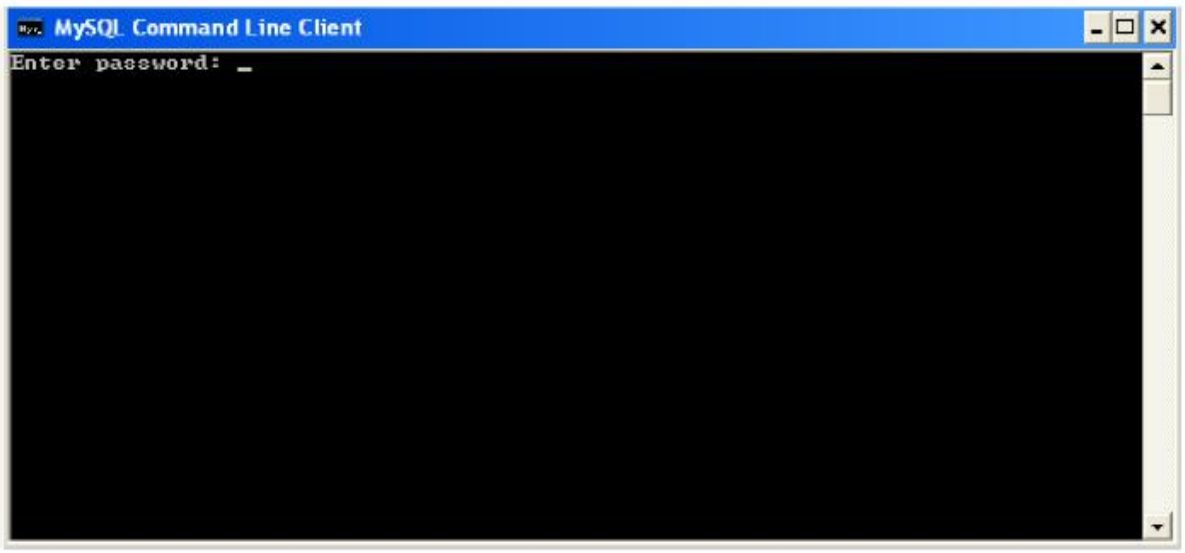
Create the following table using MySQL command line. Later do the same operation using MySQL workbench. Print out the table in both command line and workbench.

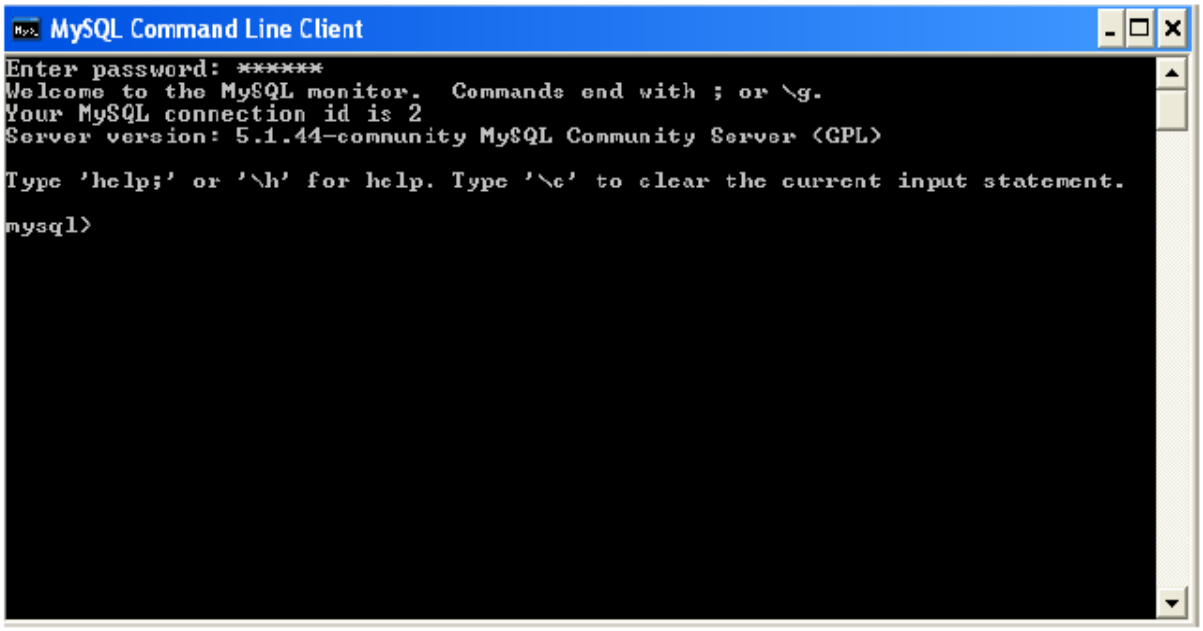
Rank	Name	Type	Channel	Rating
1	COLD CASE	Serial	CNBC-E	8.9
2	SEKSENLER	Serial	TRT 1	7.5
3	STADYUM	Sport	TRT 1	6.6
4	ATV ANA HABER	Newscast	ATV	6.5
5	KANAL D HABER	Newscast	KANAL D	5.2

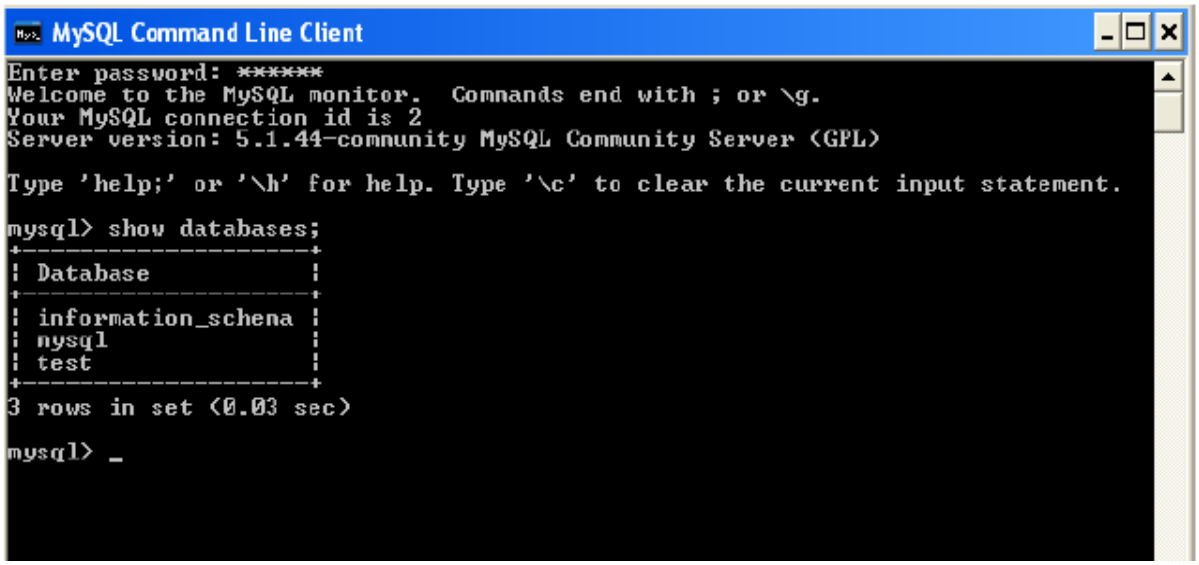
(The rating order and rating values are not real. They are just given for the purpose of Lab study)

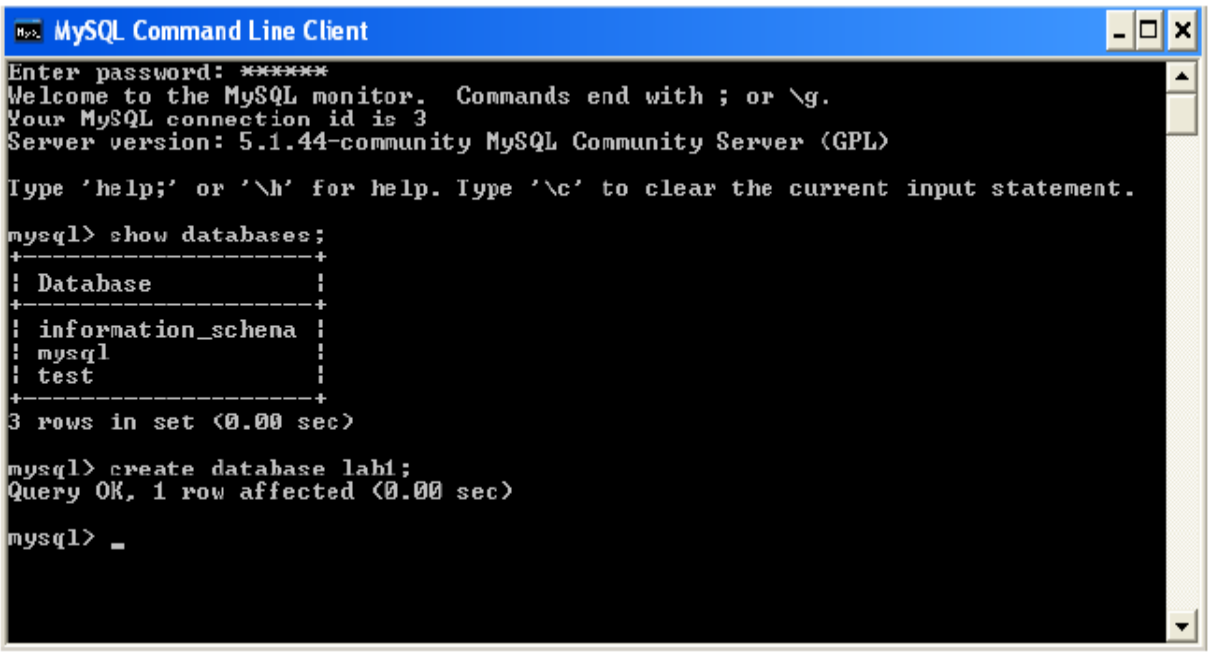
You can learn creating and printing table operations studying following steps:

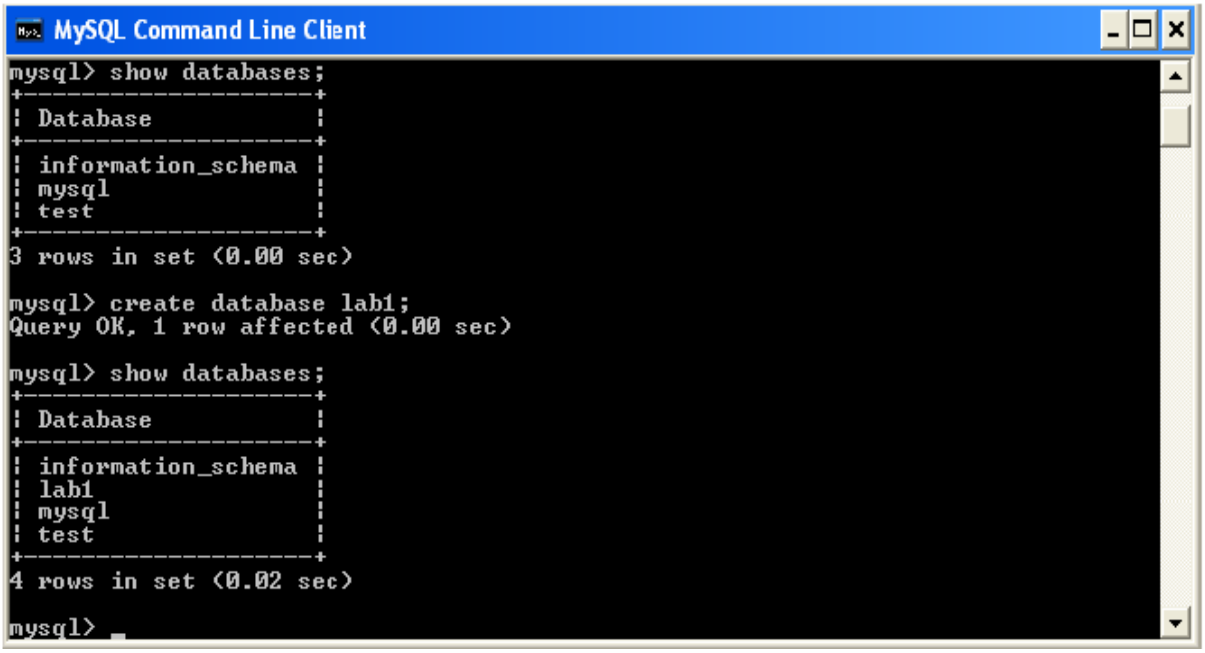
Example (MySQL command line):

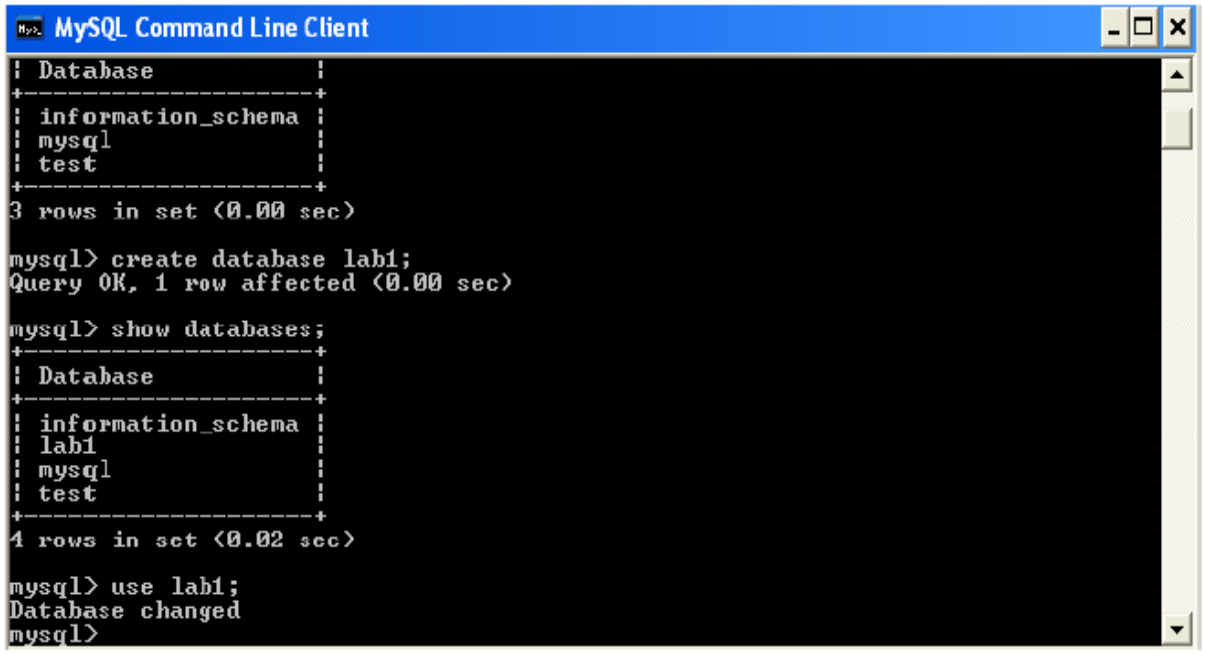


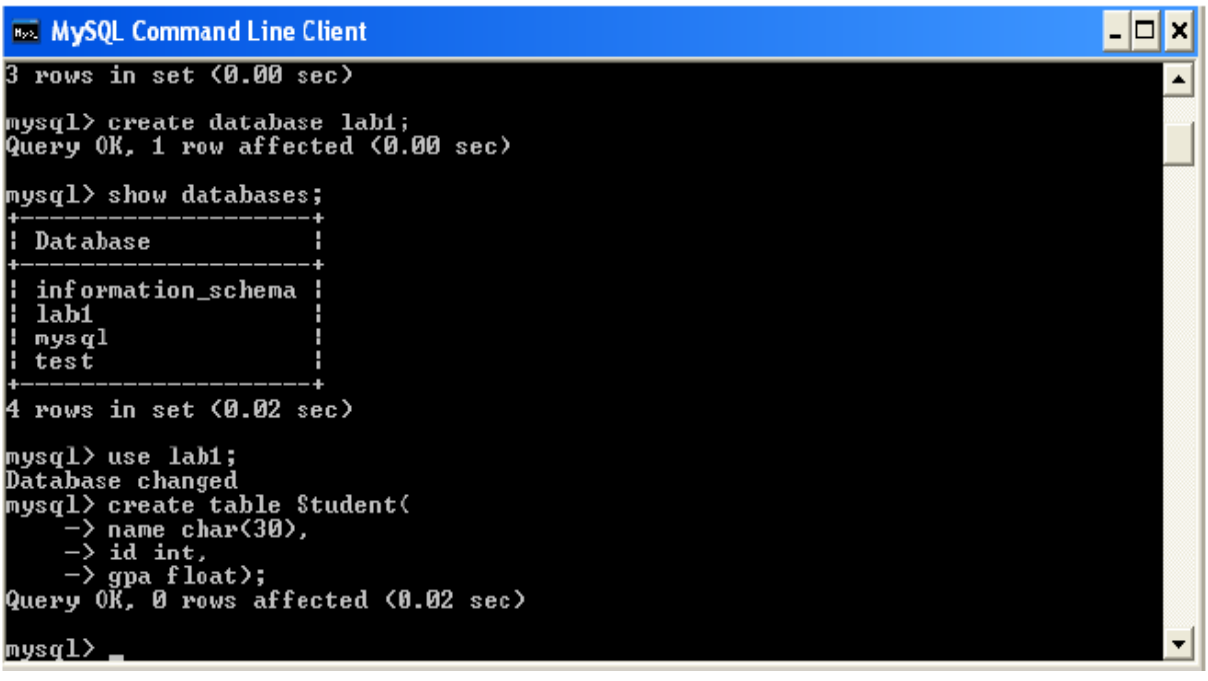

MySQL Command Line Client
Enter password: ******
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 2
Server version: 5.1.44-community MySQL Community Server (GPL)
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql>

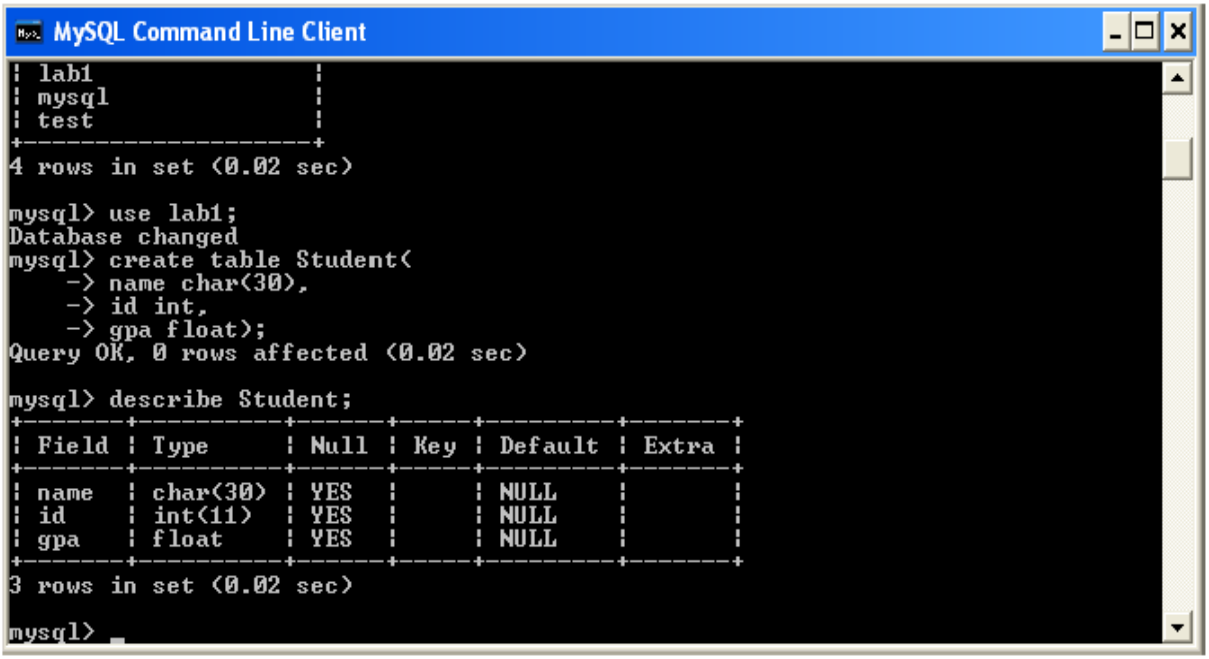

MySQL Command Line Client
Enter password: ******
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 2
Server version: 5.1.44-community MySQL Community Server (GPL)
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> show databases;
+--------------------+
| Database |
+--------------------+
| information_schena |
| mysql |
| test |
+--------------------+
3 rows in set (0.03 sec)
mysql> _

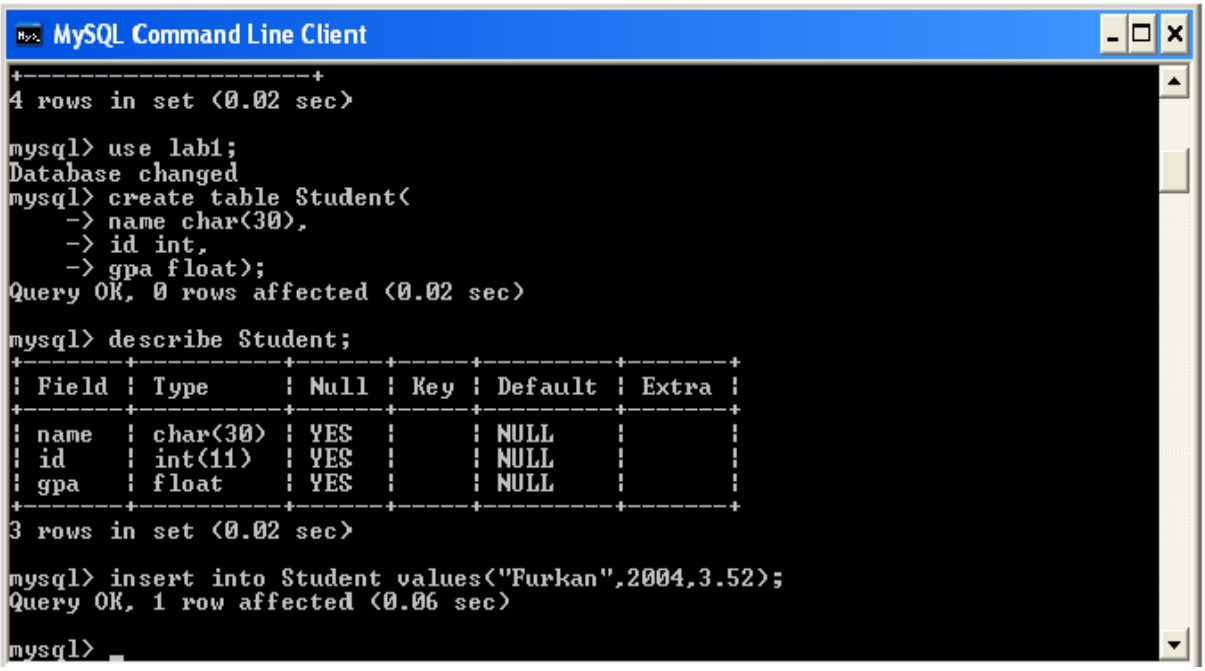

MySQL Command Line Client
Enter password: ******
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 3
Server version: 5.1.44-community MySQL Community Server (GPL)
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> show databases;
+--------------------+
| Database |
+--------------------+
| information_schena |
| mysql |
| test |
+--------------------+
3 rows in set (0.00 sec)
mysql> create database lab1;
Query OK, 1 row affected (0.00 sec)
mysql> _

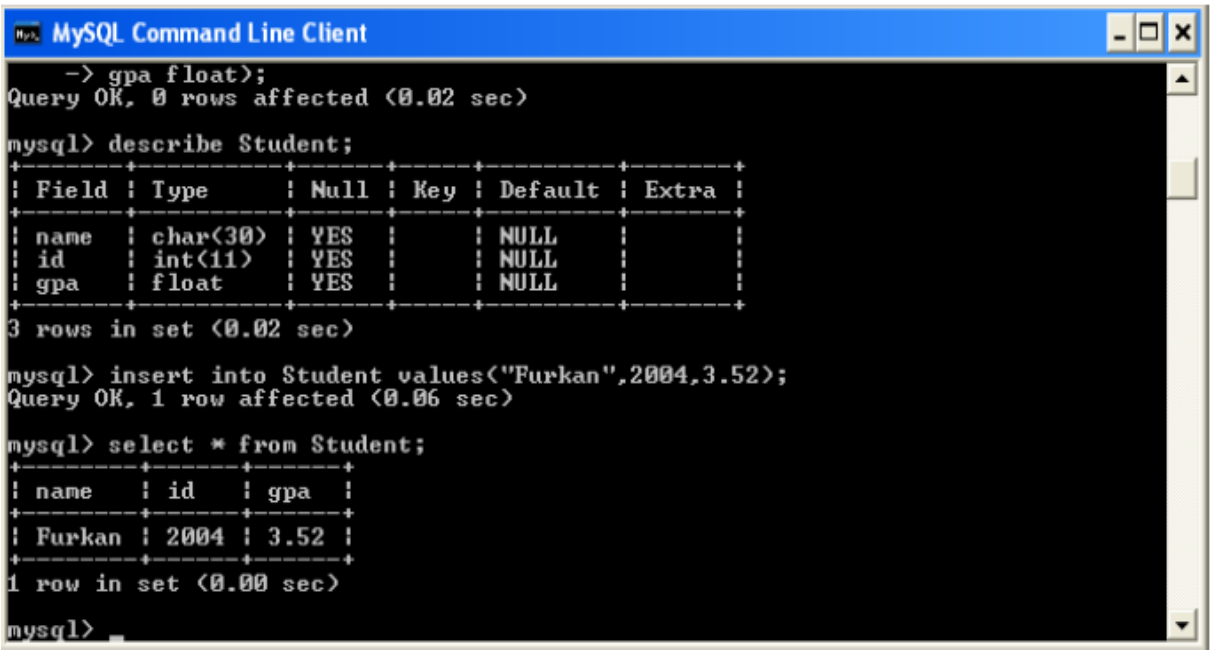

MySQL Command Line Client
mysql> show databases;
+--------------------+
| Database |
+--------------------+
| information_schema |
| mysql |
| test |
+--------------------+
3 rows in set (0.00 sec)
mysql> create database lab1;
Query OK, 1 row affected (0.00 sec)
mysql> show databases;
+--------------------+
| Database |
+--------------------+
| information_schema |
| lab1 |
| mysql |
| test |
+--------------------+
4 rows in set (0.02 sec)
mysql>


MySQL Command Line Client
| Database |
+--------------------+
| information_schema |
| mysql |
| test |
+--------------------+
3 rows in set (0.00 sec)
mysql> create database lab1;
Query OK, 1 row affected (0.00 sec)
mysql> show databases;
+--------------------+
| Database |
+--------------------+
| information_schema |
| lab1 |
| mysql |
| test |
+--------------------+
4 rows in set (0.02 sec)
mysql> use lab1;
Database changed
mysql>

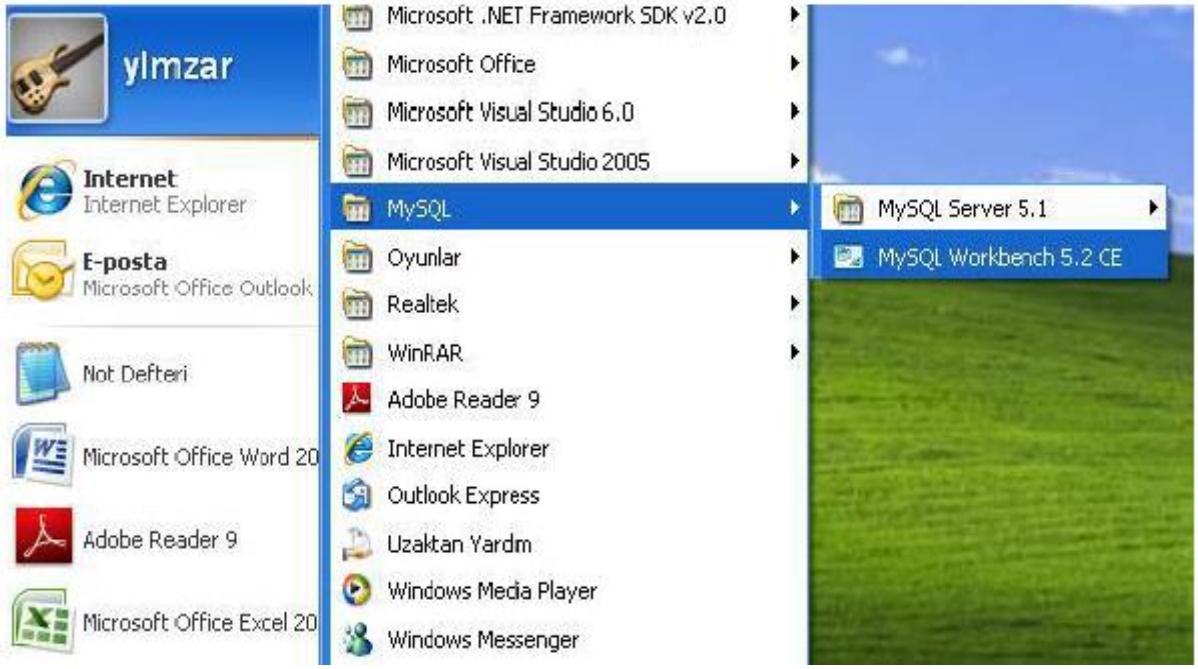

MySQL Command Line Client
3 rows in set (0.00 sec)
mysql> create database lab1;
Query OK, 1 row affected (0.00 sec)
mysql> show databases;
+--------------------+
| Database |
+--------------------+
| information_schema |
| lab1 |
| mysql |
| test |
+--------------------+
4 rows in set (0.02 sec)
mysql> use lab1;
Database changed
mysql> create table Student(
    -> name char(30),
    -> id int,
    -> gpa float);
Query OK, 0 rows affected (0.02 sec)
mysql>

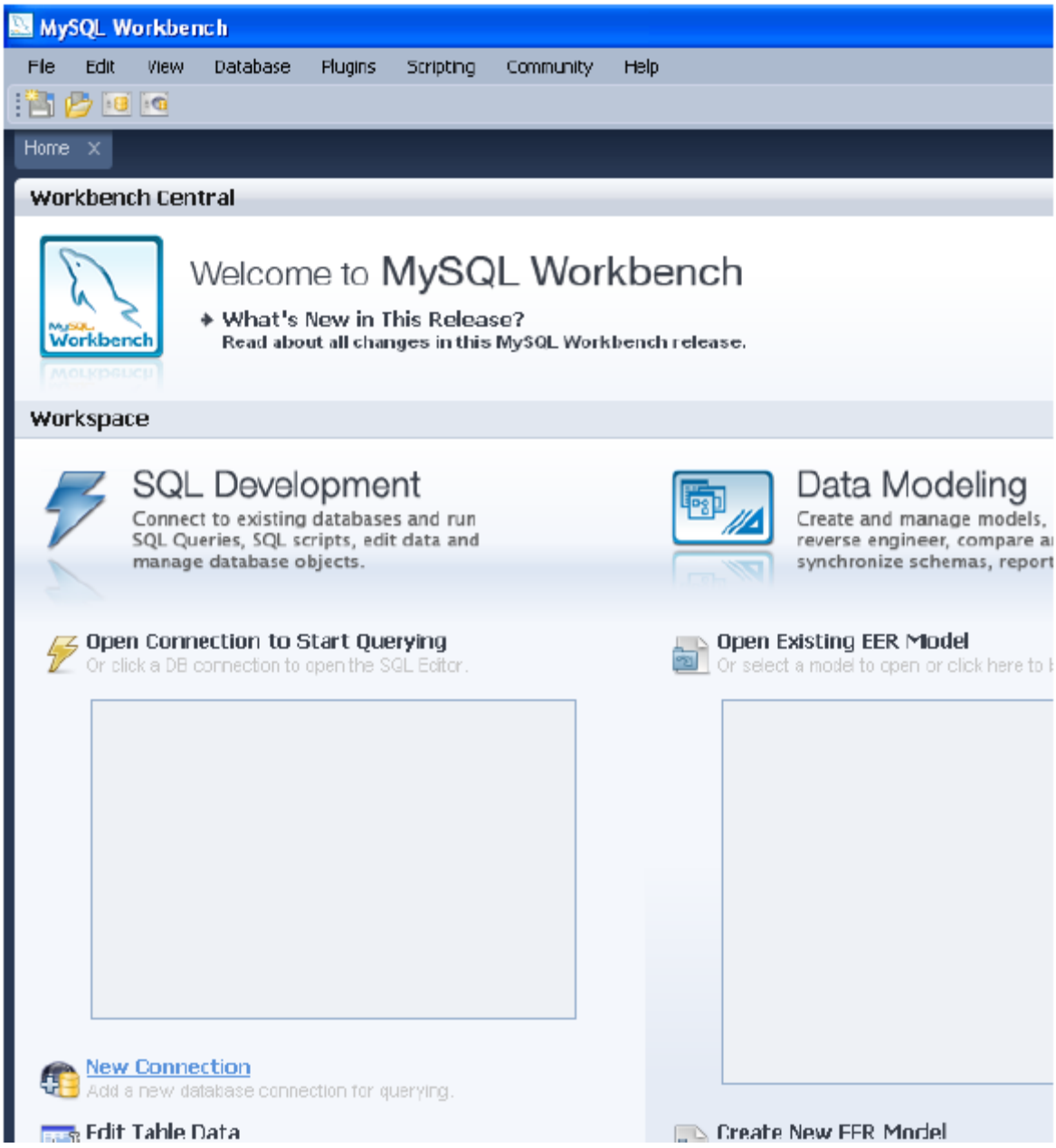

MySQL Command Line Client
| lab1 |
| mysql |
| test |
4 rows in set (0.02 sec)
mysql> use lab1;
Database changed
mysql> create table Student(
-> name char(30),
-> id int,
-> gpa float);
Query OK, 0 rows affected (0.02 sec)
mysql> describe Student;
Field	Type	Null	Key	Default	Extra
name	char(30)	YES		NULL	
id	int(11)	YES		NULL	
gpa	float	YES		NULL	
3 rows in set (0.02 sec)
mysql>

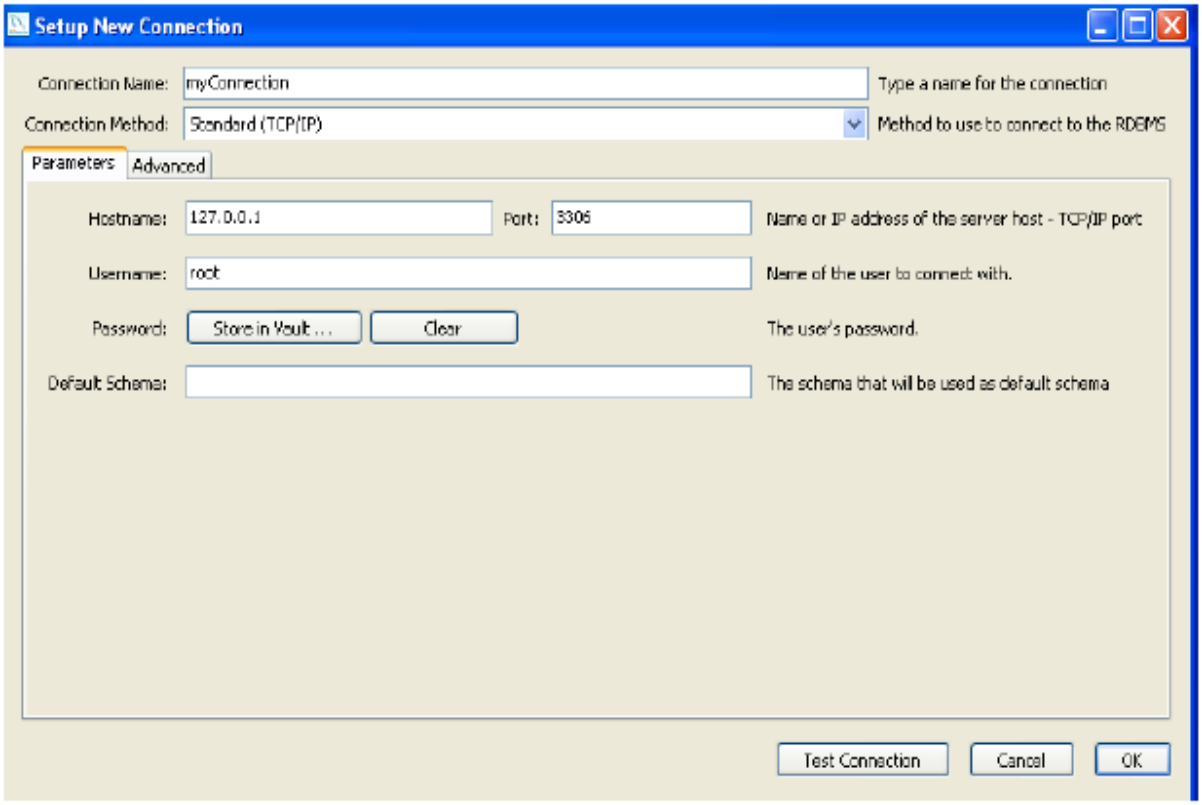

MySQL Command Line Client
4 rows in set (0.02 sec)
mysql> use lab1;
Database changed
mysql> create table Student(
-> name char(30),
-> id int,
-> gpa float);
Query OK, 0 rows affected (0.02 sec)
mysql> describe Student;
Field	Type	Null	Key	Default	Extra
name	char(30)	YES		NULL	
id	int(11)	YES		NULL	
gpa	float	YES		NULL	
3 rows in set (0.02 sec)
mysql> insert into Student values("Furkan",2004,3.52);
Query OK, 1 row affected (0.06 sec)
mysql>

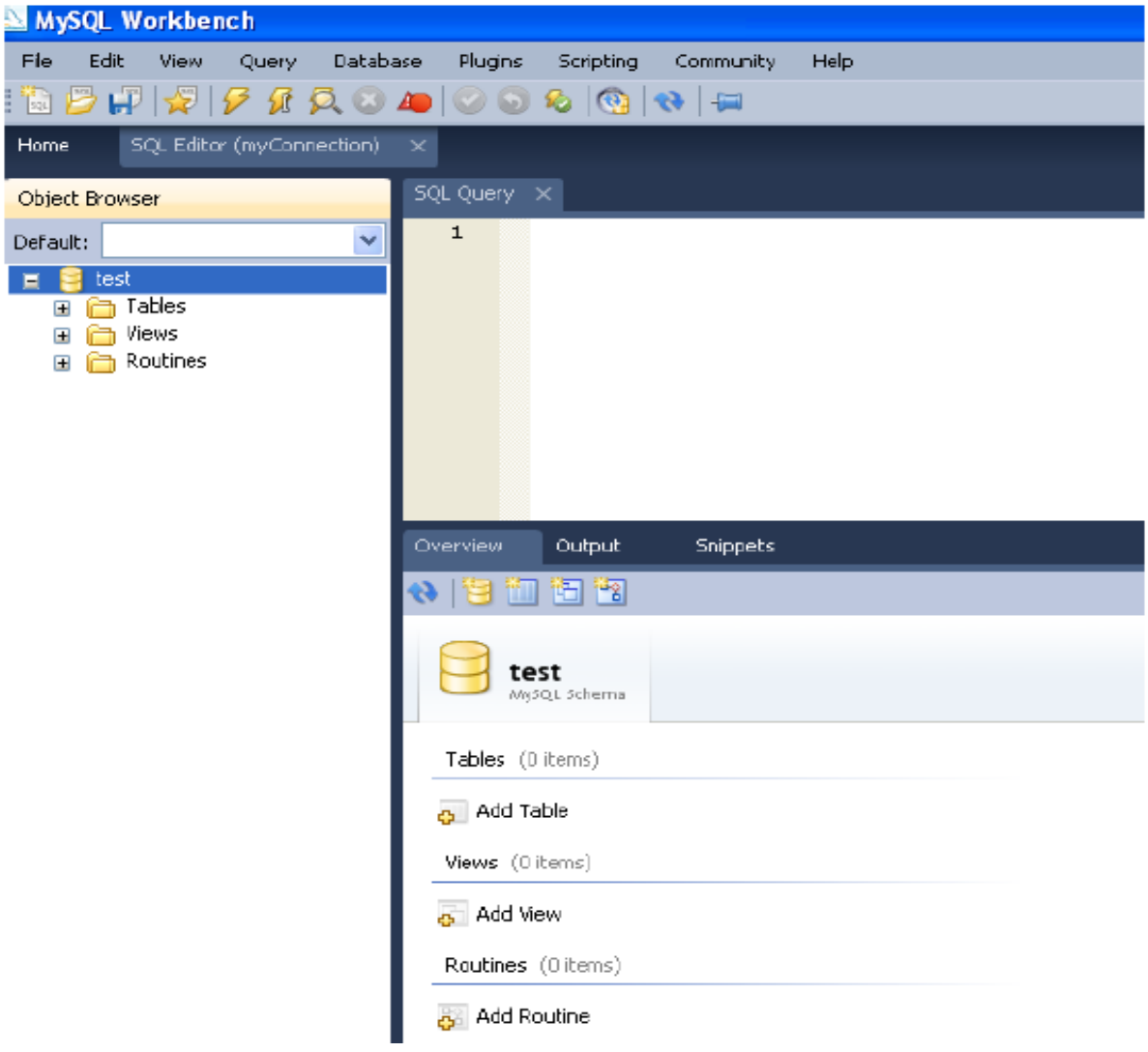

MySQL Command Line Client
-> gpa float);
Query OK, 0 rows affected (0.02 sec)
mysql> describe Student;
Field	Type	Null	Key	Default	Extra
name	char(30)	YES		NULL	
id	int(11)	YES		NULL	
gpa	float	YES		NULL	
3 rows in set (0.02 sec)
mysql> insert into Student values("Furkan",2004,3.52);
Query OK, 1 row affected (0.06 sec)
mysql> select * from Student;
name	id	gpa
Furkan	2004	3.52
1 row in set (0.00 sec)
mysql>

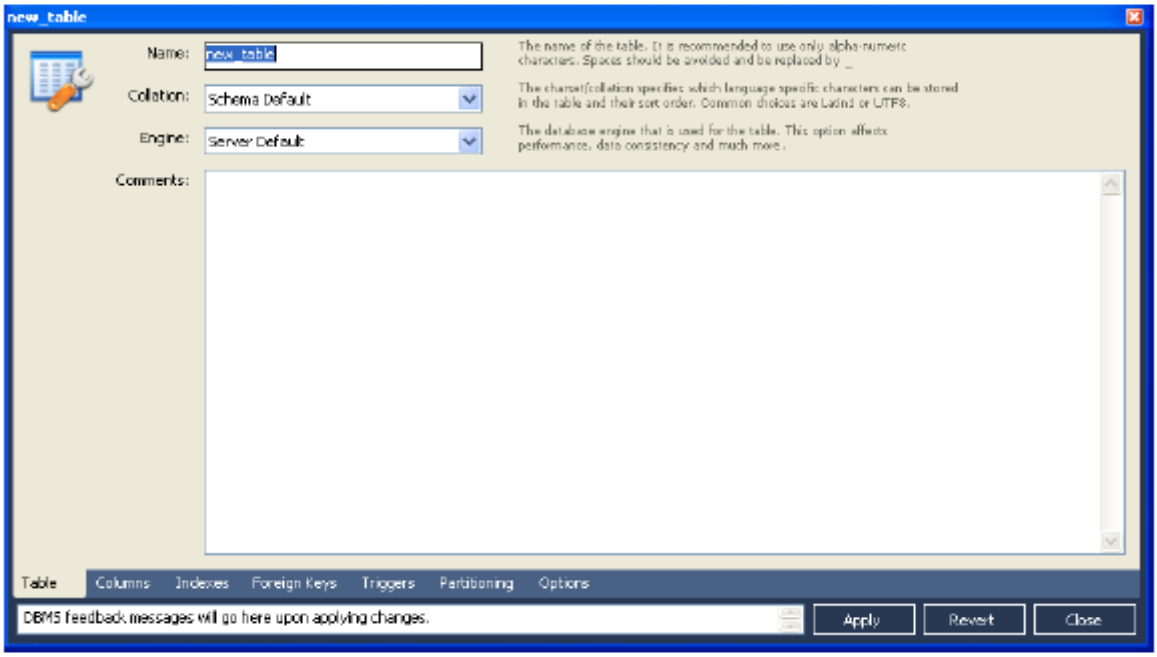
Example (MySQL workbench):

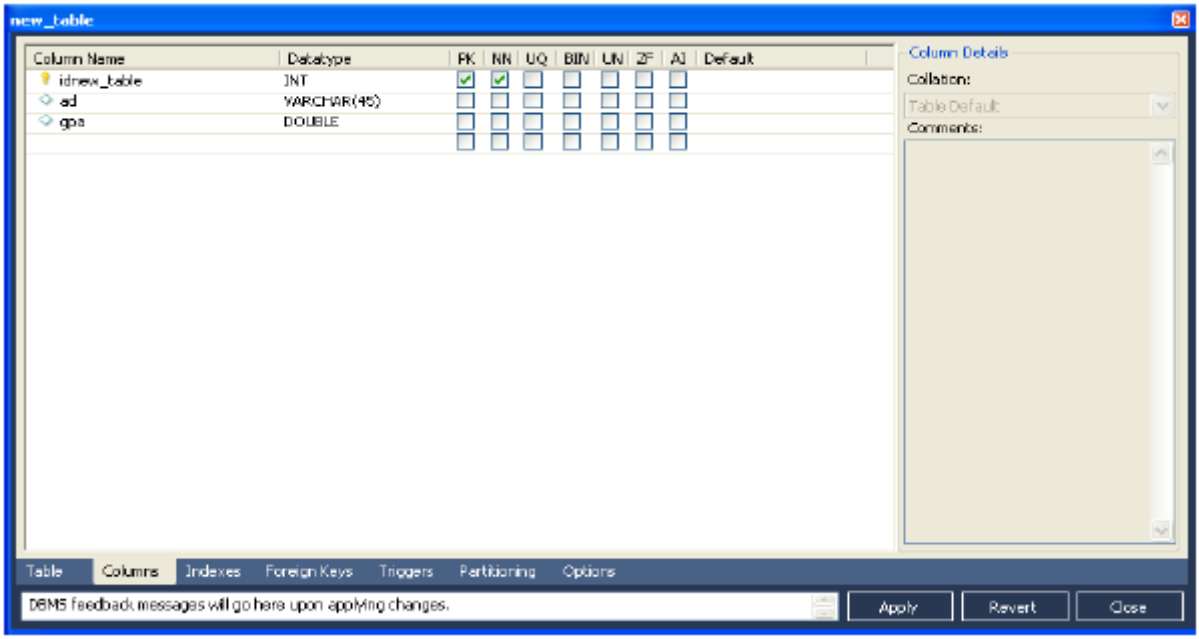


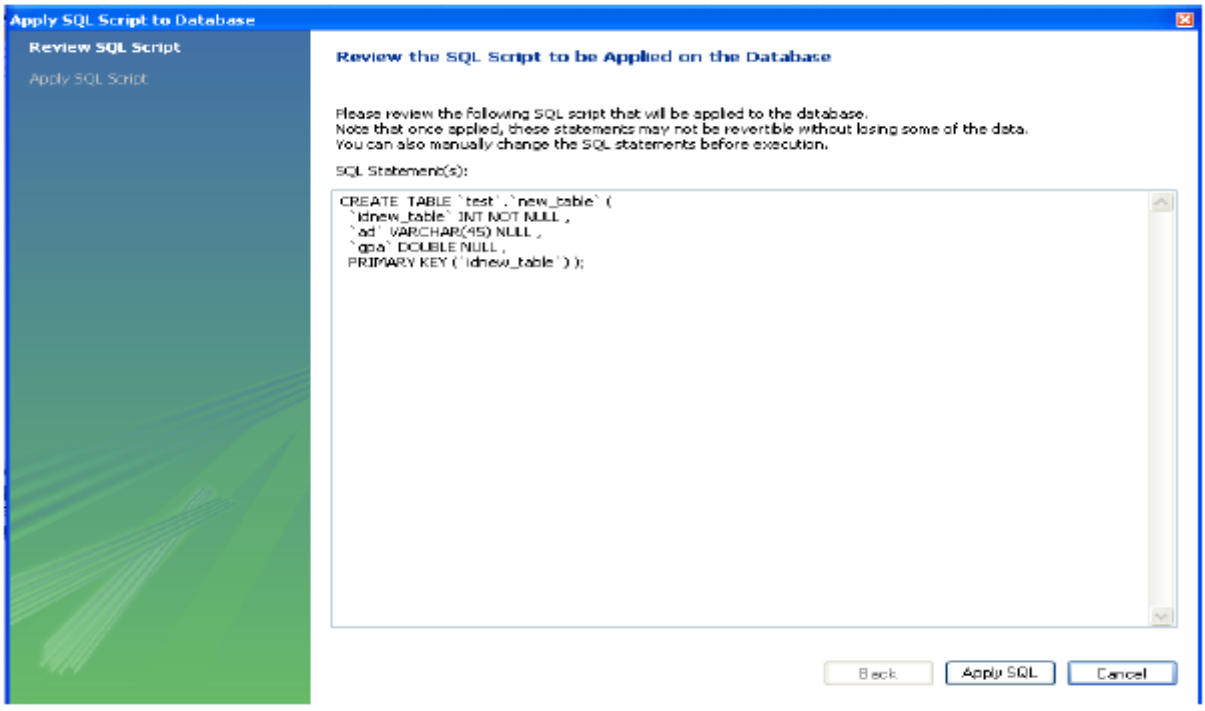


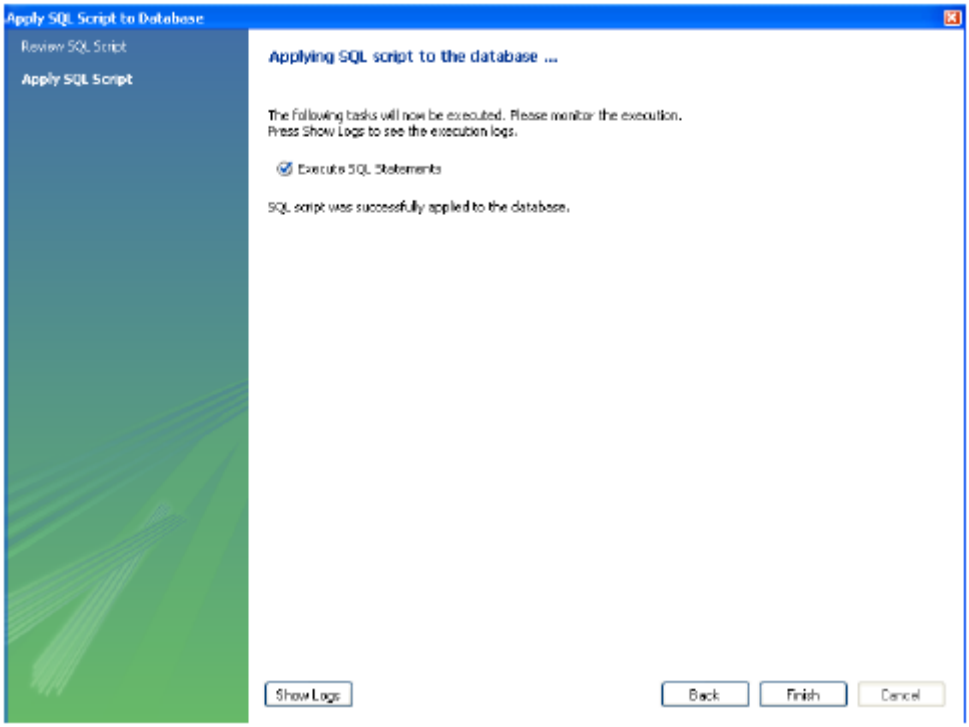

Setup New Connection
Connection Name:
myConnection
Type a name for the connection
Connection Method:
Standard (TCP/IP)
Method to use to connect to the RDBMS
Parameters
Advanced
Hostname:
127.0.0.1
Port:
3306
Name or IP address of the server host - TCP/IP port
Username:
root
Name of the user to connect with.
Password:
Store in Vault ...
Clear
The user's password.
Default Schema:
The schema that will be used as default schema
Test Connection
Cancel
OK

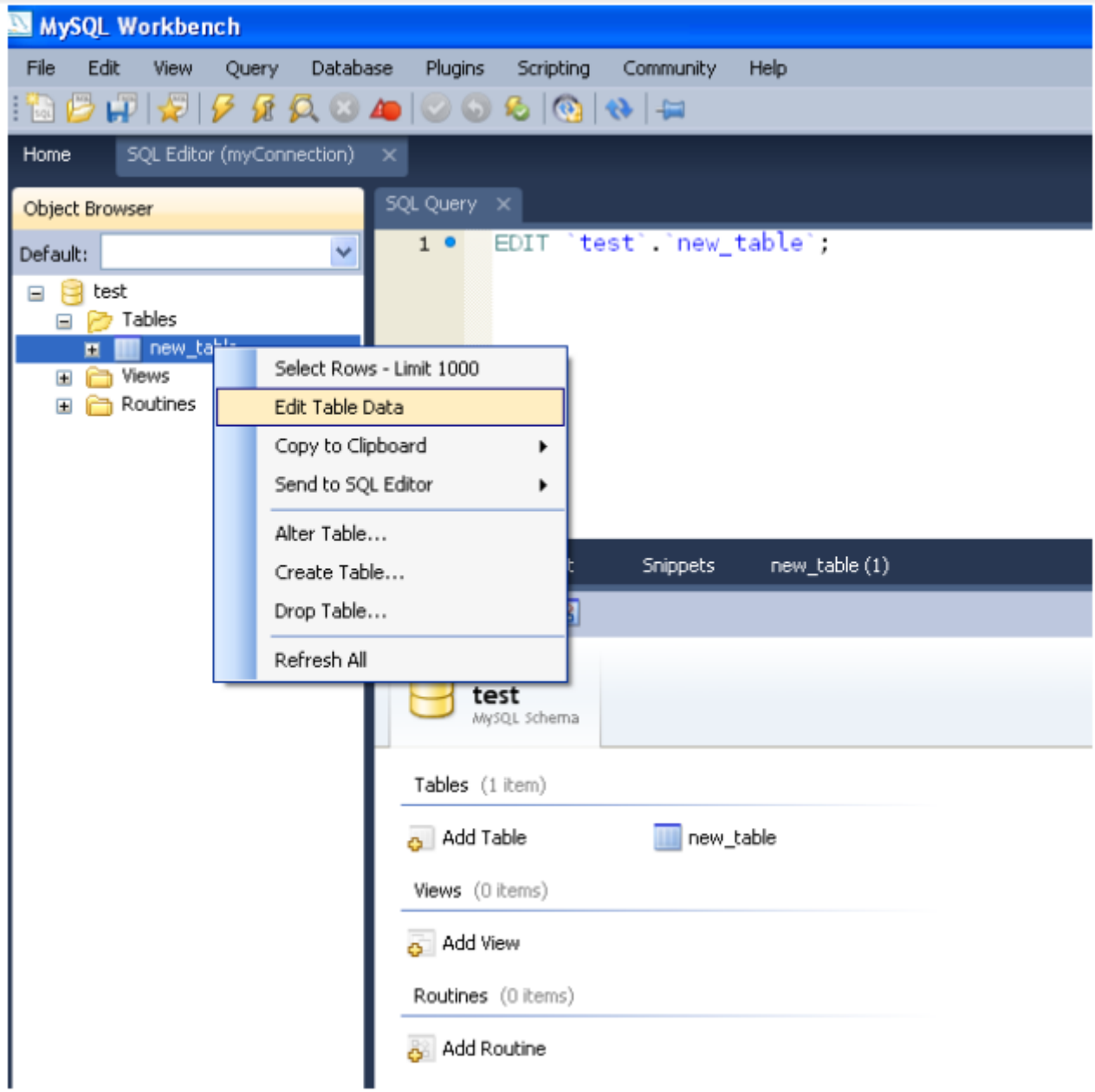

MySQL Workbench
File
Edit
View
Query
Database
Plugins
Scripting
Community
Help
Home
SQL Editor (myConnection)
Object Browser
Default:
test
Tables
Views
Routines
SQL Query
1
Overview
Output
Snippets
test
MySQL Schema
Tables (0 items)
Add Table
Views (0 items)
Add View
Routines (0 items)
Add Routine

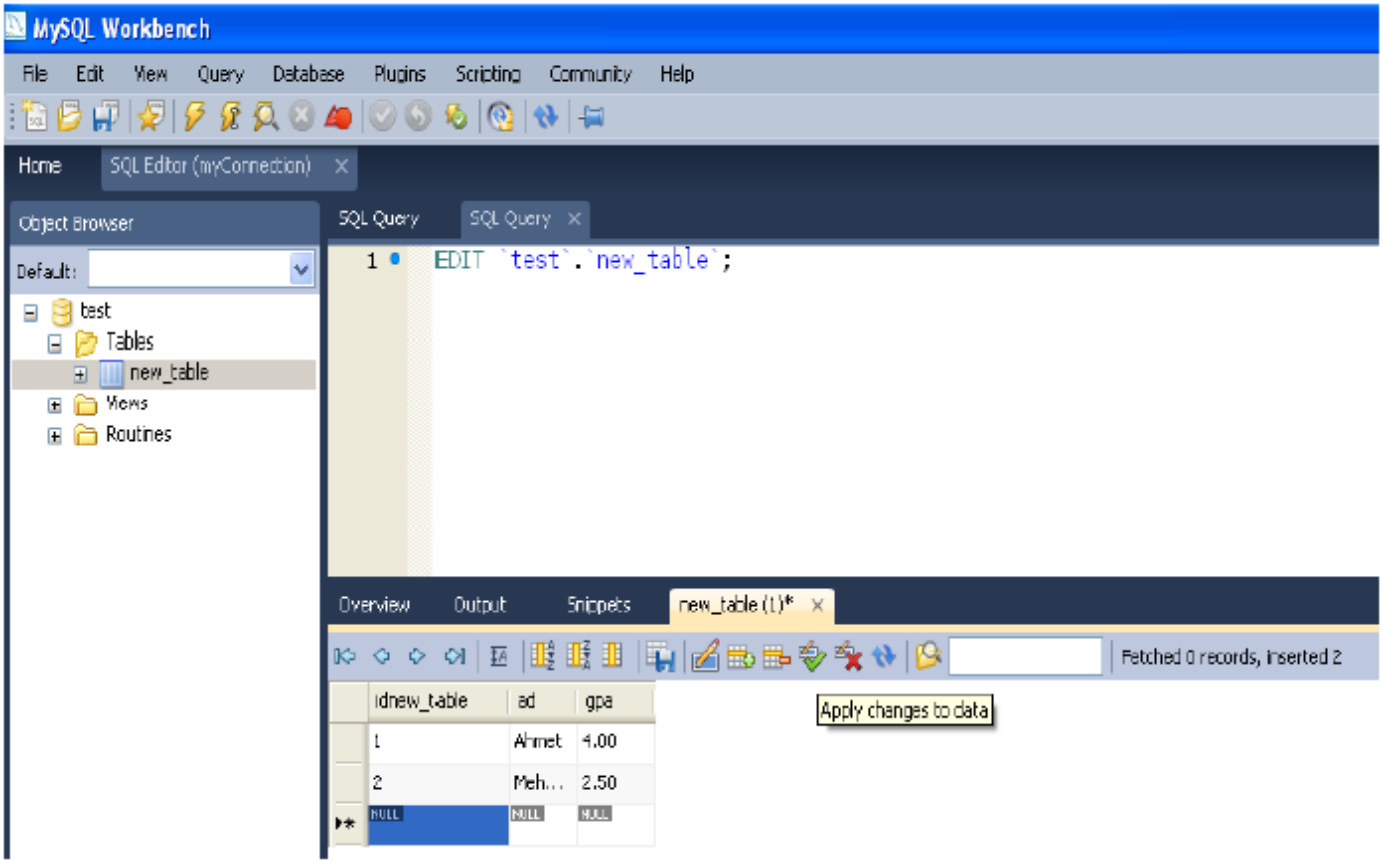

new_table
Name:
new_table
Collation:
Schema Default
Engine:
Server Default
Comments:
The name of the table. It is recommended to use only alpha-numeric characters. Spaces should be avoided and be replaced by _
The charset/collation specifies which language specific characters can be stored in the table and their sort order. Common choices are Latin1 or UTF8.
The database engine that is used for the table. This option affects performance, data consistency and much more.
Table
Columns
Indexes
Foreign Keys
Triggers
Partitioning
Options
DBMS feedback messages will go here upon applying changes.
Apply
Revert
Close

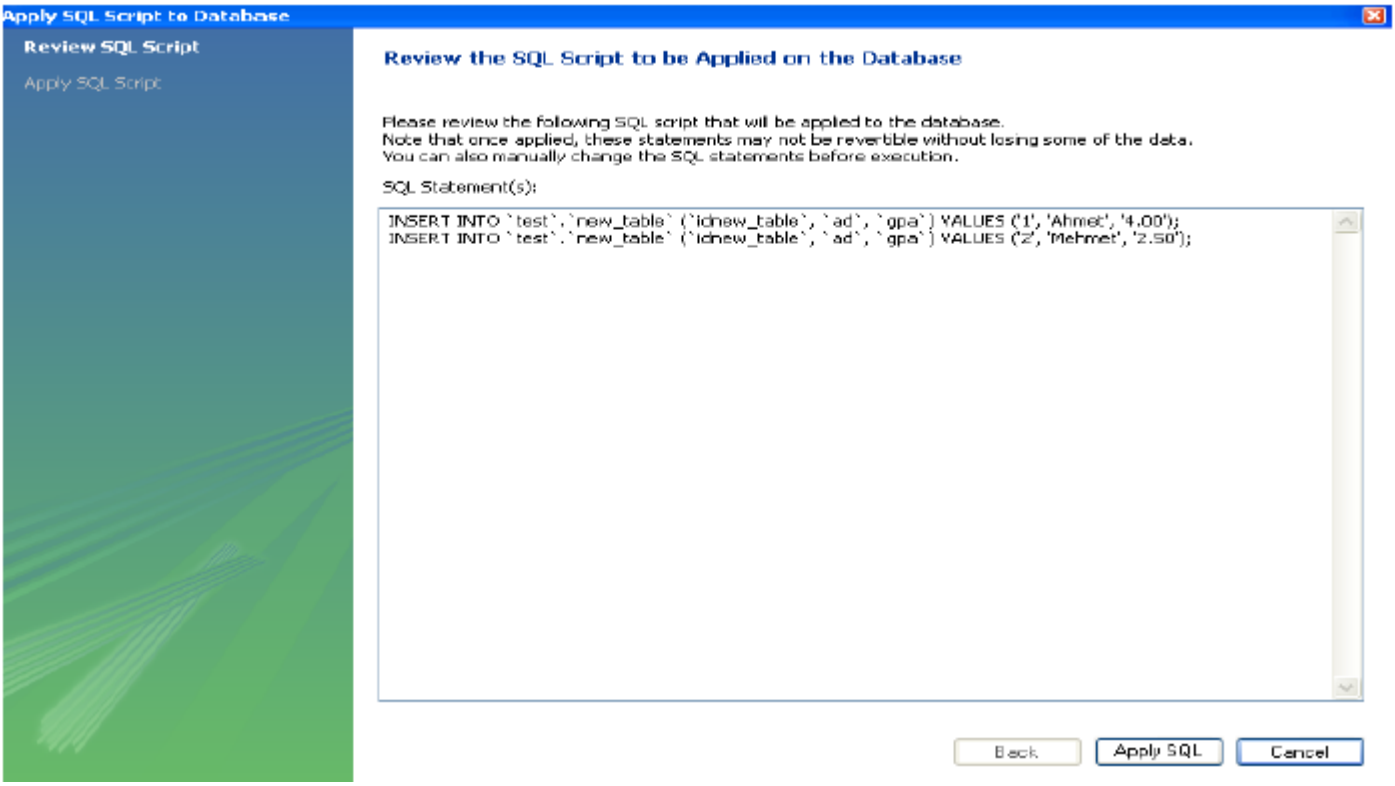

new_table
Column Name
Datatype
PK
NN
UQ
BIN
UN
ZF
AI
Default
idnew_table
INT
ad
VARCHAR(45)
gpa
DOUBLE
Column Details
Collation:
Table Default
Comments:
Table
Columns
Indexes
Foreign Keys
Triggers
Partitioning
Options
DBMS feedback messages will go here upon applying changes.
Apply
Revert
Close

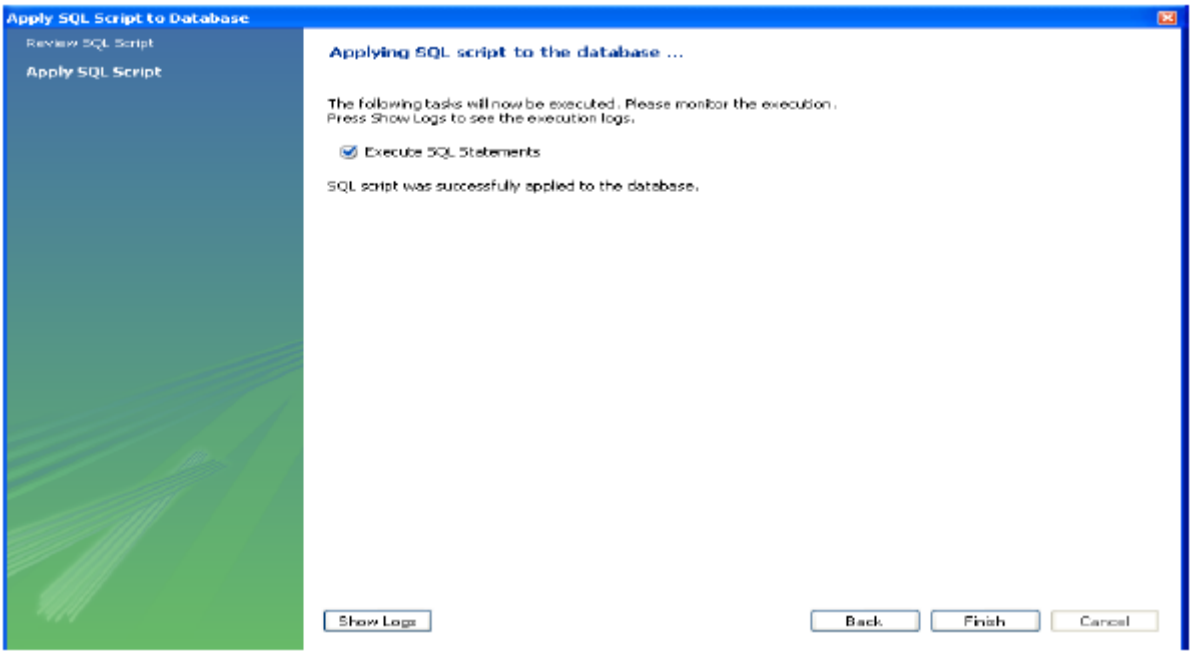

Apply SQL Script to Database
Review SQL Script
Apply SQL Script
Review the SQL Script to be Applied on the Database
Please review the following SQL script that will be applied to the database.
Note that once applied, these statements may not be revertible without losing some of the data.
You can also manually change the SQL statements before execution.
SQL Statement(s):
CREATE TABLE `test`.`new_table` (
`idnew_table` INT NOT NULL ,
`ad` VARCHAR(45) NULL ,
`gpa` DOUBLE NULL ,
PRIMARY KEY (`idnew_table`));
Back
Apply SQL
Cancel

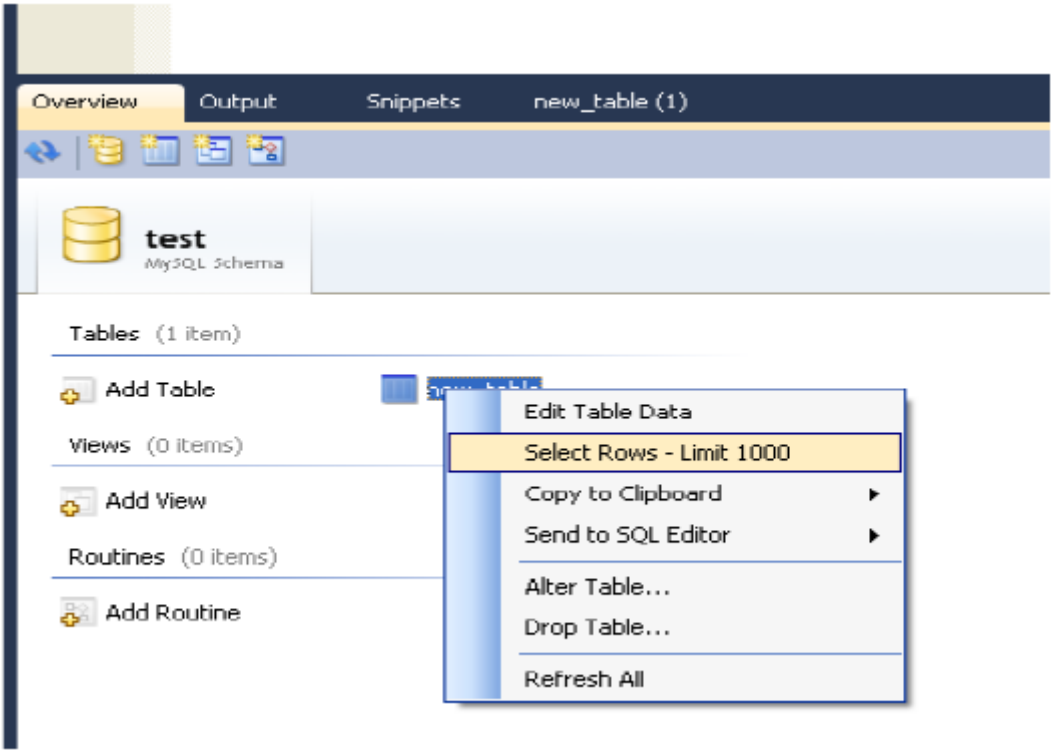

Apply SQL Script to Database
Review SQL Script
Apply SQL Script
Applying SQL script to the database ...
The following tasks will now be executed. Please monitor the execution.
Press Show Logs to see the execution logs.
Execute SQL Statements
SQL script was successfully applied to the database.
Show Logs
Back
Finish
Cancel

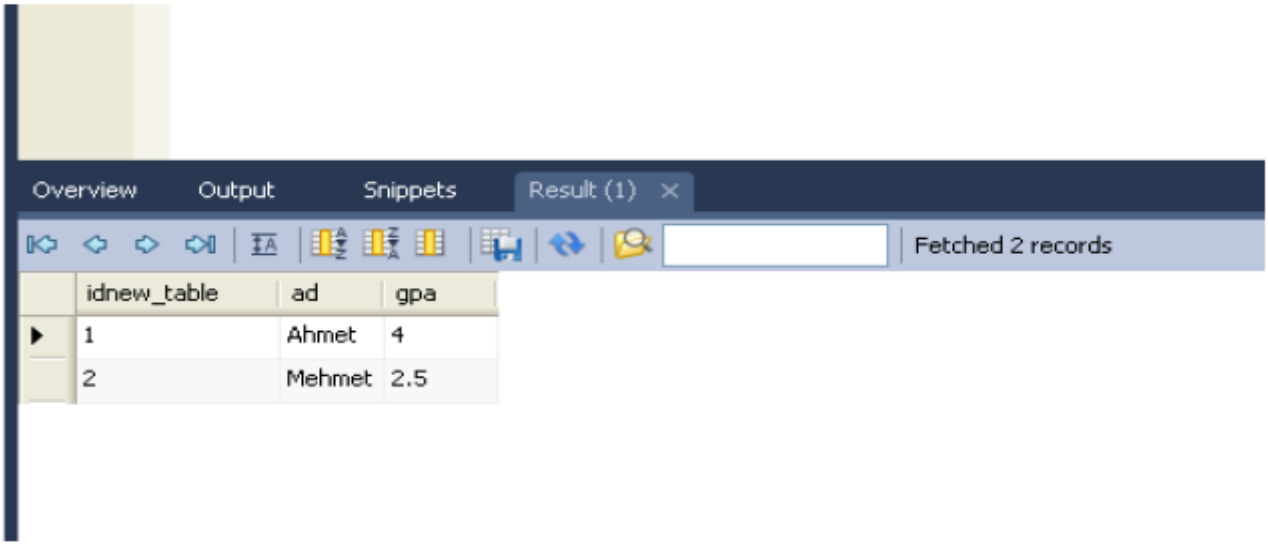

MySQL Workbench
File
Edit
View
Query
Database
Plugins
Scripting
Community
Help
Home
SQL Editor (myConnection)
Object Browser
Default:
test
Tables
Views
Routines
SQL Query
1
EDIT `test`.`new_table`;
Select Rows - Limit 1000
Edit Table Data
Copy to Clipboard
Send to SQL Editor
Alter Table...
Create Table...
Drop Table...
Refresh All
Snippets
new_table (1)
test
MySQL Schema
Tables (1 item)
Add Table
new_table
Views (0 items)
Add View
Routines (0 items)
Add Routine


MySQL Workbench
File Edit View Query Database Plugins Scripting Community Help
Home
SQL Editor (myConnection)
Object Browser
Default:
test
Tables
new_table
Views
Routines
SQL Query
SQL Query
1
EDIT `test`.`new_table`;
Overview
Output
Snippets
new_table (1)*
Fetched 0 records, inserted 2
Apply changes to data
idnew_table
ad
gpa
1
Ahmet
4.00
2
Meh...
2.50
NULL
NULL
NULL


Apply SQL Script to Database
Review SQL Script
Apply SQL Script
Review the SQL Script to be Applied on the Database
Please review the following SQL script that will be applied to the database.
Note that once applied, these statements may not be revertible without losing some of the data.
You can also manually change the SQL statements before execution.
SQL Statement(s):
INSERT INTO `test`.`new_table` (`idnew_table`, `ad`, `gpa`) VALUES ('1', 'Ahmet', '4.00');
INSERT INTO `test`.`new_table` (`idnew_table`, `ad`, `gpa`) VALUES ('2', 'Mehmet', '2.50');
Back
Apply SQL
Cancel







idnew_table	ad	gpa
1	Ahmet	4
2	Mehmet	2.5