

M9: Programming Assignment

Nima Memarzadeh

04/30/25

These screenshots are of running MySQL configuration examples.

```
nimamemarzadeh@Nimas-MacBook-Pro Java MySQL % mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 68
Server version: 9.1.0 MySQL Community Server - GPL

Copyright (c) 2000, 2025, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> SELECT User, Host FROM mysql.user;
+-----+-----+
| User          | Host          |
+-----+-----+
| student1      | %             |
| mysql.infoschema | localhost     |
| mysql.session | localhost     |
| mysql.sys     | localhost     |
| root          | localhost     |
+-----+-----+
5 rows in set (0.00 sec)

mysql> CREATE USER student33 IDENTIFIED BY 'pass';
Query OK, 0 rows affected (0.02 sec)

mysql> GRANT ALL PRIVILEGES ON * . * TO student33;
Query OK, 0 rows affected (0.01 sec)

mysql> exit
Bye
nimamemarzadeh@Nimas-MacBook-Pro Java MySQL % mysql -u student33 -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 69
Server version: 9.1.0 MySQL Community Server - GPL

Copyright (c) 2000, 2025, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database          |
+-----+
| database          |
| database33        |
| databasedb        |
| information_schema |
| mysql             |
| performance_schema |
| sys               |
+-----+
7 rows in set (0.02 sec)

mysql> █
```

```

mysql> DROP DATABASE databasedb;
Query OK, 1 row affected (0.03 sec)

mysql> CREATE DATABASE databasedb;
Query OK, 1 row affected (0.01 sec)

mysql> use databasedb;
Database changed
mysql> show tables;
Empty set (0.00 sec)

mysql> CREATE TABLE address33(ID int PRIMARY KEY, LASTNAME varchar(40), FIRSTNAME varchar(40), STREET varchar(40), CITY varchar(40), STATE varchar(40), ZIP varchar(40));
INSERT INTO address33 VALUES(24,'Lou','Woods','1919 Bluewing Circle','Bellevue','NE','68123');
INSERT INTO address33 VALUES(25,'Lou','Woods','1919 Bluewing Circle','Bellevue','NE','68123')Query OK, 0 rows affected (0.02 sec)

mysql> INSERT INTO address33 VALUES(24,'Lou','Woods','1919 Bluewing Circle','Bellevue','NE','68123');
INSERT INTO address33 VALUES(25,'Lou','Woods','1919 Bluewing Circle','Bellevue','NE','68123');
INSERT INTO address33 VALUES(26,'Lou','Woods','1919 Bluewing Circle','Bellevue','NE','68123')Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO address33 VALUES(25,'Lou','Woods','1919 Bluewing Circle','Bellevue','NE','68123');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO address33 VALUES(26,'Lou','Woods','1919 Bluewing Circle','Bellevue','NE','68123');
Query OK, 1 row affected (0.00 sec)

mysql> show tables;
+-----+
| Tables_in_databasedb |
+-----+
| address33             |
+-----+
1 row in set (0.00 sec)

mysql> █

```

```
/usr/bin/env /Library/Java/JavaVirtualMachines/jdk-24.jdk/Contents/Home
/bin/java @/var/folders/3m/x10wt6mx105fty_y4b5155_00000gn/T/cp_aw6zfo91x
oqt9doh7yg9xmme3.argfile CreateTable
● nimamemarzadeh@Nimas-MacBook-Pro Java MySQL % /usr/bin/env /Library/Jav
a/JavaVirtualMachines/jdk-24.jdk/Contents/Home/bin/java @/var/folders/3m
/x10wt6mx105fty_y4b5155_00000gn/T/cp_aw6zfo91xoqt9doh7yg9xmme3.argfile C
reateTable
Table address does not exist
Table address Created
Database connections closed
○ nimamemarzadeh@Nimas-MacBook-Pro Java MySQL %
```

```
/usr/bin/env /Library/Java/JavaVirtualMachines/jdk-24.jdk/Contents/Home
/bin/java @/var/folders/3m/x10wt6mx105fty_y4b5155_00000gn/T/cp_aw6zfo91x
oqt9doh7yg9xmme3.argfile InsertData
● nimamemarzadeh@Nimas-MacBook-Pro Java MySQL % /usr/bin/env /Library/Jav
a/JavaVirtualMachines/jdk-24.jdk/Contents/Home/bin/java @/var/folders/3m
/x10wt6mx105fty_y4b5155_00000gn/T/cp_aw6zfo91xoqt9doh7yg9xmme3.argfile I
nsertData
1row updated
1row updated
1row updated
1row updated
1row updated
1row updated
1row updated
1row updated
1row updated
Data Inserted
Database connections closed
○ nimamemarzadeh@Nimas-MacBook-Pro Java MySQL %
```

```
/usr/bin/env /Library/Java/JavaVirtualMachines/jdk-24.jdk/Contents/Home
/bin/java @/var/folders/3m/x10wt6mx105fty_y4b5155_00000gn/T/cp_aw6zfo91x
oqt9doh7yg9xmme3.argfile Select5
nimamemarzadeh@Nimas-MacBook-Pro Java MySQL % /usr/bin/env /Library/Jav
a/JavaVirtualMachines/jdk-24.jdk/Contents/Home/bin/java @/var/folders/3m
/x10wt6mx105fty_y4b5155_00000gn/T/cp_aw6zfo91xoqt9doh7yg9xmme3.argfile S
elect5
Connection established - now executing a select
Received Results:
1
Fine
Ruth
1111 Redwing Circle
Bellevue
NE
68123

2
Howard
Curly
1000 Galvin Road South
Bellevue
NE
68005

3
Howard
Will
2919 Redwing Circle
Bellevue
NE
68123

4
Wilson
Larry
1121 Redwing Circle
Bellevue
NE
68124

5
Johnson
George
1300 Galvin Road South
Bellevue
NE
68006

6
Long
Matthew
2419 Redwing Circle
Bellevue
NE
68127

44
Tom
Matthew
1999 Redwing Circle
Bellevue
NE
68123

55
Larry
Rich
1111 Redwing Circle888
Bellevue
NE
68123

○ nimamemarzadeh@Nimas-MacBook-Pro Java MySQL %
```

These screenshots are for the Java code I wrote myself to connect to MySQL, create a database, and insert some queries.

```
nimamemarzadeh@Nimas-MacBook-Pro Java MySQL % mysql -u root -p
```

```
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

```
mysql> SELECT User, Host FROM mysql.user  
-> ;
```

User	Host
mysql.infoschema	localhost
mysql.session	localhost
mysql.sys	localhost
root	localhost
student33	localhost

```
5 rows in set (0.00 sec)
```

```
mysql> CREATE USER student1 IDENTIFIED BY 'pass';  
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> █
```

```
mysql> GRANT ALL PRIVILEGES ON * . * TO student1;  
Query OK, 0 rows affected (0.00 sec)
```

```
nimamemarzadeh@Nimas-MacBook-Pro Java MySQL % mysql -u student1 -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 33
Server version: 9.1.0 MySQL Community Server - GPL

Copyright (c) 2000, 2025, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> █
```

```
mysql> DROP DATABASE databasedb;
Query OK, 0 rows affected (0.01 sec)

mysql> CREATE DATABASE databasedb;
Query OK, 1 row affected (0.00 sec)

mysql> use databasedb;
Database changed
mysql> show tables;
Empty set (0.00 sec)

mysql> █
```

```
mysql> CREATE TABLE address33(ID int PRIMARY KEY, LASTNAME varchar(40), FIRSTNAME varchar(40), STREET varchar(40), CITY varchar(40), STATE varchar(40), ZIP varchar(40));
INSERT INTO address33 VALUES(24,'Lou','Woods','1919 Bluewing Circle','Bellevue','NE','68123');
Query OK, 0 rows affected (0.01 sec)

mysql> INSERT INTO address33 VALUES(24,'Lou','Woods','1919 Bluewing Circle','Bellevue','NE','68123');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO address33 VALUES(25,'Lou','Woods','1919 Bluewing Circle','Bellevue','NE','68123');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO address33 VALUES(26,'Lou','Woods','1919 Bluewing Circle','Bellevue','NE','68123');
Query OK, 1 row affected (0.00 sec)

mysql> show tables;
+-----+
| Tables_in_databasedb |
+-----+
| address33              |
+-----+
1 row in set (0.00 sec)
```

```
● nimamemarzadeh@Nimas-MacBook-Pro Java MySQL % cd /Users/nimamemarzadeh/Desktop/believe/java/advance/csd-420/module-9/Java\ MySQL ; /usr/bin/env /Library/Java/JavaVirtualMachines/jdk-24.jdk/Contents/Home/bin/java @/var/folders/3m/x10wt6mx105fty_y4b5155_00000gn/T/cp_aw6zfo91xoqt9doh7yg9xmme3.argfile TestConnection
--- Starting Database Connection Test ---
Loading MySQL JDBC driver...
Driver loaded successfully.
Attempting to connect to database: jdbc:mysql://localhost:3306/databasedb? with user: student1
Connection successful!

-----
Creating statement object...
Statement object created.

-----
Attempting to drop table 'address33' if it exists...
Table address33 dropped (if it existed).

-----
Attempting to create table 'address33'...
Table address33 created successfully.

-----
Attempting to insert data into 'address33'...
Inserting record 1...
Inserting record 2...
Inserting record 3...
3 records inserted successfully into address33.

-----
--- Starting Cleanup ---
Closing statement...
Statement closed.
Closing database connection...
Database connection closed.
--- Database Connection Test Finished ---
○ nimamemarzadeh@Nimas-MacBook-Pro Java MySQL %
```