Lesson 02 Demo 01

Implementing Insert, Update, and Delete Operations

Objective: To implement insert, update, and delete records in the database using SQL commands

Tools Required: MySQL

Prerequisites: None

Steps to be followed:

1. Insert, update, and delete records from the table

Step 1: Insert, update, and delete records from the table

1.1 Open the terminal and execute the following command to display the available databases:

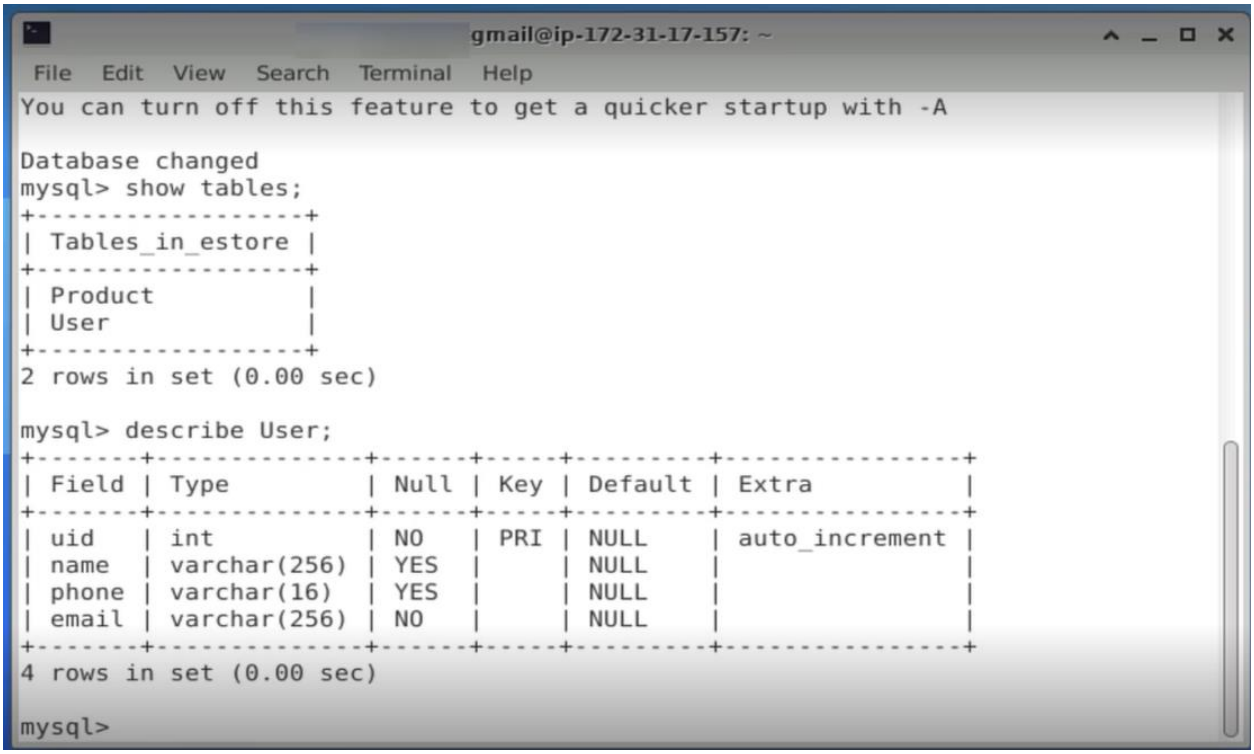
show databases;

```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| estore             |
| information_schema |
| mydb               |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
6 rows in set (0.01 sec)

mysql>
```

1.2 Describe the structure of **User** table with the command:

describe User;

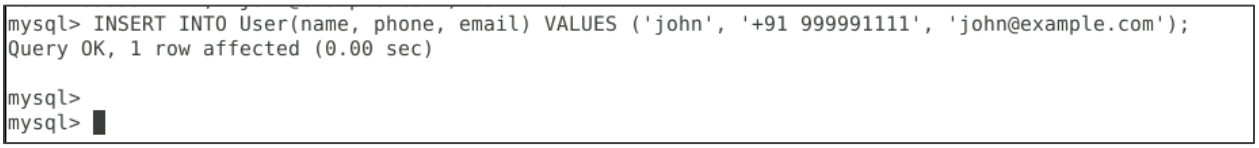


1.3 Check existing records in a table with the command:

select * from User;

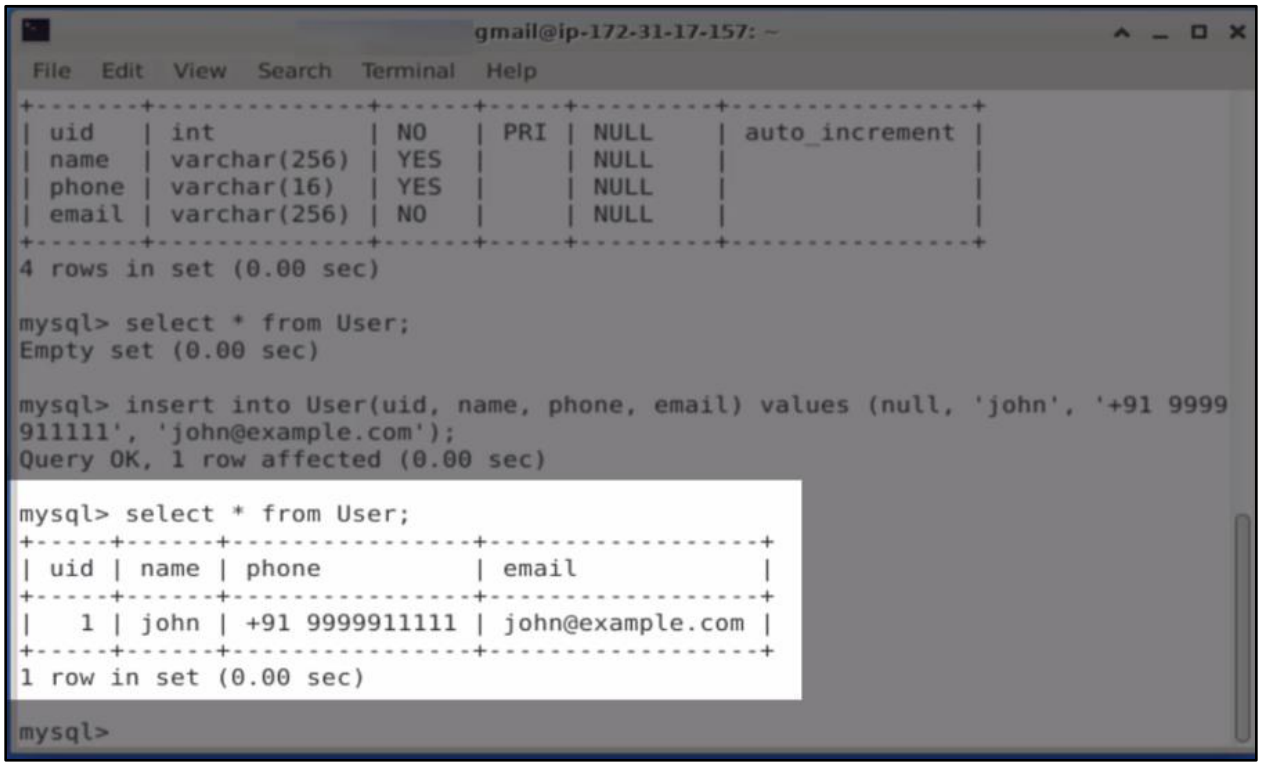
1.4 Insert data into the **User** table using the following command:

INSERT INTO User(name, phone, email) VALUES ('john', '+91 999991111', 'john@example.com');



1.5 To verify the insertion, execute the following command to display all records in the **User** table:

select * from User;

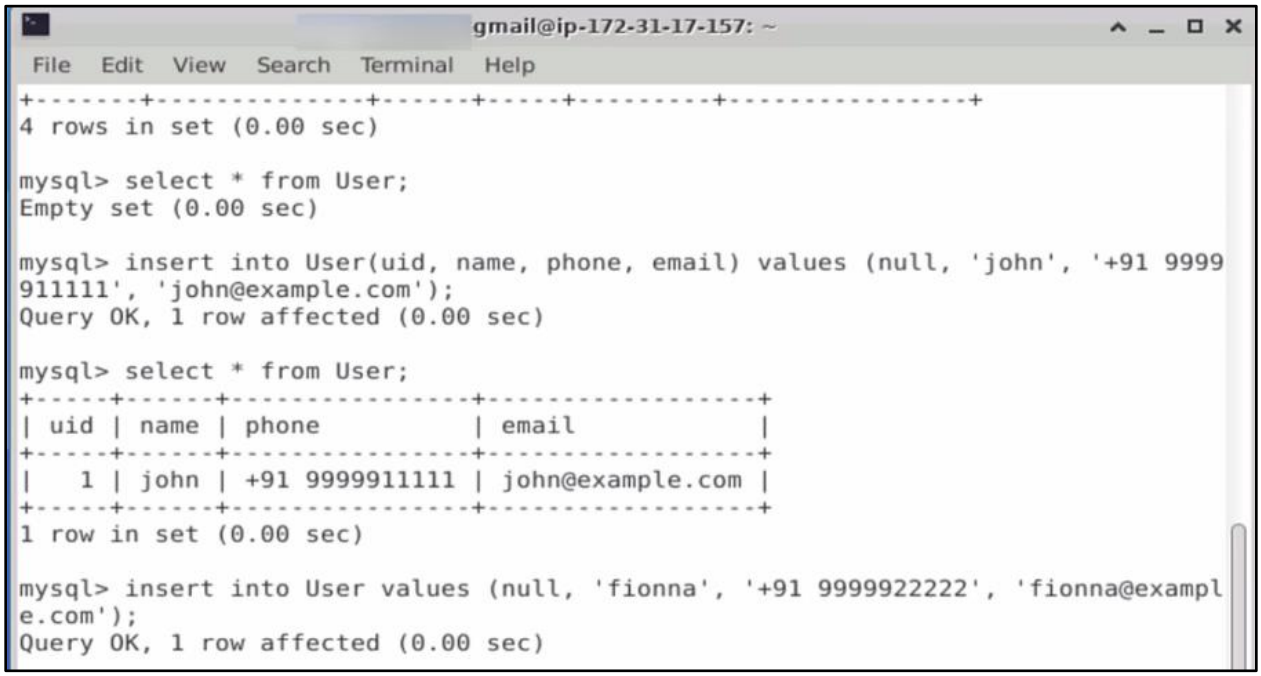


You should be able to see the first record you inserted.

1.6 Execute the following command to perform alternative insert queries without specifying column names:

insert into User values (null, 'fionna', '+91 999922222', 'fionna@example.com');

insert into User (uid, name, email) values (null, 'john', 'john@example.com');



1.7 Check existing records in a table with the command:

select * from User;

1.8 Write an **update** statement to modify the data in the **User** table

update User set name = 'mike', phone = '+91 9090910101', email = 'mike@example.com' where uid = 3;

```
mysql> update User set name = 'mike', phone='+91 9090910101', email = 'mike@exam
ple.com' where uid = 3;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from User;
+-----+--------+----------------+--------------------+
| uid | name   | phone          | email              |
+-----+--------+----------------+--------------------+
|   1 | john   | +91 9999911111 | john@example.com   |
|   2 | fionna | +91 9999922222 | fionna@example.com |
|   3 | mike   | +91 9090910101 | mike@example.com   |
+-----+--------+----------------+--------------------+
3 rows in set (0.00 sec)

mysql>
```

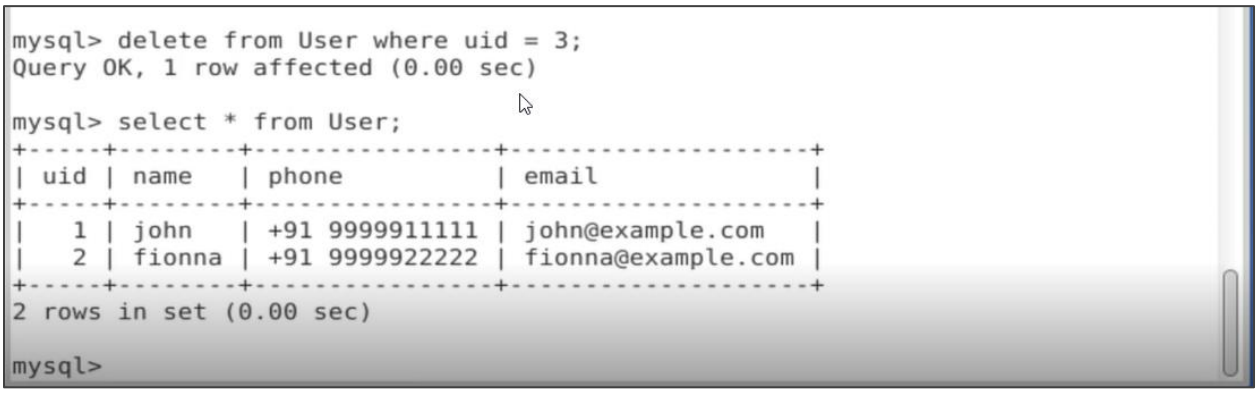
1.9 Check existing records in a table with the command:

select * from User;

```
mysql> select * from User;
+-----+--------+----------------+--------------------+
| uid | name   | phone          | email              |
+-----+--------+----------------+--------------------+
|   1 | john   | +91 9999911111 | john@example.com   |
|   2 | fionna | +91 9999922222 | fionna@example.com |
|   3 | mike   | +91 9888812345 | mike@example.com   |
+-----+--------+----------------+--------------------+
3 rows in set (0.00 sec)
```

1.10 Delete a record from the table using the command:
delete from User where uid = 3;

1.11 Execute the following command to verify that all records have been deleted from the **User** table:
select * from User;



By following these steps, you have successfully implemented the insert, update, and delete operations in the database.