

# Lesson 05 Demo 03 Inserting, Updating, and Deleting Records

Objective: To demonstrate the basic operations such as inserting, updating, and deleting

records in a MySQL table

Tools required: MySQL

Prerequisites: None

Steps to be followed:

1. Set up a database and table

- 2. Insert records
- 3. Update records
- 4. Delete records

## Step 1: Set up a database and table

1.1 Open a terminal window and access MySQL as a root user: sudo mysql -u root

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1: labuser@ubuntu2204: ~ $ sudo mysql -u root
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 36
Server version: 10.6.11-MariaDB-0ubuntu0.22.04.1 Ubuntu 22.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

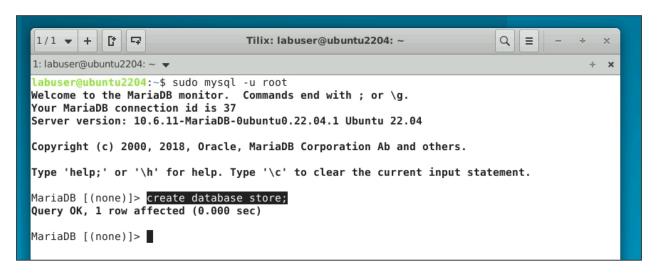
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]>
```



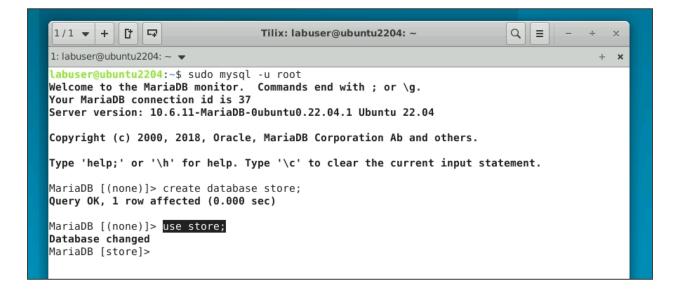
1.2 Create a new database named store:

create database store;



1.3 Select the **store** database:

use store;



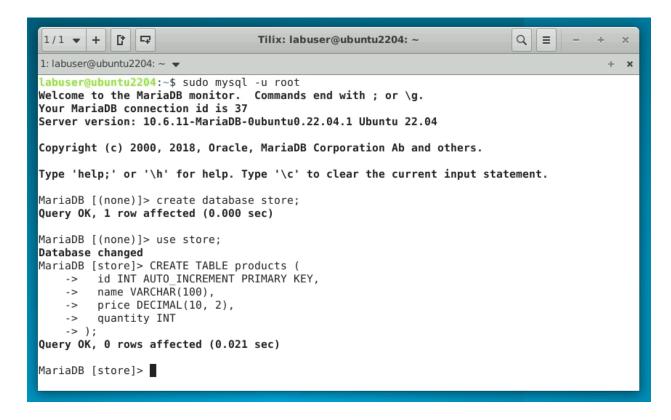


1.4 Create a **products** table with relevant fields: CREATE TABLE products (
id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(100), price DECIMAL(10, 2),

quantity INT

);





### **Step 2: Insert records**

2.1 Insert data into the products table:

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INSERT INTO products (name, price, quantity) VALUES ('Laptop', 1200.00, 10), ('Smartphone', 800.00, 15), ('Tablet', 450.00, 20);
```

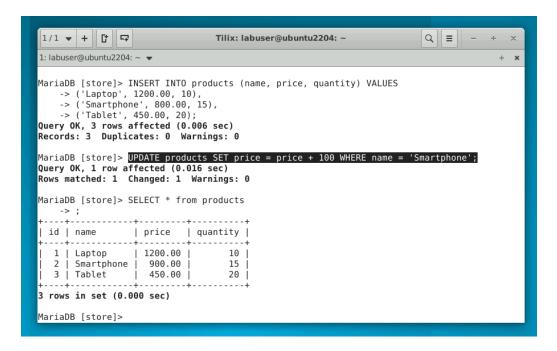
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1: labuser@ubuntu2204: ~ ▼
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)]> create database store;
Query OK, 1 row affected (0.000 sec)
MariaDB [(none)]> use store;
Database changed
MariaDB [store]> CREATE TABLE products (
   -> id INT AUTO_INCREMENT PRIMARY KEY,
   -> name VARCHAR(100),
   -> price DECIMAL(10, 2),
   -> quantity INT
   -> );
Query OK, 0 rows affected (0.021 sec)
MariaDB [store]> INSERT INTO products (name, price, quantity) VALUES
   -> ('Laptop', 1200.00, 10),
   -> ('Smartphone', 800.00, 15),
   -> ('Tablet', 450.00, 20);
Query OK, 3 rows affected (0.006 sec)
Records: 3 Duplicates: 0 Warnings: 0
MariaDB [store]>
```



### **Step 3: Update records**

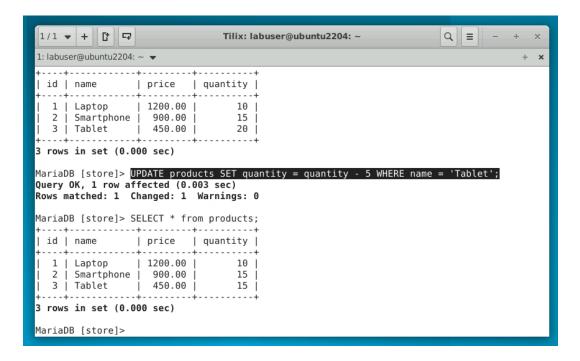
3.1 Increase the price of Smartphone by 100:

UPDATE products SET price = price + 100 WHERE name = 'Smartphone';



3.2 Reduce the quantity of **Tablet** by **5**:

UPDATE products SET quantity = quantity - 5 WHERE name = 'Tablet';

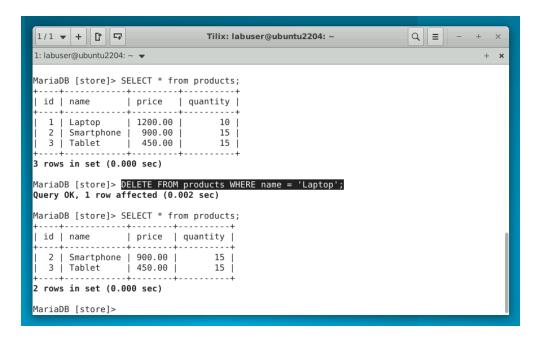




### **Step 4: Delete records**

4.1 Delete the **Laptop** record from the table:

**DELETE FROM products WHERE name = 'Laptop'**;



4.2 Remove all products with a price over **900**:

**DELETE FROM products WHERE price > 900;** 

By following these steps, you have successfully executed the fundamental operations of inserting, updating, and deleting records in a MySQL table.