Lesson 05 Demo 01

Creating Databases and Tables

Objective: To demonstrate the process of creating, modifying, and managing databases and tables using MySQL commands in a terminal

Tools required: MySQL

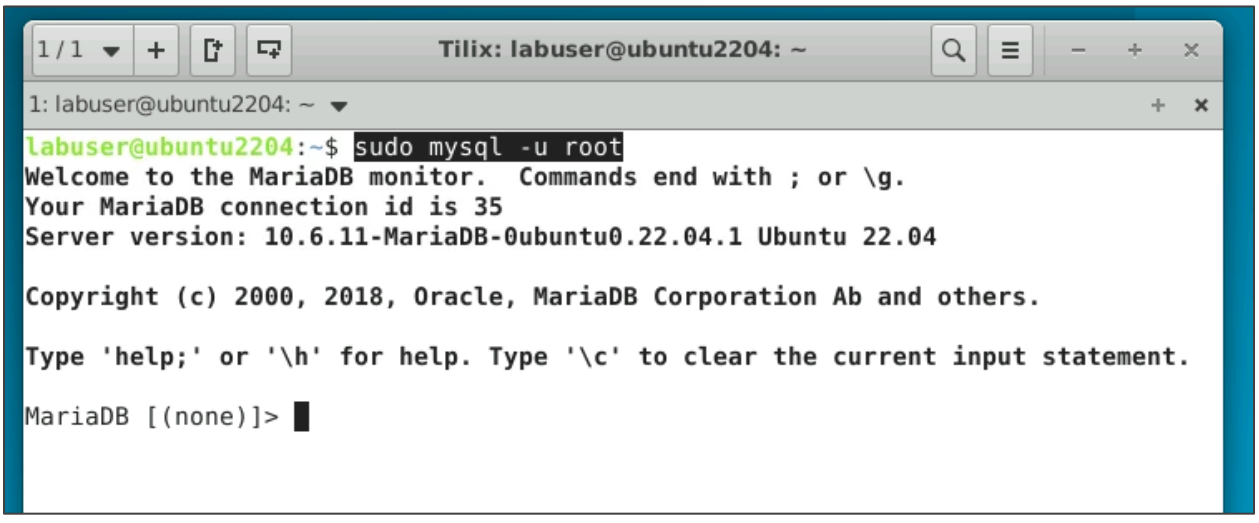
Prerequisites: None

Steps to be followed:

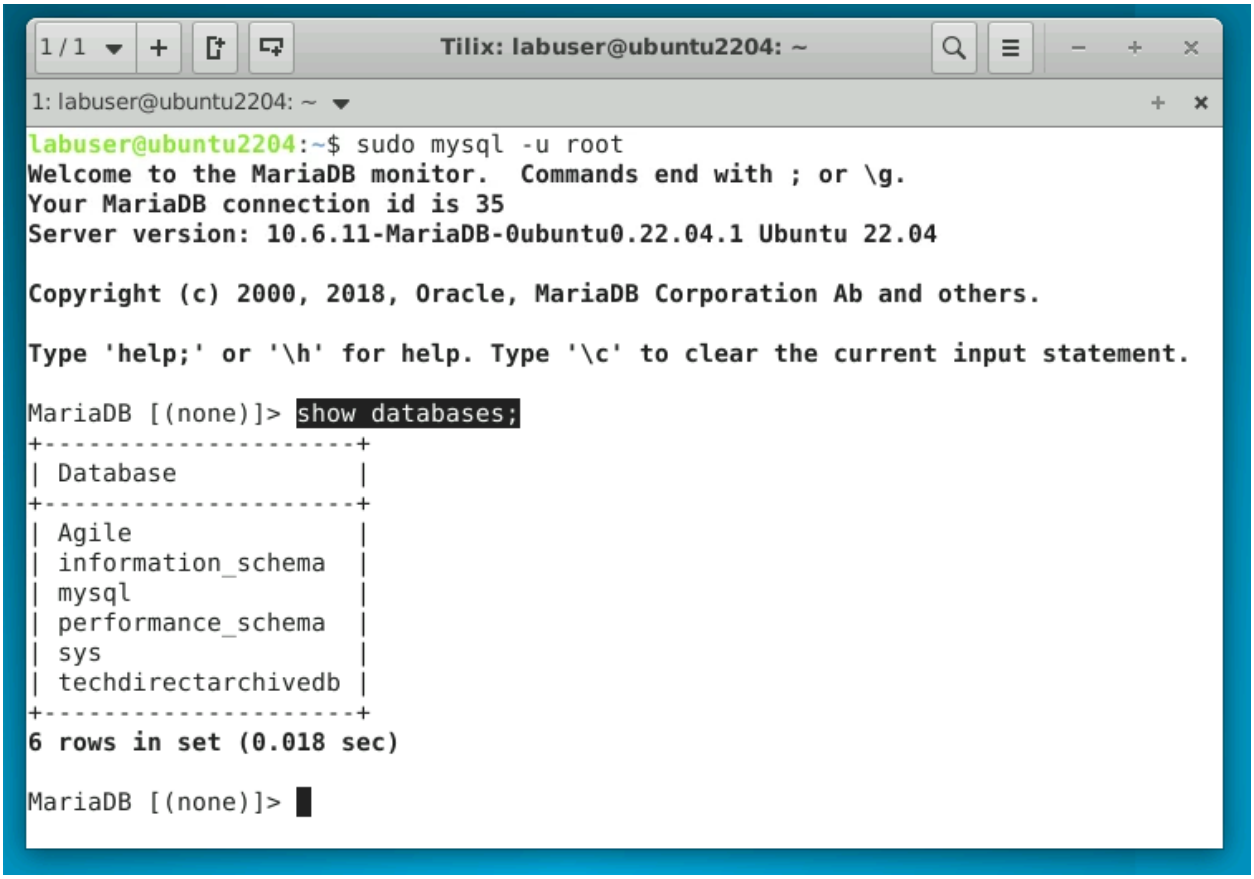
1. Create a database and tables

Step 1: Create a database and tables

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



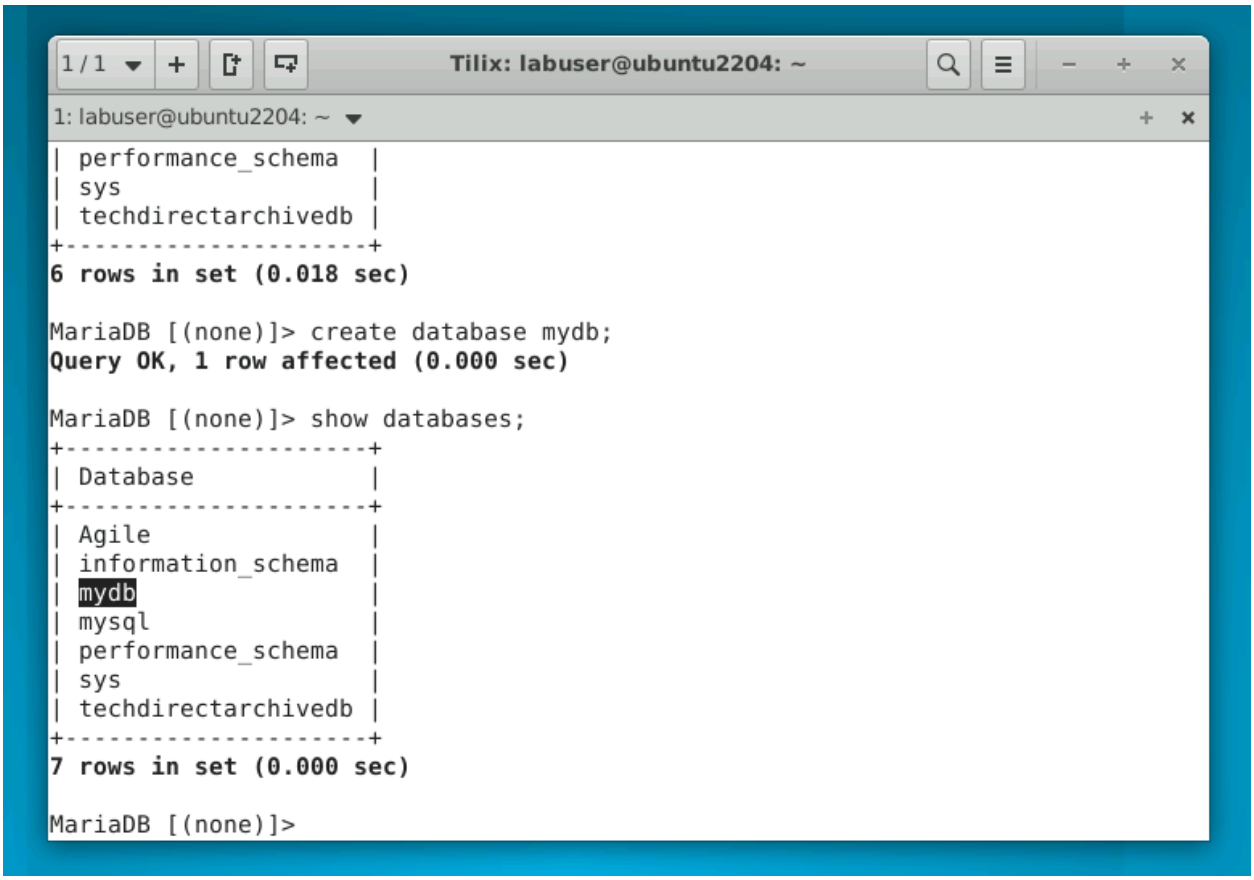
1.2 To view all existing databases in MySQL, use the following command:
show databases;



1.3 Create a new database named **mydb** and verify the creation using the below commands:

create database mydb;

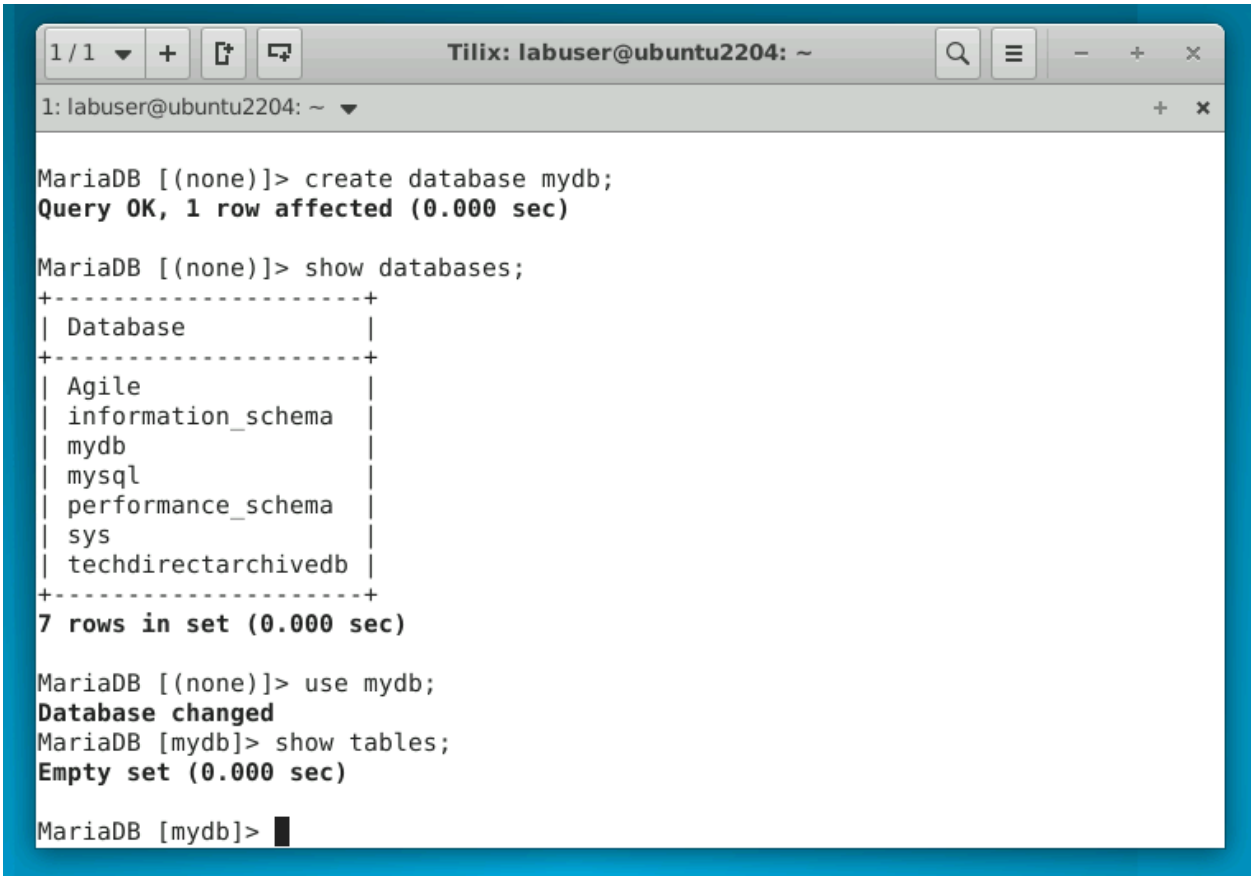
show databases;



1.4 Switch your context to the newly created **mydb** database and check if there are any tables present using these commands:

use mydb;

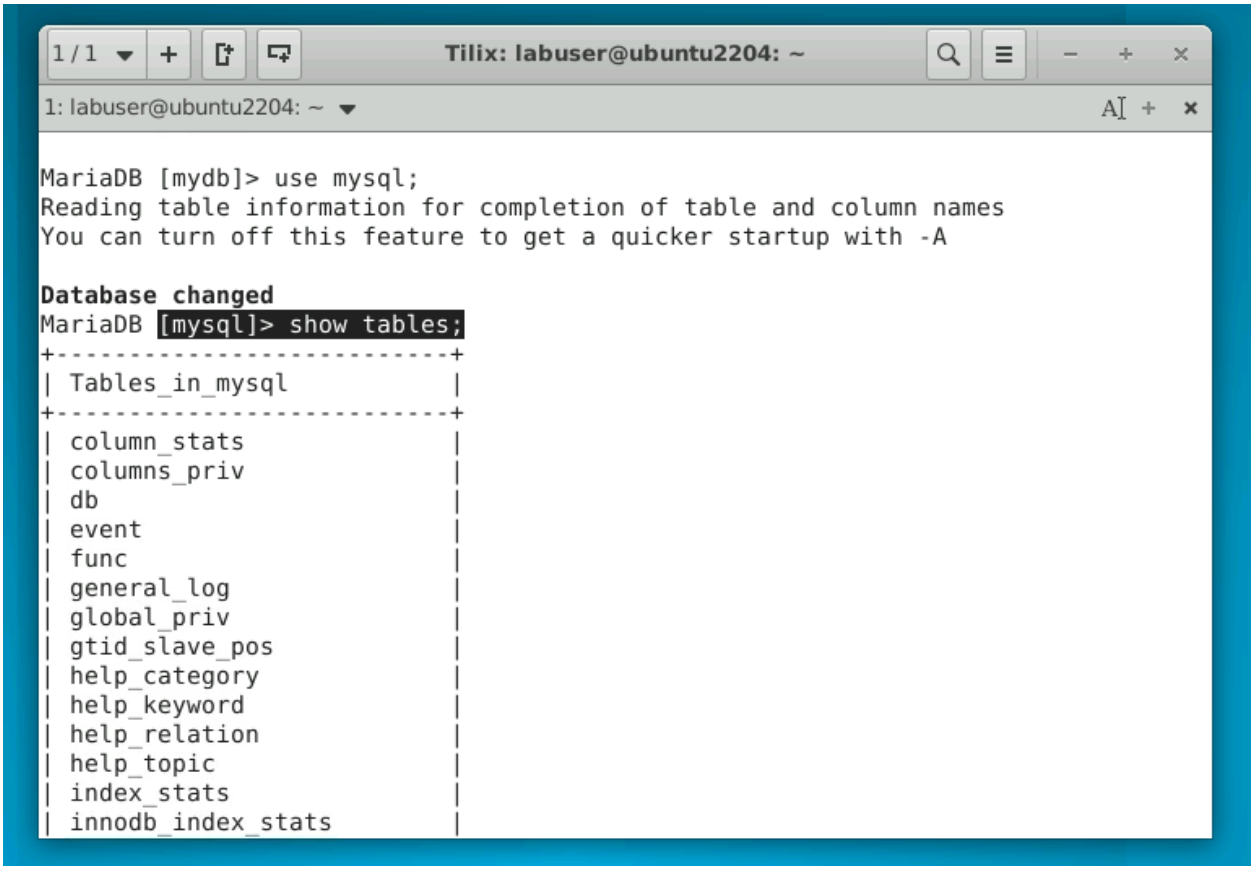
show tables;



1.5 To see the tables in the default **mysql** database, switch to it and list its tables:

use mysql;

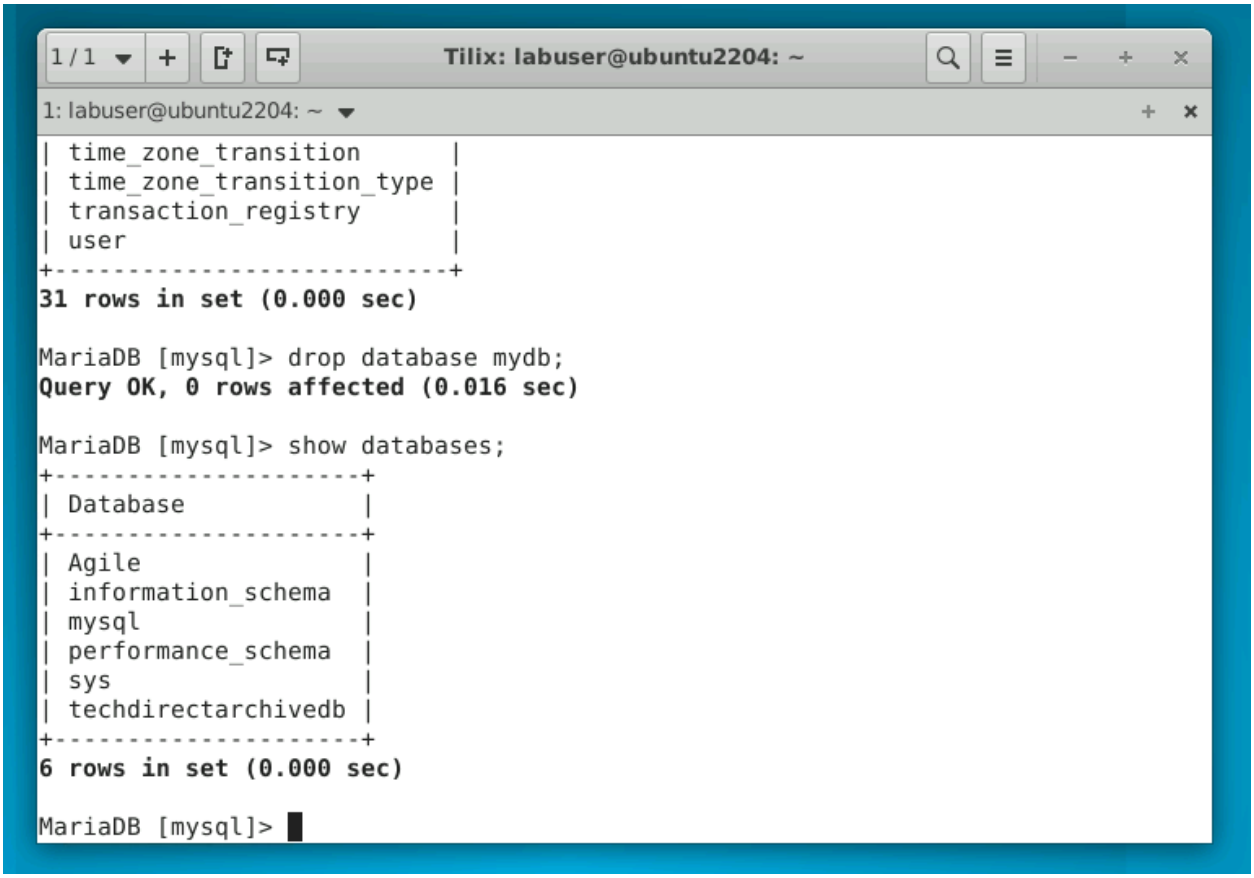
show tables;



1.6 Remove the **mydb** database from MySQL and confirm its deletion:

drop database mydb;

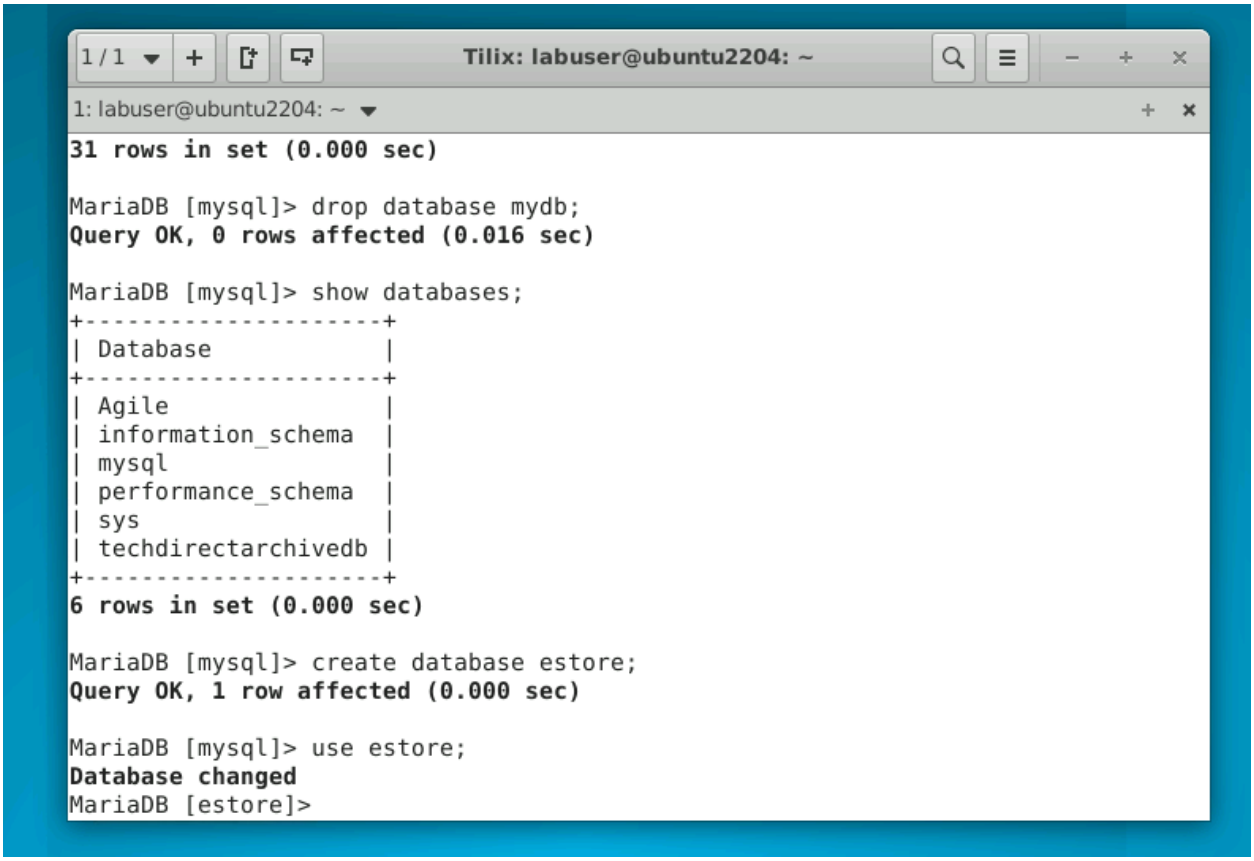
show databases;



1.7 Create an **estore** database and switch to it:

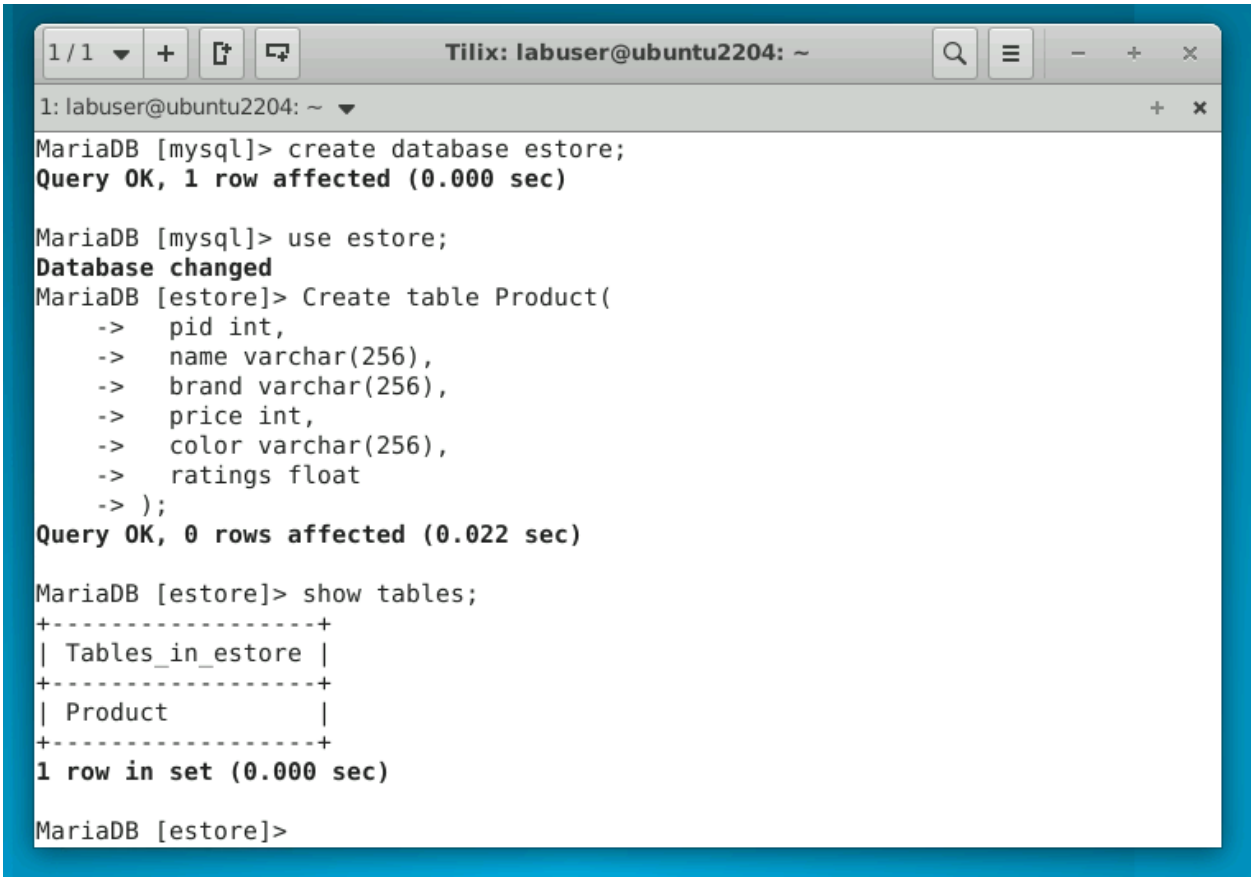
create database estore;

use estore;



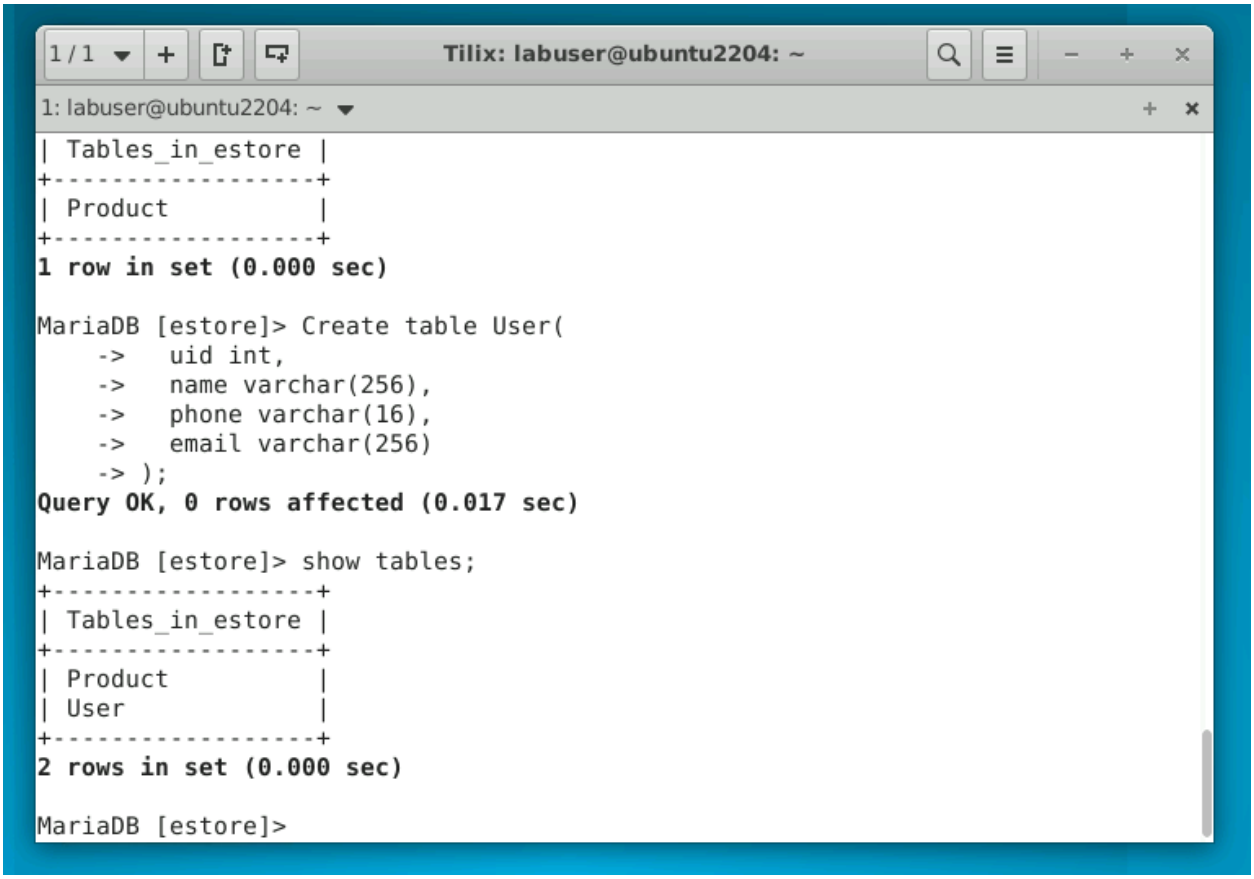
1.8 Define and create a **Product** table in the **estore** database. Confirm its creation by listing the tables:

```
Create table Product(
  pid int,
  name varchar(256),
  brand varchar(256),
  price int,
  color varchar(256),
  ratings float
);
show tables;
```



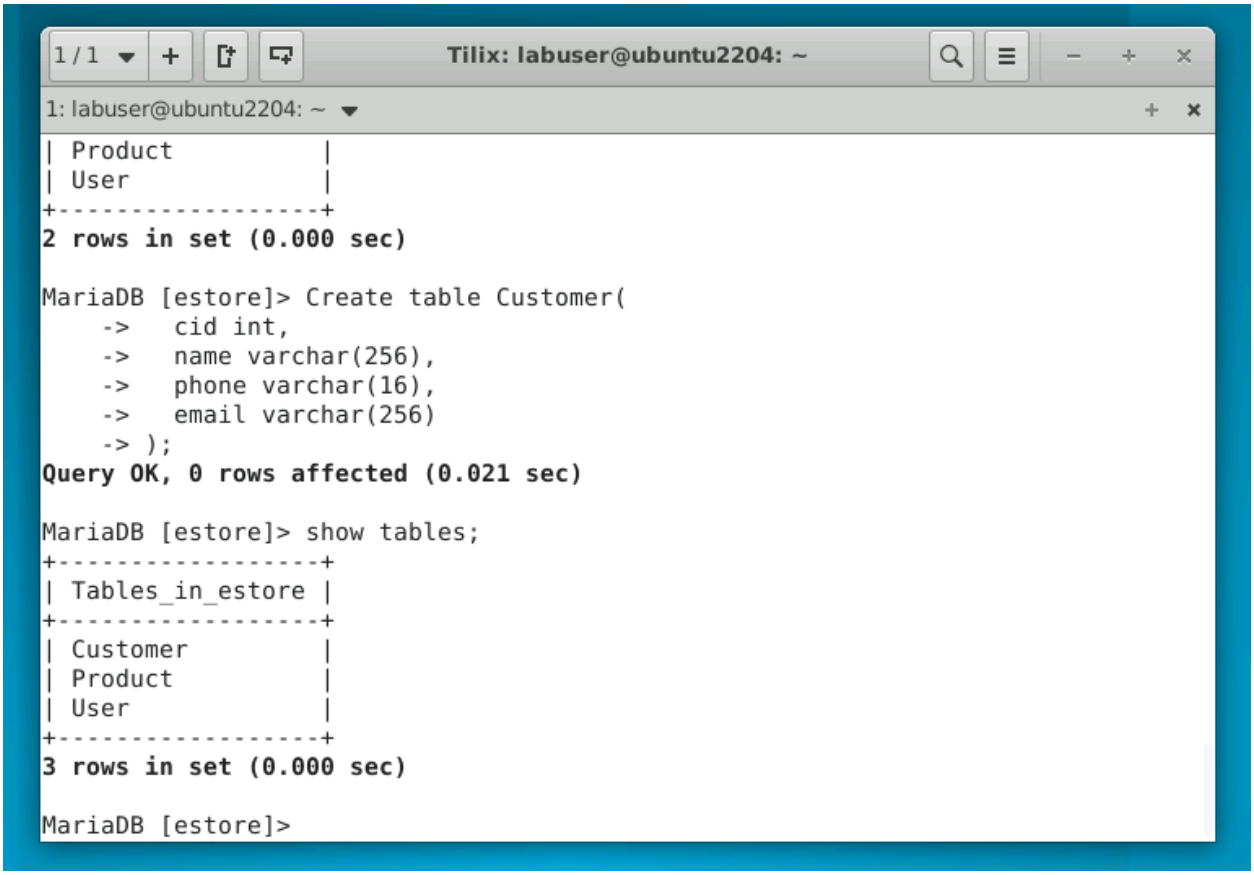
1.9 Similarly, define and create a **User** table in the same database. Now, confirm its creation:

```
Create table User(
  uid int,
  name varchar(256),
  phone varchar(16),
  email varchar(256)
);
show tables;
```



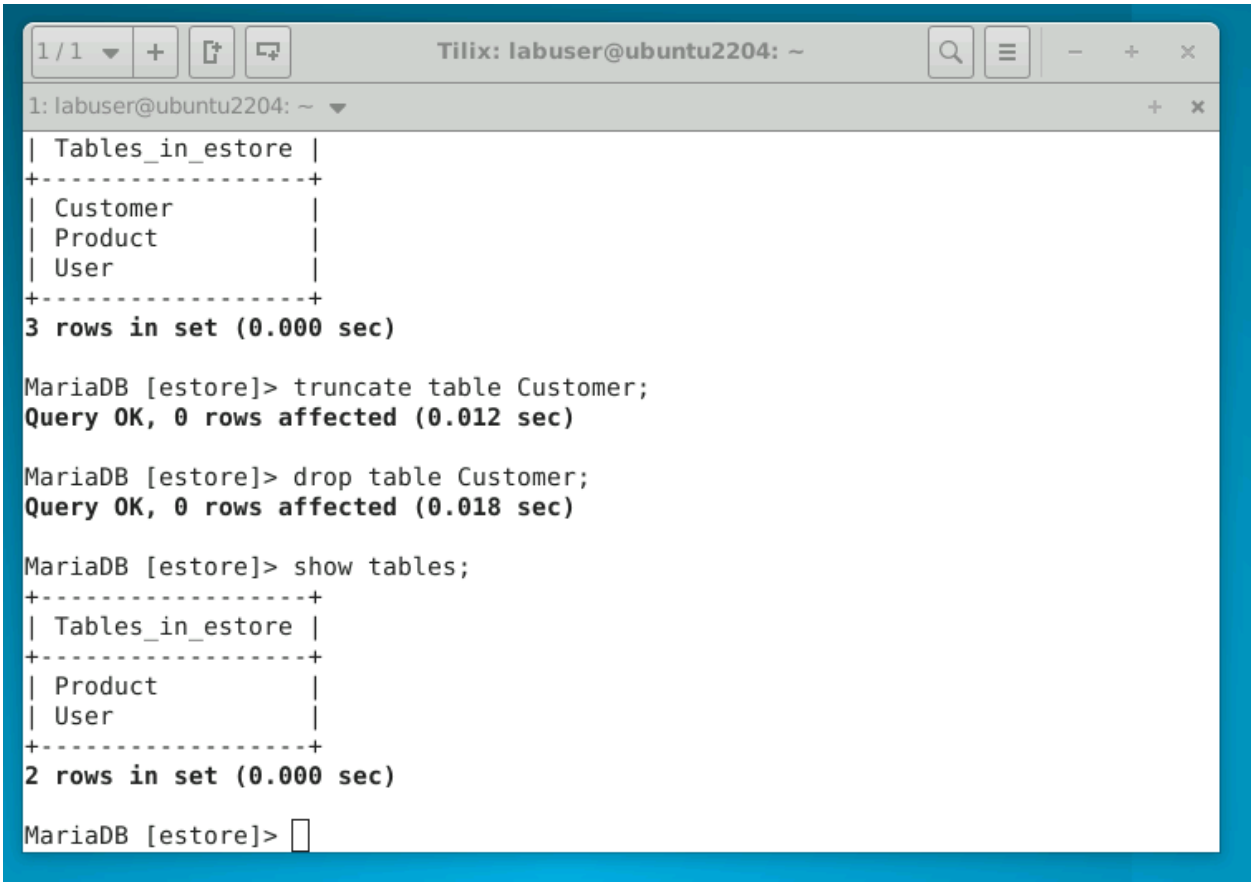
1.10 For illustration, create a dummy table named **Customer** and check for its presence:

```
Create table Customer(
  cid int,
  name varchar(256),
  phone varchar(16),
  email varchar(256)
);
show tables;
```



1.11 Delete the **Customer** table and verify its removal:

truncate table Customer;
drop table Customer;
show tables;



By following these steps, you have successfully performed key operations in MySQL, including creating and deleting databases and tables.