

Lesson 01 Demo 01

Creating Databases and Tables

Project Agenda: To create database and tables

Tools required: MySQL shell

Prerequisites: SQL

Steps to be followed:

1. Open MySQL shell in terminal

2. Create a database mydb

3. Delete mydb

- 4. Create a new database named estore
- 5. Create a table named Product
- 6. Create two tables named User and Orders
- 7. Alter the table

Step 1: Open MySQL shell in terminal

1.1 Open the terminal in lab and type the following command to open MySQL shell: sudo mysql -u root -p (password can be empty for this root user)

```
File Edit View Search Terminal Help

srijanighataksi@ip-172-31-27-104:~

Enter password:

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 10

Server version: 8.0.29-0ubuntu0.20.04.3 (Ubuntu)

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

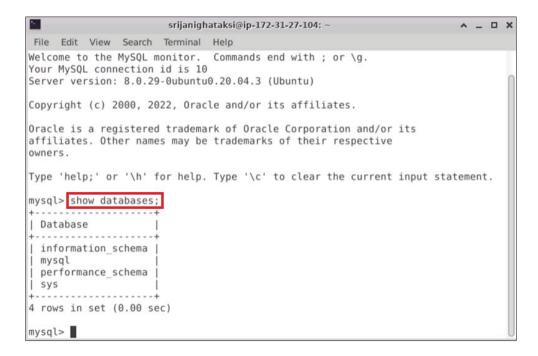
mysql>
```



Step 2: Create a database mydb

2.1 Run the following command to check the existing databases:

show databases;



2.2 Create a database using the following command:

create database mydb;



2.3 Check if mydb is created or not

```
srijanighataksi@ip-172-31-27-104: ~
                                                                     ^ _ D X
File Edit View Search Terminal Help
+----+
information schema
mysql
| performance_schema
sys
4 rows in set (0.00 sec)
mysql> create database mydb;
Query OK, 1 row affected (0.01 sec)
mysql> show databases;
Database
 <u>infor</u>mation_schema |
mydb
mysql
performance schema
sys
5 rows in set (0.00 sec)
mysql>
```

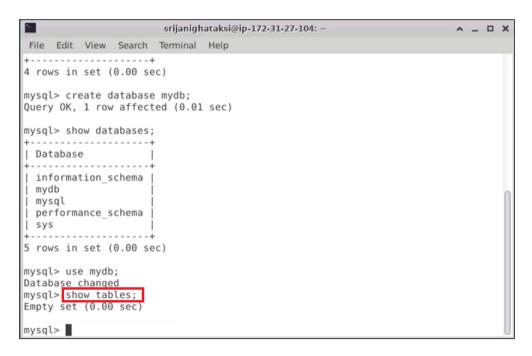
2.4 Change current database to mydb:

use mydb;

```
srijanighataksi@ip-172-31-27-104: ~
                                                                      ^ _ U X
File Edit View Search Terminal Help
| mysql
performance schema
sys
4 rows in set (0.00 sec)
mysql> create database mydb;
Query OK, 1 row affected (0.01 sec)
mysql> show databases;
Database
| information_schema |
mydb
mysql
performance schema
sys
5 rows in set (0.00 sec)
mysql> use mydb;
Database changed
mysql>
```



2.5 Check if there is any default table in **mydb** using the below command: **show tables**;



Step 3: Delete mydb

3.1 Delete **mydb** using the below command: **drop database mydb**;

```
srijanighataksi@ip-172-31-27-104: ~
File Edit View Search Terminal Help
5 rows in set (0.00 sec)
mysql> use mydb;
Database changed
mysql> show tables;
Empty set (0.00 sec)
mysql> drop database mydb;
Query OK, 0 rows affected (0.01 sec)
mysql> show databases;
| Database
| information_schema |
mysql
| performance_schema
sys
4 rows in set (0.00 sec)
mysql>
```



Step 4: Create a new database named estore

4.1 Run the following commands to create a new database and use it:

create database estore; use estore;

```
mysql> create database estore;
Query OK, 1 row affected (0.01 sec)

mysql> use estore;
Database changed
```

Step 5: Create a new table named Product

5.1 Run the following commands to create a new table **Product** and to show it: create table **Product** (pid int, name varchar (256), brand varchar (256), price int, color varchar (256), ratings float);

Step 6: Create two tables named User and Orders

6.1 Run the following commands to create new tables **User** and **Orders** and to show it:

create table User (uid int, email varchar (256), password varchar (256), name varchar (256), age int); create table Orders (oid int, useremail varchar (256), amount int); show tables;



```
srijanighataksi@ip-172-31-27-104: ~
                                                                                                                       ^ _ D X
 File Edit View Search Terminal Help
+----+
| Product
1 row in set (0.01 sec)
mysql> create table User(uid int, email varchar(256), password varchar(256), name varchar(256), age int);
Query UK, θ rows affected (θ.θ3 sec)
mysql> show tables;
| Tables_in_estore |
Product
User
2 rows in set (0.00 sec)
mysql> create table Orders(oid int, useremail varchar(256), amount int); Query 0K, \theta rows affected (\theta.\theta3 sec)
mysql> show tables;
| Tables in estore |
| Orders
 Product
User
3 rows in set (0.00 sec)
mysql>
            Ι
```

Step 7: Alter the table

7.1 Alter and confirm the table using the below mentioned commands:

describe User; alter table User add prime int; describe User;

