Exercise: 01

Topic: Introduction to MySQL

Lab Date: 08/12/2021

Reg. No: E/18/397

01) Display all the existing databases in MySQL server host.

```
MySQL 8.0 Command Line Client
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| sakila             |
| sql_hr             |
| sql_inventory      |
| sql_invoicing      |
| sql_store          |
| sys                |
| world              |
+--------------------+
10 rows in set (0.00 sec)

mysql>
```

02) Create a database called "BookShop".

```
mysql> create database BookShop;
Query OK, 1 row affected (0.04 sec)

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| bookshop           |
| information_schema |
| mysql              |
| performance_schema |
| sakila             |
| sql_hr             |
| sql_inventory      |
| sql_invoicing      |
| sql_store          |
| sys                |
| world              |
+--------------------+
11 rows in set (0.00 sec)

mysql>
```

03) Select or access the "BookShop" database.

```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| bookshop           |
| information_schema |
| mysql              |
| performance_schema |
| sakila             |
| sql_hr             |
| sql_inventory      |
| sql_invoicing      |
| sql_store          |
| sys                |
| world              |
+--------------------+
11 rows in set (0.00 sec)

mysql> use bookshop;
Database changed
mysql>
```

04) Within that database, create a table called "Book" with the following fields.

| Field Name | Type | Field Size |
|---|---|---|
| BookID | Text | 5 |
| Title | Text | 50 |
| Author | Text | 30 |
| Category | Number | |
| Price | Currency | (8,2) |
| PubID | Text | 6 |

```
mysql> CREATE TABLE Book
    -> (BookID CHAR(5),
    -> Title VARCHAR(50),
    -> Author VARCHAR(30),
    -> Category INT,
    -> Price NUMERIC(8,2),
    -> PubID CHAR(6)
    -> );
Query OK, 0 rows affected (0.23 sec)

mysql>
```

## 05) Display the structure of the "Book" table.

```
mysql> SHOW TABLES;
+-------------------+
| Tables_in_bookshop |
+-------------------+
| book              |
+-------------------+
1 row in set (0.00 sec)

mysql> DESC book;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| BookID   | char(5)     | YES  |     | NULL    |       |
| Title    | varchar(50) | YES  |     | NULL    |       |
| Author   | varchar(30) | YES  |     | NULL    |       |
| Category | int         | YES  |     | NULL    |       |
| Price    | decimal(8,2)| YES  |     | NULL    |       |
| PubID    | char(6)     | YES  |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
6 rows in set (0.01 sec)

mysql>
```

## 06) Create another table called "Publisher" with the following fields.

| Field Name     | Type | Field Size |
|----------------|------|------------|
| PubID          | Text | 6          |
| PublisherName  | Text | 30         |
| RegisteredDate | Date |            |
| Country        | Text | 15         |

```
mysql> CREATE TABLE Publisher
    -> (PubID CHAR(6),
    -> PublisherName VARCHAR(30),
    -> RegisteredDate DATE,
    -> Country VARCHAR(15)
    -> );
Query OK, 0 rows affected (0.04 sec)

mysql>
```

## 07) Display the structure of the "Publisher" table.

```
mysql> DESC Publisher;
+----------------+-------------+------+-----+---------+-------+
| Field          | Type        | Null | Key | Default | Extra |
+----------------+-------------+------+-----+---------+-------+
| PubID          | char(6)     | YES  |     | NULL    |       |
| PublisherName  | varchar(30) | YES  |     | NULL    |       |
| RegisteredDate | date        | YES  |     | NULL    |       |
| Country        | varchar(15) | YES  |     | NULL    |       |
+----------------+-------------+------+-----+---------+-------+
4 rows in set (0.01 sec)

mysql>
```

08) Display all the tables in the "BookShop" database.

```
mysql> SHOW TABLES;
+--------------------+
| Tables_in_bookshop |
+--------------------+
| book               |
| publisher          |
+--------------------+
2 rows in set (0.00 sec)

mysql>
```

09) Remove the table "Book".

```
mysql> DROP TABLE book;
Query OK, 0 rows affected (0.07 sec)

mysql> SHOW TABLES;
+--------------------+
| Tables_in_bookshop |
+--------------------+
| publisher          |
+--------------------+
1 row in set (0.06 sec)

mysql>
```

10) Remove the database "BookShop".

```
mysql> DROP DATABASE bookshop;
Query OK, 1 row affected (0.17 sec)

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| sakila             |
| sql_hr             |
| sql_inventory      |
| sql_invoicing      |
| sql_store          |
| sys                |
| world              |
+--------------------+
10 rows in set (0.00 sec)

mysql>
```