Name:
Mustansir Bohari

PRN number:
12110341

AI&DS Batch-B2
Roll no.: 30

Lab Assignment 1

Tasks:

1. Create database and table

```
C:\>cd xampp

C:\xampp>cd mysql

C:\xampp\mysql>cd bin

C:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 9
Server version: 10.4.24-MariaDB mariadb.org binary distribution

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)]> create database lab1;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| ethfund            |
| gatesofgotham      |
| information_schema |
| lab1               |
| mysql              |
| performance_schema |
| phpmyadmin         |
+--------------------+
7 rows in set (0.001 sec)
```

```
MariaDB [(none)]> use lab1
Database changed
MariaDB [lab1]> create table table1(
    -> id int NOT NULL auto_increment,
    -> name varchar(100) not null,
    -> age int not null,
    -> branch varchar(100) not null,
    -> primary key (id)
    -> );
Query OK, 0 rows affected (0.061 sec)
```

```
MariaDB [lab1]> show tables;
+----------------+
| Tables_in_lab1 |
+----------------+
| table1         |
+----------------+
1 row in set (0.001 sec)
```

```
MariaDB [lab1]> describe table1
    -> ;
+--------+--------------+------+-----+---------+----------------+
| Field  | Type         | Null | Key | Default | Extra          |
+--------+--------------+------+-----+---------+----------------+
| id     | int(11)      | NO   | PRI | NULL    | auto_increment |
| name   | varchar(100) | NO   |     | NULL    |                |
| age    | int(11)      | NO   |     | NULL    |                |
| branch | varchar(100) | NO   |     | NULL    |                |
+--------+--------------+------+-----+---------+----------------+
4 rows in set (0.049 sec)
```

2. Insert data in table

```
MariaDB [lab1]> insert into table1 values(2, "Omkar Mundlik", 19, "AI&DS", "Latur");
Query OK, 1 row affected (0.039 sec)
```

```
MariaDB [lab1]> insert into table1
    -> (id, name, age, branch, city)
    -> values
    -> (3, "Jayesh Mundphane", 20, "Mechanical", "Solapur"),
    -> (4, "Asif Mursal", 20, "AI&DS", "Kolhapur"),
    -> (5, "Harsh Mule", 19, "Chemical", "Nagpur")
    -> ;
Query OK, 3 rows affected (0.039 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

3. Display table

```
MariaDB [lab1]> select * from table1;
+----+-----------------+-----+------------+-----------+
| id | name            | age | branch     | city      |
+----+-----------------+-----+------------+-----------+
|  1 | Mustansir Bohari |  19 | AI&DS      | Nandurbar |
|  2 | Omkar Mundlik    |  19 | AI&DS      | Latur     |
|  3 | Jayesh Mundphane |  20 | Mechanical | Solapur   |
|  4 | Asif Mursal      |  20 | AI&DS      | Kolhapur  |
|  5 | Harsh Mule       |  19 | Chemical   | Nagpur    |
+----+-----------------+-----+------------+-----------+
5 rows in set (0.001 sec)
```

4. Retrieve data from student name and branch

```
MariaDB [lab1]> select name, branch from table1;
+-----------------+------------+
| name            | branch     |
+-----------------+------------+
| Mustansir Bohari | AI&DS      |
| Omkar Mundlik    | AI&DS      |
| Jayesh Mundphane | Mechanical |
| Asif Mursal      | AI&DS      |
| Harsh Mule       | Chemical   |
+-----------------+------------+
5 rows in set (0.000 sec)
```

5. Add extra column in table

```
MariaDB [lab1]> alter table table1
    -> add
    -> gender varchar(10);
Query OK, 0 rows affected (0.050 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

6. Update data

```
MariaDB [lab1]> alter table table1
    -> drop column gender;
Query OK, 0 rows affected (0.049 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

7. Delete a row from a table

```
MariaDB [lab1]> delete from table1
    -> where
    -> id = 5;
Query OK, 1 row affected (0.042 sec)

MariaDB [lab1]> select * from table1;
+----+-----------------+-----+------------+-----------+
| id | name            | age | branch     | city      |
+----+-----------------+-----+------------+-----------+
|  1 | Mustansir Bohari |  19 | AI&DS      | Nandurbar |
|  2 | Omkar Mundlik    |  19 | AI&DS      | Latur     |
|  3 | Jayesh Mundphane |  20 | Mechanical | Solapur   |
|  4 | Asif Mursal      |  20 | AI&DS      | Kolhapur  |
+----+-----------------+-----+------------+-----------+
4 rows in set (0.001 sec)
```

8. Implement drop and truncate and write observation

```
MariaDB [lab1]> use lab1
Database changed
MariaDB [lab1]> create table table2( test varchar(100));
Query OK, 0 rows affected (0.062 sec)

MariaDB [lab1]> describe table2;
+-------+--------------+------+-----+---------+-------+
| Field | Type         | Null | Key | Default | Extra |
+-------+--------------+------+-----+---------+-------+
| test  | varchar(100) | YES  |     | NULL    |       |
+-------+--------------+------+-----+---------+-------+
1 row in set (0.053 sec)

MariaDB [lab1]> drop table table2;
Query OK, 0 rows affected (0.047 sec)

MariaDB [lab1]> show tables;
+----------------+
| Tables_in_lab1 |
+----------------+
| apnatable      |
+----------------+
1 row in set (0.001 sec)
```

```
MariaDB [lab1]> select * from table2;
+--------+
| test   |
+--------+
| Data 1 |
| Data 2 |
+--------+
2 rows in set (0.001 sec)

MariaDB [lab1]> truncate table2;
Query OK, 0 rows affected (0.070 sec)

MariaDB [lab1]> select * from table2;
Empty set (0.001 sec)
```

9. Implement rename command

```
MariaDB [lab1]> alter table
    -> table1
    -> rename ApnaTable
    -> ;
Query OK, 0 rows affected (0.047 sec)

MariaDB [lab1]> describe ApnaTable
    -> ;
+--------+--------------+------+-----+---------+----------------+
| Field  | Type         | Null | Key | Default | Extra          |
+--------+--------------+------+-----+---------+----------------+
| id     | int(11)      | NO   | PRI | NULL    | auto_increment |
| name   | varchar(100) | NO   |     | NULL    |                |
| age    | int(11)      | NO   |     | NULL    |                |
| branch | varchar(100) | NO   |     | NULL    |                |
| city   | varchar(100) | YES  |     | NULL    |                |
+--------+--------------+------+-----+---------+----------------+
5 rows in set (0.048 sec)
```

Observation:

1. **Drop table**
    a. This command deletes a table in database
    b. Syntax: DROP TABLE table_name;
2. **Truncate table**
    a. This command deletes all data inside a table
    b. Syntax: TRUNCATE table_name;

Conclusion:

1. Implemented DDL commands i.e., create, alter, drop, truncate, rename and DML commands i.e., select, insert, update, delete.
2. Comprehended drop and truncate commands