Group B : Assignment 4

1) Create a Database:

```
CREATE DATABASE
MySQL > CREATE DATABASE COLLEGE;
Query OK, 1 row affected (0.003 sec)
```

2) Show Database:

```
MySQL > CREATE DATABASE COLLEGE;
Query OK, 1 row affected (0.003 sec)

SHOW DATABASES
MySQL > SHOW DATABASES;
+--------------------+
| Database           |
+--------------------+
| college            |
| information_schema |
| mysql              |
| performance_schema |
| phpmyadmin         |
| test               |
+--------------------+
6 rows in set (0.002 sec)
```

3) Use Database:

```
MySQL > USE COLLEGE
Database changed
```

4) Drop Database:

```
MySQL > DROP DATABASE TP
Query OK, 0 rows affected (0.004 sec)
```

5) Create table and describe:

```
MySQL> CREATE TABLE CUSTOMER (ID INT PRIMARY KEY,
NAME VARCHAR(15) NOT NULL,
CITY VARCHAR(10)
);
Query OK, 0 rows affected (0.534 sec)

MySQL> DESC CUSTOMER;
+-------+-------------+------+-----+---------+-------+
| Field | Type        | Null | Key | Default | Extra |
+-------+-------------+------+-----+---------+-------+
| ID    | int(11)     | NO   | PRI | NULL    |       |
| NAME  | varchar(15) | NO   |     | NULL    |       |
| CITY  | varchar(10) | YES  |     | NULL    |       |
```

```
+-------+------------+------+-----+--------+-------+
rows in set (0.017 sec)

MySQL> CREATE TABLE BRANCH (ID INT PRIMARY KEY, BNAME
VARCHAR(15), CITY VARCHAR(10));
Query OK, 0 rows affected (0.247 sec)
MySQL> DESC BRANCH;
+-------+------------+------+-----+--------+-------+
| Field | Type       | Null | Key | Default | Extra |
+-------+------------+------+-----+--------+-------+
| ID    | int(11)    | NO   | PRI | NULL    |       |
| BNAME | varchar(15) | YES  |     | NULL    |       |
| CITY  | varchar(10) | YES  |     | NULL    |       |
+-------+------------+------+-----+--------+-------+
3 rows in set (0.009 sec)
MySQL> CREATE TABLE DEPOSIT (ACC_NUMBER VARCHAR(5) PRIMARY
KEY, CUST_ID VARCHAR(10) NOT NULL, AMOUNT INT, BRANCH_ID
VARCHAR(5), OPEN_DATE DATE);
Query OK, 0 rows affected (0.535 sec)

MySQL> DESC DEPOSIT;
+------------+------------+------+-----+--------+-------+
| Field      | Type       | Null | Key | Default | Extra |
+------------+------------+------+-----+--------+-------+
| ACC_NUMBER | varchar(5) | NO   | PRI | NULL    |       |
| CUST_ID    | varchar(10) | NO   |     | NULL    |       |
| AMOUNT     | int(11)    | YES  |     | NULL    |       |
| BRANCH_ID  | varchar(5) | YES  |     | NULL    |       |
| OPEN_DATE  | date       | YES  |     | NULL    |       |
+------------+------------+------+-----+--------+-------+
5 rows in set (0.017 sec)

MySQL> CREATE TABLE BORROW (LOAD_NO VARCHAR(5) PRIMARY KEY,
CUST_ID VARCHAR(10), BRANCH_ID VARCHAR(5), AMOUNT INT);
Query OK, 0 rows affected (0.282 sec)
MySQL> DESC BORROW;
+-----------+------------+------+-----+--------+-------+
| Field     | Type       | Null | Key | Default | Extra |
+-----------+------------+------+-----+--------+-------+
| LOAD_NO   | varchar(5) | NO   | PRI | NULL    |       |
| CUST_ID   | varchar(10) | YES  |     | NULL    |       |
| BRANCH_ID | varchar(5) | YES  |     | NULL    |       |
| AMOUNT    | int(11)    | YES  |     | NULL    |       |
+-----------+------------+------+-----+--------+-------+
4 rows in set (0.017 sec)
```

6) **Alter Command:**

```
Add address column in customer:
MySQL> ALTER TABLE CUSTOMER ADD ADDRESS VARCHAR(30);
Query OK, 0 rows affected (0.088 sec)
Records: 0  Duplicates: 0  Warnings: 0


MySQL> DESC CUSTOMER;
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| ID      | int(11)     | NO   | PRI | NULL    |       |
| NAME    | varchar(15) | NO   |     | NULL    |       |
| CITY    | varchar(10) | YES  |     | NULL    |       |
| ADDRESS | varchar(30) | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
4 rows in set (0.009 sec)




Modify column:
MySQL> ALTER TABLE BRANCH CHANGE BNAME BRANCH_NAME
VARCHAR(10);
Query OK, 0 rows affected (0.902 sec)
Records: 0  Duplicates: 0  Warnings: 0


Modify column name:
MySQL> ALTER TABLE CUSTOMER CHANGE ADDRESS NEW_ADDRESS
VARCHAR(30);
Query OK, 0 rows affected (0.111 sec)
Records: 0  Duplicates: 0  Warnings: 0


Drop column ADDRESS:
MySQL> ALTER TABLE CUSTOMER DROP NEW_ADDRESS;
Query OK, 0 rows affected (0.571 sec)
Records: 0  Duplicates: 0  Warnings: 0


MySQL> DESC CUSTOMER;
+-------+-------------+------+-----+---------+-------+
| Field | Type        | Null | Key | Default | Extra |
+-------+-------------+------+-----+---------+-------+
| ID    | int(11)     | NO   | PRI | NULL    |       |
| NAME  | varchar(15) | NO   |     | NULL    |       |
| CITY  | varchar(10) | YES  |     | NULL    |       |
+-------+-------------+------+-----+---------+-------+
3 rows in set (0.010 sec)
```

```
RENAME BRANCH:
MySQL> ALTER TABLE BRANCH RENAME TO BRANCH1;
Query OK, 0 rows affected (0.294 sec)
```

7) DCL Commands:

```
GRANT
MySQL> GRANT SELECT ON CUSTOMER TO SHREYAS;
Query OK, 0 rows affected (0.013 sec)

REVOKE
MySQL> REVOKE SELECT ON CUSTOMER FROM SHREYAS;
```

8) Truncate:

```
MySQL> TRUNCATE CUSTOMER;
Query OK, 0 rows affected (0.509 sec)
```

9) Drop:

```
MySQL> DROP TABLE CUSTOMER;
Query OK, 0 rows affected (0.229 sec)
```