LAB REPORT

CSE312: Database Management System Lab

Submitted To

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Designation

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LAB REPORT

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01

[Report Number]

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Topic: DDL (Create, Alter, Drop)
CO Mapping:

Experiment No: 01	Experiment Name: Create database ,table and manipulate it(Alter, Drop, Truncate,Insert,Select)

Experiment Details:

1.Create a database name EVS.
Code: CREATE DATABASE EVS;

2. Create a Table name voter here attiburite is NID and area.
Code: CREATE TABLE voter (N_ID INT(18), Area VARCHAR(20));

3.
Create a student table in EVS databases for Alter Command
Code: CREATE TABLE Student (
   StudentID INT ,
   Name VARCHAR(50),
   DateOfBirth DATE,
   Email VARCHAR(100),
   PhoneNumber VARCHAR(15),
   Address VARCHAR(255),
   RegistationDate DATE
);
3.i) Add a gender column to student table

code : ALTER TABLE Student ADD Gender VARCHAR(10);

3ii) deletes the gender column.
Code: ALTER TABLE Student DROP Gender;

iii. just we drop the gender column now we create again gender column for modify gender column
code: ALTER TABLE Student MODIFY Gender VARCHAR(5);

iv. gender column rename and new name is sex
code: ALTER TABLE Student CHANGE Gender Sex VARCHAR(2);
4. Drop the table and database

Code: DROP TABLE std;
DROP DATABASE EVS;

5. Truncate Table need to create the student table again because preveous databases deleted.
Code: TRUNCATE TABLE Student;

6. insert record into voter table
Code: INSERT INTO voter VALUES (101501, "Uttara");

7. retrives all records from voter
Code: SELECT * FROM voter;

Obtained Output:

1.	Desired Output?

```
Setting environment for using XAMPP for Windows.
Sohag@DESKTOP-278TBC3 e:\XAMPP
# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 176
Server version: 10.4.32-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 statemen
t.

MariaDB [(none)]> CREATE DATABASE EVS;
Query OK, 1 row affected (0.002 sec)
```

2.

```
ERROR 1046 (3D000): No database selected
MariaDB [(none)]> use EVS;
Database changed
MariaDB [EVS]> CREATE TABLE voter (
    ->      N_ID INT(18),
    ->      Area VARCHAR(20)
    -> );
Query OK, 0 rows affected (0.030 sec)
```

3.
i.

```
MariaDB [EVS]> CREATE TABLE Student (
    ->      StudentID INT ,
    ->      Name VARCHAR(50),
    ->      DateOfBirth DATE,
    ->      Email VARCHAR(100),
    ->      PhoneNumber VARCHAR(15),
    ->      Address VARCHAR(255),
    ->      RegistationDate DATE
    -> );
Query OK, 0 rows affected (0.015 sec)

MariaDB [EVS]> ALTER TABLE Student ADD Gender VARCHAR(10);
Query OK, 0 rows affected (0.017 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

ii.

```
MariaDB [EVS]>  ALTER TABLE Student DROP Gender;
Query OK, 0 rows affected (0.017 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

iii.

```
MariaDB [EVS]> ALTER TABLE Student MODIFY Gender VARCHAR(5);
ERROR 1054 (42S22): Unknown column 'Gender' in 'student'
MariaDB [EVS]> Bye
```

YES/NO

```
MariaDB [(none)]> use EVS;
Database changed
MariaDB [EVS]> ALTER TABLE Student ADD Gender VARCHAR(10);
Query OK, 0 rows affected (0.013 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [EVS]> ALTER TABLE Student MODIFY Gender VARCHAR(5);
Query OK, 0 rows affected (0.035 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

iv.

```
MariaDB [EVS]> ALTER TABLE Student CHANGE Gender Sex VARCHAR(2);
Query OK, 0 rows affected (0.031 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

v.

```
MariaDB [EVS]>  ALTER TABLE Student RENAME TO std;
Query OK, 0 rows affected (0.014 sec)
```

4.

```
MariaDB [EVS]> DROP TABLE std;
Query OK, 0 rows affected (0.013 sec)
```

5.

```
MariaDB [(none)]> TRUNCATE TABLE Student;
ERROR 1046 (3D000): No database selected
MariaDB [(none)]> use EVS;
ERROR 1049 (42000): Unknown database 'evs'
MariaDB [(none)]> CREATE DATABASE EVS;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> use EVS;
Database changed
MariaDB [EVS]> CREATE TABLE Student (
    ->     StudentID INT ,
    ->     Name VARCHAR(50),
    ->     DateOfBirth DATE,
    ->     Email VARCHAR(100),
    ->     PhoneNumber VARCHAR(15),
    ->     Address VARCHAR(255),
    ->     RegistationDate DATE
    -> );
Query OK, 0 rows affected (0.013 sec)

MariaDB [EVS]> TRUNCATE TABLE Student;
Query OK, 0 rows affected (0.018 sec)
```

6.Select * from Table_name; => Retrieving value from table

```
MariaDB [EVS]> SELECT * FROM voter;
+--------+--------+
| N_ID   | Area   |
+--------+--------+
| 101501 | Uttara |
+--------+--------+
1 row in set (0.001 sec)
```

Observation/ Comments: Temporary tables are useful for testing and do not impact the main database schema.