

Green University of Bangladesh Department of Computer Science and Engineering(CSE)

Faculty of Sciences and Engineering Semester: (Spring, Year:2021), B.Sc. in CSE (Day)

LAB REPORT NO #1

Course Title:Database System lab
Course Code:CSE210 Section:PC-193D

Lab Experiment Name: Managing MySQL Databases and tables.

Student Details

	Name	ID
1.	Jahid Hasan	193902001

Lab Date : 28.06.2021 Submission Date : 28.06.2021

Course Teacher's Name : MD. Moshiur Rahman

[For Teachers use only: Don't Write Anything inside this box]

Lab Report Status Marks:	Signature:
Comments:	Date:

***** Objective:

We will understand how to insert, update and delete data from within a table by using Database management software.

❖ Procedure:

- (i) Use insert command.
- (ii) Use Select command.
- (iii) Use Select command with where condition.
- (iv) Use Select command with order by clause.
- (v) Use Select command with operators.
- (vi) Use Select command with DISTINCT keyword.
- (vii) Use Select command with group by clause.
- (viii) Use Update command.
- (ix) Use Update command.
- (x) Use Delete command.
- (xi) Use select command with group by and having clause.

Creating a database and inserting the records:

At first we will create the database by using the command CREATE DATABASE university.



Here, creating row of ID,Name,Age,CGPA,City of the table named student:

ID Name CGPA Age City

Now inserting a record of a single student:

```
INSERT INTO students
(ID,Name,Age,CGPA,City)
VALUES(193902001,'Jahid Hasan',22,3.47,'Dhaka');
```

+ Options

ID Name CGPA Age City

193902001 Jahid Hasan 3.470 22 Dhaka

Insert the records of multiple students at once:

```
INSERT INTO students

VALUES
(193902022, 'Fahim AL Haq',21,3.95, 'Airport'),
(193902031, 'Mohammad Nazmul Hossain',22,3.50, 'Dhaka');
```

+ Options

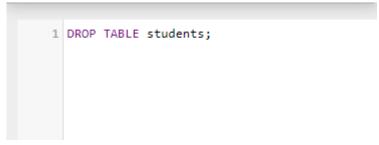
ID	Name	Age	CGPA	City
193902001	Jahid Hasan	22	3.470	Dhaka
193902022	Fahim AL Haq	4	21.000	Airport
193902031	Mohammad Nazmul Hossain	4	22.000	Dhaka
193902022	Fahim AL Haq	21	3.950	Airport
193903031	Mohammad Nazmul Hossain	22	3.500	Dhaka

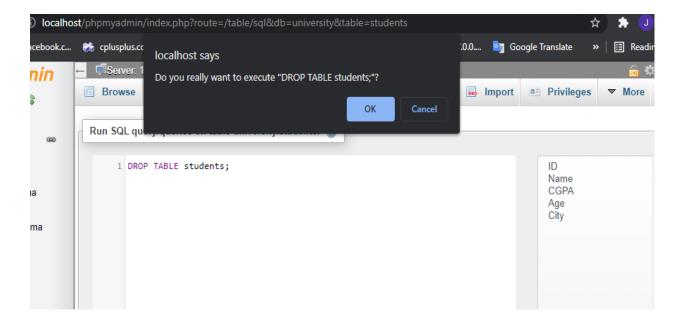
Now we will perform search operation in the database:

```
1 SELECT * FROM students WHERE ID = 193902001;
```

```
ID Name Age CGPA City
193902001 Jahid Hasan 22 3.470 Dhaka
```

Now, delete operation on our database :







Now we can see that the table name students has been successfully deleted.

Now we will access the database from the command prompt(cmd):

First of all we will enter into xampp folder which is located in the C:drive by the following command:

```
Microsoft Windows [Version 10.0.19043.1081]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Tech Land>cd \

C:\cd xampp

C:\xampp>mysql

is not recognized as an internal or external command, operable program or batch file.

C:\xampp\mysql\bin

bin' is not recognized as an internal or external command, operable program or batch file.

C:\xampp\mysql\bin

bin' is not recognized as an internal or external command, operable program or batch file.

C:\xampp\mysql\bin

bin' is not recognized as an internal or external command, operable program or batch file.

C:\xampp\mysql\bin\mysql\bin\mysql

ERROR 1045 (28000): Access denied for user 'Tech Land'@'localhost' (using password: NO)

C:\xampp\mysql\bin\mysql\bin\mysql -u root -p -h localhost

Enter password:

Melcome to the MariabB monitor. Commands end with; or \g.

Very wersion: 10.4.19-MariabB maniadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariabB Corporation Ab and others.

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

Here is a demo that we have successfully to the mysql server:

```
MariaDB [(none)]> show database;
ERROR 1064 (42000)]> show database;
AmariaDB (none)]> show database;
AmariaDB (none)]> show databases;
Amaria
```

Create DATABASE & TABLE:

```
MariaDB [(none)]> CREATE DATABASE university;
ERROR 1007 (HY000): Can't create database 'university'; database exists
MariaDB [(none)]> CREATE DATABASE universitys;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> use universitys;

Database changed

MariaDB [universitys]> CREATE TABLE;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '' at line 1

MariaDB [universitys]> INSERT INTO students VALUES(193002001, 'Jahid',22,3.47, 'Narayangonj'),(193002022, 'Fahim',21,3.95, 'Dhaka');
ERROR 1146 (42500): Table 'universitys.students' doesn't exist
MariaDB [universitys]> CREATE TABLE students(ID int(10),Name varchar(33),Age int(4),CGPA double(4,3),City varchar(22);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '' at line 1

MariaDB [universitys]> CREATE TABLE students(ID int(10),Name varchar(33),Age int(4),CGPA double(4,3),City varchar(22);

RROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '' at line 1

MariaDB [universitys]> CREATET TABLE students(ID int(10),Name varchar(33),Age int(4),CGPA double(4,3),City varchar(22));

Query OK, 0 rows affected (0.147 sec)
```

Now we will insert multiple records in our table which is students by the following command prompt:

We can also drop the table by using command prompt:

```
MariaDB [universitys]> DROP DATABASE university;
Query OK, 0 rows affected (0.002 sec)
MariaDB [universitys]> _
```

* ANALYSIS AND DISCUSSION:

The DML commands are executed successfully. In this lab we have learned to create a database, insert data, search data and delete data of the records from the database. In addition to that, We have also accessed the database through command prompt.