Lab No-05

Lab Report Name: Connecting a database (MySQL) with Linux

Objectives:

- i. Install mysql on Ubuntu
- ii. login into mysql
- iii. Create database table.
- iv. Insert data into table.
- v. Describe table.
- vi. Alter table.
- vii. Modify table.
- viii. Drop data from table.
- ix. Update data of table.
- x. Where and delete operation.
- **1.Install mysql on ubuntu:** To install mysql on ubuntu we need to write the following commands on linux terminal.

```
sudo apt-get update
sudo apt-get install mysql-server
mysql secure installation
```

2. Login into mysql: For login into mysql after installation we need to write the following commands in linux terminal.

Sudo mysql

```
abdullah@abdullah-X455LAB:~

File Edit View Search Terminal Help
abdullah@abdullah-X455LAB:~$ sudo mysql
[sudo] password for abdullah:
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 2
Server version: 5.7.27-0ubuntu0.18.04.1 (Ubuntu)

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

mysql>
```

3.Create and show databases:To show databases we need to write a command "show databases".to create database we need to write "create database databaseName".

4.Create database table: In mysql database table is created by using below command.

Create table tablename(attributes name type)

```
mysql> use abdullah
Database changed
mysql> create table course(course_code varchar(20),course_name varchar(20));
Query OK, 0 rows affected (0.24 sec)

Mysql> select *from course;

Empty set (0.01 sec)
```

5.Insert Data into table: Data is inserted into table by using following commands:

insert into table_name values("value1","value2...");

```
mysql> insert into course values("ICT-3107","operating system");
Query OK, 1 row affected (0.07 sec)

mysql> insert into course values("ICT-3108","operating system lab");
Query OK, 1 row affected (0.04 sec)

mysql> insert into course values("ICT-3101","analog and digital communication");
ERROR 1406 (22001): Data too long for column 'course_name' at row 1

mysql> insert into course values("ICT-3101","analog and digital communication");
ERROR 1406 (22001): Data too long for column 'course_name' at row 1

mysql> insert into course values("ICT-3101","analog communication"); Query OK, 1 row affected (0.32 sec)
```

6.Describe table:list the contents of the table, types of attribute.

7.Alter table:we can change our table contents by alter commands.Here i Add an extra column credit of integer types.

8. Modify table: Change the exitence contents of a table. Here I delete the column credit.

9.Drop data from table:

10.Update table:

11.where and Delete operations: