

# Mawlana Bhashani Science and Technology University

# Lab-Report

Report No:05

Report Name:Connecting a database(MYSQL)with Linux

Course code:ICT-3110

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#### **Submitted by**

Name:Sabikun Nahar Piya

ID:IT-18020

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Dept. of ICT

MBSTU.

## **Submitted To**

Nazrul Islam

**Assistant Professor** 

Dept. of ICT

MBSTU.

# **Experiment No: 05**

# Experiment Name: Connecting a database (MYSQL) with Linux

# **Objectives:**

From this lab, we learnt about how to

- i) Install MySQL on Ubuntu
- ii) Log into MySQL by Linux.
- iii) Create database table.
- iv) Insert data into table.
- v) Describe table.
- vi) Alter table.
- vii) Drop data from table.
- viii) Update data of table.
- ix) Where and delete operation.

#### **Connecting a database (MySQL) with linux**

#### 1. Install MySQL on Ubuntu .

```
sudo apt-get update
sudo apt-get install mysql-server
mysql_secure_installation
```

#### 2. Log into mysql by linux ubuntu.

```
piya@DESKTOP-JTFNBIK:~$ sudo mysql -u root
[sudo] password for piya:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 13
Server version: 8.0.21-0ubuntu0.20.04.4 (Ubuntu)

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

## 3. show and create database:

```
nysql> show databases;
 Database
 information_schema
 mysql
 new1
 performance_schema
 rows in set (0.00 sec)
iysql> create database piya;
Duery OK, 1 row affected (0.04 sec)
nysql> show databases;
 Database
 information_schema
 mysql
 new1
 performance_schema
 piya
 sys
 rows in set (0.00 sec)
```

#### 4. show and create table:

```
mysql> CREATE TABLE STUDENT(
    -> NAME VARCHAR (50) NOT NULL,
   -> ID VARCHAR (50) NOT NULL,
    -> DEPT VARCHAR (50) NOT NULL,
    -> AGE INT (5) NOT NULL);
Query OK, 0 rows affected, 1 warning (0.92 sec)
mysql> SHOW TABLES;
 Tables_in_piya |
 STUDENT
1 row in set (0.01 sec)
mysql> describe STUDENT;
 Field | Type
                    | Null | Key | Default | Extra |
        | varchar(50) | NO
| varchar(50) | NO
 NAME
                                     NULL
 ID
                                     NULL
 DEPT
        | varchar(50) | NO
                                     NULL
 AGE | int
                      NO
                                    NULL
4 rows in set (0.04 sec)
```

#### 5. insert data into table :

#### 6. Describe table:

```
mysql> describe STUDENT;
 Field | Type
                     | Null | Key | Default | Extra
 NAME
       | varchar(50) | NO
                                   NULL
 ID
        | varchar(50) | NO
                                   NULL
 DEPT
       | varchar(50) | NO
                                   NULL
 AGE
       int
                      NO
                                   NULL
 rows in set (0.04 sec)
```

#### 7. alter table:

```
mysql> alter table STUDENT add DISTRICT varchar(20);
Query OK, 0 rows affected (0.30 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> describe STUDENT;
 Field | Type | Null | Key | Default | Extra
 NAME
          | varchar(50) | NO
                                    NULL
          varchar(50)
                        NO
                                    NULL
 ID
          varchar(50)
 DEPT
                        NO
                                   NULL
 AGE
          int
                        NO
                                   NULL
 DISTRICT | varchar(20) | YES |
                                   NULL
 rows in set (0.00 sec)
```

#### 8. drop data from table:

```
mysql> alter table STUDENT drop DISTRICT;
Query OK, 0 rows affected (0.99 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> describe STUDENT;
 Field | Type
             | Null | Key | Default | Extra |
 NAME | varchar(50) | NO
                                  NULL
 ID
       | varchar(50) | NO
                                  NULL
 DEPT
       | varchar(50) | NO
                                  NULL
       int
 AGE
                     NO
                                  NULL
 rows in set (0.00 sec)
```

# 09.update data of table:

#### 10.delete data from table:

<u>Discussion:</u>From this experiment,I learnt some sql query and their operations in MYSQL database system. This query's must be learn to know about MYSQL database system. This is the easiest way to learn database management system. we can create table, add data, modify data, delete and update data easily by using MYSQL. I do this basic operations in this experiment and I feel it so easy and interesting. I don't face any problem doing it.