

Mawlana Bhashani Science and Technology University

Lab-Report

Report No: 05

Course code: ICT-3110

Course title:Operating Systems Lab

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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:

```
ysql> show databases;
 Database
 information_schema
 mysql
 new1
 performance_schema
rows in set (0.00 sec)
iysql> create database piya;
uery 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
                      NO
       | varchar(50) |
                                  NULL
 DEPT
       varchar(50)
                      NO
                                  NULL
 AGE
                      NO
                                  NULL
 rows in set (0.04 sec)
```

<u> 7. alter table :</u>

```
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
           | varchar(50) | NO
| varchar(50) | NO
| varchar(50) | NO
 NAME
                                         NULL
                                        NULL
 ID
 DEPT
                                        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
                    NO
 ID
       varchar(50)
                                 NULL
 DEPT
       varchar(50)
                    NO
                                 NULL
 AGE
       lint
                    NO
                                NULL
4 rows in set (0.00 sec)
```

09.update data of table:

10.delete data from table: