

MAWLANA BHASHANI SCIENCE AND TECHNOLOGY UNIVERSITY Santosh, Tangail-1902

LAB REPORT

Department of : Information & Communication Technology

Lab Report No : 05

Lab Report On : Connecting a database (MySQL) with linux

Course Title : Operating Systems Lab

Course Code : ICT - 3110

Submitted by,

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MBSTU

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Date of Performance: Date of Submission:

Lab 05 - Connecting a database (MySQL) with linux

1. Install MySQL on Ubuntu

sudo apt-get install mysql-server

2. Log into mysql by linux ubuntu.

```
tanvir@tanvir-HP-Pavilion-Laptop-15-cc1xx:~

File Edit View Search Terminal Help

(base) tanvir@tanvir-HP-Pavilion-Laptop-15-cc1xx:~$ sudo mysql
[sudo] password for tanvir:
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 8
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.

mysql>
```

3.show and create database:

```
tanvir@tanvir-HP-Pavilion-Laptop-15-cc1xx: ~
File Edit View Search Terminal Help
mysql> show databases;
| Database
| information schema |
| mysql
performance_schema
sys
4 rows in set (0.00 sec)
mysql> create database ict;
Query OK, 1 row affected (0.16 sec)
mysql> show databases;
| Database
 information_schema
 performance schema
5 rows in set (0.00 sec)
mysql>
```

3. show and create table:

```
- 0 🔞
                        tanvir@tanvir-HP-Pavilion-Laptop-15-cc1xx: ~
File Edit View Search Terminal Help
mysql> show tables;
| Tables_in_ict |
MyGuests
| student
2 rows in set (0.00 sec)
mysql> CREATE TABLE myTable(
   -> id INT NOT NULL,
    -> name VARCHAR(255) NOT NULL,
    -> cgpa VARCHAR(255),
    -> PRIMARY KEY(id)
    -> );
Query OK, 0 rows affected (0.56 sec)
mysql> show tables;
| Tables in ict |
| MyGuests
| myTable
| student
3 rows in set (0.01 sec)
mysql>
```

4. insert data into table:

```
Tile Edit View Search Terminal Help

mysql> INSERT INTO myTable values(18043, 'Tanvir Ahmed', 'ICT');
Query OK, 1 row affected (0.21 sec)

mysql> SELECT* FROM myTable;

| id | name | cgpa |
| 18043 | Tanvir Ahmed | ICT |
| 1 row in set (0.01 sec)

mysql>
```

5. Describe table:

6. alter table:

```
tanvir@tanvir-HP-Pavilion-Laptop-15-cc1xx: ~
                                                                                                  - 0 🖸
File Edit View Search Terminal Help
mysql> ALTER TABLE student ADD mobile VARCHAR(15);
Query OK, 0 rows affected (0.42 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> DESCRIBE student;
| Field | Type
                    | Null | Key | Default | Extra |
 id
 name | varchar(255) | NO
dept | varchar(255) | YES
mobile | varchar(15) | YES
                                            NULL
                                            NULL
                                           NULL
4 rows in set (0.00 sec)
mysql>
```

7.modify table:

```
8
                              tanvir@tanvir-HP-Pavilion-Laptop-15-cc1xx: ~
File Edit View Search Terminal Help
mysgl> ALTER TABLE student MODIFY id VARCHAR(20);
Query OK, 5 rows affected (1.67 sec)
Records: 5 Duplicates: 0 Warnings: 0
mysql> DESCRIBE student;
| Field | Type
                       | Null | Key | Default | Extra |
          varchar(20) | NO
                              | PRI | NULL
| id
          varchar(255) | NO
 name
                                      NULL
          varchar(255) | YES
                                      NULL
 mobile | varchar(15) | YES
                                      NULL
4 rows in set (0.00 sec)
mysql>
```

8. drop data from table:

9.update data of table:

10. Where and delete operation: