



Mawlana Bhashani Science and Technology University

Lab-Report

Report No: 05

Course code: ICT-3108

Course title: Operating System Lab

Date of Performance:10-09-20

Date of Submission:14-09-20

Submitted by

Name: Md.Abdullah Al Mamun
ID:IT-18040
3th year 1nd semester
Session: 2017-2018
Dept. of ICT
MBSTU.

Submitted To

Nazrul Islam
Assistant Professor
Dept. of ICT
MBSTU.

Lab Report No : 05

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

Theory

- 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) Modify table.
- viii) Drop data from table.
- ix) Update data of table.
- x) Where and delete operation.

Log into MySQL by Linux.

```
abdullah@abdullah-VirtualBox: ~
File Edit View Search Terminal Help
abdullah@abdullah-VirtualBox:~$ sudo mysql -u root
[sudo] password for abdullah:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 2
Server version: 5.7.31-0ubuntu0.18.04.1 (Ubuntu)

Copyright (c) 2000, 2020, Oracle and/or its affiliates. All rights reserved.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

mysql> |
```

Show Database

```
abdullah@abdullah-VirtualBox: ~
File Edit View Search Terminal Help
statement.

mysql> Show databases;
+-----+
| Database                |
+-----+
| information_schema      |
| MYDATABASE              |
| mydatabase1             |
| mysql                   |
| performance_schema      |
| sys                     |
+-----+
6 rows in set (0.26 sec)

mysql> |
```

Create database

create table

insert data into table

```
abdullah@abdullah-VirtualBox: ~
File Edit View Search Terminal Help
+-----+
6 rows in set (0.26 sec)

mysql> create database bookstore;
Query OK, 1 row affected (0.04 sec)

mysql> use bookstore;
Database changed
mysql> create table books (name varchar(20),price int ,writer varchar(20));
Query OK, 0 rows affected (0.39 sec)

mysql> insert into books values('math',123,'abdullah');
Query OK, 1 row affected (0.04 sec)

mysql> |
```

Show table

```
abdullah@abdullah-VirtualBox: ~
File Edit View Search Terminal Help
Query OK, 1 row affected (0.04 sec)

mysql> insert into books values('operating system',623,'mamus');
Query OK, 1 row affected (0.00 sec)

mysql> mysql> select *from books;
ERROR 1064 (42000): You have an error in your SQL syntax; check the
manual that corresponds to your MySQL server version for the right s
yntax to use near 'frct *from books' at line 1
mysql> select *from books;
+-----+-----+-----+
| name          | price | writer  |
+-----+-----+-----+
| math          | 123   | abdullah |
| java          | 3123  | sadheen |
| operating system | 623   | mamus    |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> |
```

Describe Table

```
abdullah@abdullah-VirtualBox: ~
File Edit View Search Terminal Help
+-----+-----+-----+
| name          | price | writer  |
+-----+-----+-----+
| math          | 123   | abdullah|
| java          | 3123  | sadheen |
| operating system | 623   | mamus   |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> describe books;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| name  | varchar(20)   | YES  |     | NULL    |       |
| price | int(11)       | YES  |     | NULL    |       |
| writer | varchar(20)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)

mysql> |
```

Drop data from table

```
abdullah@abdullah-VirtualBox: ~
File Edit View Search Terminal Help
| price | int(11) | YES | | NULL | |
| writer | varchar(20) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)

mysql> alter table books drop writer;
Query OK, 0 rows affected (0.09 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> select *from books;
+-----+-----+
| name | price |
+-----+-----+
| math | 123 |
| java | 3123 |
| operating system | 623 |
+-----+-----+
3 rows in set (0.00 sec)

mysql> |
```

Alter table


```
abdullah@abdullah-VirtualBox: ~
File Edit View Search Terminal Help
| java | 3123 |
| operating system | 623 |
+-----+-----+
3 rows in set (0.00 sec)

mysql> alter table books add publicant varchar(12);
Query OK, 0 rows affected (0.21 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> select *from books;
+-----+-----+-----+
| name | price | publicant |
+-----+-----+-----+
| math | 123 | NULL |
| java | 3123 | NULL |
| operating system | 623 | NULL |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> |
```

Delete data, update data, where

```
abdullah@abdullah-VirtualBox: ~
File Edit View Search Terminal Help
| java          | 3123 | NULL |
| operating system | 623 | NULL |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> delete from books where name= java;
ERROR 1054 (42S22): Unknown column 'java' in 'where clause'
mysql> delete from books where name='java';
Query OK, 1 row affected (0.05 sec)

mysql> update books set where name='operating system' where name='matnmysql>
updateupdate books set where name='operating system' where name='math';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual t
hat corresponds to your MySQL server version for the right syntax to use nea
r 'where name='operating system' where name='math'' at line 1
mysql> update books set name='phy' where name='math';
Query OK, 1 row affected (0.04 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> |
```

Discussion :

Connect To MySQL Database From Command Line

1. Log in to your A2 Hosting account using SSH.
2. At the command line, type the following command, replacing USERNAME with your username: `mysql -u USERNAME -p`.
3. At the Enter Password prompt, type your password. ...
4. To display a list of databases, type the following command at the `mysql>` prompt:

