

# Mawlana Bhashani Science and Technology University Lab-Report

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## **Submitted by**

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#### **Submitted To**

Nazrul Islam Assistant Professor Dept. of ICT MBSTU. Lab Report No: 05

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

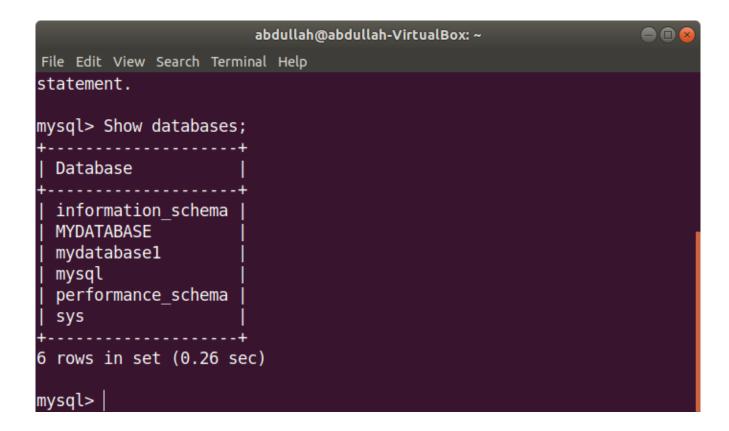
# Theory

- 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 r
eserved.
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



Create database

create table

insert data into table

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
                   | 123 | abdullah |
operating system | 623 | mamus
3 rows in set (0.00 sec)
mysql>
```

Describe Table

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
| java
                  | 123 |
                 3123
| operating system | 623 |
3 rows in set (0.00 sec)
mysql>|
```

Alter table

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'
mysgl> 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: