

Lab-Report

Report No: 05

Course code: ICT-3110

Course title: Operating System Lab

Date of Performance:

Date of Submission:

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3rd year 1st semester

Session: 2017-2018

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Experiment No: 05

Experiment Name: Connecting a database with linux.

Objectives:

- 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 form table.
- ix) Update data of table.
- x) Where and delete operation.

1. Install MySQL on Ubuntu.

```
miran@Miran-Inspiron-5570: ~
                                                                           File Edit View Search Terminal Help
miran@Miran-Inspiron-5570:~$ sudo apt-get install mysql-server
[sudo] password for miran:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libegl1-mesa libllvm9 linux-headers-5.3.0-28 linux-headers-5.3.0-28-generic
 linux-headers-5.3.0-40 linux-headers-5.3.0-40-generic
 linux-image-5.3.0-28-generic linux-image-5.3.0-40-generic
 linux-modules-5.3.0-28-generic linux-modules-5.3.0-40-generic
 linux-modules-extra-5.3.0-28-generic linux-modules-extra-5.3.0-40-generic
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  libaio1 libevent-core-2.1-6 libhtml-template-perl mysql-client-5.7
 mysql-client-core-5.7 mysql-common mysql-server-5.7 mysql-server-core-5.7
Suggested packages:
  libipc-sharedcache-perl mailx tinyca
The following NEW packages will be installed:
 libaio1 libevent-core-2.1-6 libhtml-template-perl mysql-client-5.7
 mysql-client-core-5.7 mysql-common mysql-server mysql-server-5.7
 mysql-server-core-5.7
0 upgraded, 9 newly installed, 0 to remove and 0 not upgraded.
Need to get 19.2 MB of archives.
After this operation, 155 MB of additional disk space will be used.
```

2. Log into MySQL by Linux.

```
miran@Miran-Inspiron-5570: ~

File Edit View Search Terminal Help

miran@Miran-Inspiron-5570:~$ sudo mysql
[sudo] password for miran:
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 4
Server version: 5.7.31-0ubuntu0.18.04.1 (Ubuntu)

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

mysql>
```

3. Create database table.

```
miran@Miran-Inspiron-5570: ~
                                                                            File Edit View Search Terminal Help
mysql> show databases;
l Database
| information_schema |
 mysql
| performance_schema |
4 rows in set (0.00 sec)
mysql> create database miran;
Query OK, 1 row affected (0.00 sec)
mysql> show databases;
Database
| information_schema |
| miran
| mysql
 performance_schema |
 sys
5 rows in set (0.00 sec)
mvsql>
```

4. Insert data into table.

```
miran@Miran-Inspiron-5570: ~
                                                                      File Edit View Search Terminal Help
mysql> use miran;
Database changed
mysql> show tables;
Empty set (0.00 sec)
mysql> create table info(serial_no int,
   -> name varchar(30),
   -> ocupation varchar(30),
   -> address varchar(30));
Query OK, 0 rows affected (0.76 sec)
mysql> show tables;
| Tables_in_miran |
+----+
1 row in set (0.00 sec)
mysql> ;2~
```

5. Describe table.

6. Alter table.

7. Modify table.

8. Drop data form table.

9. Update data of table.

10. Where and delete operation:

Conclusion:

In this lab I learn how to install mysql server in Ubuntu, create database, create table, alter table . I also run all the code and show the output.