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Lab-Report

Report No : 05
Experiment name : Connecting a database (MYSQL)with linux.
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- 18
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1) .Install MySQL on Ubuntu

Install mysql in linux write command prompt command :

**** sudo apt install mysql-server ****

2)Log mysql by linux:

```
iqbal@iqbal-Inspiron-15-3567:~$ sudo mysql -u root -p
[sudo] password for iqbal:
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 10
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:

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| student_of_ict |
| sys |
+-----+
5 rows in set (0.00 sec)

mysql> use student_of_ict;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> show tables;
+-----+
| Tables_in_student_of_ict |
+-----+
| student_table |
+-----+
1 row in set (0.00 sec)

mysql> create table student(id varchar(20),name varchar(20),age integer,password
  varchar(20));
Query OK, 0 rows affected (1.19 sec)
```

4)Insert data into table:

```
mysql> insert into student values("IT-18041","iqbal",22,"1234");
Query OK, 1 row affected (0.08 sec)

mysql> select * from student;
+-----+-----+-----+-----+
| id      | name  | age  | password |
+-----+-----+-----+-----+
| IT-18041 | iqbal | 22   | 1234     |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> inset into student values("IT-18011","sohan",21,"123456"),("It-18053","al-amin",22,"12345667");
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'inset into student values("IT-18011","sohan",21,"123456"),("It-18053","al-amin",' at line 1
mysql> insert into student values("IT-18011","sohan",21,"123456"),("It-18053","al-amin",22,"12345667");
Query OK, 2 rows affected (0.08 sec)
Records: 2  Duplicates: 0  Warnings: 0

mysql> select * from student;
+-----+-----+-----+-----+
| id      | name  | age  | password |
+-----+-----+-----+-----+
| IT-18041 | iqbal | 22   | 1234     |
| IT-18011 | sohan | 21   | 123456   |
| It-18053 | al-amin | 22 | 12345667 |
+-----+-----+-----+-----+
3 rows in set (0.01 sec)
```

5)Describe table:

```
mysql> describe student;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id         | varchar(20)   | YES  |     | NULL    |       |
| name       | varchar(20)   | YES  |     | NULL    |       |
| age        | int(11)       | YES  |     | NULL    |       |
| password   | varchar(20)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> █
```


6) Alter table :

```
mysql> alter table student add sex varchar(21);
Query OK, 0 rows affected (2.54 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> describe student;
```

Field	Type	Null	Key	Default	Extra
id	varchar(20)	YES		NULL	
name	varchar(20)	YES		NULL	
age	int(11)	YES		NULL	
password	varchar(20)	YES		NULL	
sex	varchar(21)	YES		NULL	

5 rows in set (0.00 sec)

```
mysql>
```

7) modify table:

```
mysql> alter table student modify age double;
Query OK, 3 rows affected (2.91 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

```
mysql> describe student;
```

Field	Type	Null	Key	Default	Extra
id	varchar(20)	YES		NULL	
name	varchar(20)	YES		NULL	
age	double	YES		NULL	
password	varchar(20)	YES		NULL	
sex	varchar(21)	YES		NULL	

5 rows in set (0.00 sec)

8)Drop data from table :

```
mysql> describe student;
```

Field	Type	Null	Key	Default	Extra
id	varchar(20)	YES		NULL	
name	varchar(20)	YES		NULL	
age	double	YES		NULL	
password	varchar(20)	YES		NULL	
sex	varchar(21)	YES		NULL	

```
5 rows in set (0.00 sec)
```

```
mysql> alter table student drop age;
```

```
Query OK, 0 rows affected (3.20 sec)
```

```
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> describe student;
```

Field	Type	Null	Key	Default	Extra
id	varchar(20)	YES		NULL	
name	varchar(20)	YES		NULL	
password	varchar(20)	YES		NULL	
sex	varchar(21)	YES		NULL	

```
4 rows in set (0.00 sec)
```

9)update data from table :

```
mysql> select * from student;
+-----+-----+-----+-----+-----+
| id      | name   | age  | password | sex   |
+-----+-----+-----+-----+-----+
| IT-18041 | iqbal  | 22   | 1234     | NULL  |
| IT-18011 | sohan  | 21   | 123456   | NULL  |
| It-18053 | al-amin | 22   | 12345667 | NULL  |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> update student set sex = "male"where id="IT-18041";
Query OK, 1 row affected (0.13 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> update student set sex = "male"where id="IT-18011";
Query OK, 1 row affected (0.34 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> update student set sex = "male"where id="It-18053";
Query OK, 1 row affected (0.06 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select * from student;
+-----+-----+-----+-----+-----+
| id      | name   | age  | password | sex   |
+-----+-----+-----+-----+-----+
| IT-18041 | iqbal  | 22   | 1234     | male  |
| IT-18011 | sohan  | 21   | 123456   | male  |
| It-18053 | al-amin | 22   | 12345667 | male  |
+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)
```

10) where and delete operation :

```
mysql> select * from student;
+-----+-----+-----+-----+
| id      | name    | password | sex   |
+-----+-----+-----+-----+
| IT-18041 | iqbal   | 1234     | male |
| IT-18011 | sohan   | 123456   | male |
| It-18053 | al-amin | 12345667 | male |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> delete from student where name = "sohan";
Query OK, 1 row affected (0.06 sec)

mysql> select * from student;
+-----+-----+-----+-----+
| id      | name    | password | sex   |
+-----+-----+-----+-----+
| IT-18041 | iqbal   | 1234     | male |
| It-18053 | al-amin | 12345667 | male |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

Conclusion: From this lab I learn how to connect a database with linux. i learn many operation from this lab such as.delete ,update etc.