

## **Group A : Lab Assignment No.1**

### **TITLE: Study of Open Source Relational Databases : MySQL**

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**//USE DATABASE**

```
mysql> use info;
```

Database changed

**//SHOW DATABASES**

```
mysql> show databases;
```

Database
information_schema
host
info
mysql
performance_schema
test

6 rows in set (0.00 sec)

**//CREATE TABLE**

```
mysql> create table info(roll_no int, name varchar(30), class varchar(20), marks float, dob date);
```

Query OK, 0 rows affected (0.20 sec)

**//INSERT VALUES IN TABLE**

```
mysql> insert into info values('1','harsha','be','98.0','1996-07-12');
```

Query OK, 1 row affected (0.05 sec)

```
mysql> insert into info values('2','tej','te','98.1','1997-07-12');
```

Query OK, 1 row affected (0.25 sec)

```
mysql> insert into info values('2','keshav','te','98.2','1998-05-11');
```

Query OK, 1 row affected (0.08 sec)

## //DISPLAY TABLE

```
mysql> select *from info;
```

roll_no	name	class	marks	dob
1	harsha	be	98	1996-07-12
2	keshav	te	98.2	1998-05-11
2	tej	te	98.1	1997-07-12

3 rows in set (0.00 sec)

## //DISPLAY PARTICULAR COLUMN

```
mysql> select roll_no,marks from info;
```

roll_no	marks
1	98
2	98.1
2	98.2

3 rows in set (0.00 sec)

## //DELETE PARTICULAR ROW

```
mysql> delete from info where name='tej';
```

Query OK, 1 row affected (0.16 sec)

```
mysql> select *from info;
```

roll_no	name	class	marks	dob
1	harsha	be	98	1996-07-12
2	keshav	te	98.2	1998-05-11

2 rows in set (0.00 sec)

#### //CREATE NEW DATABASE

**mysql> create database new1;**

Query OK, 1 row affected (0.03 sec)

#### //SHOW DATABASES

**mysql> show databases;**

```
+-----+  
| Database  
|  
+-----+  
| information_schema |  
| host |  
| info |  
| mysql |  
| new1 |  
| performance_schema || test  
|  
+-----+  
7 rows in set (0.00 sec)
```

#### //DROP DATABASE

**mysql> drop database new1;**

Query OK, 0 rows affected (0.11 sec)

**mysql> show databases;**

```
+-----+  
| Database  
|  
+-----+  
| information_schema |  
| host |  
| info |  
| mysql |  
|  
| performance_schema |  
| test |  
|  
+-----+  
6 rows in set (0.00 sec)
```

**mysql> use info;**

Database changed

**mysql> select\*from info;**

```
+-----+-----+-----+-----+
| roll_no | name | class | marks | dob
|
+-----+-----+-----+-----+
| 1 | harsha | be | 98 | 1996-07-12 |
| 2 | keshav | te | 98.2 | 1998-05-11 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

**//Update row of the table**

**mysql> update info set class='secomp' where roll\_no='1';**

Query OK, 1 row affected (0.17 sec)  
Rows matched: 1 Changed: 1 Warnings: 0

**//For Display the table**

**mysql> select\*from info;**

```
+-----+-----+-----+-----+
| roll_no | name | class | marks | dob
|
+-----+-----+-----+-----+
| 1 | harsha | secomp | 98 | 1996-07-12 |
| 2 | keshav | te |
| 98.2 | 1998-05-11 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

**//For Add column into the table**

**mysql> alter table info add sirname varchar(20);**

Query OK, 2 rows affected (0.55 sec)  
Records: 2 Duplicates: 0 Warnings: 0

**//DISPLAY TABLE**

**mysql> select\*from info;**

```
+-----+-----+-----+-----+-----+
| roll_no | name | class | marks | dob
| sirname |
|
+-----+-----+-----+-----+-----+
| 1 | harsha | secomp | 98 | 1996-07-12 | NULL |
| 2 | keshav | te |
| 98.2 | 1998-05-11 | NULL |
+-----+-----+-----+-----+-----+
2 rows in set (0.09 sec)
```

**// Modify Datatype of particular column**

```
mysql> alter table info modify roll_no float;
```

Query OK, 2 rows affected (0.48 sec)

Records: 2 Duplicates: 0 Warnings: 0

**//DISPLAY TABLE**

```
mysql> select*from info;
```

roll_no	name	class	marks	dob
sirname				
1	harsha	secomp	98	1996-07-12
2	keshav	te	98.2	1998-05-11

2 rows in set (0.00 sec)

**//For Description of table**

```
mysql> desc info;
```

Field	Type
Null	Key
name	Default
YES	Extra
roll_no	float
varchar(30)	YES
class	varchar(20)
marks	float
dob	
date	
YES	
YES	
NULL	
sirname	varchar(20)
	YES
	NULL

```
|  
+-----+-----+-----+-----+-----+  
6 rows in set (0.00 sec)
```

### **//For delete the particular column**

```
mysql> alter table info drop sirname;
```

```
Query OK, 2 rows affected (0.36 sec)  
Records: 2 Duplicates: 0 Warnings: 0
```

### **//For Display the table**

```
mysql> select*from info;
```

```
+-----+-----+-----+-----+  
| roll_no | name | class | marks | dob  
|  
+-----+-----+-----+-----+  
| 1 | harsha | secomp | 98 | 1996-07-12 |  
| 2 | keshav | te  
| 98.2 | 1998-05-11 |  
+-----+-----+-----+-----+  
2 rows in set (0.00 sec)
```

```
mysql> alter table info add sirname varchar(20);
```

```
Query OK, 2 rows affected (0.53 sec)  
Records: 2 Duplicates: 0 Warnings: 0
```

### **//For Display the table**

```
mysql> select*from info;
```

```
+-----+-----+-----+-----+-----+  
| roll_no | name | class | marks | dob  
| sirname |  
+-----+-----+-----+-----+-----+  
| 1 | harsha | secomp | 98 | 1996-07-12 | NULL |  
| 2 | keshav | te | 98.2 | 1998-05-11 | NULL |  
+-----+-----+-----+-----+-----+  
2 rows in set (0.00 sec)
```

### **//Renaming the column**

```
mysql> alter table info change name fullname varchar(20);
```

```
Query OK, 2 rows affected (0.61 sec)  
Records: 2 Duplicates: 0 Warnings: 0
```

### **//Display table**

```
mysql> select*from info;
```

```
+-----+-----+-----+-----+-----+
| roll_no | fullname | class | marks | dob
| sirname |
+-----+-----+-----+-----+
| 1 | harsha | secomp | 98 | 1996-07-12 | NULL |
| 2 | keshav | te | 98.2 | 1998-05-11 | NULL |
+-----+-----+-----+-----+
/
```

### //Insert values in table

```
mysql> insert into info values('101', 'sai', 'se','80','2017-1-12','xyz');
```

Query OK, 1 row affected (0.08 sec)

```
mysql> insert into info values('102', 'ram','se','90','2018-1-12','uvw');
```

Query OK, 1 row affected (0.22 sec)

### //Display table

```
mysql> select*from info;
```

```
+-----+-----+-----+-----+-----+
| roll_no | fullname | class | marks | dob
| sirname |
+-----+
| 1 | harsha | secomp | 98 | 1996-07-12 | NULL |
| 2 | keshav | te |
| 101 | sai |
| 102 | ram| se |
| 98.2 | 1998-05-11 | NULL |
| 80 | 2017-01-12 | xyz |
| se |
| 90 | 2018-01-12 | uvw |
|
|
+-----+-----+-----+-----+-----+
```

4 rows in set (0.00 sec)

### //Creating View

```
mysql> create view te as select roll_no, fullname,class from info;
```

Query OK, 0 rows affected (0.20 sec)

### //Display table

```
mysql> select*from te;
```

```
+-----+-----+-----+
| roll_no | fullname | class |
```

```
+-----+-----+
| 1 | harsha | secomp |
| 2 | keshav | te
| 101 | sai
| 102 | ram
| se
| se
|
|
|
+
+-----+-----+
```

## //USE DATABASE

```
mysql> use info;
```

Database changed

## //SHOW DATABASES

```
mysql> show databases;
```

```
+-----+
| Database
|
+-----+
| information_schema |
| host |
| info |
| mysql
|
| performance_schema |
| test
|
+-----+
6 rows in set (0.00 sec)
```

## //CREATE TABLE

```
mysql> create table info(roll_no int, name varchar(30), classvarchar(20), marks float, dob date);
```

Query OK, 0 rows affected (0.20 sec)

```
//INSERT VALUES IN TABLEmysql> insert into info values('1','harsha','be','98.0','1996-07-12');
```

Query OK, 1 row affected (0.05 sec)

```
mysql> insert into info values('2','tej','te','98.1','1997-07-12');
```

Query OK, 1 row affected (0.25 sec)

```
mysql> insert into info values('2','keshav','te','98.2','1998-05-11');
```

Query OK, 1 row affected (0.08 sec)

#### //DISPLAY TABLE

**mysql> select \*from info;**

```
+-----+-----+-----+-----+
| roll_no | name | class | marks | dob
|
+-----+-----+-----+-----+
| 1 | harsha | be | 98 | 1996-07-12 || 2 | tej | te
| 98.1 | 1997-07-12 |
| 2 | keshav | te | 98.2 | 1998-05-11 |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

#### //DISPLAY PARTICULAR COLUMN

**mysql> select roll\_no,marks from info;**

```
+-----+
| roll_no | marks |
+-----+
| 1 | 98 |
| 2 | 98.1 |
| 2 | 98.2 |
+-----+
3 rows in set (0.00 sec)
```

#### //DELETE PARTICULAR ROW

**mysql> delete from info where name='tej';**

Query OK, 1 row affected (0.16 sec)

**mysql> select \*from info;**

```
+-----+-----+-----+-----+-----+| roll_no |
name | class | marks | dob
|
+-----+-----+-----+-----+
| 1 | harsha | be | 98 | 1996-07-12 |
| 2 | keshav | te | 98.2 | 1998-05-11 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

#### //CREATE NEW DATABASE

**mysql> create database new1;**

Query OK, 1 row affected (0.03 sec)

## //SHOW DATABASES

```
mysql> show databases;
+-----+
| Database
|
+-----+
| information_schema |
| host |
| info |
| mysql |
| new1 |
| performance_schema || test
|
+-----+
7 rows in set (0.00 sec)
```

## //DROP DATABASE

```
mysql> drop database new1;
```

Query OK, 0 rows affected (0.11 sec)

```
mysql> show databases;
```

```
+-----+
| Database
|
+-----+
| information_schema |
| host |
| info |
| mysql
|
| performance_schema |
| test
|
+-----+
6 rows in set (0.00 sec)
```

```
mysql> use info;
```

Database changed

```
mysql> select*from info;
```

```
+-----+-----+-----+-----+
| roll_no | name | class | marks | dob
|
+-----+-----+-----+-----+
| 1 | harsha | be | 98 | 1996-07-12 |
| 2 | keshav | te | 98.2 | 1998-05-11 |
```

```
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

#### //Update row of the table

```
mysql> update info set class='secomp' where roll_no='1';
```

Query OK, 1 row affected (0.17 sec)

Rows matched: 1 Changed: 1 Warnings: 0

#### //For Display the table

```
mysql> select*from info;
```

```
+-----+-----+-----+-----+
| roll_no | name | class | marks | dob|
+-----+-----+-----+-----+
| 1 | harsha | secomp | 98 | 1996-07-12 |
| 2 | keshav | te   | 98.2 | 1998-05-11 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

#### //For Add column into the table

```
mysql> alter table info add sirname varchar(20);
```

Query OK, 2rows affected (0.55 sec)  
Records: 2 Duplicates: 0 Warnings: 0

#### //DISPLAY TABLE

```
mysql> select*from info;
```

```
+-----+-----+-----+-----+-----+
| roll_no | name | class | marks | dob
| sirname |
+-----+-----+-----+-----+-----+
| 1 | harsha | secomp | 98 | 1996-07-12 | NULL |
| 2 | keshav | te   | 98.2 | 1998-05-11 | NULL |
+-----+-----+-----+-----+-----+
2 rows in set (0.09 sec)
```

#### // Modify Datatype of particular column

```
mysql> alter table info modify roll_no float;
```

Query OK, 2 rows affected (0.48 sec)

Records: 2 Duplicates: 0 Warnings: 0

#### //DISPLAY TABLE

```
mysql> select*from info;
+-----+-----+-----+-----+
| roll_no | name | class | marks | dob
| sirname |
+-----+-----+-----+-----+
1 | harsha | secomp | 98 | 1996-07-12 | NULL ||
2 | keshav | te
| 98.2 | 1998-05-11 | NULL |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

//For Description of table

```
mysql> desc info;
+-----+-----+-----+-----+-----+
| Field | Type      |
| Null | Key | Default | Extra |
+-----+-----+-----+-----+
| roll_no | float   |
| name      |
| YES       |
| NULL      |
| varchar(30) | YES | |
| class     | varchar(20) | YES |
| marks     | float    |
| dob       |
| date      |
| YES       |
| YES       |
| NULL      |
|
|
|
| NULL      |
|
| NULL      |
| NULL      |
| sirname   | varchar(20) | YES || NULL
|
|
|
|
+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

**//For delete the particular column**

```
mysql> alter table info drop sirname;
```

Query OK, 2 rows affected (0.36 sec)  
Records: 2 Duplicates: 0 Warnings: 0

#### //For Display the table

```
mysql> select*from info;
+-----+-----+-----+-----+
| roll_no | name | class | marks | dob
|
+-----+-----+-----+-----+
| 1 | harsha | secomp | 98 | 1996-07-12 |
| 2 | keshav | te | 98.2 | 1998-05-11 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> alter table info add sirname varchar(20);
```

Query OK, 2 rows affected (0.53 sec)  
Records: 2 Duplicates: 0 Warnings: 0

#### //For Display the table

```
mysql> select*from info;
+-----+-----+-----+-----+-----+
| roll_no | name | class | marks | dob
| sirname |
+-----+-----+-----+-----+
| 1 | harsha | secomp | 98 | 1996-07-12 | NULL |
| 2 | keshav | te | 98.2 | 1998-05-11 | NULL |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

#### //Renaming the column

```
mysql> alter table info change name fullname varchar(20);
```

Query OK, 2 rows affected (0.61 sec)  
Records: 2 Duplicates: 0 Warnings: 0

#### //Display table

```
mysql> select*from info;
```

```
+-----+-----+-----+-----+
| roll_no | fullname | class | marks | dob
| sirname |
+-----+-----+-----+-----+
| 1 | harsha | secomp | 98 | 1996-07-12 | NULL |
| 2 | keshav | te | 98.2 | 1998-05-11 | NULL |
+-----+-----+-----+-----+
```

--	--	--	--	--	--

### //Insert values in table

```
mysql> insert into info values('101', 'sai', 'se','80','2017-1-12','xyz');
```

Query OK, 1 row affected (0.08 sec)

```
mysql> insert into info values('102', 'ram','se','90','2018-1-12','uvw');
```

Query OK, 1 row affected (0.22 sec)

### //Display table

```
mysql> select*from info;
```

roll_no	fullname	class	marks	dob	
sirname					
1	harsha	secomp	98	1996-07-12	NULL
2	keshav	te			
101	sai				
102	ram	se			
98.2		98.2	1998-05-11	NULL	
80		80	2017-01-12	xyz	
se					
90		90	2018-01-12	uvw	

4 rows in set (0.00 sec)

### //Creating View

```
mysql> create view te as select roll_no, fullname,class from info;
```

Query OK, 0 rows affected (0.20 sec)

### //Display table

```
mysql> select*from te;
```

roll_no	fullname	class
1	harsha	secomp
2	keshav	te
101	sai	
102	ram	
se		
se		

+	-	-