## FAIZAN CHOUDHARY

## 20BCS021

## **DBMS LAB**

21st February 2022

# Creation:

mysql> select \* from department2;

```
-> contact no
                           int(11),
        -> gender
                            char(2)
        -> );
    mysql> insert into stud member values
        -> (1, 'Ankur', 'Samir', 'Kahar', 1, 1, 272121, 'M'),
        -> (2, 'Dhaval', 'Dhiren', 'Joshi', 1, 1, 232122, 'M'),
        -> (3, 'Ankita', 'Biren', 'Shah', 1, 1, 112121, 'F'),
        -> (10, 'Komal', 'MaheshKumar', 'Pandya', 2, 3, 123123,
'F'),
        -> (13, 'Amit', 'Jitenkumar', 'Mehta', 3, 3, 453667, 'M'),
        -> (23, 'Jinal', 'Ashish', 'Gandhi', 2, 1, 323232, 'M'),
        -> (22, 'Ganesh', 'Asha', 'Patel', 2, 3, 124244, 'M'),
        -> (4, 'Shweta', 'Mihir', 'Patel', 3, 1, 646341, 'F'),
        -> (7, 'Pooja', 'Mayaank', 'Desai', 3, 3, 328656, 'F'),
        -> (8, 'Komal', 'Krishnaraj', 'Bhatia', 2, 3, 257422,
'F'),
        -> (43, 'Kiran', 'Viraj', 'Shah', 1, 1, 754124, 'F');
```

mysql> select \* from stud\_member;

oll_no	f_name	m_name	s_name	dept_id	semester	contact_no	gender
1	   Ankur	Samir	Kahar	1	1	272121	M
2	Dhaval	Dhiren	Joshi	1	1	232122	М
3	Ankita	Biren	Shah	1	1	112121	F
10	Komal	MaheshKumar	Pandya	2	3	123123	F
13	Amit	Jitenkumar	Mehta	3	3	453667	М
23	Jinal	Ashish	Gandhi	2	1	323232	М
22	Ganesh	Asha	Patel	2	3	124244	М
4	Shweta	Mihir	Patel	3	1	646341	F
7	Pooja	Mayaank	Desai	3	3	328656	F
8	Komal	Krishnaraj	Bhatia	2	3	257422	F
43	Kiran	Viraj	Shah	1	1	754124	F

# Queries:

1. Display the names and contact numbers of all student members.

#### **OUTPUT:**

+   f_name   +	m_name	+   s_name +	contact_no
Ankur	Samir	Kahar	272121
Dhaval	Dhiren	Joshi	232122
Ankita	Biren	Shah	112121
Komal	MaheshKumar	Pandya	123123
Amit	Jitenkumar	Mehta	453667
Jinal	Ashish	Gandhi	323232
Ganesh	Asha	Patel	124244
Shweta	Mihir	Patel	646341
Pooja	Mayaank	Desai	328656
Komal	Krishnaraj	Bhatia	257422
Kiran	Viraj	Shah	754124
++		+	++
11 rows in	set (0.00 sed	c)	

2. Give the names and roll number of all students of Information Technology who are the members.

```
mysql> select roll_no, f_name, m_name, s_name
    -> from stud_member, department2
    -> where stud_member.dept_id = department2.dept_id and
stud member.dept id = 1;
```

#### OUTPUT:

000			
roll_no	f_name	m_name	++   s_name
2	Ankur Dhaval Ankita Kiran	Dhiren Biren	Joshi     Shah
4 rows in	set (0.00	sec)	++

3. Display names of Departments whose students are members.

```
mysql> select dept_name
    -> from department2
    -> where department2.dept_id in (select dept_id from stud_member);
```

#### **OUTPUT:**

4. Display names of Departments for which no student are members.

```
mysql> select dept_name
```

- -> from department2
- -> where department2.dept\_id not in (select dept\_id from stud member);

#### **OUTPUT:**

```
+-----
| dept_name |
+------
| Mechanical |
| Chemical |
+------
2 rows in set (0.00 sec)
```

### 5. Display names of all Departments.

```
mysql> select dept_name
     -> from department2;
```

#### **OUTPUT:**

6. Find the number of students of Electrical Department who are members.

```
mysql> select count(*)
```

- -> from stud member, department2
- -> where stud\_member.dept\_id = department2.dept\_id and
  department2.dept name = "Electrical";

#### **OUTPUT:**

```
+-----+
| count(*) |
+------+
| 4 |
+-----+
1 row in set (0.01 sec)
```

7. Display information of student members whose name begins with the letter 'A'.

```
mysql> select *
   -> from stud_member
   -> where f name like 'A%';
```

#### **OUTPUT:**

E	+		+	·	·	+	·	+
ı	roll_no	f_name	m_name	s_name	dept_id	semester	contact_no	gender
	3		Samir   Biren   Jitenkumar	Shah	1	1 1 3	112121	F
-	 3 rows in s	et (0.01	sec)	·		+		+

8. Display all details of Male members only.

```
mysql> select *
   -> from stud_member
   -> where gender = 'M';
```

#### OUTPUT:

++   roll_no   f_name	m_name	s_name	dept_id	semester	contact_no	gender
13   Amit	Dhiren  Jitenkumar   Ashish	Kahar Joshi Mehta Gandhi Patel	1   1   3   2   2	1   1   3   1   3	453667 323232	М
5 rows in set (0.00 s	sec)					+

9. Display data of student members who are currently in semester 3.

```
mysql> select *
   -> from stud_member
   -> where semester = 3;
```

### **OUTPUT:**

0011 01.							
+	+	+	+	+	+	+	++
roll_no	f_name	m_name	s_name	dept_id	semester	contact_no	gender
+	+	+	+	+	+	+	++
10	Komal	MaheshKumar	Pandya	2	3	123123	F
13	Amit	Jitenkumar	Mehta	3	3	453667	M
22	Ganesh	Asha	Patel	2	3	124244	M
7	Pooja	Mayaank	Desai	3	3	328656	F
8	Komal	Krishnaraj	Bhatia	2	3	257422	F
++++++							
5 rows in s	set (0.00	sec)					

## 10. Display data of student female members in alphabetical order.

```
mysql> select *
   -> from stud_member
   -> where gender = 'F'
   -> order by f_name;
```

## OUTPUT:

+	+	+	+	+	+	+	+
roll_no	f_name	m_name	s_name	dept_id	semester	contact_no	gender
+	+	+	+	+		+	+
3	Ankita	Biren	Shah	1	1	112121	F
43	Kiran	Viraj	Shah	1	1	754124	F
10	Komal	MaheshKumar	Pandya	2	3	123123	F
8	Komal	Krishnaraj	Bhatia	2	3	257422	F
7	Pooja	Mayaank	Desai	3	3	328656	F
4	Shweta	Mihir	Patel	3	1	646341	F
+	+	+	+	+			+
6 rows in s	set (0.00	sec)					