## 20BCS042 MOHD ADIL ASSIGNMENT 4

```
mysql> use 20bcs042;
Database changed
mysql> create table stud_Dept(
   -> Dept int,
   -> DeptName varchar(30));
Query DK, 0 rows affected (0.08 sec)
mysql> create table stud_member(
   -> RollNo int,
   -> Fname varchar(10),
   -> Mname varchar(20),
   -> Sname varchar(10),
   -> DeptID int,
   -> Semester int,
   -> ContactNo int,
   -> Gender varchar(2));
Query DK, 0 rows affected (0.03 sec)
mysql> describe stud_dept;
+----+
I Field | Type | | Null | Key | Default | Extra |
+----+
I Dept
      l int
                I YES I NULL I
+----+
2 rows in set (0.01 sec)
```

```
mysql> describe stud_member;
+----+
I Field
     +----+
I RollNo
     lint I YES I NULL I I
| Fname | varchar(10) | YES | | NULL | |
     | varchar(20) | YES | | NULL | |
l Mname
| Sname | varchar(10) | YES | | NULL | |
| DeptID | int | YES | | NULL | |
| Gender | varchar(2) | YES | | NULL | |
+----+
8 rows in set (0,01 sec)
mysql> insert into stud_dept Values
  -> (1, 'Information Technology'),
  -> (2, 'Electrical'),
  -> (3, 'Civil'),
  -> (4, 'Mechanical'),
  -> (5, 'Chemical');
Query DK, 5 rows affected (0.02 sec)
Records: 5 Duplicates: 0 Warnings: 0
mysql> select * from stud_dept;
+----+
| Dept | DeptName
 ----+
  1 | Information Technology |
  2 | Electrical
```

```
3 I Civil
    4 | Mechanical
    5 | Chemical
5 rows in set (0.01 sec)
mysal> insert into stud_member values
   -> (1, 'Ankur', 'Samir', 'Kahar', 1,1,272121, 'M'),
   -> (2, 'Dhaval', 'Dhiren', 'Joshi', 1,1,232121, 'M'),
   -> (3, 'Ankita', 'Biren', 'Shah', 1,1,112121, 'F'),
   -> (10, 'Komal', 'MaheshKumar', 'Pandaya', 2,3,123123, 'F'),
   -> (13, 'Amit', 'JitenKumar', 'Mehta', 3,3,453667, 'M'),
   -> (23, 'Jinal', 'Ashish', 'Gandhi', 2, 1, 323232, 'M'),
   -> (22, 'Ganesh', 'Asha', 'Patel',2,3,124124, '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');
Query DK, 11 rows affected (0.01 sec)
Records: 11 Duplicates: 0 Warnings: 0
mysql> select * from stud_member;
+----+
I RollNo I Fname I Mname
                         | Sname | DeptID | Semester | ContactNo | Gender |
   1 | Ankur | Samir | Kahar | 1 | 1 |
                                                         272121 I M
      2 | Dhaval | Dhiren | Joshi | 1 |
                                                  1 |
                                                         232121 I M
      3 | Ankita | Biren | | Shah |
                                        1 I
                                                  1 |
                                                         112121 I F
     10 | Komal | MaheshKumar | Pandaya | 2 |
                                                   3 I
                                                         123123 I F
     13 | Amit | JitenKumar | Mehta |
                                        3 I
                                                   3 I
                                                         453667 I M
```

```
23 | Jinal | Ashish
                      l Gandhi l
                                             1 I
                                                   323232 I M
    22 | Ganesh | Asha
                       I Patel I
                                              3 I
                                                   124124 I M
     4 | Shweta | Mihir
                      I Patel
                                     3 |
                                              1 |
                                                   646341 I F
     7 | Pooja | Mayaank
                      l Desai l
                                     3 I
                                              3 I
                                                   328656 I F
     8 | Komal | Krishnaraj | Bhatia |
                                                   257422 I F
    43 | Kiran | Viraj
                        l Shah
                                     1 |
                                             1 I
                                                   754124 I F
+----+
```

11 rows in set (0.00 sec)

SQL QUERIES

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

mysql> select fname, mname, sname, contactNo from stud\_member;

+-		-+-		-+-		-+-	+
I	fname	1	mname	I	sname	I	contactNo I
+-		-+-		-+-		-+-	+
1	Ankur	1	Samir	1	Kahar	1	272121 I
1	Dhaval	1	Dhiren	1	Joshi	1	232121 I
1	Ankita	1	Biren	1	Shah	1	112121
1	Komal	1	MaheshKumar	1	Pandaya	1	123123 I
1	Amit	1	JitenKumar	1	Mehta	1	453667 I
1	Jinal	1	Ashish	1	Gandhi	1	323232
1	Ganesh	1	Asha	1	Patel	1	124124
1	Shweta	1	Mihir	1	Patel	1	646341 I
1	Pooja	1	Mayaank	1	Desai	1	328656 I
1	Komal	1	Krishnaraj	1	Bhatia	1	257422
1	Kiran	1	Viraj	1	Shah	1	754124 I
+-		-+-		-+-		-+-	+

11 rows in set (0.00 sec)

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

mysql> select RollNo, Fname, Sname from stud\_member where DeptID=1;
+-----+
| RollNo | Fname | Sname |
+-----+
1	Ankur	Kahar
2	Dhaval	Joshi
3	Ankita	Shah
43	Kiran	Shah
+-----+
4 rows in set (0.00 sec)

3. Display names of departments whose students are members.

4. Display names of department for which no students are members.

```
mysql> select deptName from stud_dept
        -> where Dept NOT IN(select DeptID from stud_member);
+-----+
| deptName |
+-----+
| Mechanical |
| Chemical |
+-----+
2 rows in set (0.00 sec)
```

5. Display names of all departments.

6. Find the number of students of electrical department who are members.

```
mysql> select count(*) from stud_member where DeptID=2;
+-----+
| count(*) |
+-----+
| 4 |
+-----+
1 row in set (0.00 sec)
```

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

mysql> select * from stud_member where Fname like 'A%';												
I RollNo	l Fname	Ī	Mname	I	Sname	Ī	DeptID	Semester 1	ContactNo I	Geno	der 1	
1	l Ankur	Ī	Samir	1	Kahar	Ī	1 I	1	272121	М	<sub>1</sub>	
1 3	l Ankita	I	Biren	I	Shah	I	1 I	1 I	112121	F	I	
			JitenKumar						.00007 .		I	
+3 rows in				-+		-+		+	<u> </u>		+	

8. Display all details of Male members only.

-	mysql> select * from stud_member where Gender='M';												
Ī	RollNo I	Fname I	Mname +	Ī	Sname	1	DeptID	Semester I	ContactNo	o I	Gender	^	
			Samir				•					 I	
1	2 1	Dhaval I	Dhiren	1	Joshi	1	1	1	232121	iΙ	М	- 1	
1	13 I	Amit I	JitenKumar	1	Mehta	1	3 1	3 1	453667	7	М	- 1	
	23	Jinal I	Ashish	1	Gandhi	-	2 1	1	323232	2	М	- 1	
1	22	Ganesh 1	Asha	1	Patel	1	2 1	3 1	124124	4	М	- 1	
+-		+	+	-+		-+	+		+	+		+	
5	rows in	set (0,00	) sec)										

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

	mysql> select * from stud_member where Semester=3;													
I	RollNo I	Fname	I	Mname	I	Sname	I	DeptID	Semester	I	ContactNo I		Gender	    -
i	•			MaheshKumar				2 I			123123			ı I
1	13 I	Amit	I	JitenKumar		Mehta	1	3 1	3	1	453667 I		М	l
1	22	Ganesh	I	Asha		Patel	1	2 1	3	1	124124 I	ı	М	l
1	7 I	Pooja	I	Mayaank		Desai	1	3 1	3	1	328656 I		F	l
I	8 1	Koma l	I	Krishnaraj	I	Bhatia	I	2 1	3	I	257422 I		F	I
+	+		-+		-+-		-+-	+		-+		+-		+

5 rows in set (0.00 sec)

## ${\tt 10.}$ Display data of student female members in alphabetical order.

mysql> select \* from stud\_member where Gender='F' order by Fname asc;

			+								
1	RollNo I	Fname	•	Ī	Sname	Ī	DeptID	Semester I	ContactNo I	Gende	rl
١			Biren					1			
-	43	Kiran	Viraj	1	Shah	1	1 I	1 I	754124 I	F	- 1
-	10 I	Koma l	MaheshKumar	1	Pandaya	1	2 1	3 1	123123 I	F	- 1
-	8 1	Koma l	Krishnaraj	1	Bhatia	1	2 1	3 1	257422 I	F	- 1
-	7 I	Pooja	Mayaank	1	Desai	1	3 1	3 1	328656 I	F	- 1
-	4 1	Shweta	Mihir	1	Patel	1	3 1	1 I	646341 I	F	- 1

6 rows in set (0.00 sec)

Thank You