

## 20BCS042 MOHD ADIL

### ASSIGNMENT 4

```
mysql> use 20bcs042;
```

```
Database changed
```

```
mysql> create table stud_Dept(  
    -> Dept int,  
    -> DeptName varchar(30));
```

```
Query OK, 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 OK, 0 rows affected (0.03 sec)
```

```
mysql> describe stud_dept;
```

| Field    | Type        | Null | Key | Default | Extra |
|----------|-------------|------|-----|---------|-------|
| Dept     | int         | YES  |     | NULL    |       |
| DeptName | varchar(30) | YES  |     | NULL    |       |

```
2 rows in set (0.01 sec)
```

```
mysql> describe stud_member;
```

| Field     | Type        | Null | Key | Default | Extra |
|-----------|-------------|------|-----|---------|-------|
| RollNo    | int         | YES  |     | NULL    |       |
| Fname     | varchar(10) | YES  |     | NULL    |       |
| Mname     | varchar(20) | YES  |     | NULL    |       |
| Sname     | varchar(10) | YES  |     | NULL    |       |
| DeptID    | int         | YES  |     | NULL    |       |
| Semester  | int         | YES  |     | NULL    |       |
| ContactNo | 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 OK, 5 rows affected (0.02 sec)
```

```
Records: 5  Duplicates: 0  Warnings: 0
```

```
mysql> select * from stud_dept;
```

| Dept | DeptName               |
|------|------------------------|
| 1    | Information Technology |
| 2    | Electrical             |

```

1      3 | Civil          |
1      4 | Mechanical     |
1      5 | Chemical       |

```

```
+-----+-----+
```

5 rows in set (0.01 sec)

```
mysql> 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 OK, 11 rows affected (0.01 sec)

Records: 11 Duplicates: 0 Warnings: 0

```
mysql> select * from stud_member;
```

```

+-----+-----+-----+-----+-----+-----+-----+-----+
| RollNo | Fname | Mname   | Sname | DeptID | Semester | ContactNo | Gender |
+-----+-----+-----+-----+-----+-----+-----+
|      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 |

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;
```

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

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.

```
mysql> select DISTINCT deptName from stud_dept, stud_member
-> where stud_member. DeptID=stud_dept. Dept;
+-----+
| deptName          |
+-----+
| Information Technology |
| Electrical         |
| Civil              |
+-----+
3 rows in set (0.00 sec)
```

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.

```
mysql> select DeptName from stud_dept;
+-----+
| DeptName          |
+-----+
| Information Technology |
| Electrical         |
| Civil              |
| Mechanical         |
| Chemical           |
+-----+
5 rows in set (0.00 sec)
```

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%';
```

| RollNo | Fname  | Mname      | Sname | DeptID | Semester | ContactNo | Gender |
|--------|--------|------------|-------|--------|----------|-----------|--------|
| 1      | Ankur  | Samir      | Kahar | 1      | 1        | 272121    | M      |
| 3      | Ankita | Biren      | Shah  | 1      | 1        | 112121    | F      |
| 13     | Amit   | JitenKumar | Mehta | 3      | 3        | 453667    | M      |

3 rows in set (0.00 sec)

8. Display all details of Male members only.

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

| RollNo | Fname  | Mname      | Sname  | DeptID | Semester | ContactNo | Gender |
|--------|--------|------------|--------|--------|----------|-----------|--------|
| 1      | Ankur  | Samir      | Kahar  | 1      | 1        | 272121    | M      |
| 2      | Dhaval | Dhiren     | Joshi  | 1      | 1        | 232121    | M      |
| 13     | Amit   | JitenKumar | Mehta  | 3      | 3        | 453667    | M      |
| 23     | Jinal  | Ashish     | Gandhi | 2      | 1        | 323232    | M      |
| 22     | Ganesh | Asha       | Patel  | 2      | 3        | 124124    | M      |

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;
```

| RollNo | Fname  | Mname       | Sname   | DeptID | Semester | ContactNo | Gender |
|--------|--------|-------------|---------|--------|----------|-----------|--------|
| 10     | Komal  | MaheshKumar | Pandaya | 2      | 3        | 123123    | F      |
| 13     | Amit   | JitenKumar  | Mehta   | 3      | 3        | 453667    | M      |
| 22     | Ganesh | Asha        | Patel   | 2      | 3        | 124124    | M      |
| 7      | Pooja  | Mayaank     | Desai   | 3      | 3        | 328656    | F      |
| 8      | Komal  | Krishnaraj  | Bhatia  | 2      | 3        | 257422    | F      |

5 rows in set (0.00 sec)

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

```
mysql> select * from stud_member where Gender='F' order by Fname asc;
```

| RollNo | Fname  | Mname       | Sname   | DeptID | Semester | ContactNo | Gender |
|--------|--------|-------------|---------|--------|----------|-----------|--------|
| 3      | Ankita | Biren       | Shah    | 1      | 1        | 112121    | F      |
| 43     | Kiran  | Viraj       | Shah    | 1      | 1        | 754124    | F      |
| 10     | Komal  | MaheshKumar | Pandaya | 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 set (0.00 sec)

Thank You