

Assignment-3

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Batch: 2nd year CSE

Create a relational database that contains the following tables and insert the following data into these tables.

department:

DeptID	DeptName
1	Information Technology
2	Electrical
3	Civil
4	Mechanical
5	Chemical

stud_member:

RollNo	FName	MName	SName	DeptID	Semester	ContactNo	Gender
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

Now, solve the following SQL Queries:

1. Display the names and contact numbers of all student members.
2. Give the names and roll number of all students of Information Technology who are the members.
3. Display names of Departments whose students are members.
4. Display names of Departments for which no student are members.
5. Display names of all Departments.
6. Find the number of students of Electrical Department who are members.
7. Display information of student members whose name begins with the letter A.
8. Display all details of Male members only.
9. Display data of student members who are currently in semester 3.
10. Display data of student female members in alphabetical order.

Answer:

1.
mysql> SELECT CONCAT(FName, ' ', MName, ' ', SName) AS Name, ContactNo
-> FROM stud_member;

Name	ContactNo
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

2.
mysql> SELECT CONCAT(FName, ' ', MName, ' ', SName) AS Name, RollNo
-> FROM stud_member
-> WHERE DeptID = 1;

Name	RollNo
Ankur Samir Kahar	1
Dhaval Dhiren Joshi	2
Ankita Biren Shah	3
Kiran Viraj Shah	43

3.
mysql> SELECT DISTINCT D.DeptName
-> FROM department AS D, stud_member AS S
-> WHERE D.DeptID = S.DeptID
-> ORDER BY D.DeptID;

DeptName
Information Technology
Electrical
Civil

4.
mysql> SELECT DeptName
-> FROM department
-> WHERE DeptID NOT IN (SELECT DeptID FROM stud_member);

DeptName
Mechanical
Chemical

5.
mysql> SELECT DeptName FROM department;

DeptName
Information Technology
Electrical
Civil
Mechanical
Chemical

6.

```
mysql> SELECT COUNT(*)
-> FROM stud_member
-> WHERE DeptID = 2;
```

COUNT(*)
4

7.

```
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

8.

```
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	232122	M
13	Amit	Jitenkumar	Mehta	3	3	453667	M
23	Jinal	Ashish	Gandhi	2	1	323232	M
22	Ganesh	Asha	Patel	2	3	124244	M

9.

```
mysql> SELECT * FROM stud_member
-> WHERE Semester = 3;
```

RollNo	FName	MName	SName	DeptID	Semester	ContactNo	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

10.

```
mysql> SELECT * FROM stud_member
-> WHERE Gender = 'F'
-> ORDER BY FName;
```

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	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