Assignment-3

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Roll Number: 19BCS061

Batch: 2nd year CSE

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

department:

1	DeptID	1	DeptName	
+- 	1	1	Information	Technology
1			Electrical	3.1
1	3	1	Civil	
1	4	1	Mechanical	
1	5	1	Chemical	

stud member:

1	RollNo	1	FName	1	MName	1	SName	1	DeptID	١	Semester	1	ContactNo	1	Gender	
1	1	1	Ankur	1	Samir	1	Kahar	+	1	+.	1	1	272121	1	 М	l
1	2	1	Dhaval	1	Dhiren	1	Joshi	Ī	1	1	1	1	232122	1	M	1
1	3	1	Ankita	1	Biren	1	Shah	1	1	1	1	1	112121	1	F	١
1	10	1	Komal	1	MaheshKumar	1	Pandya	1	2	1	3	1	123123	1	F	I
I	13	1	Amit	1	Jitenkumar	1	Mehta	1	3	1	3	1	453667	1	M	i
ŧ	23	1	Jinal	1	Ashish	1	Gandhi	1	2	1	1	1	323232	1	М	ĺ
ŀ	22	1	Ganesh	1	Asha	1	Patel	1	2	1	3	Î	124244	i	M	i
f	4	1	Shweta	1	Mihir	1	Patel	1	3	1	1	i	646341	i	F	i
ı	7	1	Pooja	1	Mayaank	1	Desai	1	3	i	3	i	328656	i	F	i
£	8	1	Komal	1	Krishnaraj	1	Bhatia	1	2	i	3	i	257422	i	F	i
1	43	1	Kiran	1	Viraj	1	Shah	i	1	i	1	i	754124	i	F	i

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.

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Answer:
mysql> SELECT CONCAT(FName, ' ', MName, ' ', SName) AS Name, ContactNo
  -> FROM stud_member;
                            | 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 |
mysql> SELECT CONCAT(FName, ' ', MName, ' ', SName) AS Name, RollNo
    -> FROM stud_member
     -> WHERE DeptID = 1;
 -----+
  Name | RollNo |
  Ankur Samir Kahar |
Dhaval Dhiren Joshi |
Ankita Biren Shah
| Kiran Viraj Shah | 43
+----+
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
mysql> SELECT DeptName
     -> FROM department
     -> WHERE DeptID NOT IN (SELECT DeptID FROM stud_member);
 DeptName |
  Mechanical |
 Chemical
mysql> SELECT DeptName FROM department;
| DeptName
 Information Technology |
  Electrical
  Civil
  Mechanical
| Chemical
```

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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 |
| 1 | Ankur | Samir | Kahar
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	RollNo	FName	MName	SName	DeptID	Semester	ContactNo	Gender	Ī
	1 3 13	Ankur Ankita Amit	Samir Biren Jitenkumar	Kahar Shah Mehta	1 1 3	1 1 3	272121 112121 453667	M F M	- - -
-	г ¬	-	г .	-	г ¬	_	7	Г .	г

mysql> SELECT * FROM stud_member

-> WHERE Gender = 'M';

RollNo	FName	MName	SName	DeptID	Semester	ContactNo	Gender
1 2 13 23 22	Ankur Dhaval Amit Jinal Ganesh	Samir Dhiren Jitenkumar Ashish Asha	Kahar Joshi Mehta Gandhi Patel	1 1 3 2 2	1 1 3 1 1	272121 232122 453667 323232 124244	M M M M

mysql> SELECT * FROM stud_member

-> WHERE Semester = 3;

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	RollNo	FName	MName	SName	DeptID	Semester	ContactNo	Gender	į
-	10 13 22 7 8	Komal Amit Ganesh Pooja Komal	MaheshKumar Jitenkumar Asha Mayaank Krishnaraj	Pandya Mehta Patel Desai Bhatia	2 3 2 3 2	3 3 3 3 3	123123 453667 124244 328656 257422	F M M F F	+ .
	10	+	+	+	+	+		+	+

mysql> SELECT * FROM stud_member

-> WHERE Gender = 'F'

-> ORDER BY FName;

1	Rollno	FName	+ MName	+ SName	DeptID	Semester	ContactNo	 Gender
	3 43 10 8 7 4	Ankita Kiran Komal Komal Pooja Shweta	Biren Viraj MaheshKumar Krishnaraj Mayaank Mihir	Shah Shah Pandya Bhatia Desai Patel	1 1 2 2 3 3	1 1 3 3 3	112121 754124 123123 257422 328656 646341	F F F F