Practical List 9

Joins, Subquery, Grouping etc

1. Ensure that your login has following tables with proper constraints and data:

"Student" Table

RollNo	Name	City
1	Amit	Delhi
2	Sumit	Goa
3	Shweta	Gwaliar
4	Kumar	Goa
5	Puneet	Meerut
6	Bharat	Gwaliar

"Course" Table

CourseId	CourseName	Coursefees	Department
101	MCA	80000	MCA
102	MBA	60000	MBA
103	Btech	75000	Engg
104	BCA	30000	MCA
105	BSc(IT)	25000	MCA
106	MSc(IT)	35000	MCA
107	BBA	22000	MBA

"Register" Table

RollNo	CourseId
2	101
4	103
5	101
3	105
1	103

2. See the contents of above table and commit data.

"Please verify your output each time with above tables."

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3. Write queries for following :-

(a) Show Details of all Students

(b) Show Details of students who are not registered in any course.

(c) Show Details of students who are registered in any course:

1. Write Query Using Join
2. Write Query Using Sub query

(d) Details of students along with **course code** in which they are registered using simple join.

(e) Details of students along with **course details** in which they are registered using simple join.

(f) Details of courses in which no student is registered.

(g) Name of all students who are registered in “MCA” course:

1. Write Query Using Join
2. Write Query Using Sub query

(h) Details of students who are registered in most expensive course.

(i) Display Highest course fees.

(j) Display Second highest coursefees.

(k) Display total sum of all course fees.

(l) Display department wise total fees of all courses. Show both department name & total fees.

(m) Display department wise total fees of all those departments whose total department fees is greater than Rs. 80000/-. (How many rows are displayed?)

(n) Display department wise total fees of only those courses having fees greater than Rs. 30000/-. (How many rows are displayed?)

(o) Run Queries for All Types of Joins Like:

- Inner Join
- Left Outer Join
- Right Outer Join
- Full Outer Join
- Self Join

(Think and Make Queries Yourself on above Tables)