**🔹 Practice Questions on JOINS**

**Basic (INNER JOIN)**

1. List all students along with the courses they are enrolled in.
2. Show student names with their grades in each course.
3. Display course names along with the names of students enrolled.
4. Find teachers assigned to each course.
5. List students who are enrolled in “Database Systems.”

**LEFT JOIN**

1. Show all students and their enrolled courses (include students with no enrollment).
2. Display all courses and the students enrolled in them (include courses with no students).
3. Show all teachers and their assigned courses (include teachers not assigned to any course).
4. List students and their grades, but also include students who have not received a grade yet.
5. Display all students and courses together (even if not enrolled).

**RIGHT JOIN**

1. Show all courses with their enrolled students (include courses even if no students enrolled).
2. List all enrollments including course names and student names, ensuring no course is missed.
3. Display all teachers with assigned courses, including courses without teachers.

**FULL JOIN (via UNION)**

1. Display all students and their courses, including students with no courses and courses with no students.
2. Show all teachers and courses, even if some teachers don’t teach and some courses don’t have teachers.

**CROSS JOIN**

1. Show all possible combinations of students and courses.
2. List all possible teacher-course pairs.
3. Generate every possible student-teacher combination.

**SELF JOIN**

1. Find pairs of students with the same age.
2. List teachers who teach the same subject.
3. Show students who have the same name (duplicate names).

**Advanced JOINs**

1. Show student names, course names, and teacher names in a single query.
2. Find students who are enrolled in more than one course.
3. Display courses with more than 2 students enrolled.
4. Show students who are not enrolled in any course.
5. Find teachers who are not assigned to any course.
6. List students along with the number of courses they are enrolled in.
7. Display average grade (consider A=4, B=3, C=2) per course using JOINs.
8. Show students enrolled in all courses taught by “Dr. Meena.”
9. Find students who are enrolled in both “Database Systems” and “Operating Systems.”