

# Assignments -5

## **Joins Assignments**

### **INNER JOIN Questions**

1. Retrieve a list of all employees along with the name of the department they belong to.
2. Find the employees who work in the 'Engineering' department.
3. List the employees and their department names, only for those employees who are assigned to a department.
4. Retrieve the department names and the count of employees in each department.
5. Find the employee names and department names for departments that start with the letter 'F'.

### **LEFT JOIN Questions**

6. List all employees along with their department names, including those who are not assigned to any department.
7. Find all employees who do not belong to any department.
8. Retrieve a list of departments and the employees assigned to them, including departments with no employees.
9. Get the names of employees along with their department names, sorted by department name, including those without a department.
10. List all employees and their departments, where the department name is 'Finance'.

### **RIGHT JOIN Questions**

11. Retrieve all departments along with the employees assigned to them, including departments without employees.
12. Find the names of departments that do not have any employees.
13. List all department names along with their employees, sorted by department name.
14. Retrieve the names of employees and departments, including employees without a department and departments without employees.
15. Get a list of departments and the names of their employees, where the employee's name starts with 'A'.

### **FULL JOIN Questions**

16. Retrieve all employees and departments, including those without matches in the other table.
17. Find the departments and employees, showing NULL for unmatched records in both tables.
18. List all department names and employee names, including those without corresponding matches, sorted by department name.
19. Get the names of employees and departments, ensuring that all records from both tables are shown.
20. Retrieve a list of all departments and employees, including those without matches, and count the total number of rows returned.

### **CROSS JOIN Questions**

21. Generate a list of all possible combinations of employees and departments.
22. Create a list of employee names and department names, showing every possible combination.
23. Find the Cartesian product of the employee and department tables.

24. List all employees and all departments, ensuring that each employee is matched with every department.
25. Create a report showing all possible employee-department pairings.

### **SELF JOIN Questions**

26. Retrieve pairs of employees who work in the same department.
27. Find the names of employees along with the names of their colleagues in the same department.
28. List all employees and their colleagues, ensuring that no employee is paired with themselves.
29. Find employees who work in the same department as 'Alice'.
30. Retrieve a list of employee pairs who are in the same department, sorted by department name.

### **Mixed JOIN Questions**

31. Retrieve all employees and their departments, including those without matches, and order the results by employee name.
32. Find the names of employees and their departments, showing NULL for unmatched records, and sort by department name.
33. Create a report showing employees, their departments, and include all employees and departments, even those without matches.
34. List all employees and departments, ensuring that all records from both tables are included, and sort by employee name.
35. Retrieve a list of employees and departments, including unmatched records, and count the number of employees in each department.