SQL JOINS

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Tables & Insert Statements
1. departments Table
CREATE TABLE departments (
  dept_id INT PRIMARY KEY,
  dept_name VARCHAR(100)
INSERT INTO departments VALUES
(1, 'Human Resources'),
(2, 'Engineering'),
(3, 'Marketing');
1 2. employees Table
CREATE TABLE employees (
  emp_id INT PRIMARY KEY,
  emp name VARCHAR(100).
  dept_id INT,
  salary INT
INSERT INTO employees VALUES
(101, 'Amit Sharma', 1, 30000),
(192, 'Neha Reddy', 2, 45080),
(103, 'Faizan Ali', 2, 48000),
(104, 'Divya Mehta', 3, 35000),
(105, 'Ravi Verma', NULL, 28080);
JOIN-Based Questions
1. Show all employees with their department names.
 2. List employees who do not belong to any department.
3. Display the total number of employees in each department.
 4. Show departments with no employees.
5. List employee names and department names for those who earn more than \$40,900.
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JOIN BASED QUESTIONS:

1. Show all employees with their department names:

SELECT e.emp_name,d.dept_name

FROM employees

LEFT JOIN departments d ON e.dept_id=d.dept_id;

2. List employees who do not belong to any department:

SELECT emp name

FROM employees

WHERE dept_id IS NULL;

3. Display total number of employees in each department:

SELECT d.dept_name,COUNT(e.emp_id) AS total_employees

FROM departments d

LEFT JOIN employees e on d.dept_id=e.dept_id

GROUP BY d.dept name;

4. Show departments with no employees:

SELECT d.dept_name

FROM departments d

LEFT JOIN employees e on d.dept_id=e.dept_id

WHERE e.emp_id IS NULL;

5. List employee names and department names for those who earn more than 40,000:

SELECT e.emp_name,d.dept_name

FROM employees e

LEFT JOIN departments d on e.emp id=d.dept id

WHERE e.salary > 40,000;