# Day 26 – SQL Practice: HR and Payroll Analytics

## 🏢 Dataset Overview

This dataset simulates a Human Resources and Payroll system. It includes employees, departments, salaries, and leaves. The tasks will focus on payroll summaries, departmental insights, and attendance tracking.

## 📁 Tables and Sample Data

1. Employees

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| EmployeeID | EmployeeName | DepartmentID | JoinDate | Gender |
| 1 | Anjali Rao | 101 | 2020-01-15 | Female |
| 2 | Ravi Kumar | 102 | 2019-03-20 | Male |
| 3 | Meera Iyer | 101 | 2021-07-10 | Female |
| 4 | Karan Malhotra | 103 | 2018-11-05 | Male |

2. Departments

|  |  |
| --- | --- |
| DepartmentID | DepartmentName |
| 101 | Finance |
| 102 | HR |
| 103 | Engineering |

3. Salaries

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SalaryID | EmployeeID | Month | BaseSalary | Bonus |
| 201 | 1 | January | 50000 | 5000 |
| 202 | 2 | January | 45000 | 3000 |
| 203 | 3 | January | 48000 | 4000 |
| 204 | 4 | January | 60000 | 6000 |
| 205 | 1 | February | 50000 | 4500 |
| 206 | 2 | February | 45000 | 3500 |

4. Leaves

|  |  |  |  |
| --- | --- | --- | --- |
| LeaveID | EmployeeID | LeaveDate | LeaveType |
| 301 | 1 | 2024-01-10 | Sick |
| 302 | 2 | 2024-01-12 | Casual |
| 303 | 1 | 2024-02-02 | Casual |
| 304 | 3 | 2024-02-15 | Sick |

## 🧠 Practice Questions

1) List all employees with their department names and date of joining.

2) Show the monthly salary (base + bonus) for each employee.

3) Display departments with average total salary greater than 50000.

4) Find employees who have taken more than one leave.

5) Identify the department with the highest total bonus payout.

6) Show all employees who haven't received salary for February.

7) Display total number of leaves per employee and their department.

8) Rank employees based on their January total salary (base + bonus).

9) List employees who took leave in January but not in February.

10) Show departments with no employees currently listed.

🎯 Bonus:

Find the top 2 departments with the highest average salary per employee (include base + bonus).