

MySQL Practical Evaluation Exam

Provided Dataset

Table: employees

id	name	department_id	salary	hire_date
1	Amit Kumar	1	60000	2021-02-15
2	Neha Sharma	2	75000	2020-11-01
3	Rohan Gupta	NULL	50000	2022-01-20
4	Anjali Mehta	3	80000	2019-09-13
5	Ravi Desai	1	72000	2021-06-07

Table: departments

id	name
1	HR
2	IT
3	Marketing
4	Finance

Table: projects

id	name	start_date	end_date
1	Recruitment App	2021-01-01	2021-06-30
2	Website Redo	2022-03-15	2022-10-15
3	ERP Upgrade	2020-05-10	NULL

Table: employee_project

employee_id	project_id
1	1
1	2
2	2
3	3
4	1

Tasks (All Practical — SQL to be written and executed)

Task 1: Data Retrieval (20 Marks)

1. Write a query to get names of employees with salary > 65000.
2. Write a query to fetch employee names along with their department name.
3. Get a list of all departments and count of employees in each.
4. List all employees who are not assigned to any department.

Task 2: Join and Aggregations (30 Marks)

5. Fetch employee names with their assigned project names using joins.
6. List the number of projects handled by each employee.
7. Get department-wise average salary of employees.

Task 3: Subqueries and Date Functions (30 Marks)

8. Fetch names of employees who joined before Jan 2021.
9. List employees working on more than 1 project.
10. Get the latest joined employee in each department.

Task 4: DDL / DML / Bonus (20 Marks)

11. Write a query to add a new column `email` in `employees` table.
12. Insert a new department named "Operations".
13. Write a query to delete all employees with salary less than 55000.
14. (Bonus) Create a view named `employee_summary` that shows: employee name, department name, total assigned projects.