

Cognizant SQL Interview — Set 2 (Medium to Hard Level)

Question 1: Find Employees with the Same Salary

Table: Employee

EmplID	EmpName	Department	Salary
1	Rahul	IT	60000
2	Priya	HR	75000
3	Aman	IT	60000
4	Neha	Finance	90000

 Finds salaries shared by more than one employee.

Question 2: Retrieve the 3rd Highest Salary Using Window Function

Table: Employee

 Uses `DENSE_RANK()` to handle duplicate salaries.

Question 3: List All Employees Who Work in Departments Having More Than 2 Employees

Table: Employee

 Subquery filters departments with >2 employees.

Question 4: Retrieve Employees Who Have Not Been Assigned Any Project

Tables:

Employee(EmpID, EmpName)

Project(ProjectID, EmpID, ProjectName)

Sample Data:

Employee

EmpID	EmpName
1	Rahul
2	Priya
3	Aman

Project

ProjectID	EmpID	ProjectName
P01	1	Alpha
P02	3	Beta

Shows employees without any linked project.

Question 5: Find Department-Wise Highest Salary Using Window Function

Table: Employee (with Department, Salary)

Finds top earners per department.

Question 6: Display Customers Who Spent More Than the Average Purchase Amount

Table: Orders

OrderID	CustomerID	Amount
101	C01	1200
102	C02	3000
103	C01	1800
104	C03	1000

 *Compares total spent per customer against average order amount.*

Question 7: Get Employee Details Along with Their Manager Names

Table: Employee

EmpID	EmpName	ManagerID
1	Rahul	NULL
2	Priya	1
3	Aman	1
4	Neha	2

 *Self-join to display reporting hierarchy.*

Question 8: Find Employees Whose Salary Is Greater Than Their Department's Average

Table: Employee

 *Compares each employee's salary with the departmental average.*

Question 9: Retrieve Top 2 Highest Paid Employees from Each Department

Table: Employee

 Displays the top two earners per department.

Question 10: Find Departments That Have Never Had an Employee

Tables:

Department(DeptID, DeptName)

Employee(EmpID, EmpName, DeptID)

Sample Data:

Department

DeptID	DeptName
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D1	IT
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D2	HR
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D3	Finance
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Employee

EmpID	EmpName	DeptID
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1	Rahul	D1
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2	Priya	D2
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Query:

 Finds departments with no employees.
