Table: Employee

EmpID	Name	DeptID	Salary	Experience
101	Alice	1	50000	5 years
102	Bob	2	70000	7 years
103	Carol	1	65000	6 years
104	David	3	72000	8 years
105	Eve	2	52000	4 years

Table: Department

DeptID	DeptName	ManagerID
1	HR	201
2	IT	202
3	Finance	203

Table: Project

ProjectID	ProjectName	DeptID	Budget
501	Alpha	1	500000
502	Beta	2	700000
503	Gamma	1	650000
504	Delta	3	720000

Table: Works_On

EmpID	ProjectID	HoursWorked
101	501	30
102	502	25
103	503	20
104	504	35
105	502	28

Nested Queries:

1. Find departments that have at least one employee with a salary greater than 60,000

2. Find employees who work on projects in their own department.

3. Find departments where all employees earn more than the average salary of the entire company.

4. Find employees who work on all projects handled by the 'HR' department.

5. Find employees who are working on projects with a budget greater than 600,000.

Aggregates, Group By, Having

6. Find the total salary paid in each department.

7. Find departments where the total salary of employees exceeds 100,000

8. Find projects where the total hours worked exceeds the average hours worked across all projects.

9. Find departments where the average salary of employees is greater than 60,000. (Use Join)

10. Find departments where the average salary is higher than the overall company's average salary. (Use a nested subquery in the Having Clause)

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11. Observe the given output table and write an SQL query that produces this result. Additionally, describe the query in plain English.

Output Table:

EmpID	Name	ProjectID	Budget
102	Bob	502	700000
104	David	504	720000

12. Observe the given output table and write an SQL query that produces this result. Additionally, describe the query in plain English.

Output Table:

EmpID	Name	ProjectID	HoursWorked
101	Alice	501	30
105	Eve	502	28