1️⃣ Second highest salary

- Salaries: 90000, 85000, 75000, 70000, 60000, 50000, 45000, 35000, 30000
- Highest = 90000, Second highest = **85000**

✅ **Answer:** 85000 (Neha)

2️⃣ Employees earning more than their manager

Check salary > manager_salary:

Employee	Salary	Manager	Manager Salary
Aman	50000	Ravi	90000 → ❌
Raj	70000	Ravi	90000 → ❌
Akash	45000	Neha	85000 → ❌
Priya	60000	Neha	85000 → ❌
Arjun	30000	Karan	75000 → ❌
Sneha	35000	Karan	75000 → ❌
Anjali	50000	Ravi	90000 → ❌

❌ **No employee earns more than their manager** in this dataset.

3️⃣ Duplicate rows

Check for duplicate combination of columns: emp_name, salary, dept_id, manager_id, joining_date

- Aman and Anjali both have 50000 salary, dept_id 10, manager_id 3, but joining_date different → not duplicate.

✅ **Answer: No duplicates**

4️⃣ Employees joined in the last 3 months (from 10-Oct-2025)

- Last 3 months: **10-Jul-2025 to 10-Oct-2025**

Employee	Joining Date
Akash	10-01-2025 → ❌
Priya	01-07-2025 → ❌
Arjun	05-08-2025 → ✅
Sneha	10-09-2025 → ✅

✅ **Answer:** Arjun, Sneha

5️⃣ Department-wise average salary

Dept_id	Salaries	Average
10	50000, 70000, 90000, 50000	65000
20	45000, 60000, 85000	63333
30	30000, 35000, 75000	46666

✅ **Answer:**

- Dept 10 → 65000
- Dept 20 → 63333
- Dept 30 → 46666

6️⃣ Number of employees per department

Dept_id	Count
10	4
20	3

Dept_id	Count
30	3

7️⃣ Employees whose name starts with 'A'

- Aman, Akash, Arjun, Anjali

✅ **Answer:** Aman, Akash, Arjun, Anjali

8️⃣ Employees without a manager (manager_id IS NULL)

- Ravi (emp_id 3), Neha (emp_id 6), Karan (emp_id 9)

✅ **Answer:** Ravi, Neha, Karan

9️⃣ Total salary expense

Sum all salaries:
50000 + 70000 + 90000 + 45000 + 60000 + 85000 + 30000 + 35000 + 75000 + 50000 = **590000**

✅ **Answer:** 590000

🔟 Top 5 highest-paid employees

Employee	Salary
Ravi	90000
Neha	85000
Karan	75000
Raj	70000
Priya	60000
