DAY 12 – SQL Window Functions (Tables Only)

1. Sample Employees Table

emp_id	name	dept	salary
1	Rahul	IT	60000
2	Anil	IT	60000
3	Sneha	IT	50000
4	Ramesh	HR	55000
5	Priya	HR	50000

2. ROW_NUMBER() Result (IT Department)

name	salary	row_number
Rahul	60000	1
Anil	60000	2
Sneha	50000	3

3. RANK() Result (IT Department)

name	salary	rank
Rahul	60000	1
Anil	60000	1
Sneha	50000	3

4. DENSE_RANK() Result (IT Department)

name	salary	dense_rank
Rahul	60000	1
Anil	60000	1
Sneha	50000	2

5. Difference Between ROW_NUMBER, RANK, DENSE_RANK

Function	Duplicates Allowed	Gaps in Ranking	Best Use Case
ROW_NUMBER()	No	No	Unique row identification

RANK()	Yes	Yes	Competition ranking
DENSE_RANK()	Yes	No	Leaderboard ranking