

## Day 37 – E-Commerce Orders & Customers Dataset

### ◆ Key Learnings & Experiences

1. Today's questions felt **very easy** compared to previous days, and I was able to solve all queries smoothly on my own.
2. **Query Confidence Boost** – I noticed that even with multiple joins, aggregations, and conditions, the queries felt natural and faster to implement.
3. Worked on **aggregations with conditions** such as total revenue from Electronics and cancellation rate calculation, which came out easily due to daily practice.
4. **Indexes & Constraints** – Revisiting schema creation with indexes and constraints helped reinforce why they are crucial in real-world systems for performance and data quality.
5. Bonus Challenge (Cancellation Rate %) further strengthened my confidence in using **CASE with aggregations**.

### ◆ Reflections

- I can clearly see the **progress from Day 1** where I struggled with simple joins, to now where I am solving complex multi-table queries more confidently.
- Daily practice is truly making SQL concepts second nature, reducing the time taken to solve problems.
- Even though today's set was easier, it served as a **good revision and confidence booster** before moving into tougher sets.

### ◆ Key SQL Concepts Practiced

- Joins (INNER & LEFT)
- Aggregations with SUM, COUNT, AVG
- Ranking with RANK()
- NOT EXISTS subqueries
- Conditional Aggregation with CASE
- Working with **Date functions** like DATENAME(MONTH, ...)