SQL 100 Days Challenge – Day 63 Reflection

m Date: Day 63

Dataset Theme: Retail Orders, Customers & Products

▼ Today's Learning Summary:

Day 63 felt smooth and straightforward compared to the past few sessions. The dataset focused on **customers, products, orders, and order details**, and the queries revolved around mastering joins, aggregations, subqueries, and window functions.

Key Learnings & Observations:

1. Basic Join & Aggregation

- $_{\circ}$ Easily listed customers with their total order amounts.
- o Confidence in grouping and aggregation is stronger now.

2. Top Products by Revenue

o Ranked products by sales revenue — easy to implement and interpret.

3. Filtering by Condition

Extracting Indian customers' orders was simple and quick.

4. Date Functions

Used YEAR(), MONTH(), and DATENAME() to analyze monthly order counts.

5. CASE Statements

o Categorized customers into *High Value* vs *Regular* based on total spend.

6. Window Functions

- Applied ROW NUMBER() to fetch the most recent order per customer.
- o Ranked customers by loyalty points using RANK() smooth execution.

7. Subqueries

Identified products never ordered using both LEFT JOIN and NOT IN approaches.

8. Recursive CTE for Running Totals

o Implemented cumulative order totals — worked out well.

9. Advanced Joins + Aggregation

Found average spend per customer for each category — insightful query.

10. Bonus Challenge

- o Identified the top revenue-contributing customer with contribution percentage.
- o The query was straightforward and executed successfully without issues.

Personal Reflection:

Compared to earlier days, today's session felt **easy and refreshing**. Every query was solved smoothly with minimal confusion, showing how much stronger my SQL foundation has become. Even concepts like **window functions and subqueries** that once felt intimidating now come naturally.

This session reinforced the power of **daily consistency** — tough queries that were once a struggle now feel like second nature.

- **†** Takeaway:
- *†* Daily practice transforms complexity into clarity.
- ← Even on "easy" days, the learnings add up to long-term mastery.