<div align="center">**Day 32 – SQL Practice Reflection**</div>

**Overall Experience**

Today's set of questions continued the trend of mixing **real-world business cases** with advanced SQL techniques. Compared to the early days of this challenge, even the complex queries now feel more approachable and structured. I can clearly see the improvement in my query-building confidence, logical breakdown, and familiarity with advanced SQL concepts.

**Key Learnings**

1. **Steady Comfort with Complex Queries**
   Day by day, even multi-step queries and heavy use of window functions are feeling more natural to implement. When I started, these would take much longer, but now I can approach them with a clear plan.

2. **Challenging Problems Tackled**

   o **8th Question** – Required calculating product revenue share within each category. This needed a combination of aggregation and window functions (SUM OVER (PARTITION BY ...)). It was one of the most challenging problems today.

   o **9th Question** – Calculating a **running total revenue** by month was the toughest, as it needed precise ordering and use of SUM OVER for cumulative totals.

3. **Refined Analytical Thinking**
   Instead of jumping into coding, I now take time to break down the logic, identify the right functions (window, aggregation, subqueries), and only then start implementation. This reduces trial-and-error.

**Advanced Concepts Practiced**

- **Window Functions:** LAG, SUM OVER (ORDER BY ...), PARTITION BY

- **Conditional Aggregation:** Using HAVING to filter aggregated results.

- **Multi-CTE Chains:** Breaking problems into smaller steps with CTEs for readability.

- **Revenue Share Analysis:** Combining category-level and product-level aggregates.

- **Running Totals:** Month-over-month cumulative revenue.

**Self-Assessment**

- **Strengths:** Improved structuring of queries, reduced debugging time, and better use of analytical functions.

- **Areas to Practice:**

   o More work on **percentage share calculations** across groups.

   o Further strengthen **date-related manipulations** for business reporting.

**Takeaway Quote**

"Complex queries are no longer intimidating—they're now puzzles I enjoy solving."