

SQL 100 Days Challenge – Day 66 Reflection

Dataset Theme: OTT Platform Analytics (Users, Movies, Watch History & Payments)

Today's practice involved building and analyzing a small OTT system that tracks user behavior, movie data, payments, and viewing patterns — integrating window functions, CTEs, and analytical queries.

Key Learnings & Experience

1. Confidence with Advanced Functions

- Functions like LAG() and NTILE() now feel very natural to use.
- I can now confidently apply window functions to track gaps, ranks, and tiers effectively.

2. Query Complexity Handling

- Questions 6, 7, 9, 10, and 11 were challenging — especially the **Bonus Challenge**, which required chaining multiple CTEs and understanding continuity logic using date gaps.

3. Analytical Thinking Growth

- Writing analytical SQL queries like *country-based top movies*, *engagement tiers*, and *loyal customer tracking* enhanced my problem-solving mindset.

4. Error Debugging Skill

- I was able to identify minor logical issues like incorrect partitions and grouping scopes quickly, proving how consistent practice has strengthened my debugging approach.

Concepts Practiced

- Joins and Aggregations
- CTEs and Nested CTEs
- Window Functions: RANK(), LAG(), NTILE()
- Analytical Reporting Queries
- Date-based Calculations & Correlated Subqueries

Reflection

“Each tough query adds one more layer of understanding. Day 66 was all about applying logic beyond syntax — transforming data into real insights.”

Next Step

- Continue strengthening complex analytical queries.
- Aim for faster logical implementation and accuracy on first attempt.
- Prepare for optimizing nested queries in upcoming days.