



## Day 22 – SQL Practice Reflection

 Date: August 04, 2025

 Practice Focus: Online Learning Platform Analytics

### Daily Summary

Today's SQL practice was based on a real-world scenario involving an online course platform, with users, enrollments, courses, and reviews. The overall complexity was medium. I was able to solve all the questions independently, though some required extra thought due to logical depth.

### Key Learnings

1. Learned how to calculate and rank courses using review counts and average ratings.
2. Practiced advanced joins and aggregate filtering using `HAVING` and `GROUP BY`.
3. Understood the benefit of using CTEs and window functions to handle rankings and latest record fetch.
4. Reviewed good schema design practices using triggers, foreign keys, and default constraints.

### Additional Insights

- Created well-structured constraints for data quality and consistency, such as CHECK constraints on JoinDate and Rating.
- Used advanced logic in ranking courses per category with RANK() in the bonus challenge.
- All questions were solvable with logic and SQL techniques I've practiced before — a confidence booster.

### Difficulty & Confidence

Overall Difficulty: Medium

Confidence Level: High – Solved all questions independently.