

## Developer Reflection

### 1. What part was the most difficult?

The most challenging part was the normalization and designing the ERD to handle both operational data and analytical features like `Transaction_Efficiency`. It was tricky to decide whether to treat certain data points as attributes or full entities. Ensuring that all relationships were correctly mapped without redundancy required careful planning.

### 2. Which SQL command (DDL, DML, DQL) did you learn the most from?

I learned the most from **DDL (Data Definition Language)**. Defining tables with constraints like `CHECK`, `DEFAULT`, `NOT NULL`, and foreign key dependencies helped me understand real-world relational modeling. Also, assigning proper constraint names and managing cascading rules gave me confidence in database schema design.

### 3. What did you discover from your error logs that made you think like a real developer?

Reviewing the error logs made me realize how crucial foreign key constraints are. I understood how referential integrity is enforced and why certain deletions or inserts fail. More importantly, resolving these errors by reordering operations or altering cascading behaviors mirrored how real developers debug production issues. It taught me to think about dependencies, constraints, and the user impact of each SQL command.