SQL Course Curriculum (4 Weeks)

Week 1: Introduction to SQL & Setup

- What is SQL and how it works
- Installing MySQL or using online SQL tools
- Creating and exploring databases
- SELECT statements and filtering with WHERE
- Sorting results with ORDER BY

Week 2: Querying & Manipulating Data

- Using comparison and logical operators
- INSERT, UPDATE, and DELETE operations
- Using wildcards and LIKE
- Working with NULL values
- Aliasing and basic expressions

Week 3: Advanced Queries & Aggregation

- Aggregate functions (SUM, AVG, COUNT)
- GROUP BY and HAVING clauses
- Joining tables (INNER, LEFT, RIGHT JOIN)
- Nested queries and subqueries
- Real-world practice queries

Week 4: Practical Application & Project

- Creating your own database and tables
- Writing and testing end-to-end queries
- Exporting query results
- Mini-project: analyzing a sample dataset
- Recap and next steps in database management