Assignment 16.3

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Prompts:

Task Description #1 – Schema Generation

Ask AI to design a schema for an Online Course Management System (Tables: Courses, Students, Enrollments).

Task Description #2 - Insert Data

Ask AI to generate INSERT INTO statements for the above schema (at least 3 sample records per table).

Task Description #3 – Basic Queries

Use AI to create SQL queries to list all courses a particular student is enrolled in.

Task Description #4 - Update and Delete Queries

Use AI to generate queries for:

- Updating a course's availability to 'Closed' when seats are full.
- Deleting an enrollment record safely when a student withdraws.

Code:

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Observations

- 1. The schema design using AI reduces manual effort and ensures structural consistency.
- 2. AI-generated INSERT queries help quickly populate test data for validation.
- 3. Using AI for query formulation ensures correct syntax and improves learning of SQL patterns.
- 4. The update and delete queries highlight how AI assists in automating database maintenance tasks.