**INFT2100 Assignment 2 - Web Database Configuration and Population**

All AI generation was done via ChatGPI, using GPT-4.

Data Generation Process

1. Users Table

* I asked for multiple user records with relevant fields such as first\_name, last\_name, email, birth\_date, and password.
* Prompt Used:
  + Create multiple insert statements for the users table with realistic values for first\_name, last\_name, email, birth\_date, and password.
* This ensured that all data appeared real, and generated unique fields.

1. Students Table

* I prompted records for the students table, which required user IDs from the users table and a program code indicating the students' programs (CPGM or CPGA).
* Prompt Used:
  + Create insert statements for the students table, using user\_ids from the users table and include a field for program\_code.
* I categorized students into two programs, CPGM (Computer Programming) and CPGA (Computer Programming and Analysis).

1. Courses Table

* I generated data for the courses table, listing course descriptions and codes for various semesters.
* Prompt Used:
  + Create an insert statement for a courses table that includes the following courses: {cpgm\_cpa\_courses.txt}
* I linked the data from the provided file.
* Modifications:
  + For the three general education electives, I altered them to be unique by numbering them 1, 2, and 3 in their respective order.
* I organized the courses by semester and ensured that course codes followed a consistent naming convention.

1. Marks Table

* The last data populated was the marks table, which tracks students' final marks in specific courses. I ensured that all students had marks for all courses they had previously taken.
* Prompt Used:
  + Generate insert statements for the marks table, reflecting students of semesters 1–4 for CPGM students and 1–6 for CPGA students. Include grades for each semester and ensure that students in later semesters have marks for all previous semesters.
* Modifications:
  + At first, the later semester students only had marks for their last courses, not all courses they had taken. To fix this I broke up each re-prompt by semester. I then asked to list all classes, not just current ones. This fixed the issue.

Select statements were included at the bottom of every file to showcase them functioning properly.