## School Management System with SQL Server

You are responsible for transforming the data footprint of a school, tasked with building a school management system database. It will test your skills, in creating and setting up a database, altering tables, manipulating data, and data retrieval and aggregation.

Your manager asked you answer these questions and put your source codes on GitHub:

- 1. Write T-SQL scripts to create a database named SchoolManagementSystem.
- 2. Design and create tables to store student information (Students), course details (Courses), and student enrolment data (Enrolments: EnrollmentID, StudentID, CourseID). Establish relationships between these tables using foreign keys.

Hint: use the "Foreign Key references ..." syntax or use Database Diagram Features

- 3. Populate the tables with sample data 10 students, 4 courses, and enrol them on courses.
- 4. Simulate updates by modifying student information (e.g., name change) and course removal.
- 5. List all students.
- 6. Filter students based on grade level.
- 7. List courses along with the number of enrolled students per course (use aggregate functions like COUNT and GROUP BY).
- 8. Find students enrolled in a specific course.

## **Evaluation:**

Your performance will be assessed based on the following criteria:

- Correctness and efficiency of your T-SQL scripts.
- Skill in crafting queries to retrieve and analyse data effectively.
- Creativity and problem-solving skills demonstrated and tidiness.