**Case Study: Student Enrollment System**

**Section 1: Python Standalone Console Application**

Design and implement a standalone console application for a Student Enrollment System using Python. The application should utilize collections, object-oriented programming (OOP), and exception handling to manage student records and course enrollments.

**Requirements:**

1. **Student Management**:
   * Implement the functionality to add, update, and delete student records.
   * Each student should have attributes such as student\_id, name, age, major, and year.
2. **Course Enrollment**:
   * Implement the functionality to enroll students in courses.
   * Implement the functionality to drop students from courses.
3. **Reporting**:
   * Implement the functionality to generate a report of students enrolled in a specific course.

**Business Functionalities:**

1. **Add/Update/Delete Students**:
   * Create a class Student with attributes student\_id, name, age, major, and year.
   * Implement methods to add a new student, update existing student details, and delete a student from the system.
2. **Enroll/Drop Courses**:
   * Implement a method to enroll students in courses by student\_id and course\_id.
   * Implement a method to drop students from courses by student\_id and course\_id.
3. **Course Enrollment Report**:
   * Implement a method to generate a list of students enrolled in a specific course.

**Section 2: MySQL Database Management**

Design a MySQL database schema to support the Student Enrollment System and provide solutions for the problem statements.

**Table Structures:**

1. **Students Table**:
   * student\_id: INT, Primary Key
   * name: VARCHAR(100)
   * age: INT
   * major: VARCHAR(50)
   * year: VARCHAR(10)
2. **Courses Table**:
   * course\_id: INT, Primary Key
   * course\_name: VARCHAR(100)
   * credits: INT
3. **Enrollments Table**:
   * enrollment\_id: INT, Primary Key
   * student\_id: INT, Foreign Key References Students(student\_id)
   * course\_id: INT, Foreign Key References Courses(course\_id)
   * enrollment\_date: DATE

**Problem Statements:**

1. Write a query to find the total number of students enrolled in each course.
2. Write a query to find the names of students and the courses they are enrolled in.
3. Write a query to find the names of students who are not enrolled in any courses.
4. Write a query to find the courses that have more than 30 students enrolled.
5. Write a query to find the student names and their corresponding majors for those who are enrolled in more than 3 courses.