- A. 1 professor and 3 students registered their accounts on this website
 - Write 4 INSERT statements for this scenario.
 - For ALL INSERT statements (in this scenario and the rest scenarios), include the id column (in normal practice, we don't insert the id column but let the database generate them automatically; here we're only doing this so that later on we can easily refer to these inserted records).
 - Use any dummy data (for example, use email1@example.com as email address)

Queries:

```
-- Professor's Account
INSERT INTO Account (id, account type, email, password)
VALUES (1, 'professor', 'professor1@example.com', 'passwordP1');
-- Student Accounts
INSERT INTO Account (id, account_type, email, password)
VALUES (2, 'student', 'student1@example.com', 'passwordST1');
INSERT INTO Account (id, account type, email, password)
VALUES (3, 'student', 'student2@example.com', 'passwordST2');
INSERT INTO Account (id, account type, email, password)
VALUES (4, 'student', 'student3@example.com', 'passwordST3');
```

- B. The professor created a course and the 3 students enrolled in his course.
 - o For the student id/professor id column, use the ids you previously inserted in scenario A.
 - Again, for any INSERT statements, include the id column.

```
Queries:
-- Professor creates a course
INSERT INTO Course (id, professor id, name, description, start date, end date)
VALUES (1, 1, 'Introduction to SQL', 'Learn the basics of SQL', '2023-01-01', '2023-04-30');
-- Students enroll in the course
INSERT INTO StudentCourse (id, student id, course id, enrollment date)
VALUES (1, 2, 1, '2023-01-02');
INSERT INTO StudentCourse (id, student id, course id, enrollment date)
VALUES (2, 3, 1, '2023-01-02');
INSERT INTO StudentCourse (id, student id, course id, enrollment date)
VALUES (3, 4, 1, '2023-01-02');
```

C. The professor then created 2 assignments (titles are Homework1, Homework2) for this course.

Queries:

-- Professor creates assignments for the course INSERT INTO Assignment (id, course_id, title, description, points, available_date, due_date) VALUES (1, 1, 'Homework1', 'Complete the given SQL problems.', 100, '2023-01-03', '2023-01-10');

INSERT INTO Assignment (id, course_id, title, description, points, available_date, due_date) VALUES (2, 1, 'Homework2', 'Advanced SQL queries.', 100, '2023-01-11', '2023-01-18');

- D. One student (randomly choose any student) submitted twice for **Homework1** and left a comment.
 - Note that you also need to create the corresponding StudentAssignment record.
 - The StudentAssignment records are designed to be created on the fly. Meaning they're only created when a student submits/comments an assignment but there is no corresponding StudentAssignment record available.

Queries:

- -- Creating StudentAssignment record INSERT INTO StudentAssignment (id, student_id, assignment_id, grade, grade_time) VALUES (1, 2, 1, NULL, NULL);
- -- Student submissions for Homework1
 INSERT INTO Submission (id, studentassignment_id, content, create_time)
 VALUES (1, 1, 'Submission content 1', '2023-01-04');

INSERT INTO Submission (id, studentassignment_id, content, create_time) VALUES (2, 1, 'Submission content 2', '2023-01-05');

-- Student comments on Homework1
INSERT INTO Comment (id, account_id, studentassignment_id, content, create_time)
VALUES (1, 2, 1, 'This was difficult assignment!', '2023-01-05');

- E. The professor opened the website.
 - He first navigated to the course's assignment management page (write a SELECT statement listing the assignments in this course).
 - He then navigated to Homework1's StudentAssignment page (write a SELECT statement listing the StudentAssignments for Homework1; in this case, it's supposed to return only one result as only one of the student had ever submitted/commented).
 - He then navigated to the student's (who submitted twice for Homework1)
 StudentAssignment page for Homework1

- Write a SELECT statement listing the **submissions** for this StudentAssignment.
- Write another SELECT statement listing the comments for this StudentAssignment.

Queries:

- -- Listing assignments in the course SELECT * FROM Assignment WHERE course id = 1;
- -- Listing StudentAssignments for Homework1
 SELECT * FROM StudentAssignment WHERE assignment_id = 1;
- -- Listing the submissions for the student's StudentAssignment for Homework1 SELECT * FROM Submission WHERE studentassignment id = 1;
- -- Listing the comments for the student's StudentAssignment for Homework1 SELECT * FROM Comment WHERE studentassignment id = 1;
- F. The professor graded this student's Homework1 and also left a comment.
- -- Professor grades the student's Homework1
 UPDATE StudentAssignment SET grade = 100, grade_time = '2023-01-06' WHERE id = 1;
- -- Professor leaves a comment on the student's Homework1 INSERT INTO Comment (id, account_id, studentassignment_id, content, create_time) VALUES (2, 1, 1, 'Excellent work! Keep it up!', '2023-01-06');