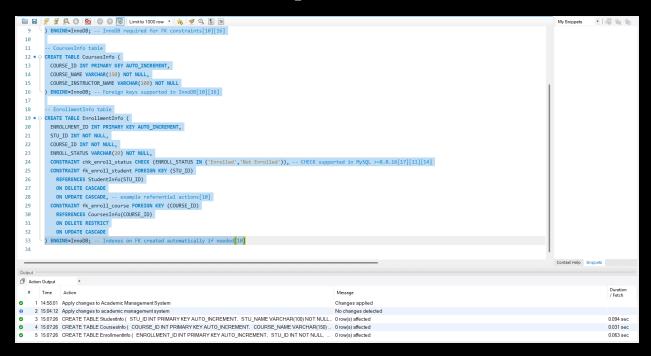
[ Task 1 | Project Title: Academic Management System (using SQL)

Project Description: Design and develop an Academic Management System using SQL. The project should involve three tables: 1. StudentInfo 2. CoursesInfo 3. EnrollmentInfo. The aim is to create a system that allows for managing student information and course enrollment. The project will include the following tasks:

- 1) Database Creation:
- a) Create the StudentInfo table with columns STU\_ID, STU\_NAME, DOB, PHONE\_NO, EMAIL\_ID, ADDRESS.
- b) Create the CoursesInfo table with columns COURSE\_ID, COURSE\_NAME, COURSE\_INSTRUCTOR\_NAME.
- c) Create the EnrollmentInfo table with columns ENROLLMENT\_ID, STU\_ID, COURSE\_ID, ENROLL\_STATUS (Enrolled/Not Enrolled). The FOREIGN KEY constraint in the EnrollmentInfo table references the STU\_ID column in the StudentInfo table and the COURSE\_ID column in the CoursesInfo table.



## 2) Data Creation:

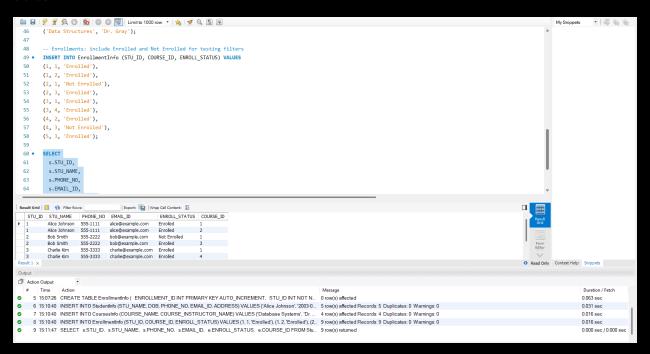
Insert some sample data for StudentInfo table, CoursesInfo table, and EnrollmentInfo with respective fields.

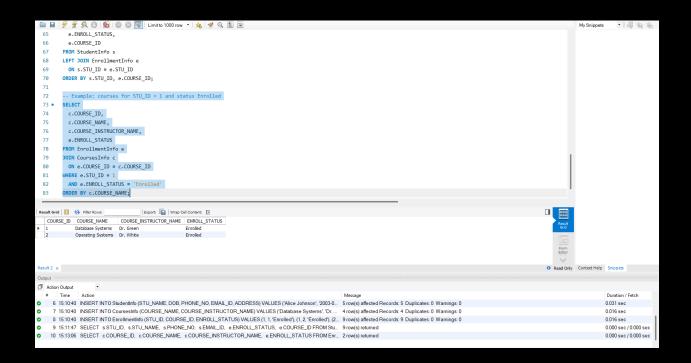
```
My Snippets • | 🗐 🗞 🗞
                ('Alice Johnson', '2003-04-15', '555-1111', 'alice@example.com', '12 Oak St'),
('Bob Smith', '2002-11-30', '555-2222', 'bob@example.com', '34 Pine Ave'),
                ('Charlie Kim', '2001-06-08', '555-3333', 'charlie@example.com','56 Maple Rd'),
('Diana Patel', '2003-02-20', '555-4444', 'diana@example.com', '78 Cedar Ln'),
   40
                ('Ethan Brown', '2002-09-05', '555-5555', 'ethan@example.com', '90 Birch Dr');
                INSERT INTO CoursesInfo (COURSE_NAME, COURSE_INSTRUCTOR_NAME) VALUES
   42 •
                ('Database Systems', 'Dr. Green'),
('Operating Systems', 'Dr. White'),
('Algorithms', 'Dr. Black'),
   44
   46
                ('Data Structures', 'Dr. Gray');
   48
                INSERT INTO EnrollmentInfo (STU_ID, COURSE_ID, ENROLL_STATUS) VALUES
   50
               (1, 1, 'Enrolled'),
               (2, 1, 'Not Enrolled'),
(2, 3, 'Enrolled'),
               (3, 1, 'Enrolled'),
               (3, 4, 'Enrolled'),
               (4, 2, 'Enrolled'),
(4, 3, 'Not Enrolled'),
               (5, 3, 'Enrolled');
   60
                                                                                                                                                                                                                                                                                                                      Context Help Snippets
 Action Output
    # Time Action

4 150726 CREATE TABLE CoursesInfo ( COURSE_ID INT PRIMARY KEY AUTO_INCREMENT, COURSE_NAME VARCHAR(150_0 tow(s) affected
5 150726 CREATE TABLE Enrollmentinfo ( ENROLLMENT_ID INT PRIMARY KEY AUTO_INCREMENT, STU_ID INT NOT NULL... 0 tow(s) affected
6 15:1040 INSERT INTO Studentinfo (STU_NAME, DOB, PHONE_NO, EMAIL_ID, ADDRESS) VALUES ('Alice Johnson', '2003-04-15'... 5 tow(s) affected f
                                                                                                                                                                                                                                                                                                                                                0.031 sec
         5 150726 CREATE TABLE Enrollmentinto (ENROLLMENT_ID INT PRIMARY KEY AUTO_INCREMENT, STU_ID INT NOT NULL... 0 row(s) affected
6 15:10:40 INSERT INTO Studentinto (STU_NAME, DOB, PHONE, NO, EMAIL_ID, ADDRESS) VALUES ('Alice Johnson', 2003-04-15'... 5 row(s) affected Records: 5 Duplicates: 0 Warmings: 0
                                                                                                                                                                                                                                                                                                                                               0.031 sec
         7 15:10:40 INSERT INTO Coursesinfo (COURSE_NAME, COURSE_INSTRUCTOR_NAME) VALUES (Database Systems', 'Dr. Gree... 4 row(s) affected Records: 4 Duplicates: 0 Wamings: 0 8 15:10:40 INSERT INTO Enrollmentinfo (STU_ID, COURSE_ID, ENROLL_STATUS) VALUES (1, 1, 'Enrolled'), (1, 2, 'Enrolled'), (2, 1, '... 9 row(s) affected Records: 9 Duplicates: 0 Wamings: 0
                                                                                                                                                                                                                                                                                                                                                0.016 sec
```

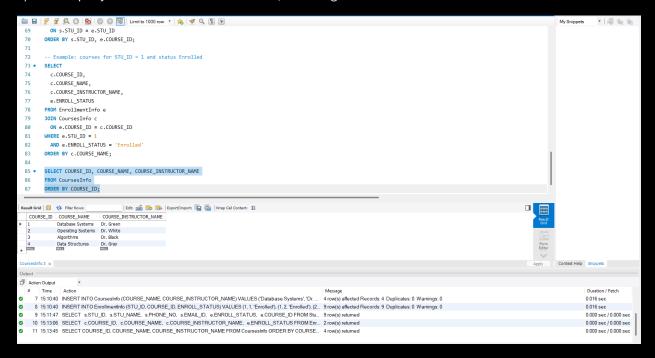
## 3) Retrieve the Student Information:

a) Write a query to retrieve student details, such as student name, contact information, and enrollment status.

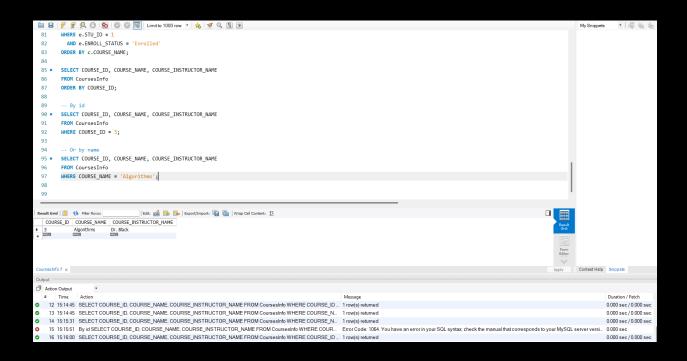




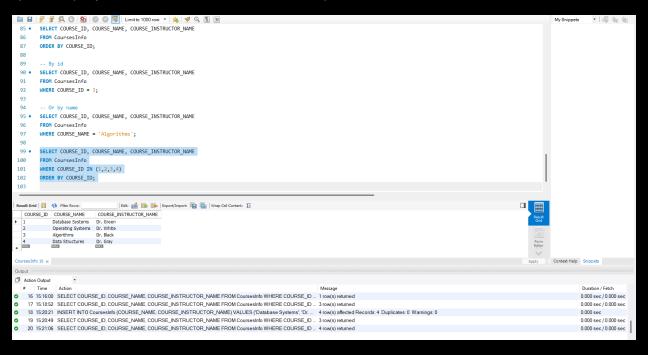
c) Write a query to retrieve course information, including course name and instructor information.



d) Write a query to retrieve course information for a specific course (Algorithms).

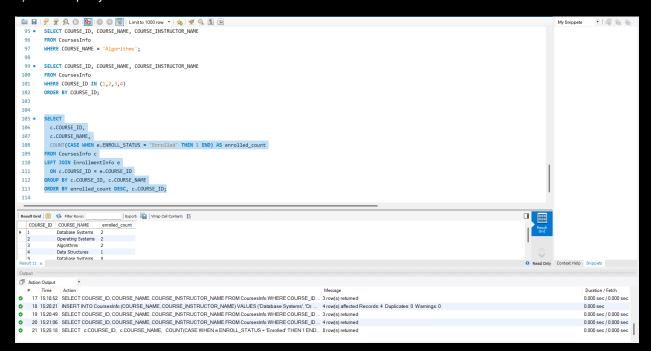


e) Write a query to retrieve course information for multiple courses.

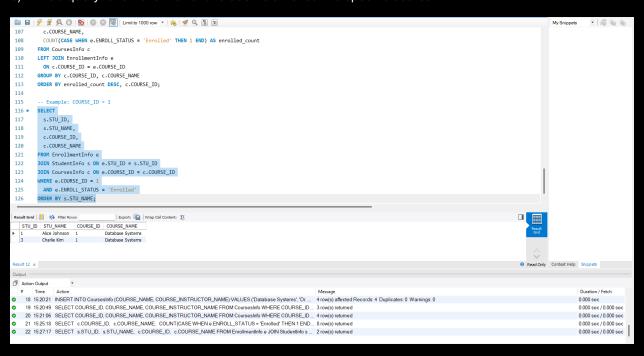


f) Test the queries to ensure accurate retrieval of student information (execute the queries and verify the results against the expected output). [the data has been verified]

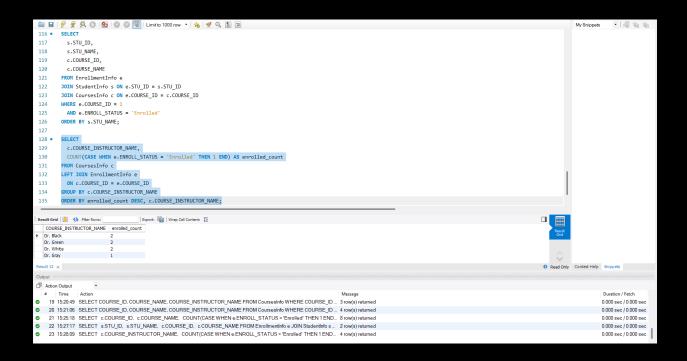
a) Write a query to retrieve the number of students enrolled in each course.



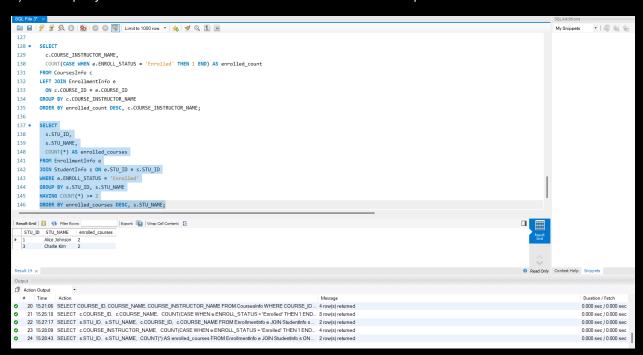
b) Write a guery to retrieve the list of students enrolled in a specific course.



c) Write a query to retrieve the count of enrolled students for each instructor.



d) Write a query to retrieve the list of students who are enrolled in multiple courses.



e) Write a query to retrieve the courses that have the highest number of enrolled students (arranging from highest to lowest).

