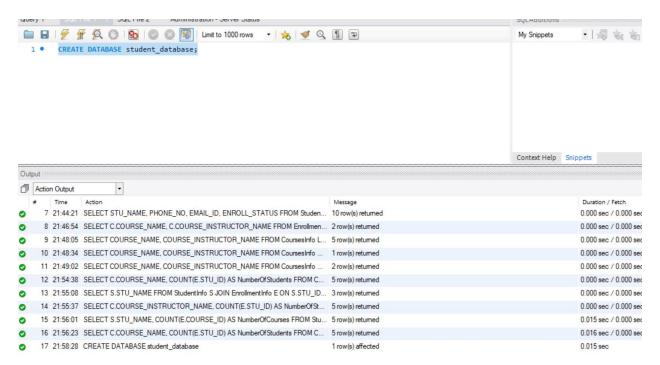
Project: Student Database Management System(PostgreSQL)

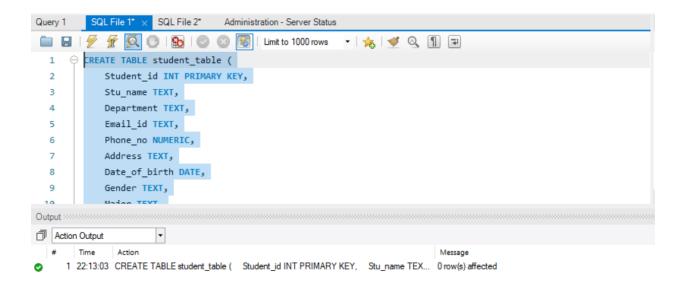
Objective: Design and implement a student database management system using PostgreSQL that allows storing and retrieving student information efficiently. The project will include the following tasks:

1. Database Setup

Create a database named "student_database."

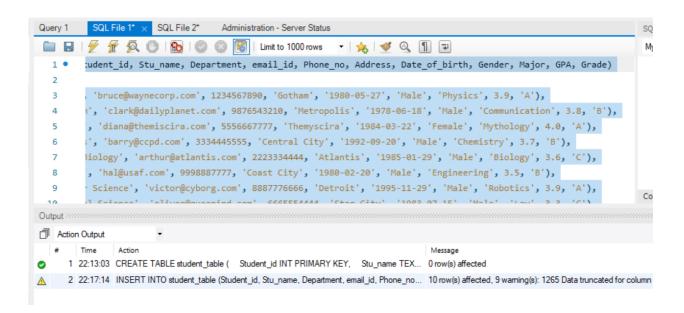
Create a table called "student_table "with the following columns: Student_id (integer), Stu_name (text), Department (text), email_id (text), Phone_no (numeric), Address (text), Date_of_birth (date), Gender (text), Major (text), GPA (numeric), Grade (text) should be A,B,Cetc.





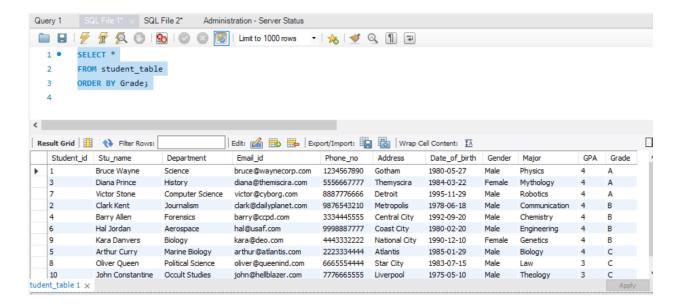
2. Data Entry

Insert 10 sample records into the "student_table" using INSERT command.3.Student



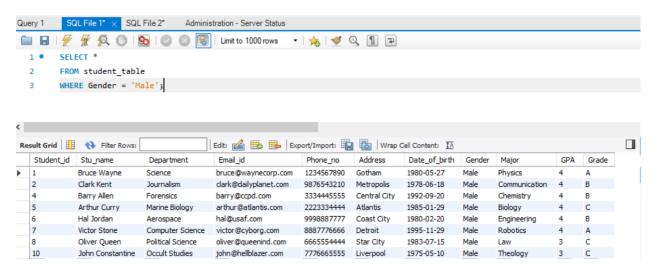
Information Retrieval

Develop a query to retrieve all students' information from the "student_table" and sort them in descending order by their grade.

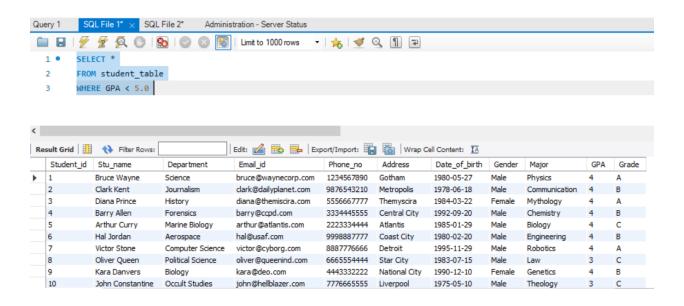


4. Query for Male Students:

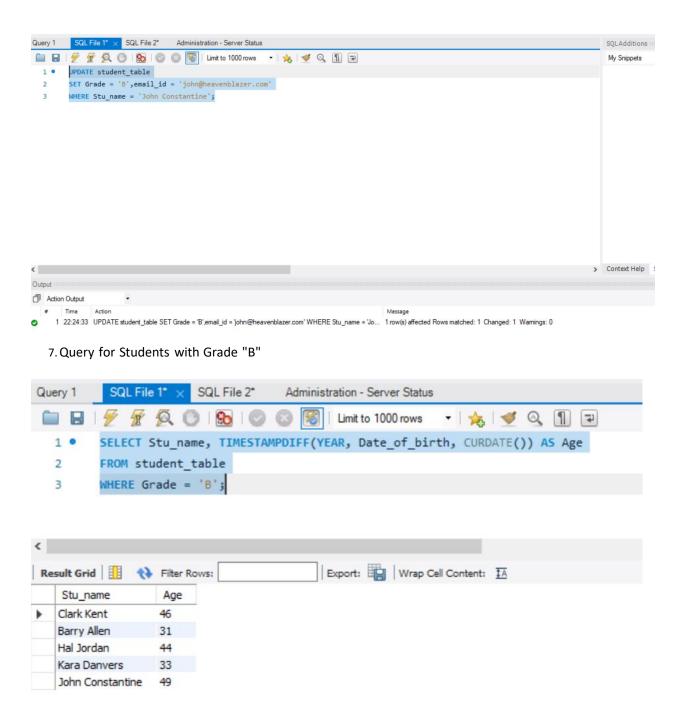
.Implement a query to retrieve information about all male students from the "student table."



5. Query for Students with GPA less than 5.0

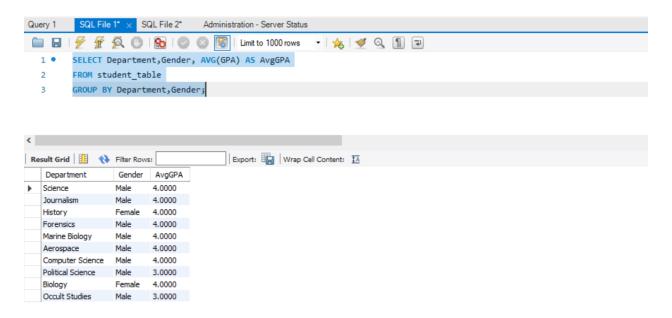


6. Update Student Email and Grade



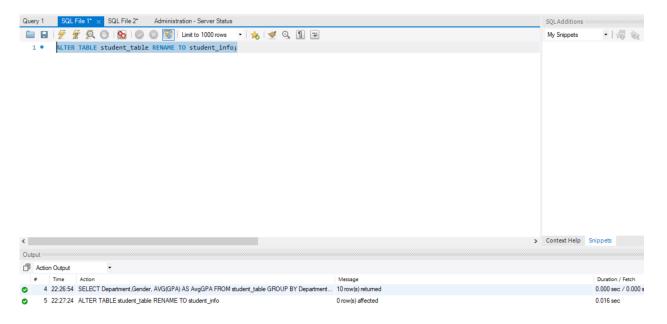
8. Grouping and Calculation

Create a query to group the "student_table" by the "Department" and "Gender" columns and calculate the average GPA for each combination.



9. Table Renaming

Rename the "student_table" to "student_info" using the appropriate SQL statement.



10. Retrieve Student with Highest GPA

