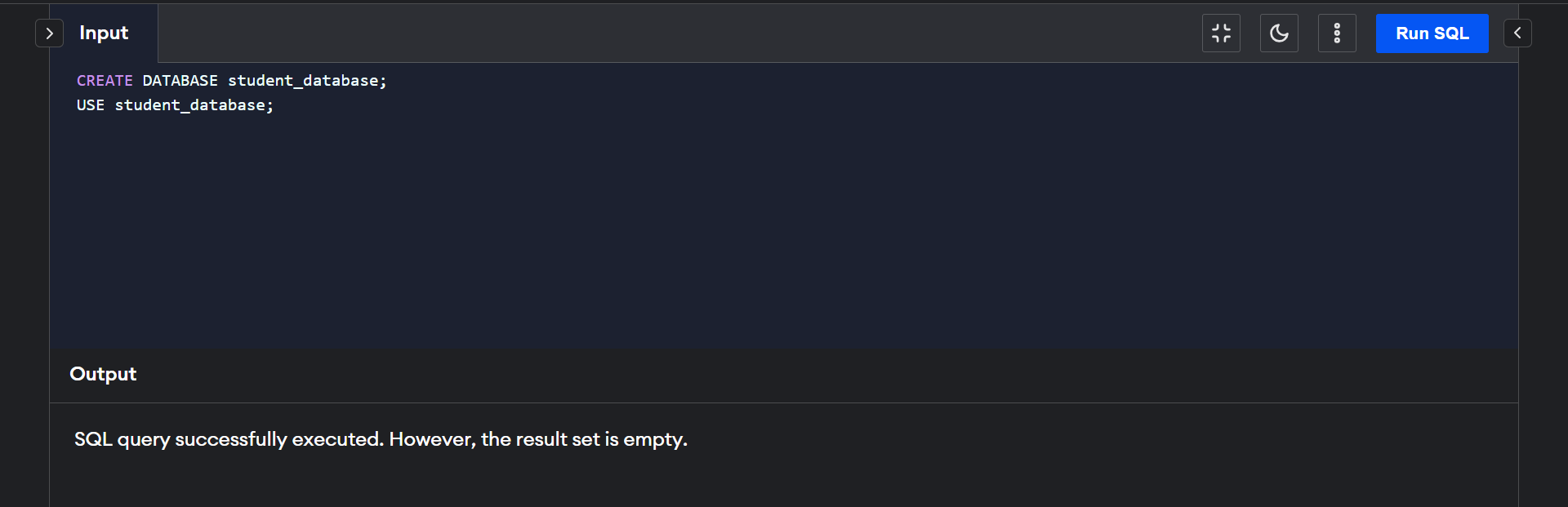
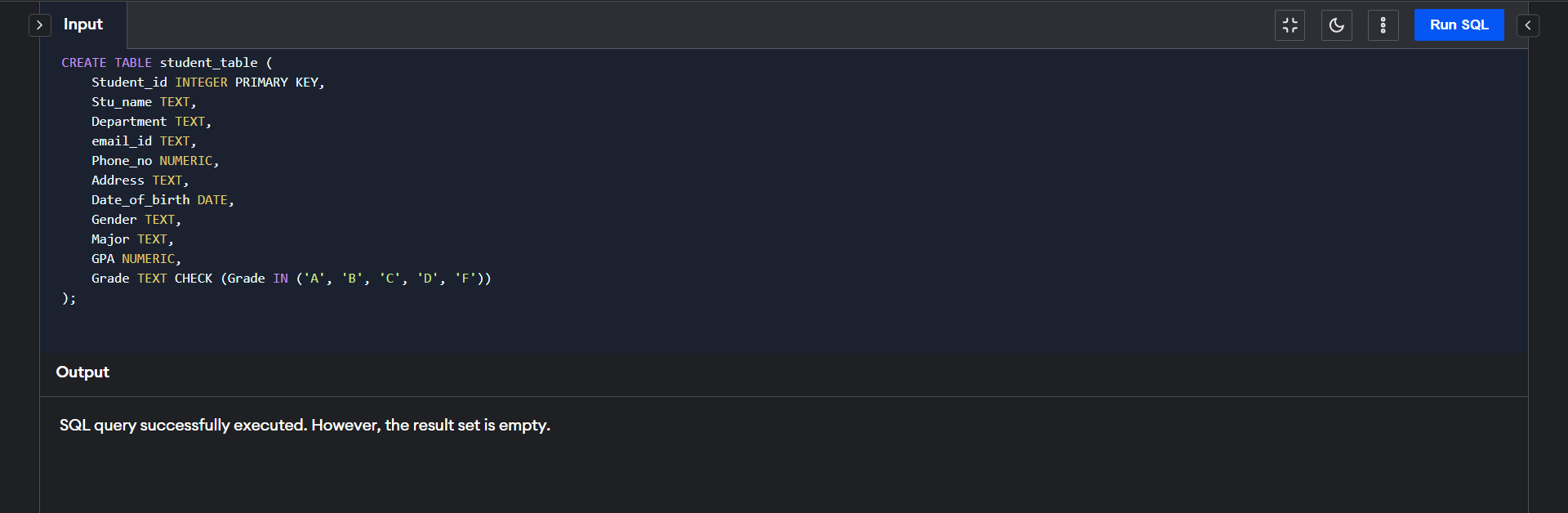
Task2:

Project: Student Database Management System(PostgreSQL)

Part 1: Database Setup

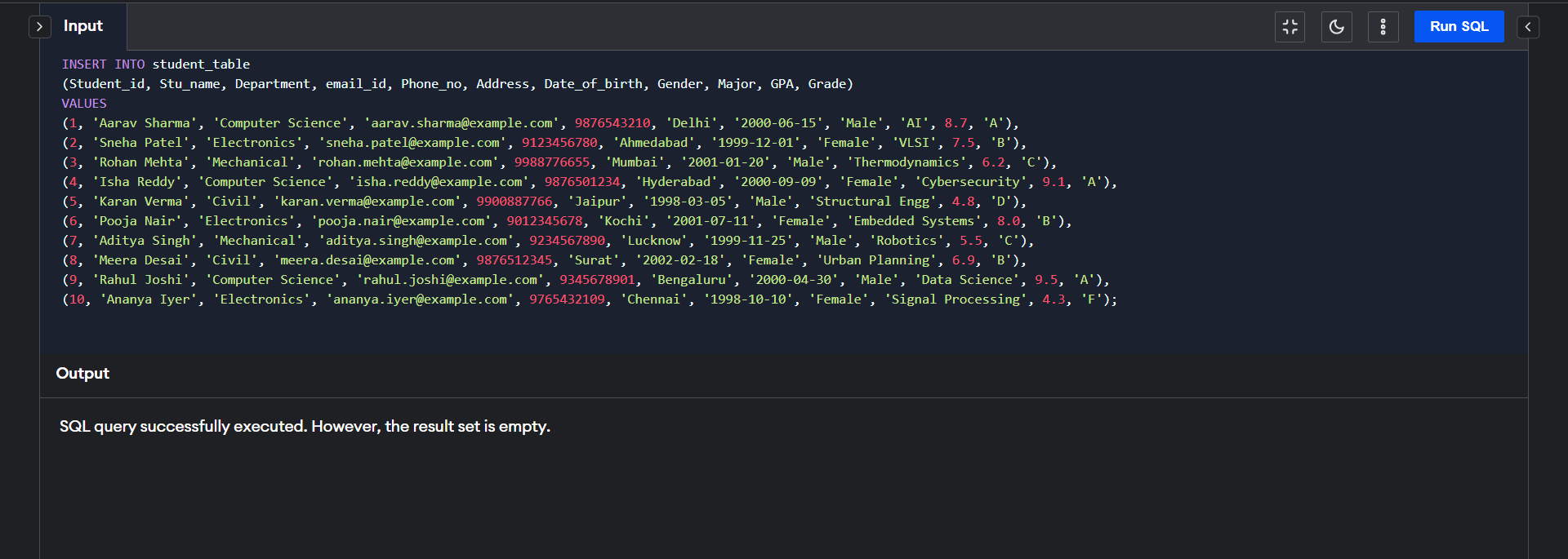
Create a database named "student\_database."

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,C etc.  


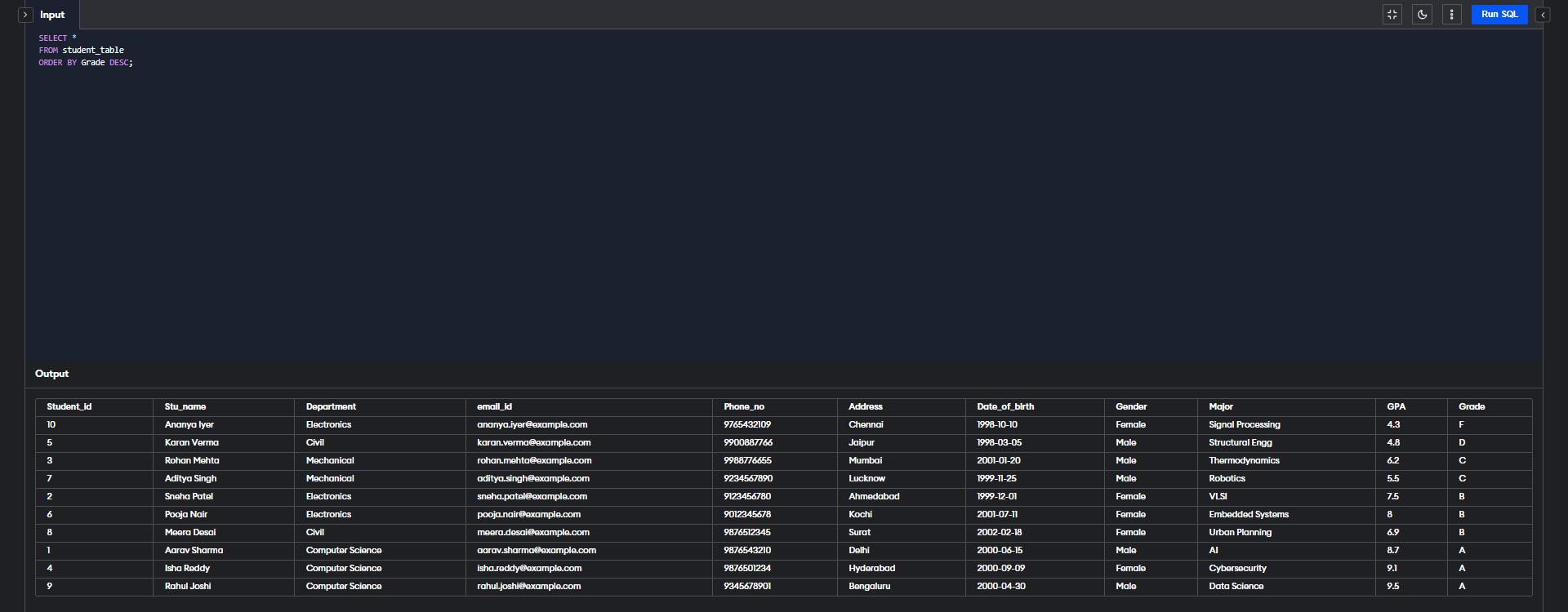


Part 2: Data Entry

Insert 10 sample records into the "student\_table" using INSERT command.

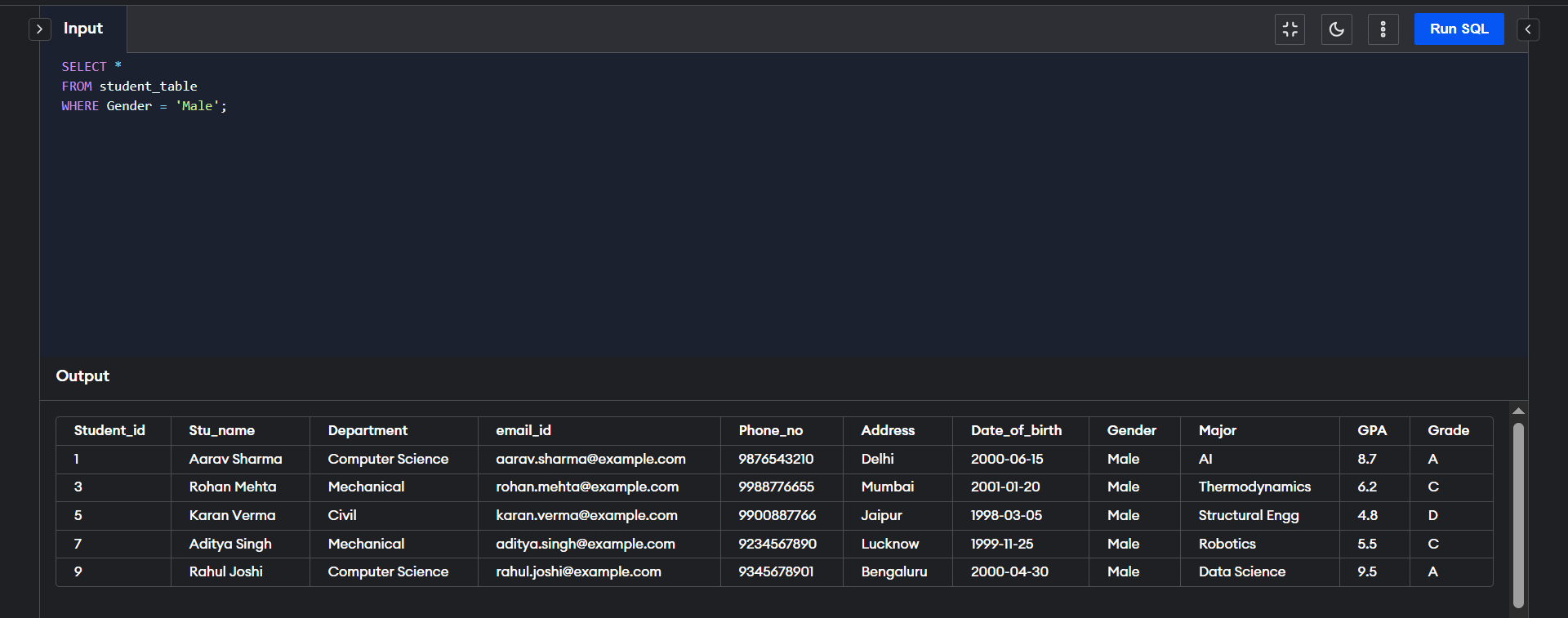


Part 3: Student Information Retrieval

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


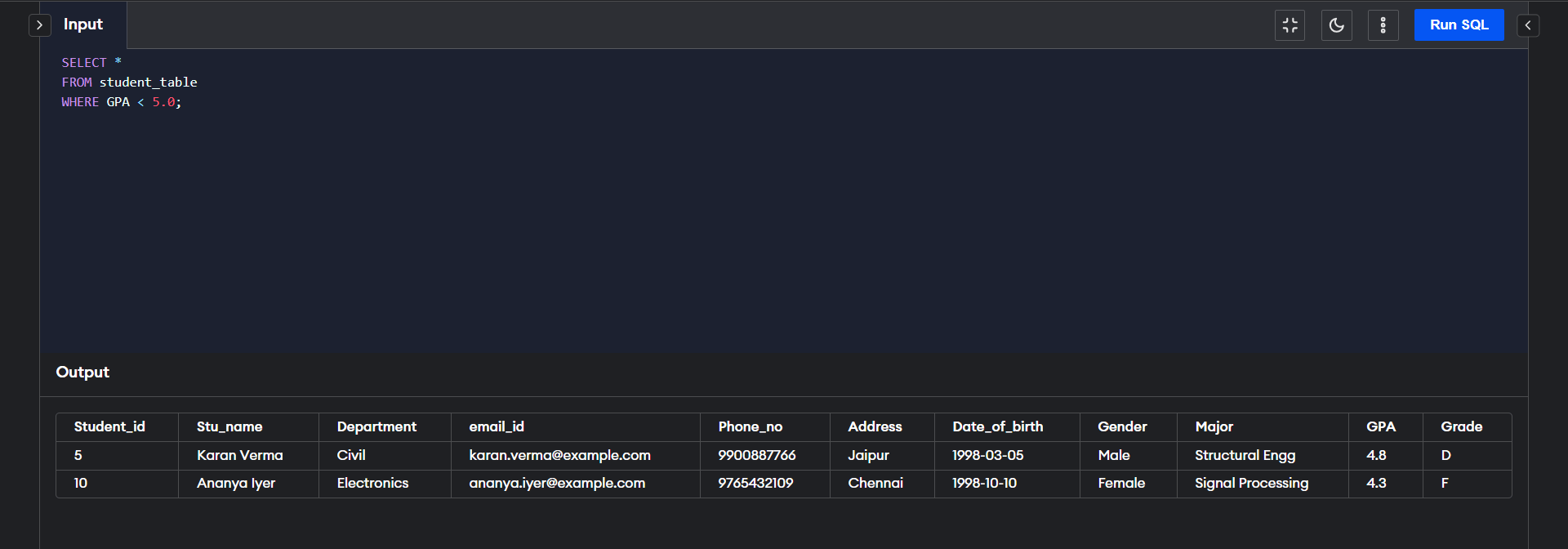
Part 4: Query for Male Students:

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



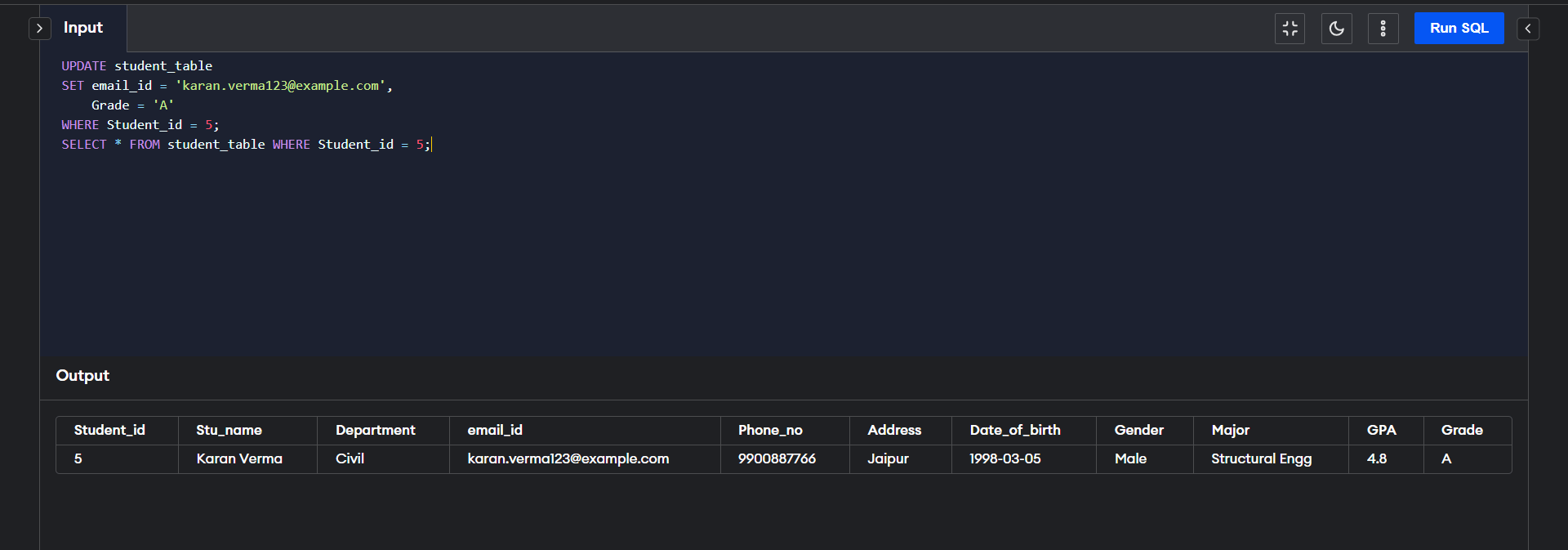
Part 5: Query for Students with GPA less than 5.0

Create a query to fetch the details of students who have a GPA less than 5.0 from the "student\_table."



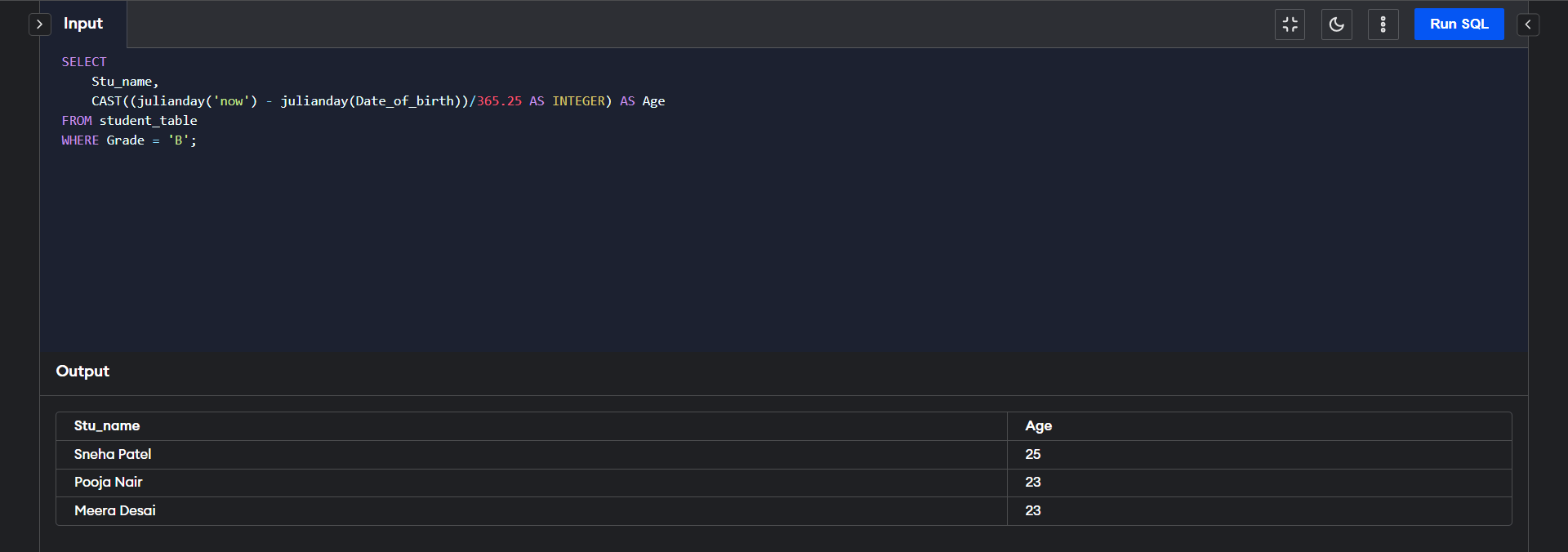
Part 6: Update Student Email and Grade

Write an update statement to modify the email and grade of a student with a specific ID in the "student\_table."

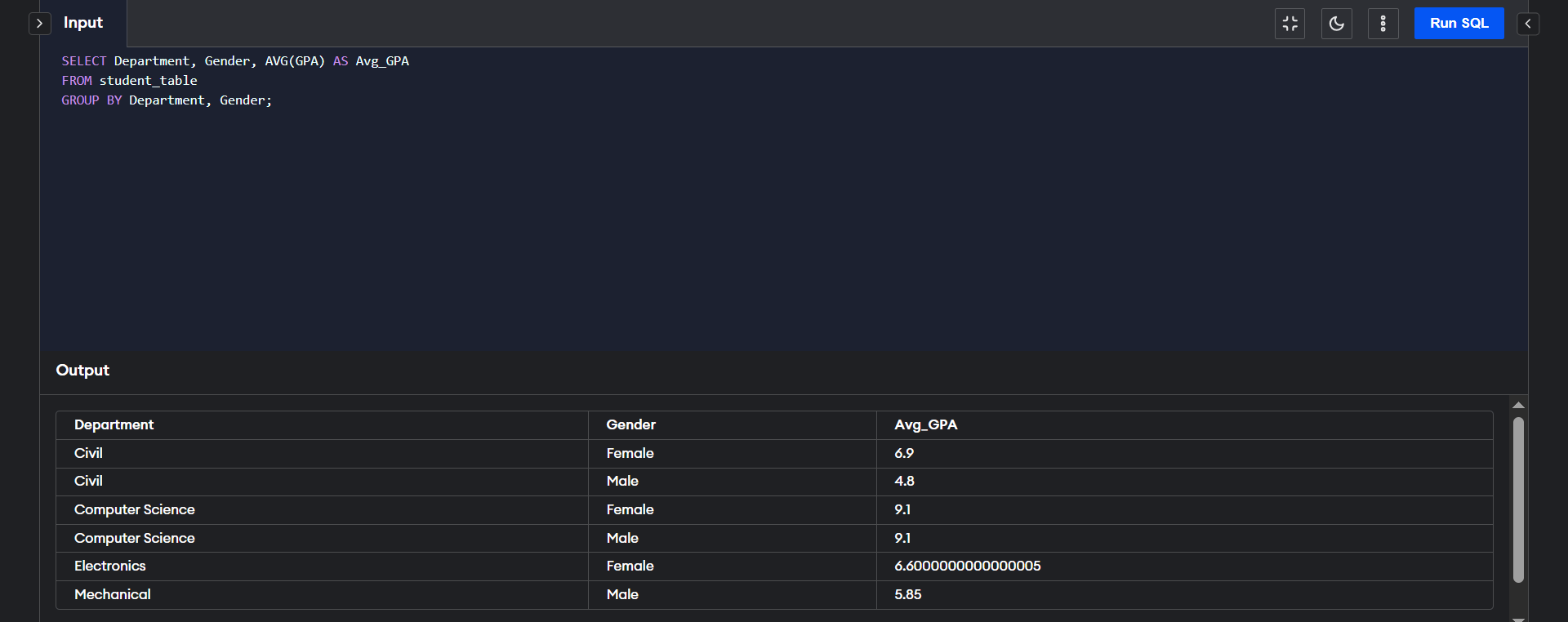


Part 7: Query for Students with Grade "B"

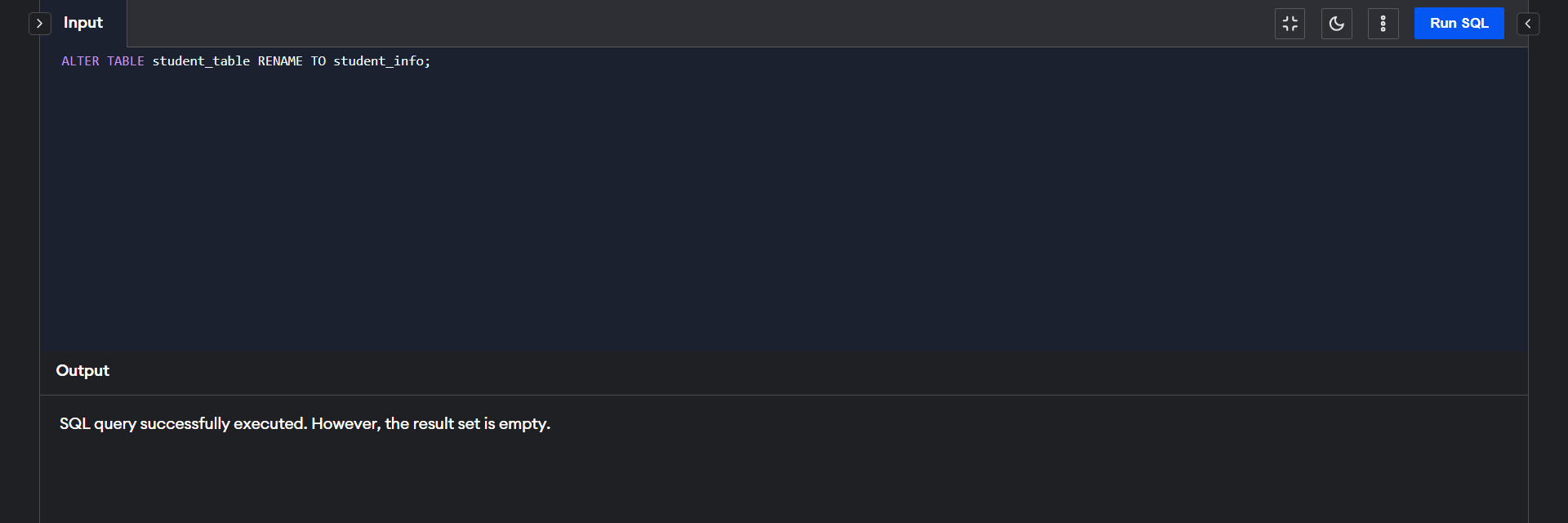
Develop a query to retrieve the names and ages of all students who have a grade of "B" from the "student\_table."



Part 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.   


Part 9: Table Renaming

Rename the "student\_table" to "student\_info" using the appropriate SQL statement.  


Part 10: Retrieve Student with Highest GPA

Write a query to retrieve the name of the student with the highest GPA from the

"student\_info" table.  
  
