

(Established under Karnataka Act No. 16 of 2013)
100 Feet Ring Road, BSK III Stage, Bengaluru-560 085
Department of Computer Science and Engineering
Session: Aug – Dec, 2021
SEMESTER – 5

Database Management System (UE19CS301)

Assignment - 3

Team Details

Team Number-5

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Problem Statement

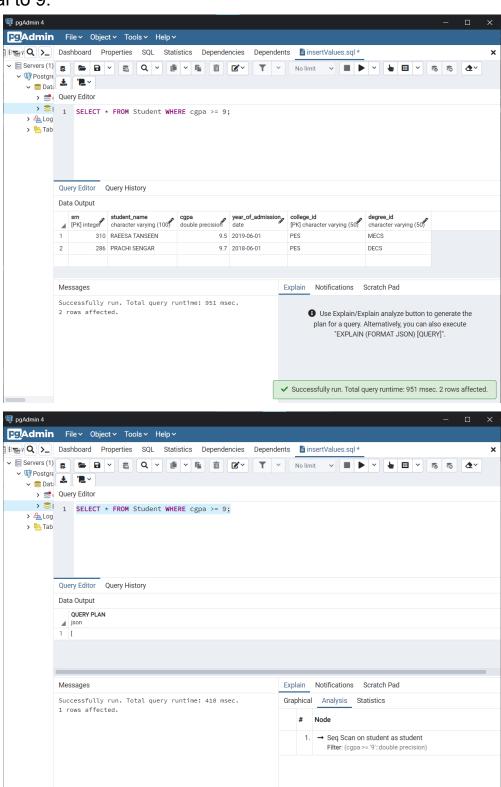
Our aim is to use a database management software and build a relational database for efficiently organizing, storing, managing, and using the data kept by a placement cell with details about students, colleges, and companies in order to make the placement process hassle-free.

Queries

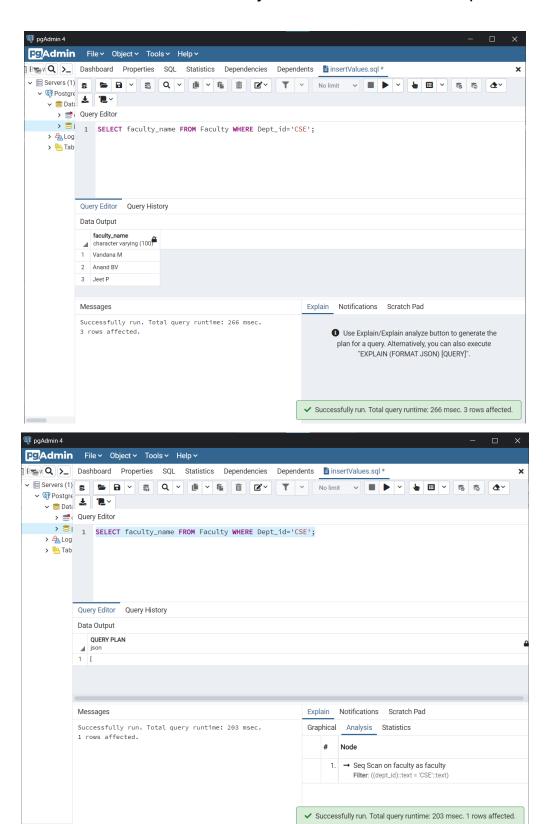
Simple, Complex, Nested Queries And Concurrency Control

Simple Queries:

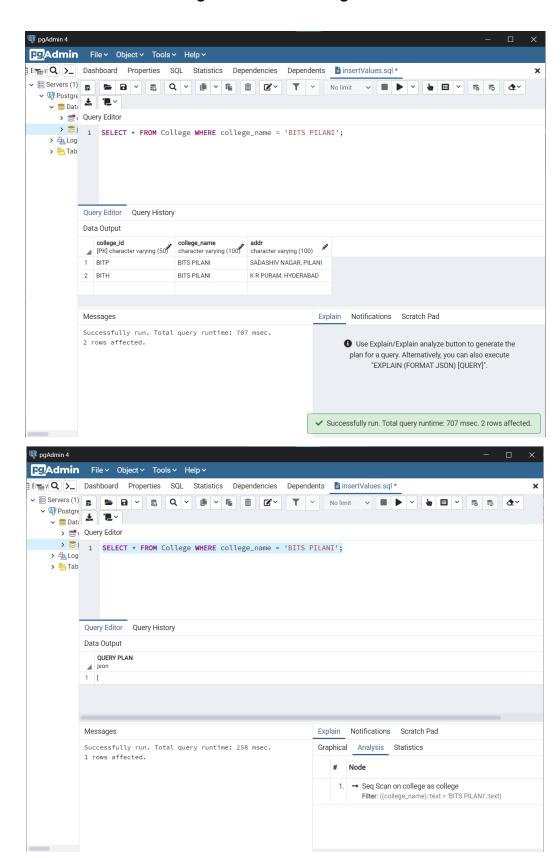
1. Display all the details of students who have a CGPA greater than or equal to 9.



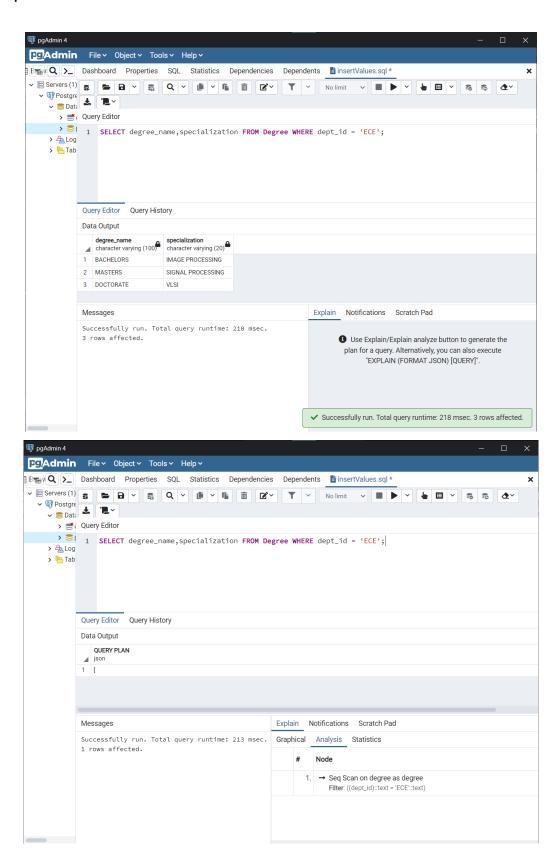
2. Select the names of all the faculty members in the CSE department.



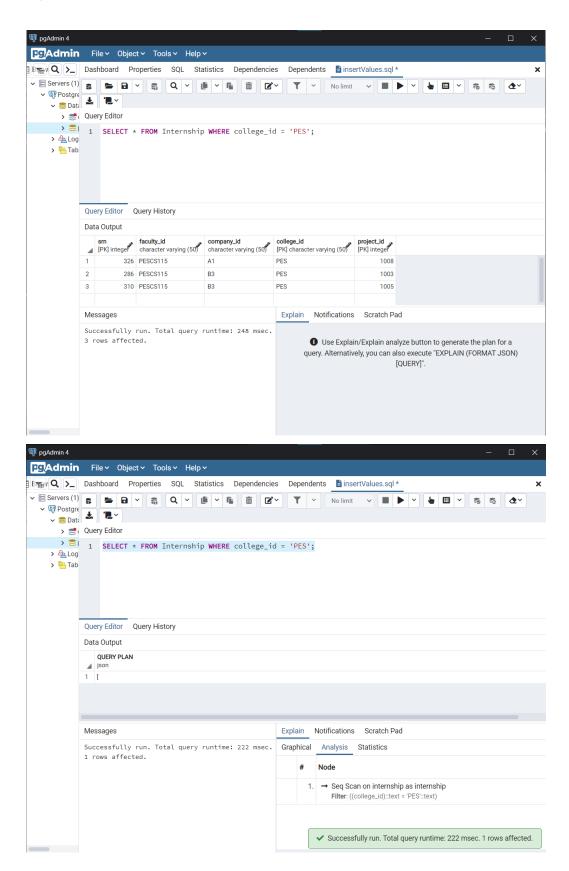
3. Select all details of colleges with the college name as 'BITS PILANI'.



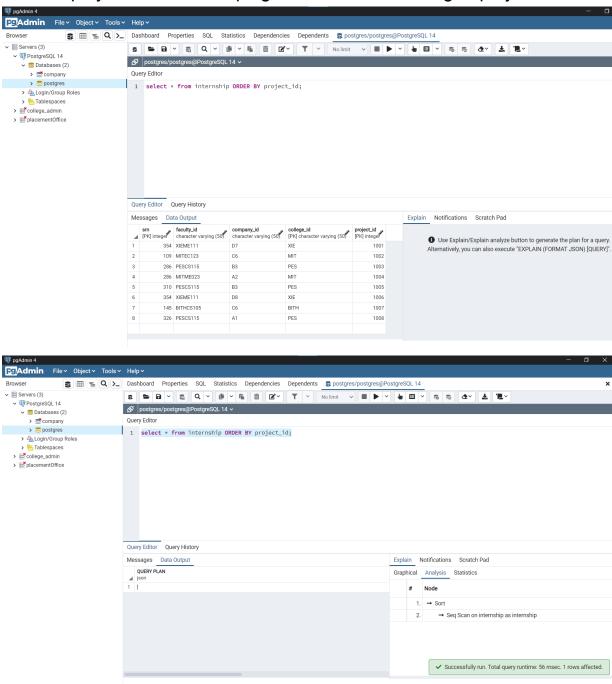
4. Display the degree names and specializations available in the ECE department.



5. Display details about internships offered to students in college with college id PES.

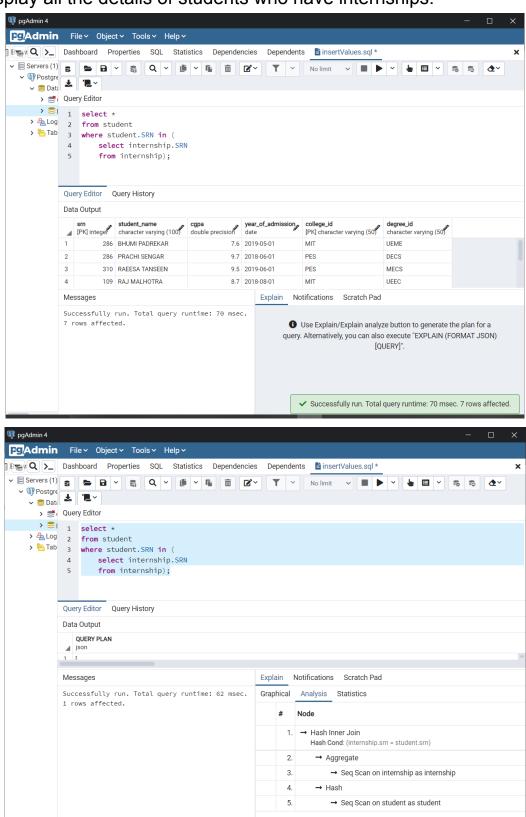


6. Display all the internships given, sorted according to project ID.

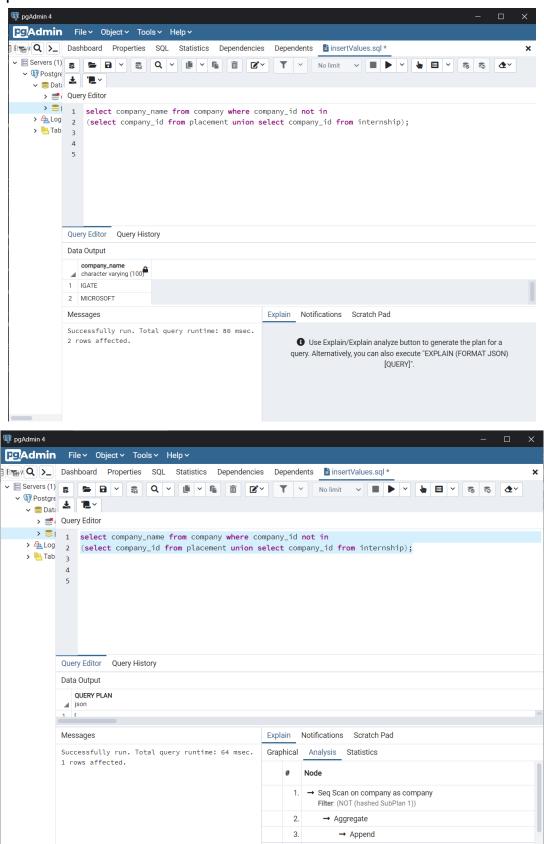


Complex Queries:

7. Display all the details of students who have internships.

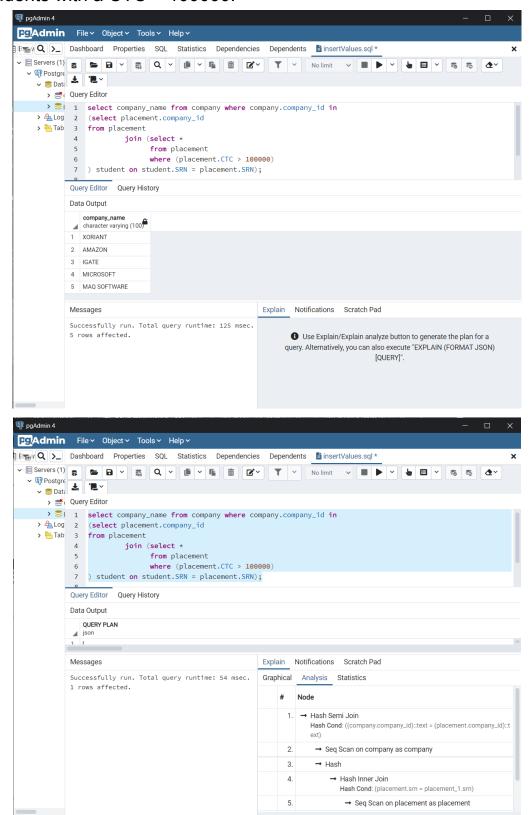


8. Display names of companies which have not provided any internship or placement.

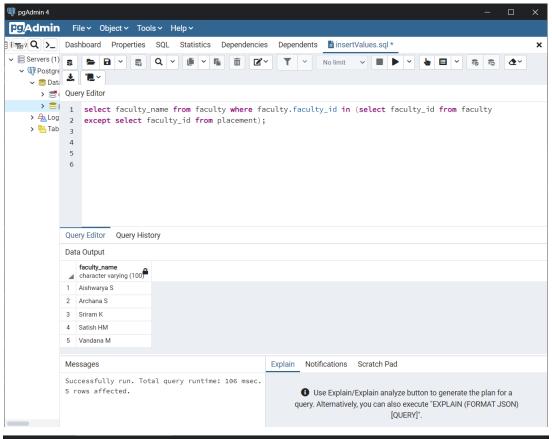


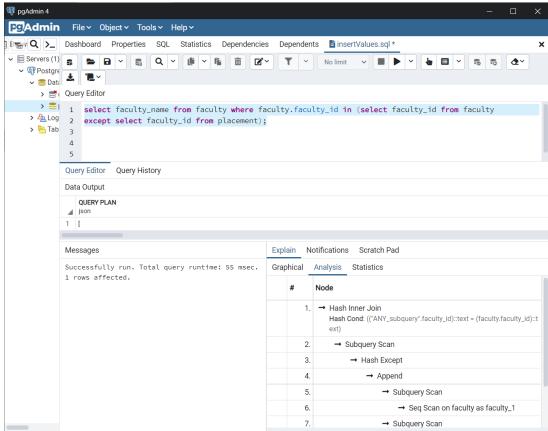
→ Sed Scan on placement as placement

9. Display names of companies who have offered placements to students with a CTC > 100000.

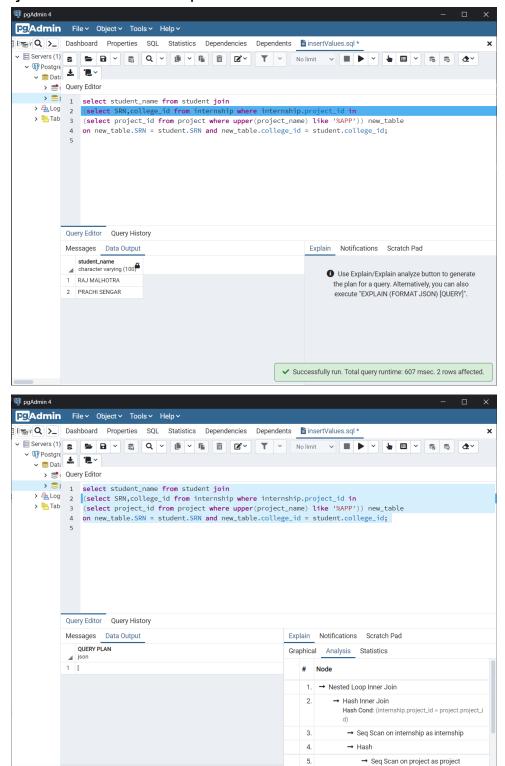


10. Display names of faculty who are not incharge of any placements.

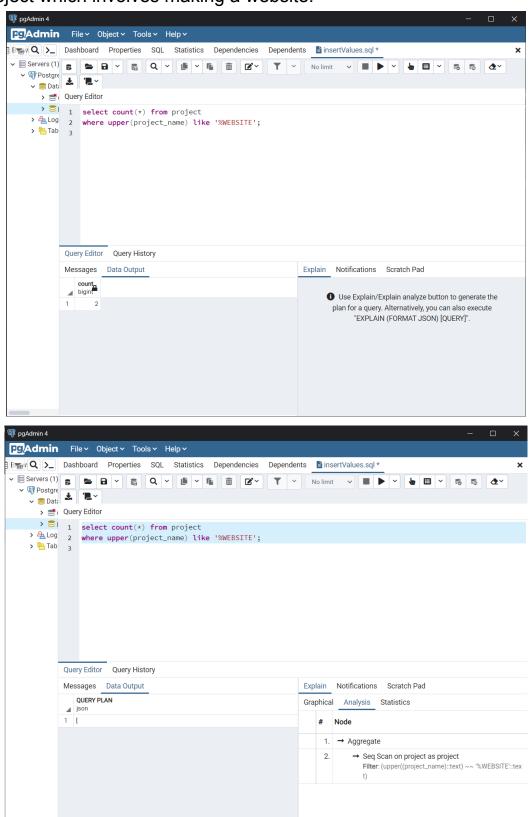




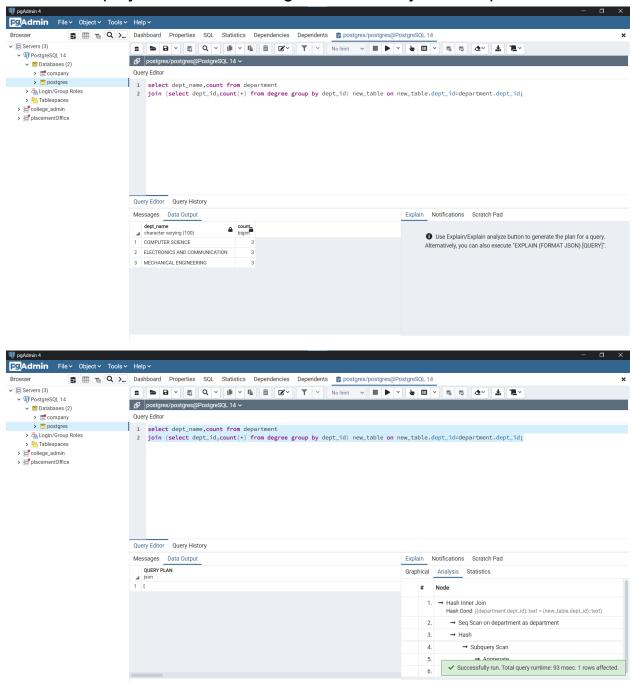
11. Display names of the students who are working on an app as their project for their internship.



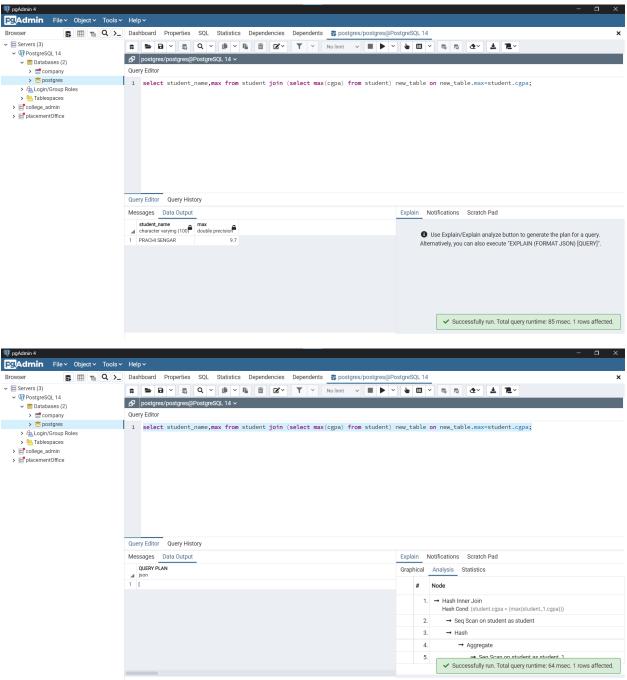
12. Display the number of students who are working on an internship project which involves making a website.



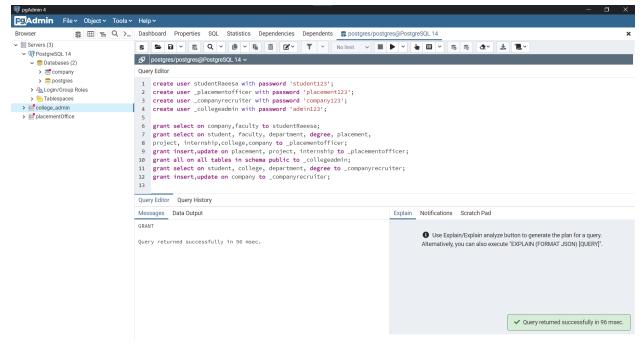
13. Display the number of degrees offered by each department.



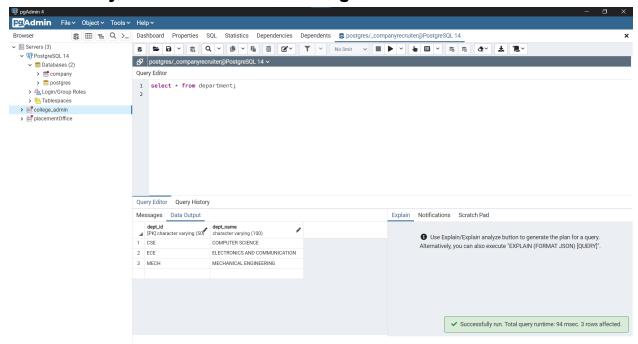
14. Find the name of the student with the highest CGPA.



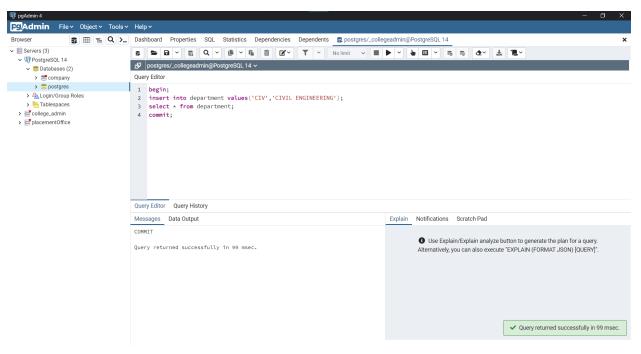
Creating multiple users with different access privilege levels for different parts of the database.



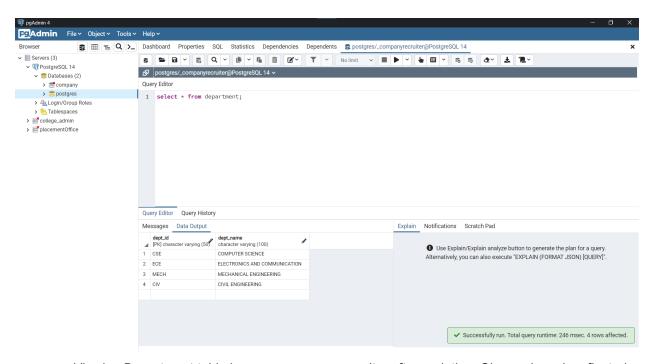
Initiating concurrent Transactions and demonstrating the concurrency control for the conflicting actions.



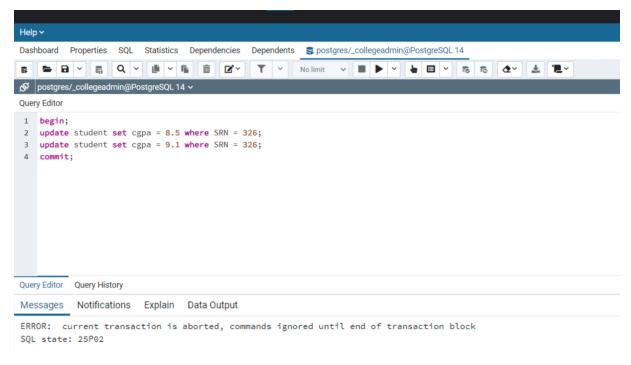
Viewing Department table by user_ companyrecruiter.



Inserting a record into Department table by user_collegeadmin.



Viewing Department table by user _companyrecruiter after updation. Change is only reflected after the second select query.



Not allowed – Because each update command is affecting the same record during the same transaction.

Leads to inconsistency.

Contributions

Prachi Sengar - Simple queries and complex queries Raeesa Tanseen - Transaction control and complex queries Ria Singh - Transaction control and simple queries

Time Spent- 6 hrs