Dhirubhai Ambani Institute of Information and Communication Technology

Final Submission

Project Title: College Fest Database

Submitted to: Dr. Minal Bhise
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Subject: DBMS LAB

Submitted by:

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- Saheb Singh (202212071)

Course: MSc IT (2022-24)

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Software Requirement Specifications:

College Fest Database Problem Statement:

- This database includes the detail about college fest of any college.
- It maps student details to his/her participation in any fest activities.
- It has separate details about winners and prizes.
- This system also includes detail about teams formed during the fest.

Description:

The college fest database contains the information about events, event co-ordinators, event participants, results. It also contains the information for the schedule of events over the span of the event.

Problem Scenario:

The handling of event registration data and teams is tough if done using pen and paper. Here comes the database management system to the rescue as it makes the data storage and accessing really simple and convenient.

Definition:

Normally the registration process for college fests is done on papers and it consumes a lot of time and effort for completing and managing these documents. And to eliminate this extra effort we have designed a database management system.

Features of the database:

- View the events hosted during the span of the college fest
- Registration for the events
    - Team based registration
    - Solo registration
- Event registration committee details
- Event discipline committee details
- Generating a access code for the students who register for any event

Objective:

The objective of this approach is to simplify the registration process for the college events and make it easier to access, manage, and view the required data.

This database helps check if an event committee or event discipline committee is busy on an event during the same time slot.

Research plan:

- Reading about how events are managed at a large scale
- Reading about the team to be created for different management.
- Ground reality about the official documents for the event location.
- Researching about the permission to be taken from higher authorities.
- To understand the concept of event management
- To study the different types of events
- To analyse the role of creativity in our event process. Questionnaire:
- Choose the proffered themes for your college fest
- Select 16 events of your choice.
- Choose between rock band and DJ.
- Choose your DJ;
- Choose your band
- What would you like to improve from the previous fest?
- How would like to rate our previous fest.

Requirements Collection Phase:

- Functional Requirements
- Non-functional requirements

Functional requirements:

- Student registration
- Student login
- Viewing the events and time slots for each event
- Registration for an event
- Issuing a registration number to the students

Non-functional requirements:

- Allow event registrations 1 day before the event.
- Forbid event registrations if the event date and time has passed.
- Send a conformation email to the students on registration with the registration id.
- Show the list of registered events to the students in a dashboard

Reliability of the system:

The system should be reliable and a backup should be maintained at regular intervals and the database should be rolled back to the previous state in case of any failure.

Maintainability of the system: The database code and queries should be maintainable and any complex functionality should be divided into smaller modules.

Accessibility of the system: The application will be web based and be accessible through an internet connected device at all times.

Security of the system: The application must be secure against common SQL injection and XSS attacks. The user data should be encrypted and stored in a secure way.

Portability of the system: The application must be portable as it might get accessed through different devices and browsers.

Privileges:

1. User satisfaction: The main priority of a database is to provide its users with the ease of operating on the database.
2. Analytics: The database should provide its users with the basic analytics.
3. Ease of Payments: The users should have multiple options for payments.

Assumptions:

1. User has access to internet and is apt enough to use UI.
2. User is able to do online transaction through one of the many options available.
3. User has a modern web browser that supports features of the ticket booking platform.
4. User has a modern device which can smoothly function during the ticket booking process.

Constraints:

1. Equipment constraint: The database system must be optimized to process the queries in less time.
2. People constraint: The database system should be easy to operate and the tables should be stored with easily identifiable names.
3. Time constraint: The database system should be responsive enough to process the queries without any delays and it should be easily maintainable.

Fact finding techniques:

- Background reading
- Interviews
- Observations
- Questionnaires

Background reading:

The college fest database system is designed to solve the general requirements for registering, maintaining and accessing the student data who have registered for an event. The objective is to design an application that will facilitate the student registration process and allow the students to register for the events of their liking. The system will also show if there are any overlapping events and notify the students about those events. On successful registration a registration number will be generated which will be emailed to the student and the event management committee. The system will allow the students to register for any event only till 1 day before the event.

The event is categorised in local event, engendering pride in the community, strengthening a feeling of belonging and creating a sense of place.

The event will be a destination event because; people from different colleges will be there for enjoying the fest.

The permissions and the documentation process are to be done from a verified police officer for the DJ and band authorities. An accommodation committee will be doing all the work related to accommodation of the guest and the notable artist which are going to perform.

We need to create a database table for the arrival time of the artist and assign a dedicate team to a separate artist for the accommodation and services.

A total number of seats to be kept in the front of the stage are to be calculated and kept with the help of staff. The seats are calculated by the amount of registration and the google form which we circulated.

The security committee will decide how much security is need in every event for the security of students and welfare of the event. The students' personal data may be collected at the time of registering for the event like:

- Course
- Student id
- Gender

The event is organised in such a planned structure that a person can take part in all the events at once.

Interview Plan:

DA-IICT College Fest: Interview Plan

System: DA-IICT College Fest

Project Reference:

Participants: Aditya Kumar (202212046)

Saheb Singh (202212071)

Date: 27-August-2022 Time: 15:00

Duration: 1 Hour Place: DA-IICT General Lab

Purpose of Interview: Initial meeting to identify the requirements for creating a database for college fest.

Agenda:

- Number of events and types of events per day.
- Approx. number of participants in each event.
- Time slots and day for the events.
- Media team to cover the photography, videography, and social media promotions.
- Initial ideas to discuss during the meeting.
- Follow up actions on the meeting discussions.

Documents to be brought to the interview:

- Rough plan of the event and types of events.
- Description of the events.
- Approx. number of events and participants.

Interview Summary:

DA-IICT College Fest: Interview Summary

System: DA-IICT College Fest

Project Reference:

Participants: Aditya Kumar (202212046)

Saheb Singh (202212071)

Date: 27-August-2022 Time: 15:00

Duration: 1 Hour Place: DA-IICT General Lab Purpose of Interview:
Initial meeting to identify the problems and requirements regarding security at the college fest.

- Fest duration [number of days].
- Number of events per day.
- Types of events.
- Number of approx. participants.
- Time slot for the events.
- Number of event co-ordinator.
- Creating an advertisement committee.
- Opening ceremony/ closing ceremony of the event.
- Various prize distributions for the winners in the event. • Initializing of the security committee and event committee.
- Further discussion needed when more information is available. (arrange follow up meeting with Saheb and Aditya)

Observations:

Objective	Technique	Subject	Time Commitment
To get background of college festival and the events.	Background reading	College fest documents	0.5 day.
To gain understanding of the events, events committee, events coordinator, media team, event plan.	Interview	Gain understanding / event management committee.	0,5 hour per day
To discuss out how the events will be managed, event coordinator, event participants, results.	Interview	Event management committee	2 X1 each day
To follow up on development of fest database.	Observation	Organising committee	2 X 1 Hour
To determine the role and relation of events committee, discipline committee, media team.	Interview	Human resource committee	3 X 1 Hour
To decide what event related documents are kept.	Interview/document sampling.	Resource manager	1.5 Hour each
To decide additional requirements for the new database.	Interview	Core committee/organising committee	0.5 each day

Questionnaire:

DA-IICT – Survey for DA-IICT college fest. Please tick our answers for the following questions.

- Your Name
- Gender
    - Male
    - Female
- Age Group
    - 15 to 18 Years
    - 18 to 25 Years
    - 25+ Year
- Are you planning to attend the fest?
    - Yes
    - No
- Email ID
- ID Number
- Choose your preferable theme.
    - Cultural
    - Back to the 90s
    - Halloween
    - Hawaii Magic
- Select 16 events of your choice
    - LAN Gaming
    - Robo Game
    - Poetry writing and recitation
    - Face painting
    - Debugging
    - Marketing and Selling
    - Story writing competition • Short film making
    - Young scientist and innovation • Handcrafts
    - Cultural competition

- Fashion show
- Culinary contest
- Debate
- Murder investigation
- Laser tag
- Rubix cube competition
- Treasure hunt
- Mimicry competition
- Photography

• Choose between Rock band and DJ • Rock Band
- DJ

• Choose your DJ
- David Guetta
- Martin Garrix
- Nucleya
- DJ Man-Dee

• Choose your band
- The Local Train
- Indian Ocean
- The Byrds
- Testo Sisters

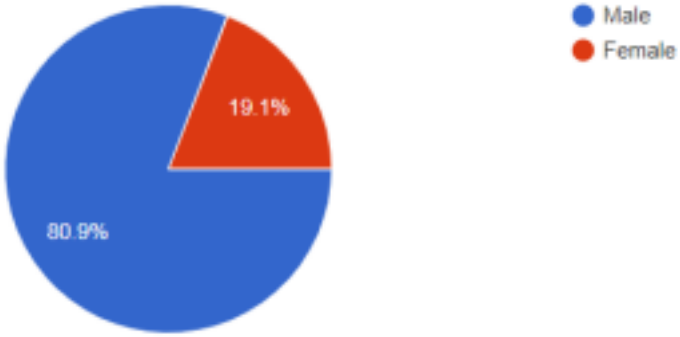
• What would you like to improve from the previous fest?

• How would you rate our previous fest?

Questionnaire Results:

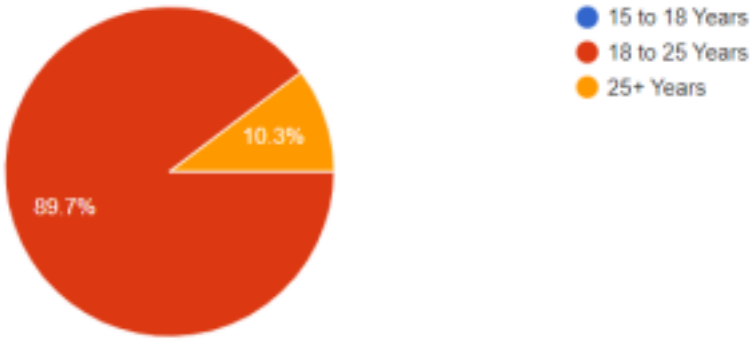
Gender

68 responses



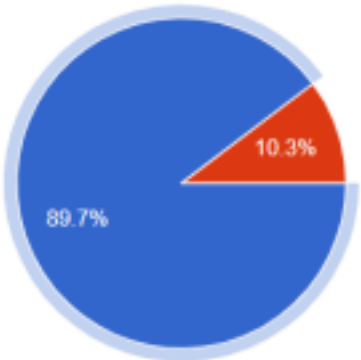
Age Group

68 responses



Are you planning to attend the college fest?

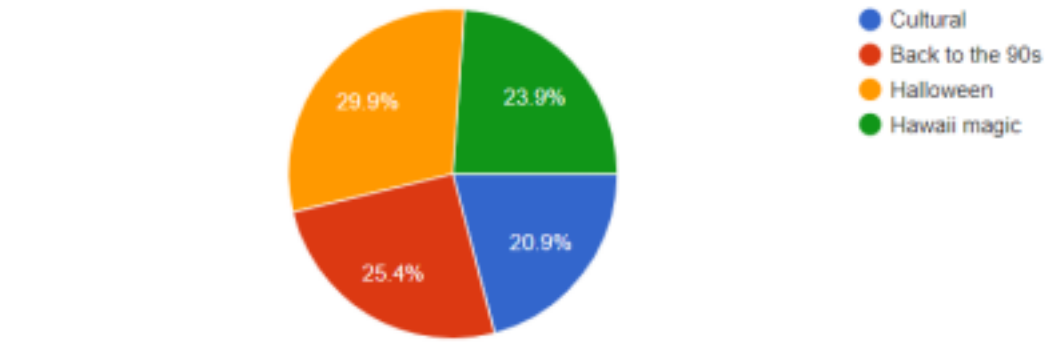
68 responses



Survey

Choose your preferable theme for your college fest

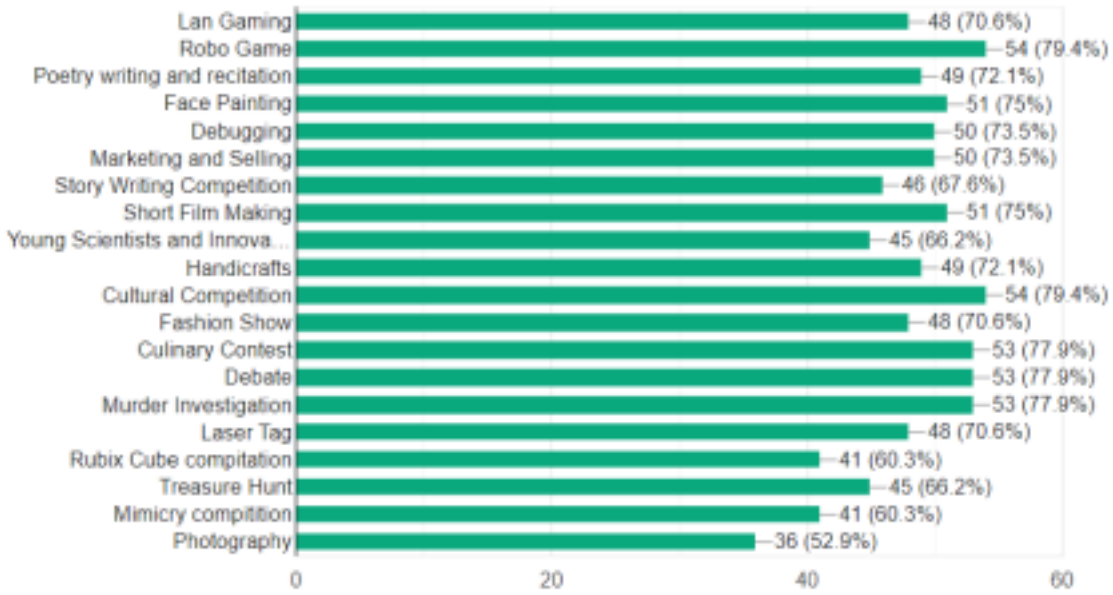
67 responses



Select 16 events of your choice out of 20.

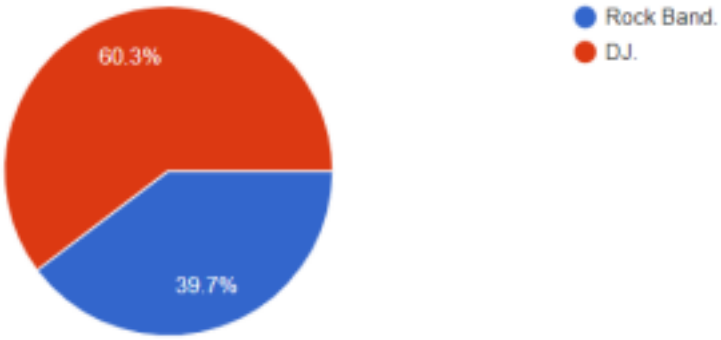
Copy

68 responses



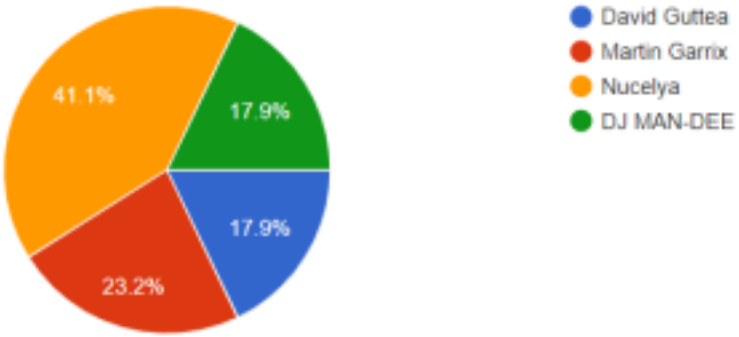
Choose between RockBand or DJ:

68 responses



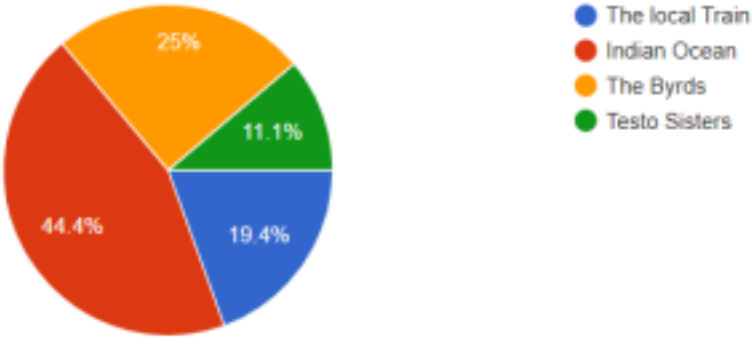
Choose your DJ

56 responses



Choose Your Band.

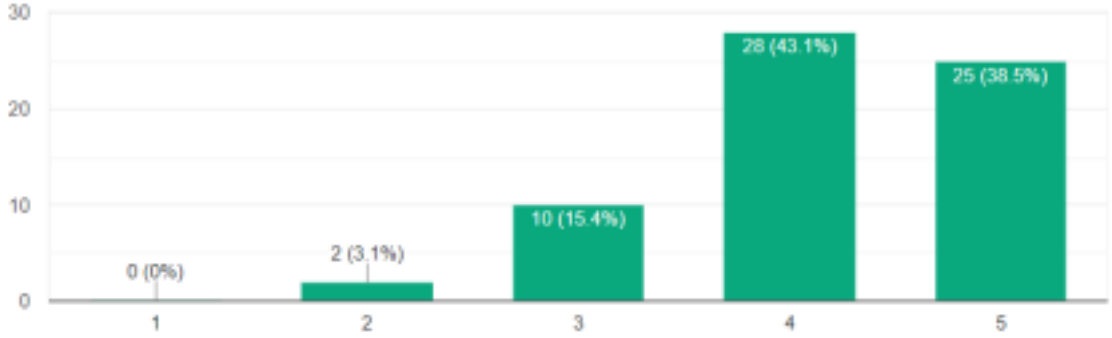
36 responses



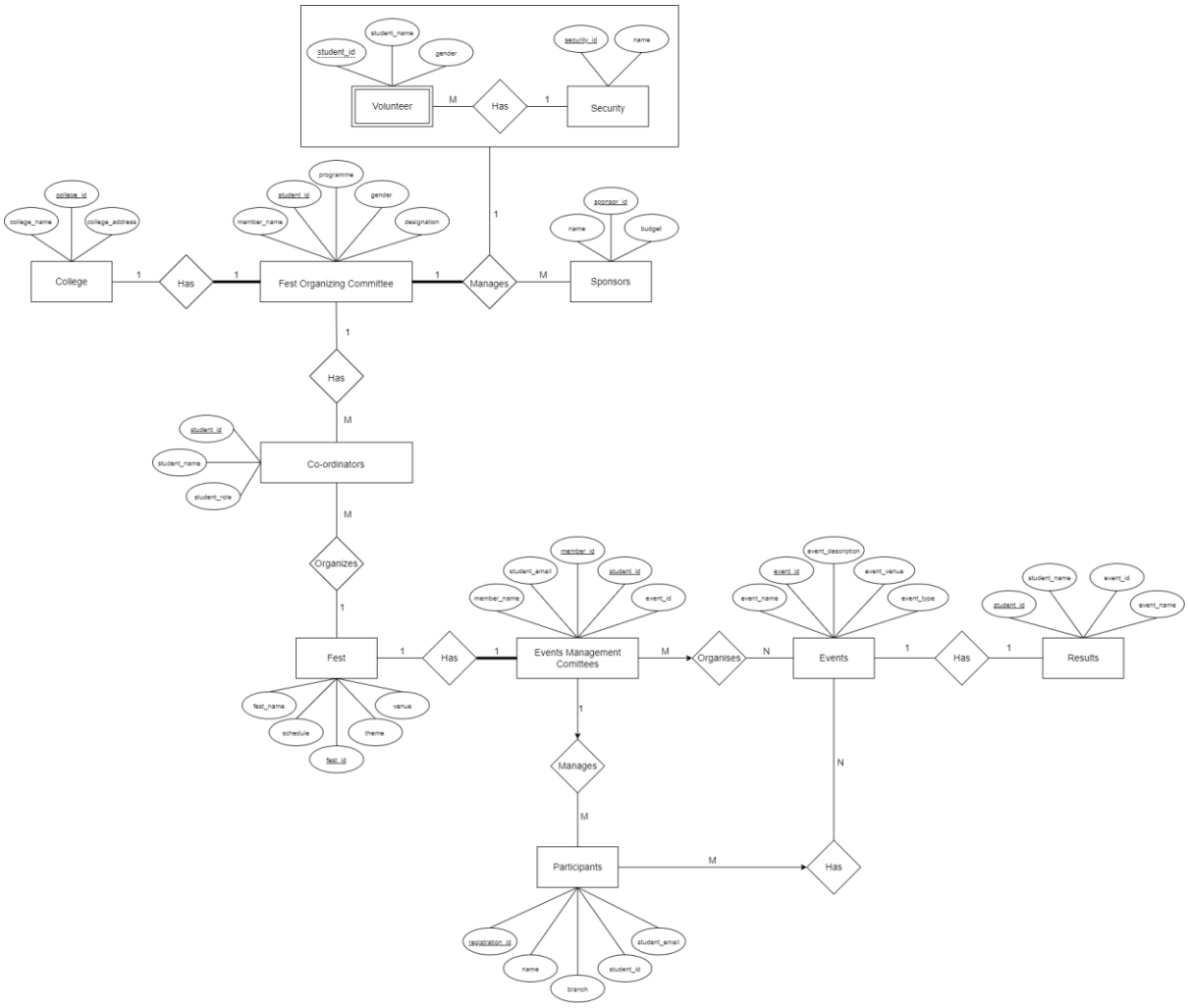
How would like to rate our previous fest?

Copy

65 responses



ER Diagram:


student_id
student_name
gender
Volunteer
M
Has
1
security_id
name
Security
college_id
college_name
college_address
College
1
Has
1
programme
student_id
gender
member_name
designation
Fest Organizing Committee
1
Manages
M
sponsor_id
name
budget
Sponsors
1
Has
M
student_id
student_name
student_role
Co-ordinators
M
Organizes
1
member_id
student_email
student_id
member_name
event_id
Fest
1
Has
1
Events Management Comittees
M
Organises
N
event_description
event_id
event_venue
event_name
event_type
Events
1
Has
1
student_name
event_id
student_id
event_name
Results
fest_name
venue
schedule
theme
fest_id
1
Manages
M
N
Participants
M
Has
registration_id
student_email
name
student_id
branch

Final List of Attributes and Constraints:

1. Relation: College

College (college_name : string, college_id : string, college_address : string)

Attribute Name	Constraints
College_name	NOT NULL
College_id	PRIMARY KEY
College_address	NOT NULL

2. Relation: Fest Organising Committee

Fest_organising_committee (member_name : string, student_id : long integer, programme : string, gender : string, designation : string)

Attribute Name	Constraints
Member_name	NOT NULL
Student_id	PRIMARY KEY
Programme	NOT NULL
Gender	NOT NULL
Designation	NOT NULL

3. Relation: Sponsors

Sponsors (name : string, sponsor_id : long integer, Budget : integer)

Attribute Name	Constraints
Name	NOT NULL
Sponsor_id	PRIMARY KEY
Budget	NOT NULL

4. Relation: Co-ordinators

Coordinators (student_id : integer, student_name : string, student_role : string)

Attribute Name	Constraints
Student_id	PRIMARY KEY
Student_name	NOT NULL
Student_role	NOT NULL

5. Relation: Fest

Fest (fest_name : string, schedule : date_time, fest_id : string, theme : string, venue : string)

Attribute Name	Constraints
Fest_name	NOT NULL
Schedule	NOT NULL
Fest_id	PRIMARY KEY
Theme	NOT NULL
Venue	NOT NULL

6. Relation: Event Management Committee

Event_management_committee (member_name : string, student_email : string, member_id : string, student_id : integer, event_id : string)

Attribute Name	Constraints
Member_name	NOT NULL
Student_email	NOT NULL
Member_id	NOT NULL
Student_id	PRIMARY_KEY
Event_id	NUT NULL

7. Relation: Events

Events (event_name : String, event_id : string, event_description : String, event_venue : String, event_type : String)

Attribute Name	Constraints
Event_name	NOT NULL
Event_id	PRIMARY KEY
Event_description	NOT NULL
Event_venue	NOT NULL
Event_type	NOT NULL

8. Relation: Results

Results (student_id : Integer, student_name : String, event_id : String, event_name : String)

Attribute Name	Constraints
Student_id	PRIMARY KEY
Student_name	NOT NULL
Event_id	NOT NULL
Event_name	NOT NULL

9. Relation: Participants

Participants (registration_id : Integer, Name : String, Branch : String, Student_id : Integer, Student_email : String)

Attribute Name	Constraints
Registration_id	PRIMARY KEY
Name	NOT NULL
Branch	NOT NULL
Student_id	NOT NULL
Student_email	NOT NULL

10. Relation: Volunteer
Volunteer (student_id : Integer, student_name : String, gender : Character)

Attribute Name	Constraints
Student_id	PARTIAL KEY
Student_name	NOT NULL
Gender	NOT NULL

11. Relation: Security
Security (security_id : Integer, name : String)

Attribute Name	Constraints
Security_id	PRIMARY KEY
Name	NOT NULL

ER Diagram to Relational Mapping:

Relation: College
College (college_name : string, college_id : string, college_address : string)

Attribute Name	Data Type	Constraints	Description
College_name	String	NOT NULL	Name of the college.
College_id	String	PRIMARY KEY	ID number of the college.
College_address	String	NOT NULL	Address of the college.

Relation: Fest Organising Committee
Fest_organising_committee (member_name : string, student_id : long integer, programme : string, gender : string, designation : string)

Attribute Name	Data Type	Constraints	Description
Member_name	String	NOT NULL	Name of fest organising committee member.
Student_id	Long integer	PRIMARY KEY	ID number of the member.
Programme	String	NOT NULL	Enrolled programme of the fest organising committee member.
Gender	String	NOT NULL	Gender of the member.
Designation	String	NOT NULL	Designation of the Fest organising committee member.

Relation: Sponsors
Sponsors (name : string, sponsor_id : long integer, Budget : integer)

Attribute Name	Data Type	Constraints	Description
Name	String	NOT NULL	Name of the sponsors.
Sponsor_id	Long integer	PRIMARY KEY	ID number of the sponsor.
Budget	Integer	NOT NULL	Budget of the sponsors.

Relation: Co-ordinators
Coordinators (student_id : integer, student_name : string, student_role : string)

Attribute Name	Data Type	Constraints	Description
Student_id	Integer	PRIMARY KEY	ID number of the student.
Student_name	String	NOT NULL	Name of the student.
Student_role	String	NOT NULL	Role of the student as co-ordinator.

Relation: Fest
Fest (fest_name : string, schedule : date_time, fest_id : string, theme : string, venue : string)

Attribute Name	Data Type	Constraints	Description
Fest_name	String	NOT NULL	Name of the college fest.
Schedule	Date Time	NOT NULL	Schedule of the fest.
Fest_id	String	PRIMARY KEY	ID number of the college fest.
Theme	String	NOT NULL	Theme of the college fest.
Venue	String	NOT NULL	Venue details of the college fest.

Relation: Event Management Committee
Event_management_committee (member_name : string, student_email : string, member_id : string, student_id : integer, event_id : string)

Attribute Name	Data Type	Constraints	Description
Member_name	String	NOT NULL	Name of the member.
Student_email	String	NOT NULL	Email address of the student member.
Member_id	String	NOT NULL	ID number of the student member.
Student_id	Integer	PRIMARY_KEY	Student ID of the member.
Event_id	String	NUT NULL	Event ID of the event managed by the student member.

Relation: Events
Events (event_name : String, event_id : string, event_description : String, event_venue : String, event_type : String)

Attribute Name	Data Type	Constraints	Description
Event_name	String	NOT NULL	Name of the event being organised.
Event_id	String	PRIMARY KEY	ID of the event being organised.
Event_description	String	NOT NULL	Description of the event being organised.
Event_venue	String	NOT NULL	Venue of the event being organised.
Event_type	String	NOT NULL	The category of the event being organised.

Relation: Results
Results (student_id : Integer, student_name : String, event_id : String, event_name : String)

Attribute Name	Data Type	Constraints	Description
Student_id	Integer	PRIMARY KEY	ID number of the student.
Student_name	String	NOT NULL	Name of the student.
Event_id	String	NOT NULL	ID of the event.
Event_name	String	NOT NULL	Name of the event.

Relation: Participants
Participants (registration_id : Integer, Name : String, Branch : String, Student_id : Integer, Student_email : String)

Attribute Name	Data Type	Constraints	Description
Registration_id	Integer	PRIMARY KEY	Registration ID of the participant.
Name	String	NOT NULL	Name of the participant.
Branch	String	NOT NULL	Course branch of the participants.
Student_id	Integer	NOT NULL	ID number of the students.
Student_email	String	NOT NULL	Email address of the students.

Relation: Volunteer
Volunteer (student_id : Integer, student_name : String, gender : Character)

Attribute Name	Data Type	Constraints	Description
Student_id	Integer	PARTIAL KEY	ID number of the student volunteer.
Student_name	String	NOT NULL	Name of the student volunteer.
Gender	Character	NOT NULL	Gender of the student volunteer.

Relation: Security
Security (security_id : Integer, name : String)

Attribute Name	Data Type	Constraints	Description
Security_id	Integer	PRIMARY KEY	ID number of the security members.
Name	String	NOT NULL	Name of the security members.

DDL Statements:

1. DDL for creating Schema:
   CREATE SCHEMA College-Fest-DB

2. DDL for creating tables:

   College:

```
CREATE TABLE College (
        College_name CHAR(20) NOT NULL,
        College_id CHAR(10) NOT NULL,
        College_address CHAR(50) NOT NULL,
        PRIMARY KEY (College_id)
);
```

   Fest Organising Committee:

```
CREATE TABLE Fest_organising_committee (
        Member_name CHAR(20) NOT NULL,
        Student_id CHAR(10) NOT NULL,
        Programme CHAR(10) NOT NULL,
        Gender CHAR(6) NOT NULL,
        Designation CHAR(10) NOT NULL,
        PRIMARY KEY (Student_id)
);
```

   Sponsors:

```
CREATE TABLE Sponsors (
        Name CHAR(20) NOT NULL,
        Sponsor_id CHAR(10) NOT NULL,
        Budget INT
        PRIMARY KEY (Sponsor_id)
);
```

   Coordinators:

```
CREATE TABLE Coordinators (
        Student_id CHAR(10) NOT NULL,
        Student_name CHAR(50) NOT NULL,
        Student_role CHAR(10) NOT NULL
        PRIMARY KEY (Student_id)
);
```

   Fest:

```
CREATE TABLE Fest (
        Fest_name CHAR(15) NOT NULL,
        Schedule DATE NOT NULL,
        Fest_id CHAR(10) NOT NULL,
        Theme CHAR(15) NOT NULL,
        Venue CHAR(10) NOT NULL
        PRIMARY KEY (Fest_id)
);
```

Event Management Committee:

```
CREATE TABLE Event_management_committee (
        Member_name CHAR(15) NOT NULL,
        Student_email CHAR(30) NOT NULL,
        Member_id CHAR(10) NOT NULL,
        Student_id CHAR(10) NOT NULL,
        Event_id CHAR(10) NOT NULL,
        PRIMARY KEY (Member_id)
);
```

Event:

```
CREATE TABLE Event (
        Event_name CHAR(15) NOT NULL,
        Event_id CHAR(10) NOT NULL,
        Event_description CHAR(50) NOT NULL,
        Event_venue CHAR(20) NOT NULL,
        Event_type CHAR(15) NOT NULL,
        PRIMARY KEY (Event_id)
);
```

Result:

```
CREATE TABLE Result (
        Student_id CHAR(15) NOT NULL,
        Student_name CHAR(20) NOT NULL,
        Event_id CHAR(10) NOT NULL,
        Event_name CHAR(15) NOT NULL
        PRIMARY KEY (Student_id)
);
```

Participants:

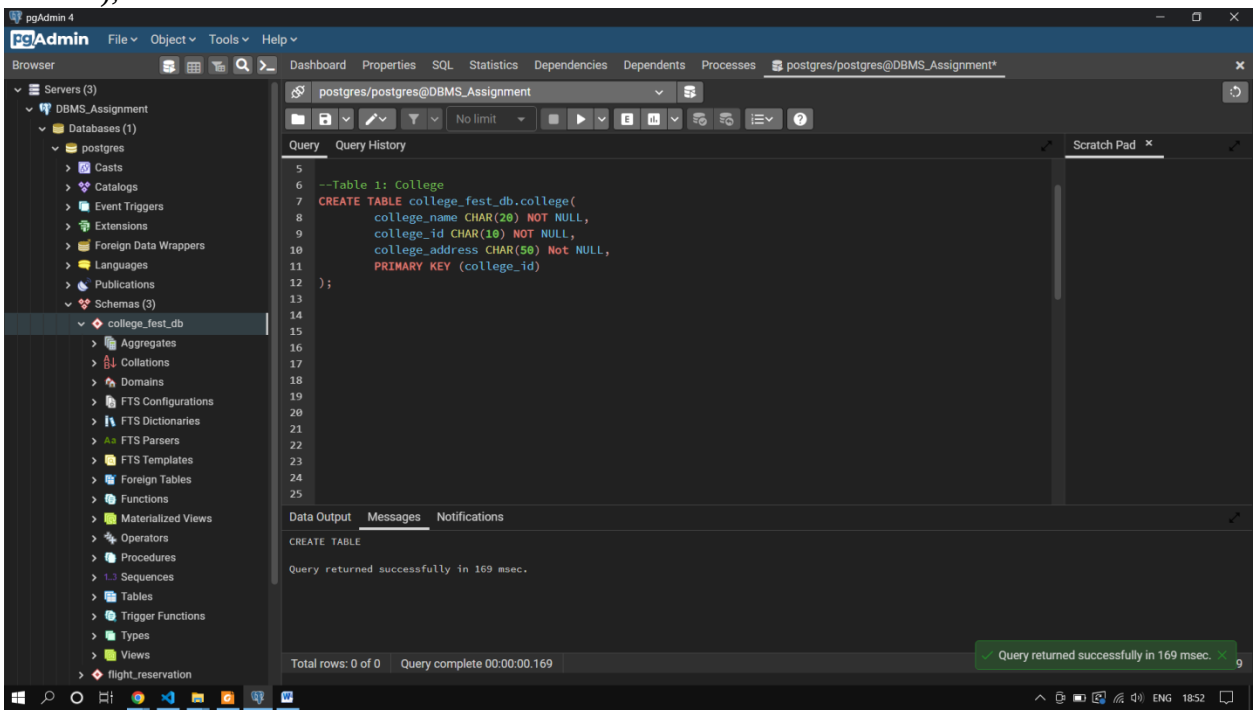
```
CREATE TABLE Participants (
        Registration_id CHAR(10) NOT NULL,
        Name CHAR(15) NOT NULL,
        Branch CHAR(15) NOT NULL,
        Student_id CHAR(10) NOT NULL,
        Student_email CHAR(30) NOT NULL
        PRIMARY KEY (Registration_id)
);
```

Details of creating tables and populating the data into table:

1. Create a table for College
2. Create a table for Fest Organising Committee
3. Create a table for Sponsors
4. Create a table for Coordinators
5. Create a table for Fest
6. Create a table for Event Management Committee
7. Create a table for Event
8. Create a table for Result
9. Create a table for Participants
10. Create a table for Volunteers
11. Create a table for Security

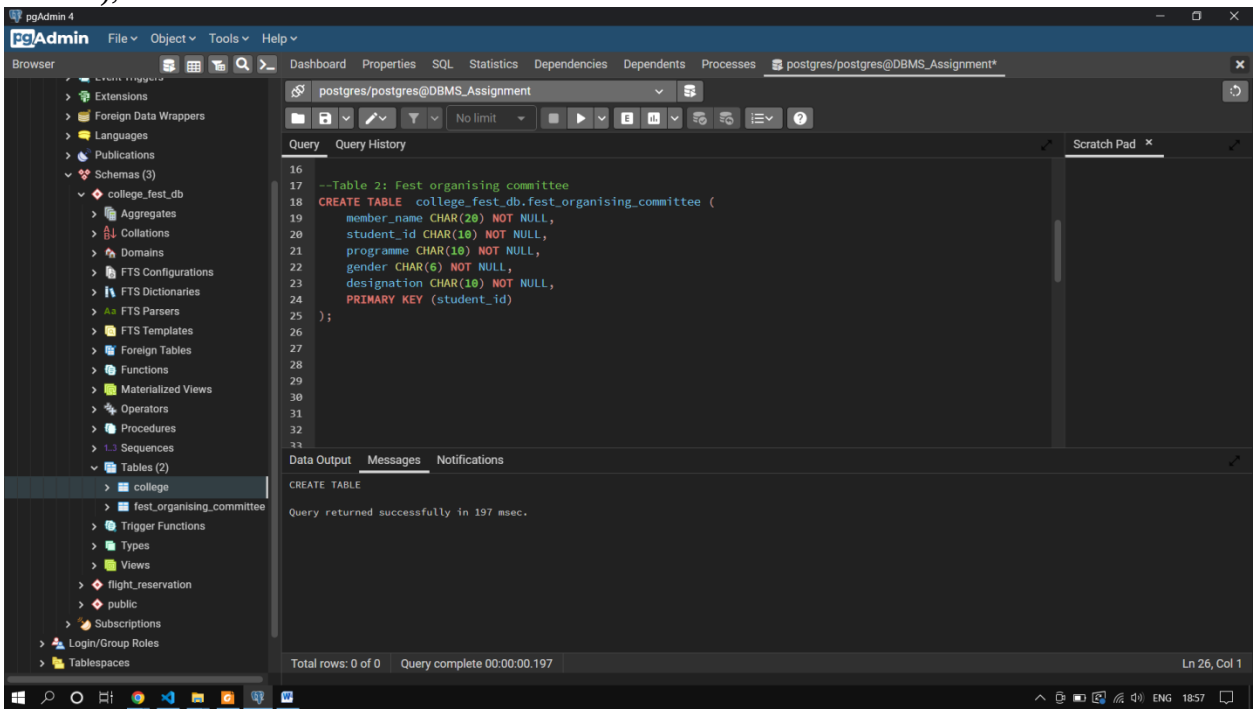
1. --Table 1: College
   Query:

```
CREATE TABLE college_fest_db.college(
        college_name CHAR(20) NOT NULL,
        college_id CHAR(10) NOT NULL,
        college_address CHAR(50) Not NULL,
        PRIMARY KEY (college_id)
);
```



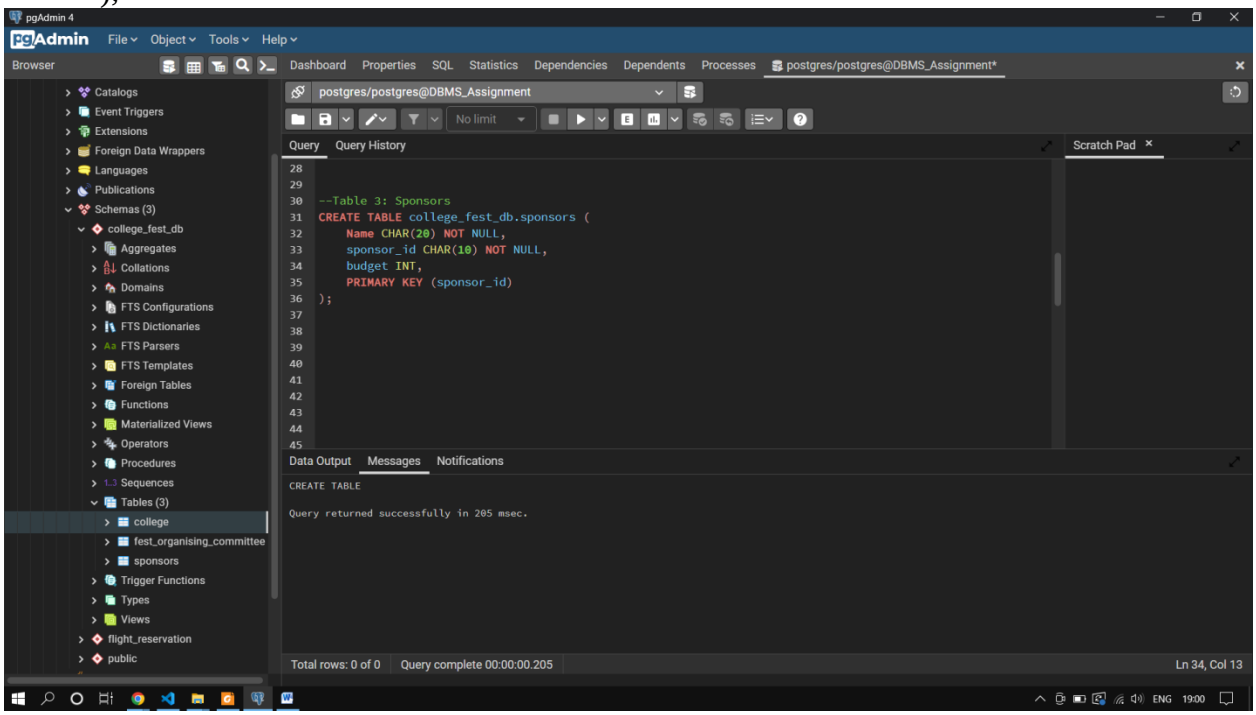
2. Table 2: Fest organising committee
   Query:

```
CREATE TABLE  college_fest_db.fest_organising_committee (
        member_name CHAR(20) NOT NULL,
        student_id CHAR(10) NOT NULL,
        programme CHAR(10) NOT NULL,
        gender CHAR(6) NOT NULL,
        designation CHAR(10) NOT NULL,
        PRIMARY KEY (student_id)
);
```

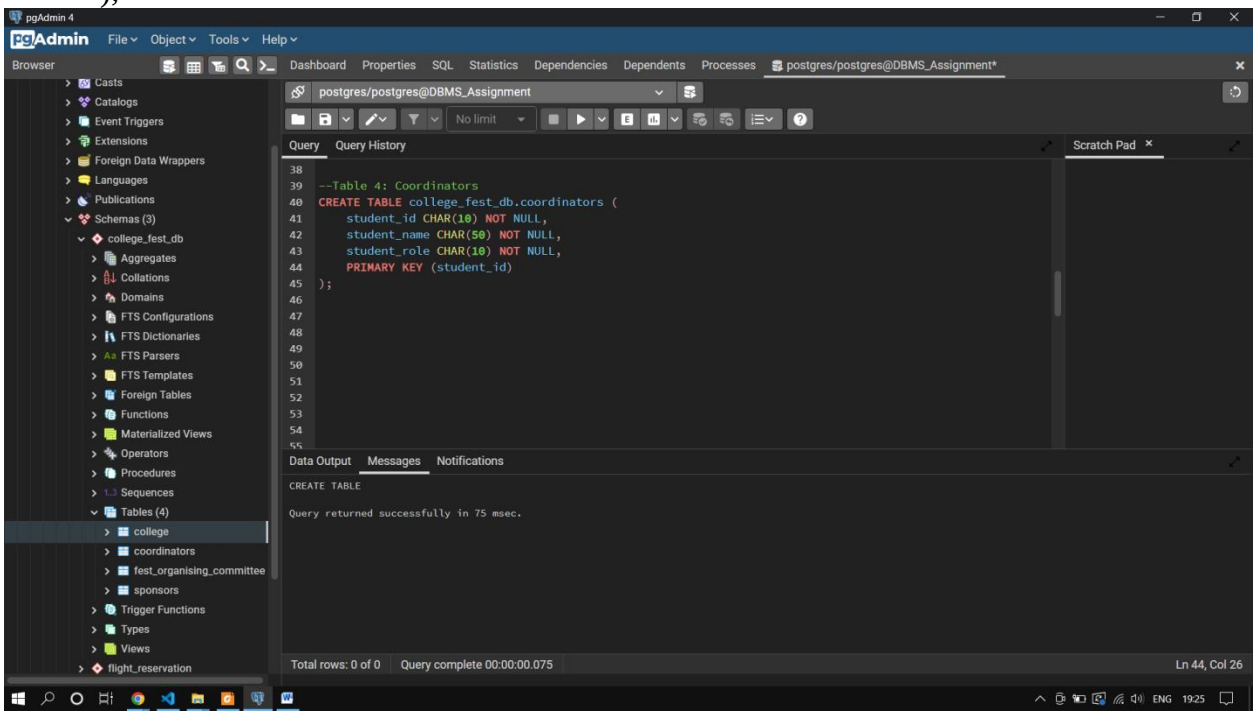


3. Table 3: Sponsors
   Query:

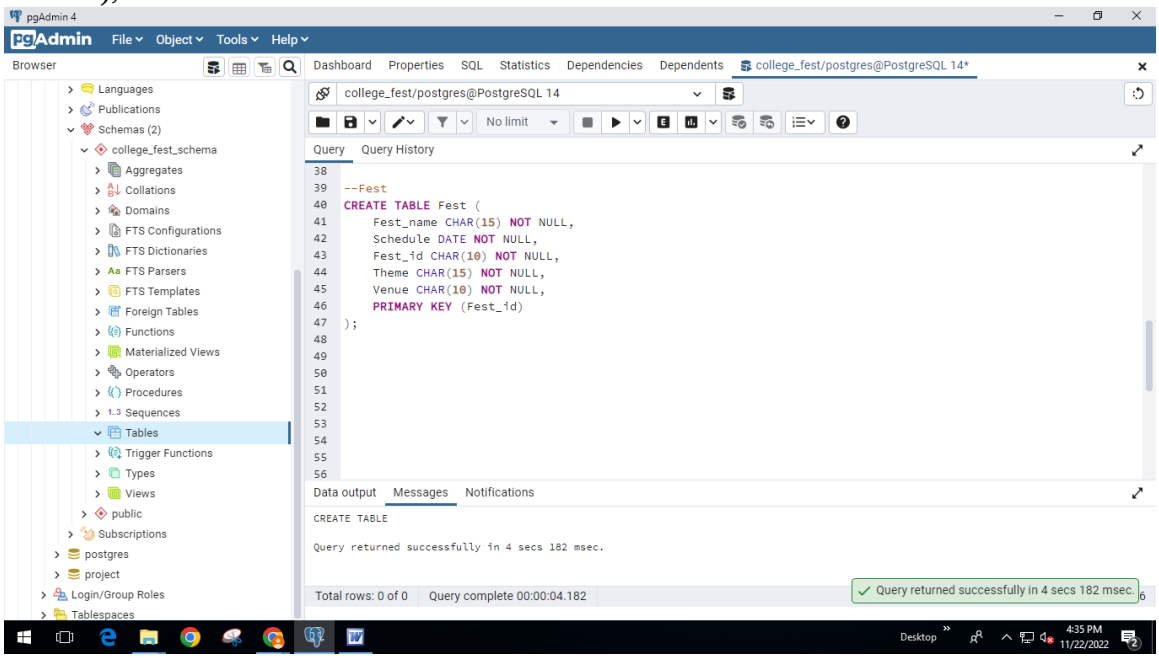
```
CREATE TABLE college_fest_db.sponsors (
        Name CHAR(20) NOT NULL,
        sponsor_id CHAR(10) NOT NULL,
        budget INT,
        PRIMARY KEY (sponsor_id)
);
```



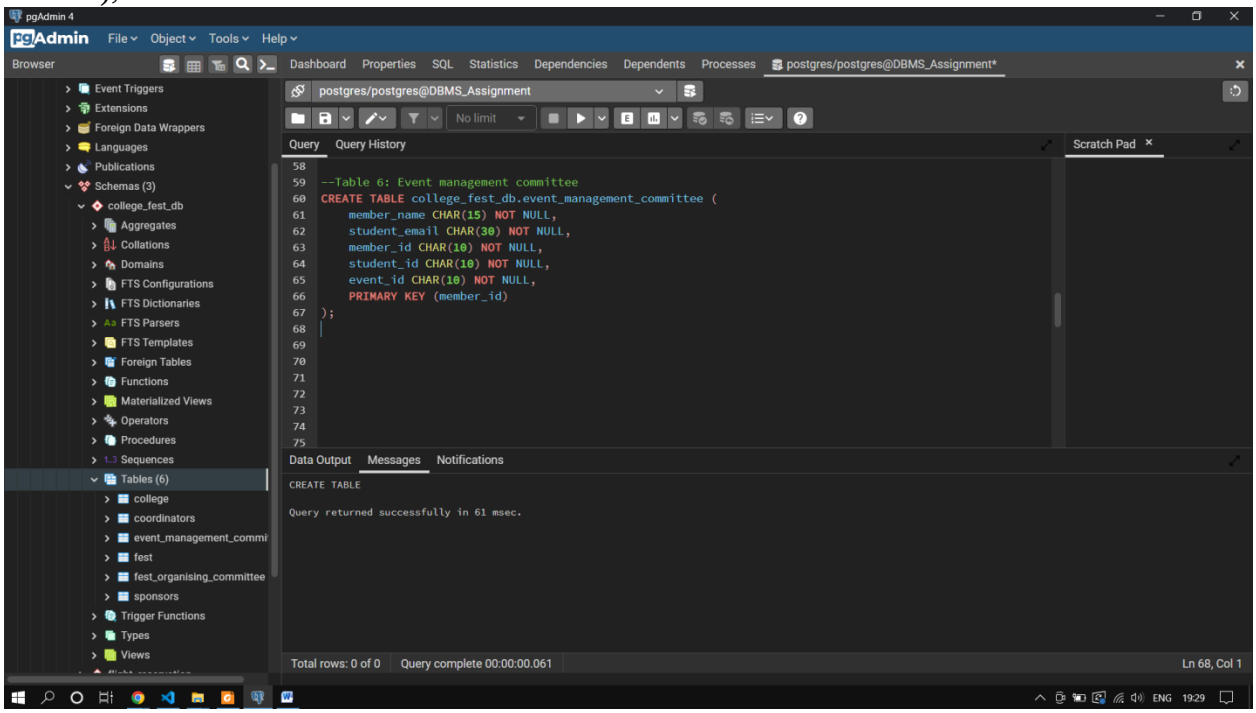
4. Table: Coordinators
   Query:
   CREATE TABLE college_fest_db.coordinators (
   student_id CHAR(10) NOT NULL,
   student_name CHAR(50) NOT NULL,
   student_role CHAR(10) NOT NULL,
   PRIMARY KEY (student_id)
   );



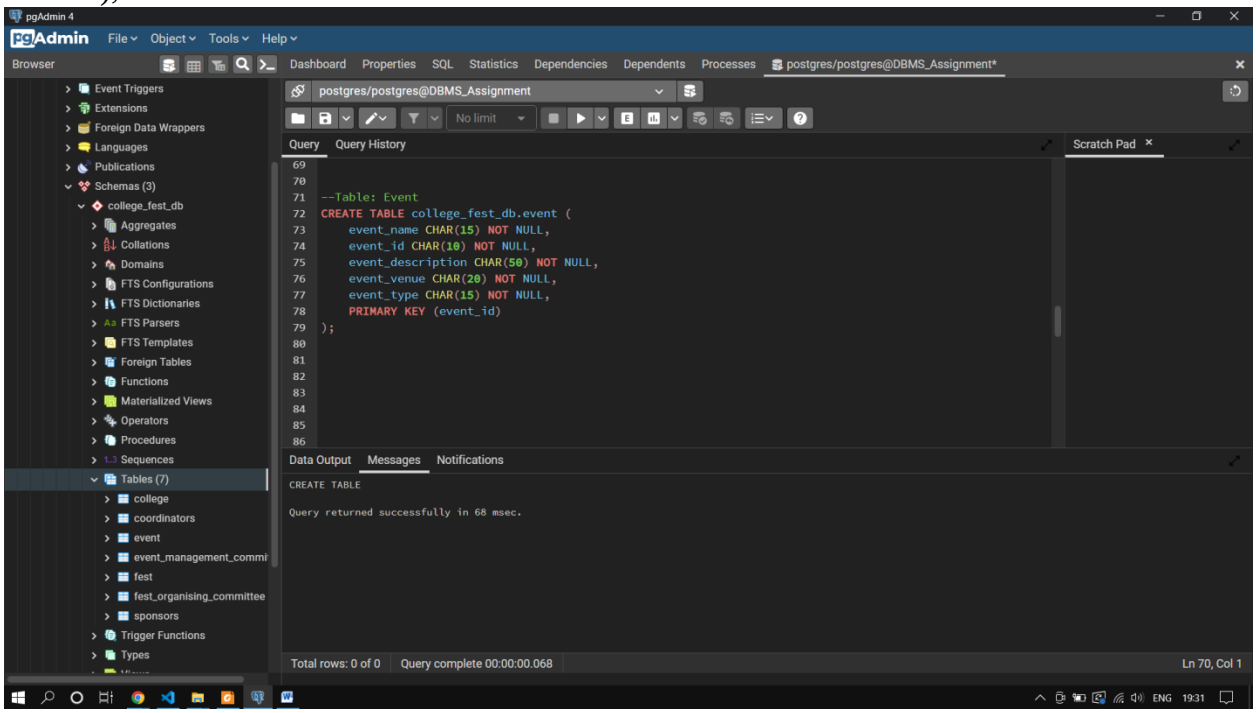
5. Table: Fest
   Query:
   CREATE TABLE college_fest_db.fest (
   fest_name CHAR(15) NOT NULL,
   schedule DATE NOT NULL,
   fest_id CHAR(10) NOT NULL,
   theme CHAR(15) NOT NULL,
   venue CHAR(10) NOT NULL,
   PRIMARY KEY (fest_id)
   );



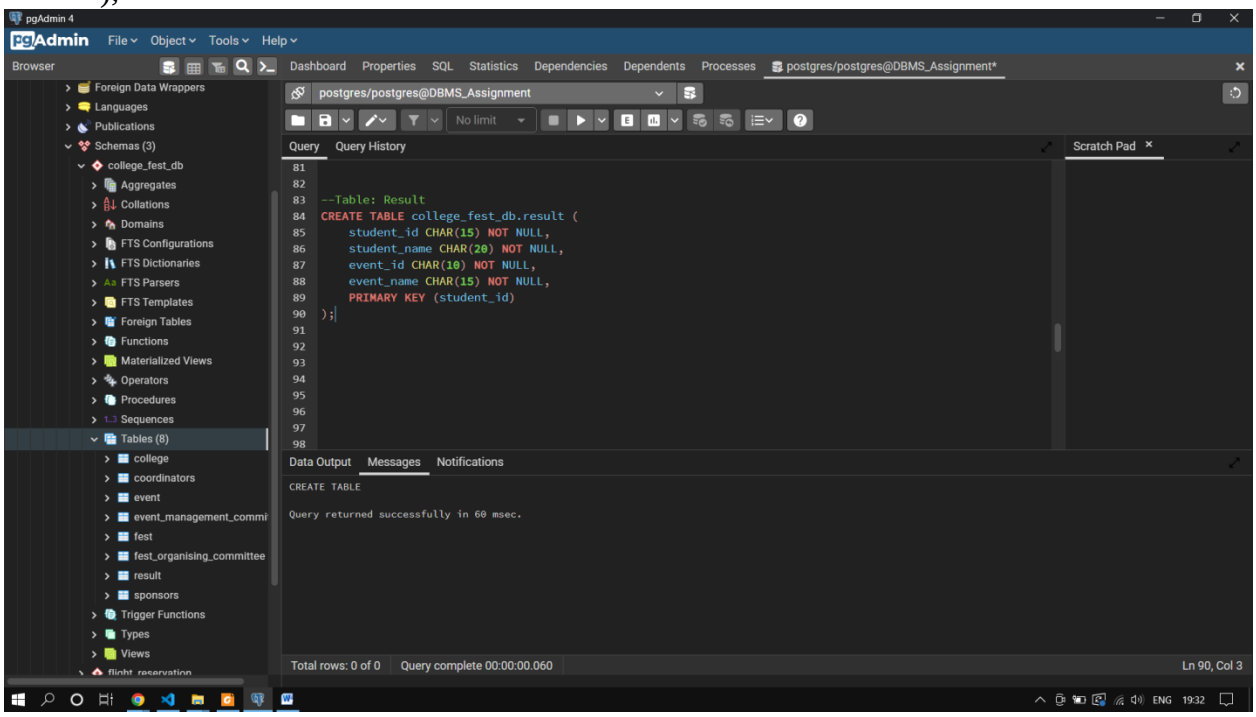
6. Table: Event management committee
   Query:
   CREATE TABLE college_fest_db.event_management_committee (
   member_name CHAR(15) NOT NULL,
   student_email CHAR(30) NOT NULL,
   member_id CHAR(10) NOT NULL,
   student_id CHAR(10) NOT NULL,
   event_id CHAR(10) NOT NULL,
   PRIMARY KEY (member_id)
   );



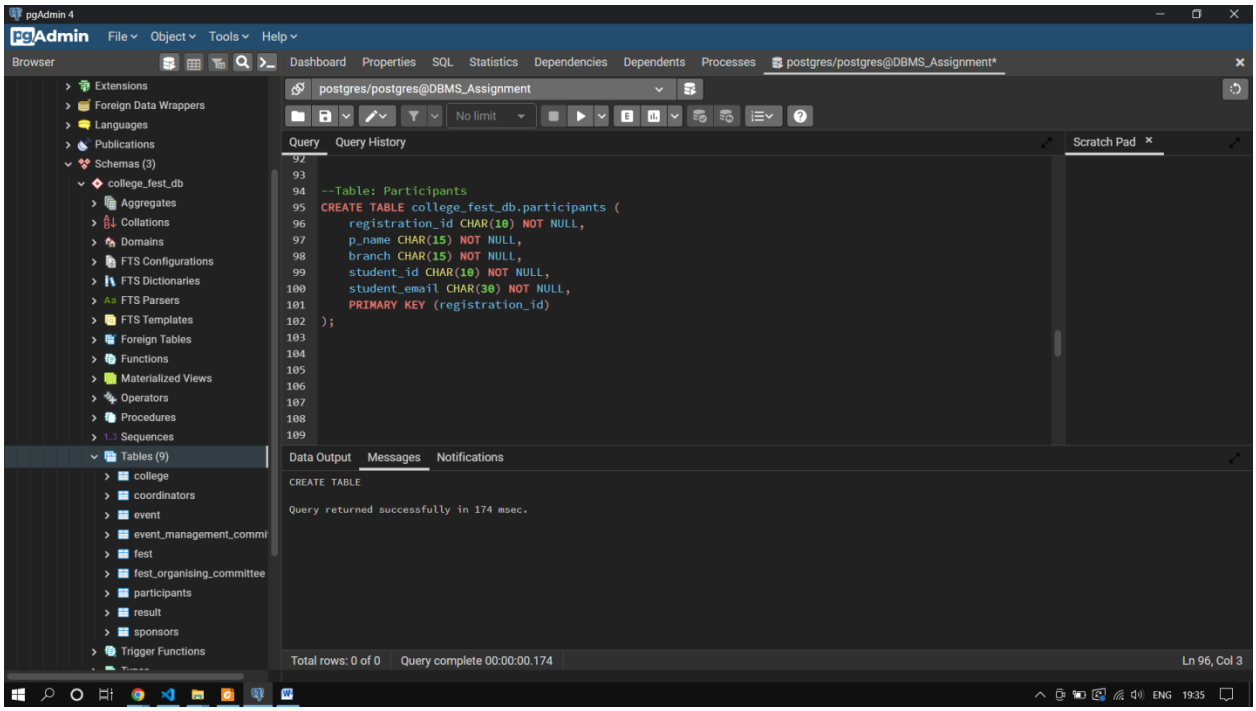
7. Table: Event
   Query:
   CREATE TABLE college_fest_db.event (
   event_name CHAR(15) NOT NULL,
   event_id CHAR(10) NOT NULL,
   event_description CHAR(50) NOT NULL,
   event_venue CHAR(20) NOT NULL,
   event_type CHAR(15) NOT NULL,
   PRIMARY KEY (event_id)
   );



8. Table: Result
   Query:
   CREATE TABLE college_fest_db.result (
   student_id CHAR(15) NOT NULL,
   student_name CHAR(20) NOT NULL,
   event_id CHAR(10) NOT NULL,
   event_name CHAR(15) NOT NULL,
   PRIMARY KEY (student_id)
   );



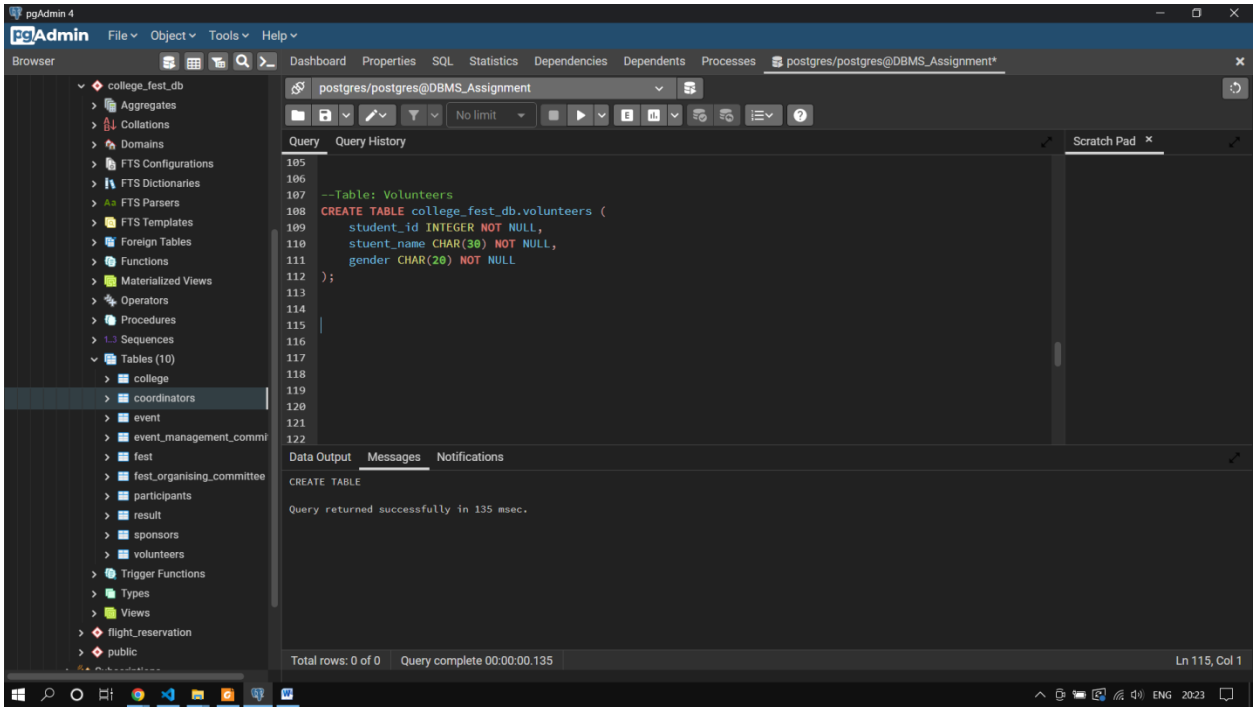
9. Table: Participants
   Query:
   CREATE TABLE college_fest_db.participants (
   registration_id CHAR(10) NOT NULL,
   p_name CHAR(15) NOT NULL,
   branch CHAR(15) NOT NULL,
   student_id CHAR(10) NOT NULL,
   student_email CHAR(30) NOT NULL,
   PRIMARY KEY (registration_id)
   );



10. Table: Volunteers

Query:

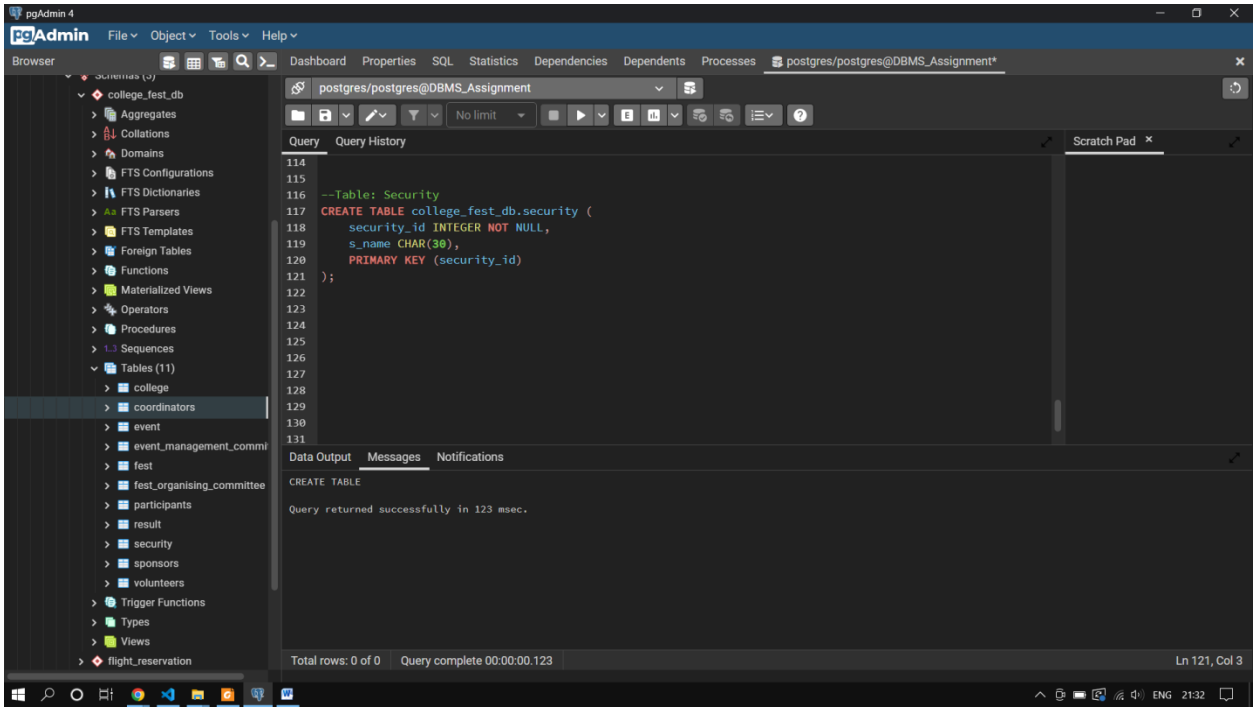
```
CREATE TABLE college_fest_db.volunteers (
        student_id INTEGER NOT NULL,
        stuent_name CHAR(30) NOT NULL,
        gender CHAR(20) NOT NULL
);
```



11. Security

Query:

```
CREATE TABLE college_fest_db.security (
        security_id INTEGER NOT NULL,
        s_name CHAR(30),
        PRIMARY KEY (security_id)
);
```



List of English queries:

1. Display the President from the Co-ordinators.
2. Display the Vice President from the Co-ordinators.
3. List all the coordinators whose names start with ‘A’.
4. Select all the designers.
5. Select all the Web Developers who are from MSc IT course.
6. Select all the designers who are female.
7. Select personal information of students who have the role of Tresurer and are from MSc IT programme.
8. Count the total number of participating colleges.
9. Count the total number of participants from each branch.
10. Display the following details
    a. Student id
    b. Student name
    c. Branch
    d. Event name
    e. Position

    Of participants who secured first position.
11. Display name and venue of all the fests that are between dates 11-11-2022 and 13-11-2022.
12. Display the count of Male and Female volunteers.
13. Display all the sponsors.
14. Display sponsors starting with S.
15. Select the branch with total number of participations in ascending order of count.
16. Select the participant names and their email address.
17. Select participants’ names who secured first position from the top 3 events in the Event table.
18. Select volunteers with names starting with B.
19. Display the following details of volunteers from MSc IT programme
    a. Student ID
    b. Student name
    c. Programme
    d. Designation
20. Select all the Security members.
21. Display total count of distinct Student roles.
22. Count the total number of Second positions.
23. Display all the Event Name and Event Type which are hosted in CEP Block.
24. Select all the Student IDs of Designers.
25. Display the count of participating colleges whose name starts with A.
26. Display the following participants details
    a. Registration ID
    b. Name
    c. Branch
    d. Student ID
    e. Email Address
27. Display the Member Names from the Management Committee of Literature event.

28. Select the following details of Fest Organising Committee members
    a. Student ID
    b. Student Name
    c. Designation

    Where the Programme is Btech.
29. Display the following details for Student IDs: 20221220, 20221224, 20221228
    a. Student Name
    b. Event Name
    c. Position
30. Select names of Male volunteers.
31. Select the following details from the Fest Organising Committee
    a. Member name
    b. Programme
    c. Designation

    And sort them in ascending order w.r.t member name.
32. Display all the participating Medical Sciences colleges.
33. Display the names of all the students who secured first position.
34. Display the name and email address of participants from Btech.
35. Select the following details
    a. Student ID
    b. Student name
    c. Event name

    Who are from MSc branch and secured first position
36. Display the total number of events hosted on date 12-11-2022.
37. Display the number of each event type.
38. Select the following details
    a. Fest name
    b. Venue
    c. Schedule

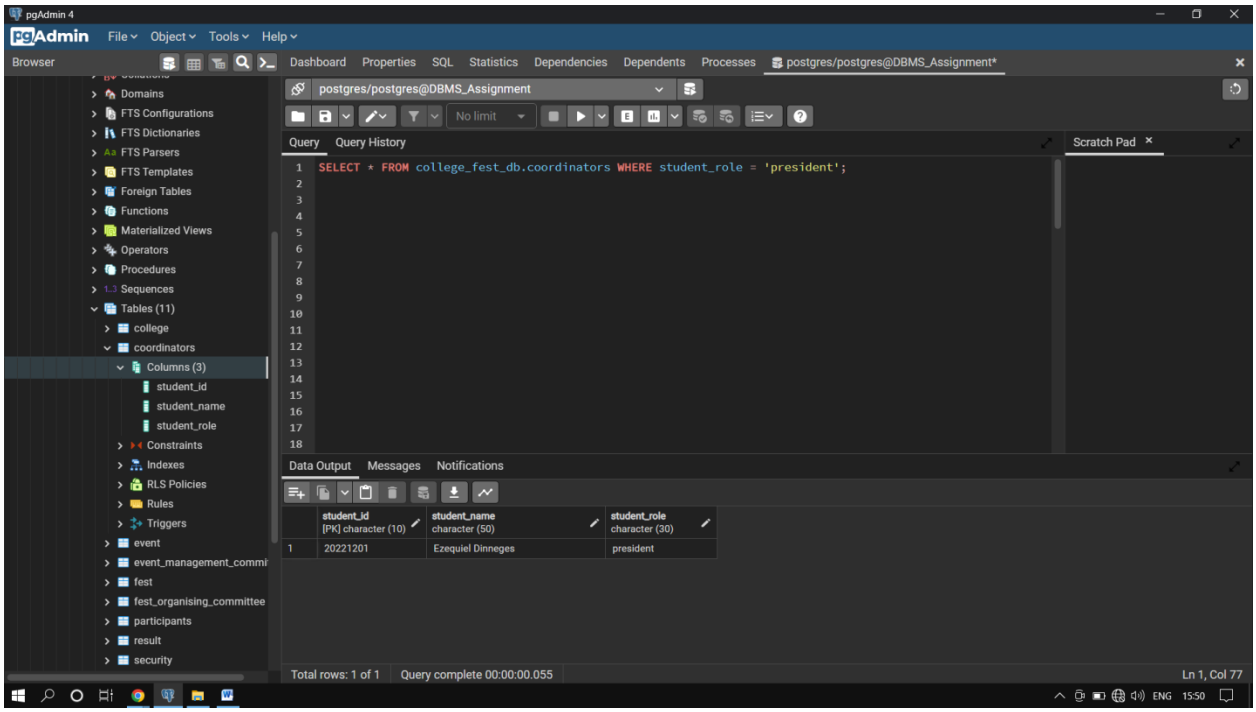
    Where fest theme is Retro.
39. Select the following details
    a. Event name
    b. Member name

    For events that were hosted on Open Air Theatre.
40. Display the following details
    a. Event venue
    b. Event name
    c. Event type

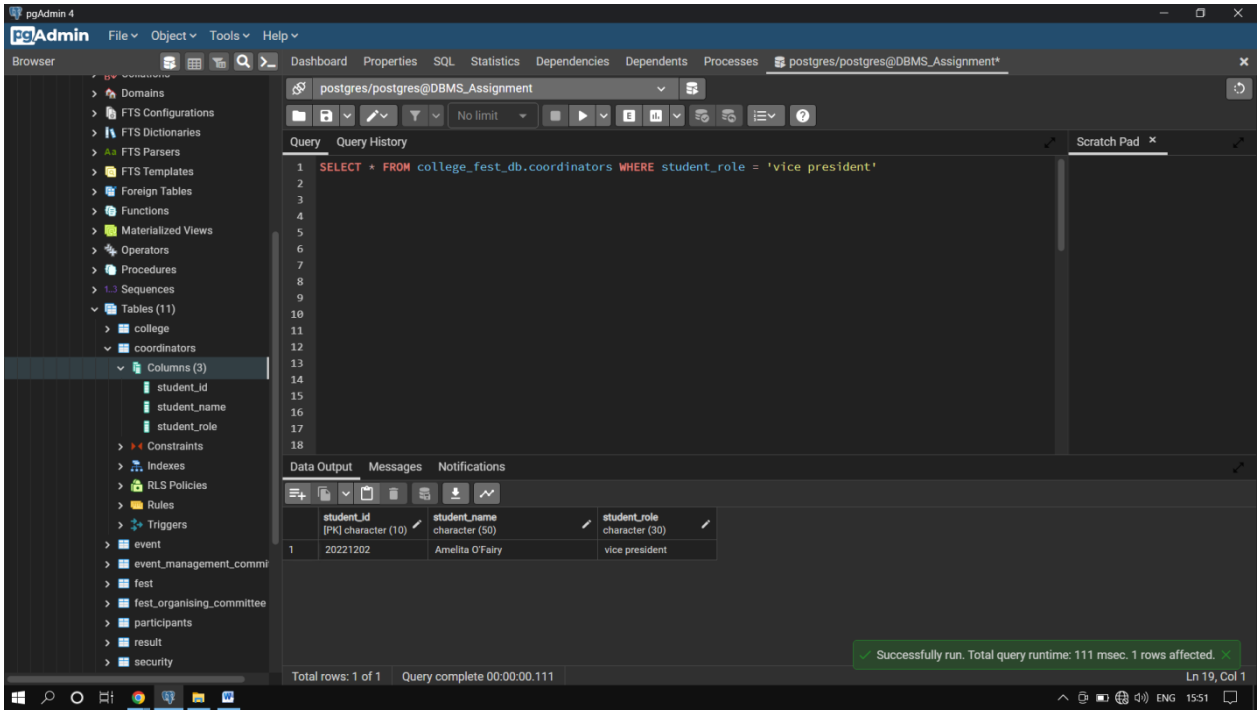
    Of event that are of type
        a. Fun
        b. OAT Event
        c. Outdoor games

List of SQL queries:

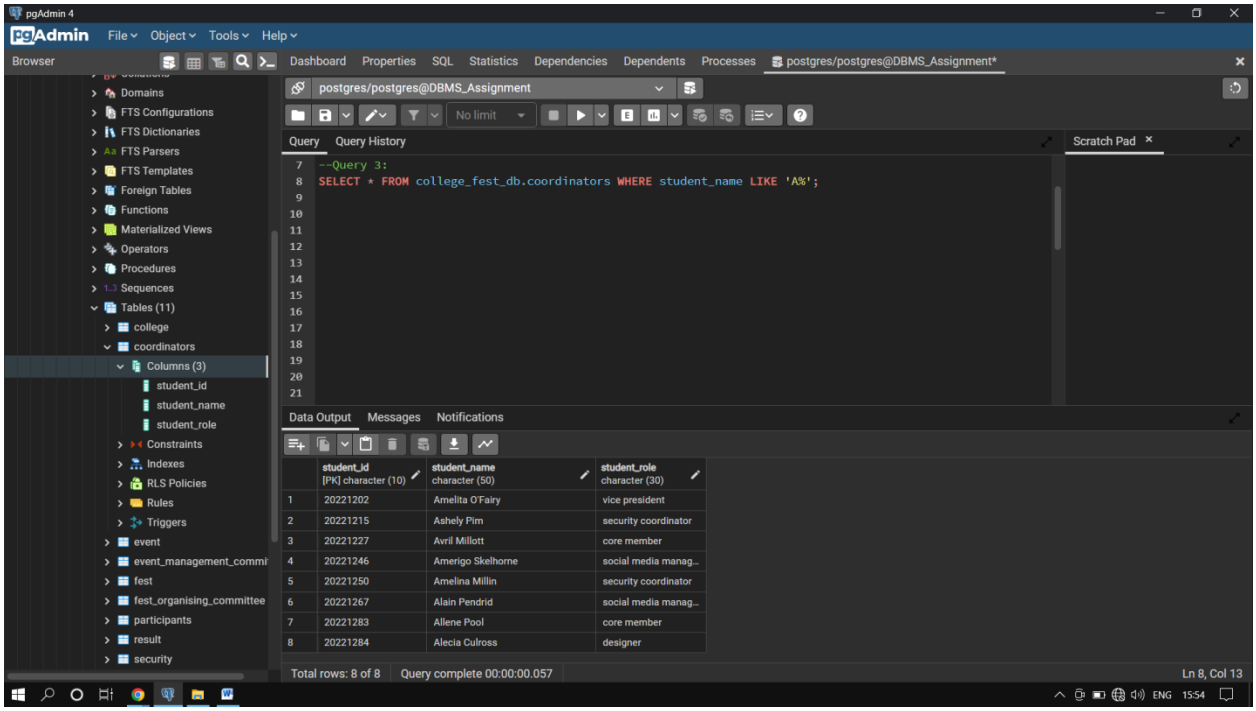
1. English query: To display the President from the Co-ordinators.
   Query:
   SELECT * FROM college_fest_db.coordinators WHERE student_role = 'president';



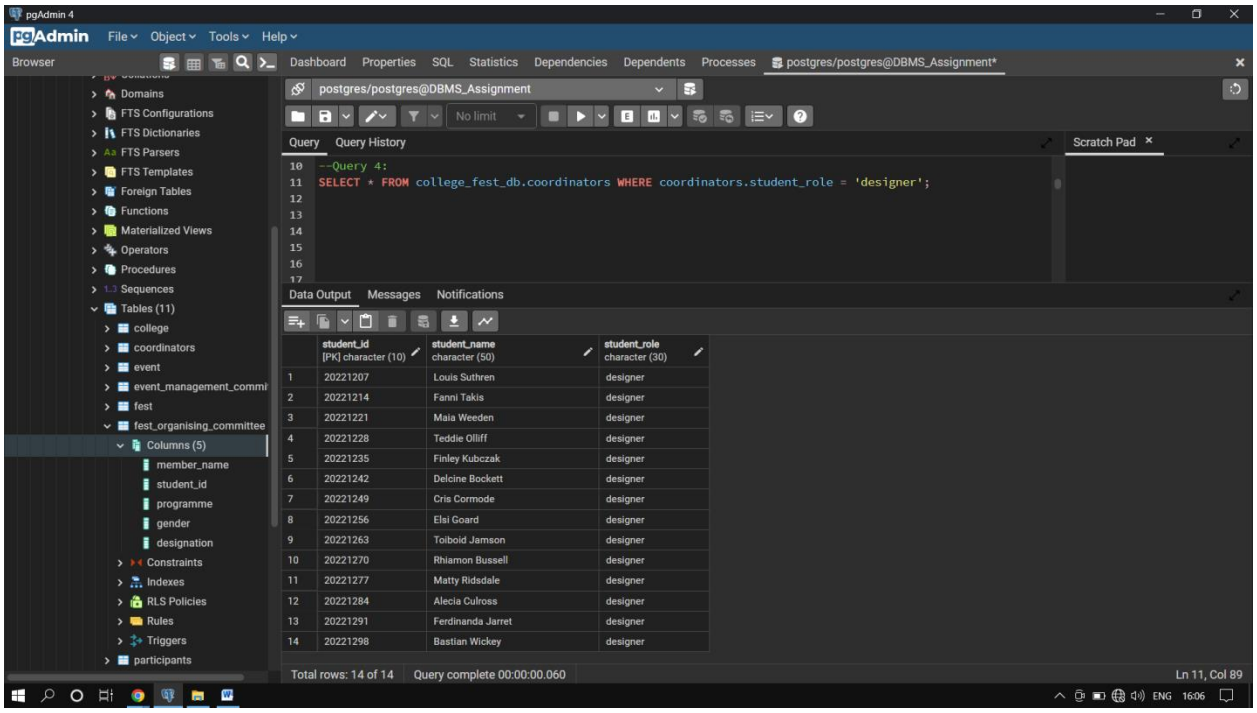
2. English query: To display the Vice President from the Co-ordinators.
   Query:
   SELECT * FROM college_fest_db.coordinators WHERE student_role = 'vice president';



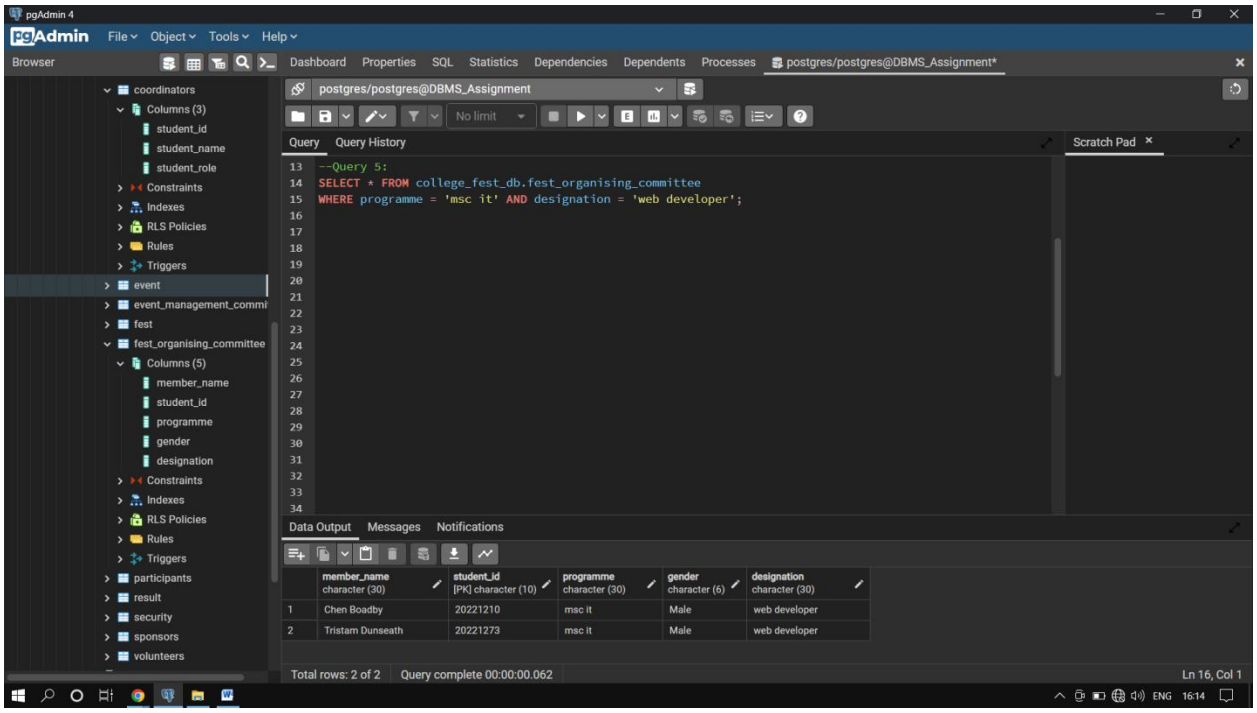
3. English query: List all the o-ordinators whose names start with ‘A’.
   Query:
   SELECT * FROM college_fest_db.coordinators WHERE student_name LIKE 'A%';



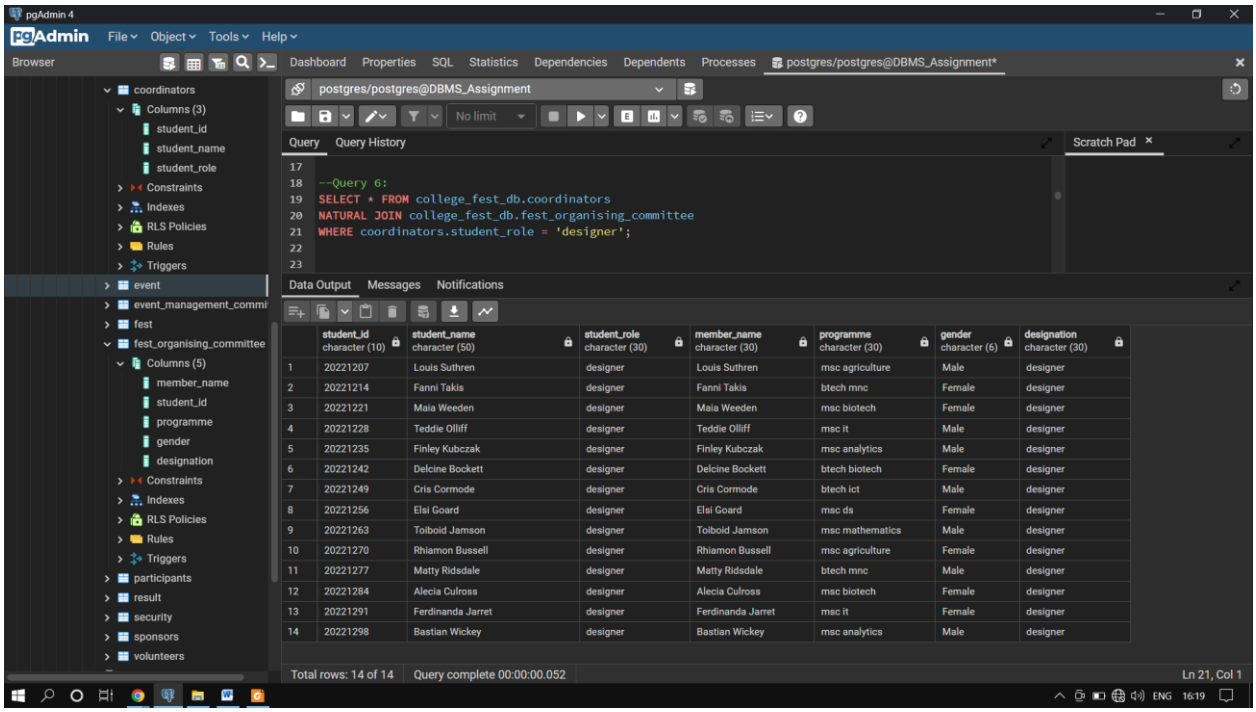
4. English query: Select all the designers.
   Query: SELECT * FROM college_fest_db.coordinators WHERE coordinators.student_role = 'designer';



5. English query: Select all the Web Developers who are from MSc IT course.
   Query: SELECT * FROM college_fest_db.fest_organising_committee WHERE programme = 'msc it' AND designation = 'web developer';

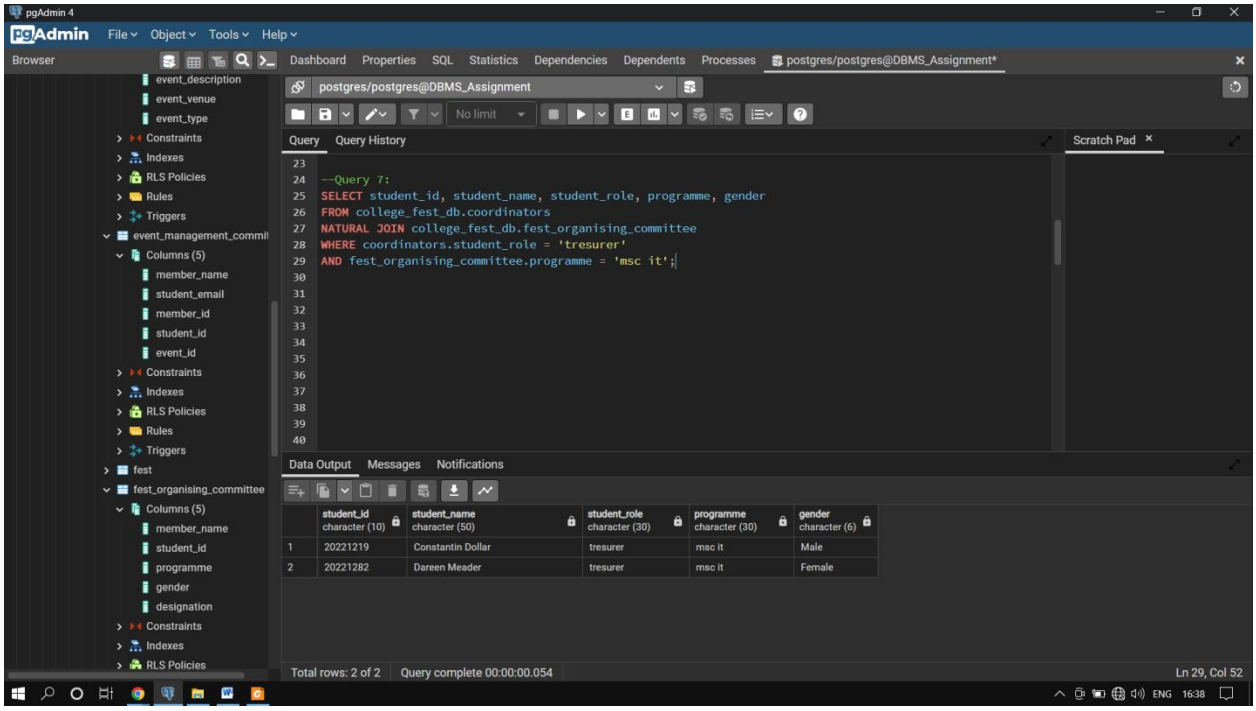


6. English query: Select all the designers who are female.
   Query:
   SELECT * FROM college_fest_db.coordinators NATURAL JOIN college_fest_db.fest_organising_committee WHERE coordinators.student_role = 'designer';

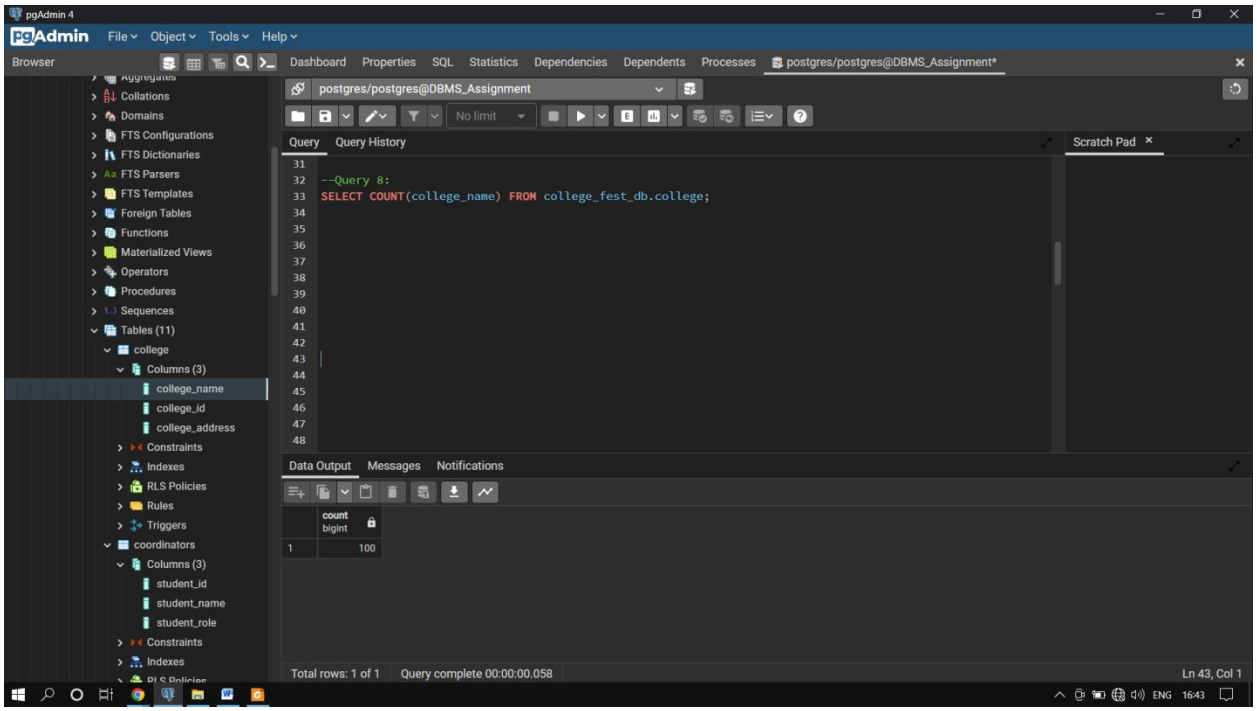


	student_id character (10)	student_name character (50)	student_role character (30)	member_name character (30)	programme character (30)	gender character (6)	designation character (30)
1	20221207	Louis Suthren	designer	Louis Suthren	msc agriculture	Male	designer
2	20221214	Fanni Takis	designer	Fanni Takis	btech mnc	Female	designer
3	20221221	Maia Weeden	designer	Maia Weeden	msc biotech	Female	designer
4	20221228	Teddie Olliff	designer	Teddie Olliff	msc it	Male	designer
5	20221235	Finley Kubczak	designer	Finley Kubczak	msc analytics	Male	designer
6	20221242	Delcine Bockett	designer	Delcine Bockett	btech biotech	Female	designer
7	20221249	Cris Cormode	designer	Cris Cormode	btech ict	Male	designer
8	20221256	Elsi Goard	designer	Elsi Goard	msc ds	Female	designer
9	20221263	Toiboid Jamson	designer	Toiboid Jamson	msc mathematics	Male	designer
10	20221270	Rhiamon Bussell	designer	Rhiamon Bussell	msc agriculture	Female	designer
11	20221277	Matty Ridsdale	designer	Matty Ridsdale	btech mnc	Male	designer
12	20221284	Alecia Culross	designer	Alecia Culross	msc biotech	Female	designer
13	20221291	Ferdinanda Jarret	designer	Ferdinanda Jarret	msc it	Female	designer
14	20221298	Bastian Wickey	designer	Bastian Wickey	msc analytics	Male	designer

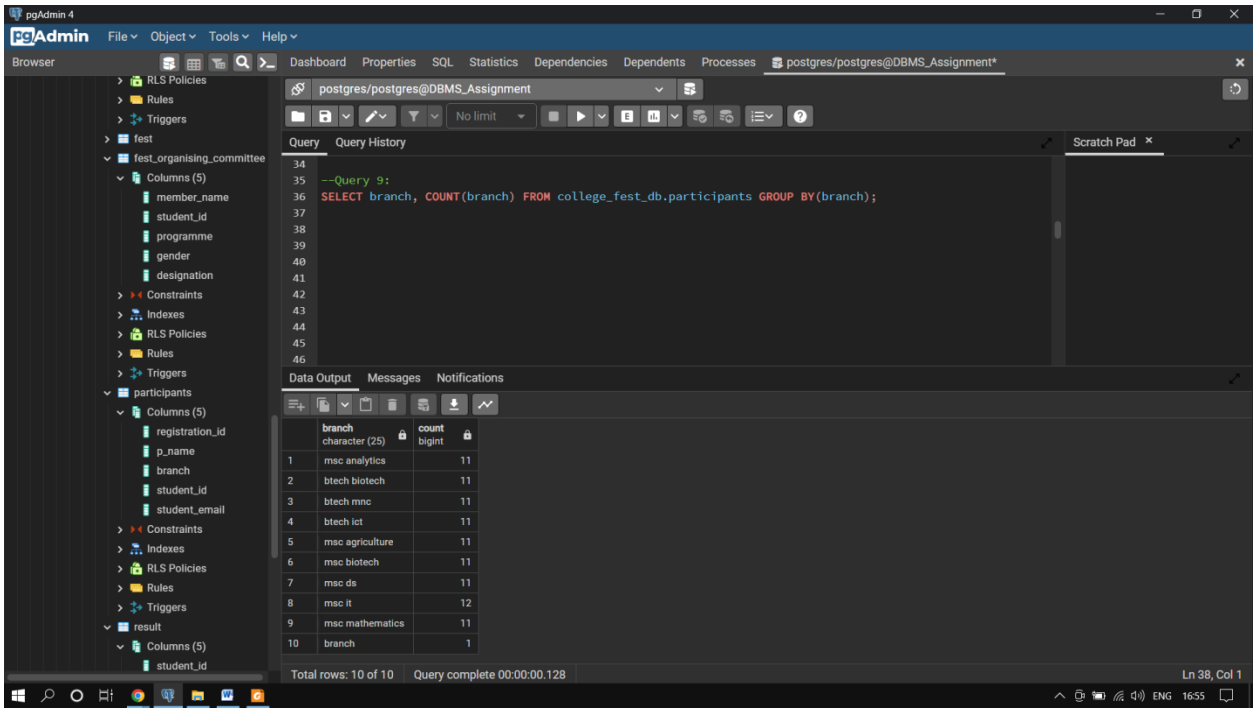
7. English query: Select personal information of students who have the role of Tresurer and are from MSc IT programme.
   Query:
   SELECT student_id, student_name, student_role, programme, gender
   FROM college_fest_db.coordinators
   NATURAL JOIN college_fest_db.fest_organising_committee
   WHERE coordinators.student_role = 'tresurer'
   AND fest_organising_committee.programme = 'msc it';



8. English query: Count the total number of participating colleges.
   Query: SELECT COUNT(college_name) FROM college_fest_db.college;



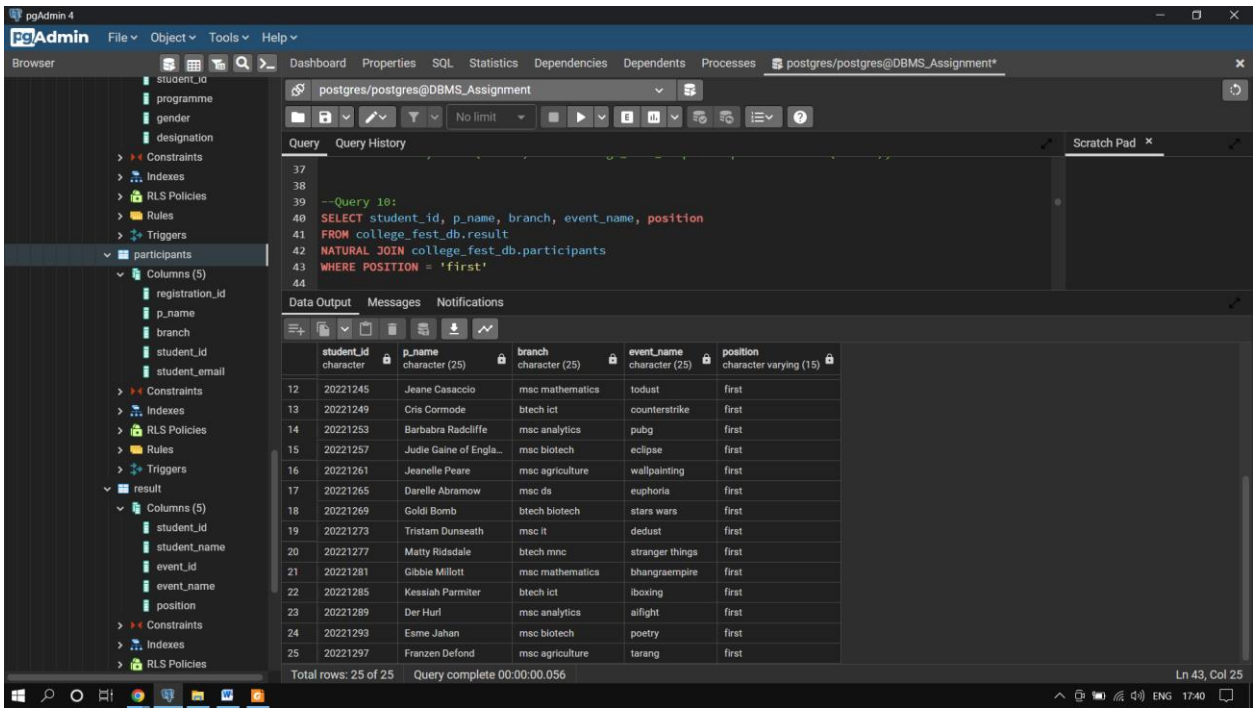
9. English query: Count the total number of participants from each branch.
   Query:
   SELECT branch, COUNT(branch) FROM college_fest_db.participants GROUP BY(branch);



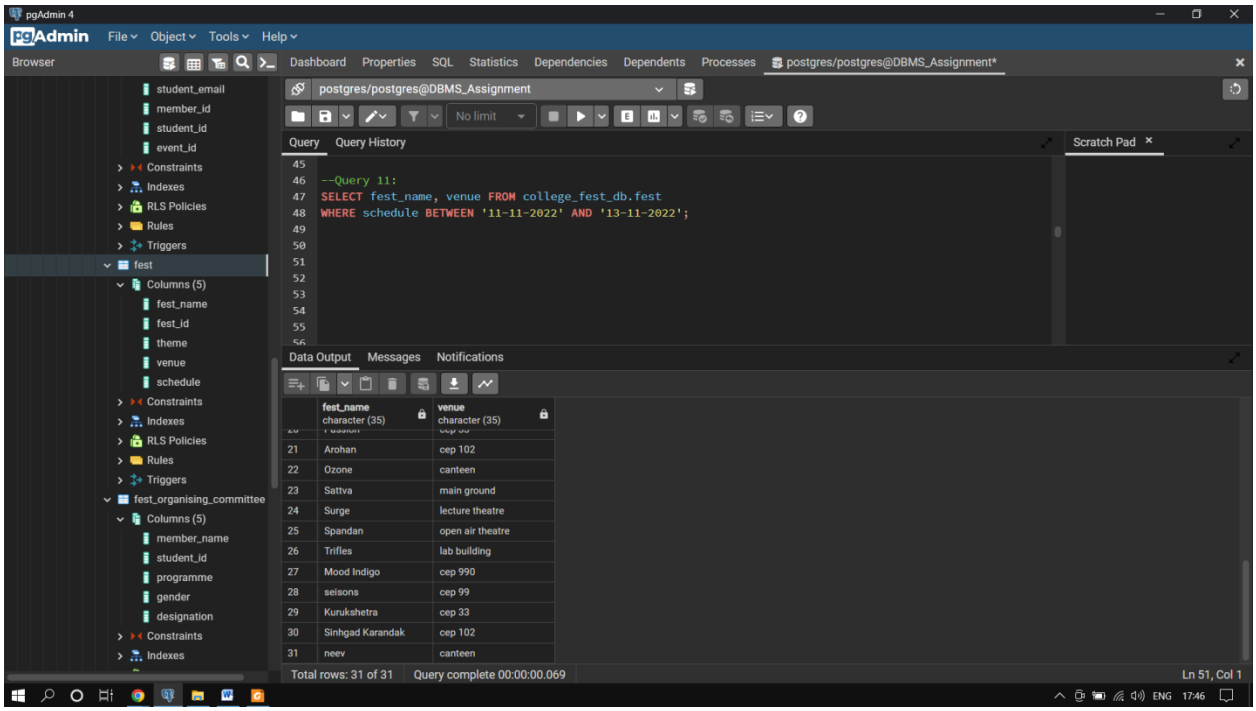
10. English query: Display the following details
    a. Student id
    b. Student name
    c. Branch
    d. Event name
    e. Position

Of participants who secured first position.

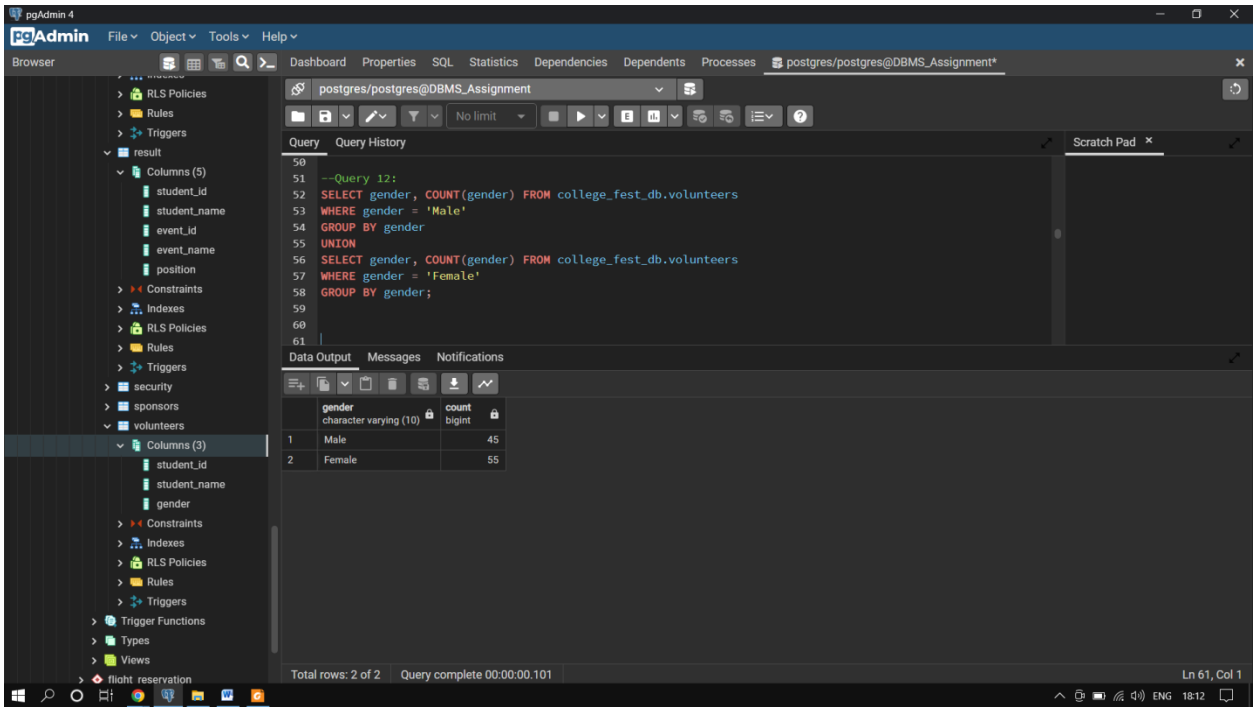
Query: SELECT student_id, p_name, branch, event_name, position
FROM college_fest_db.result
NATURAL JOIN college_fest_db.participants
WHERE POSITION = 'first';



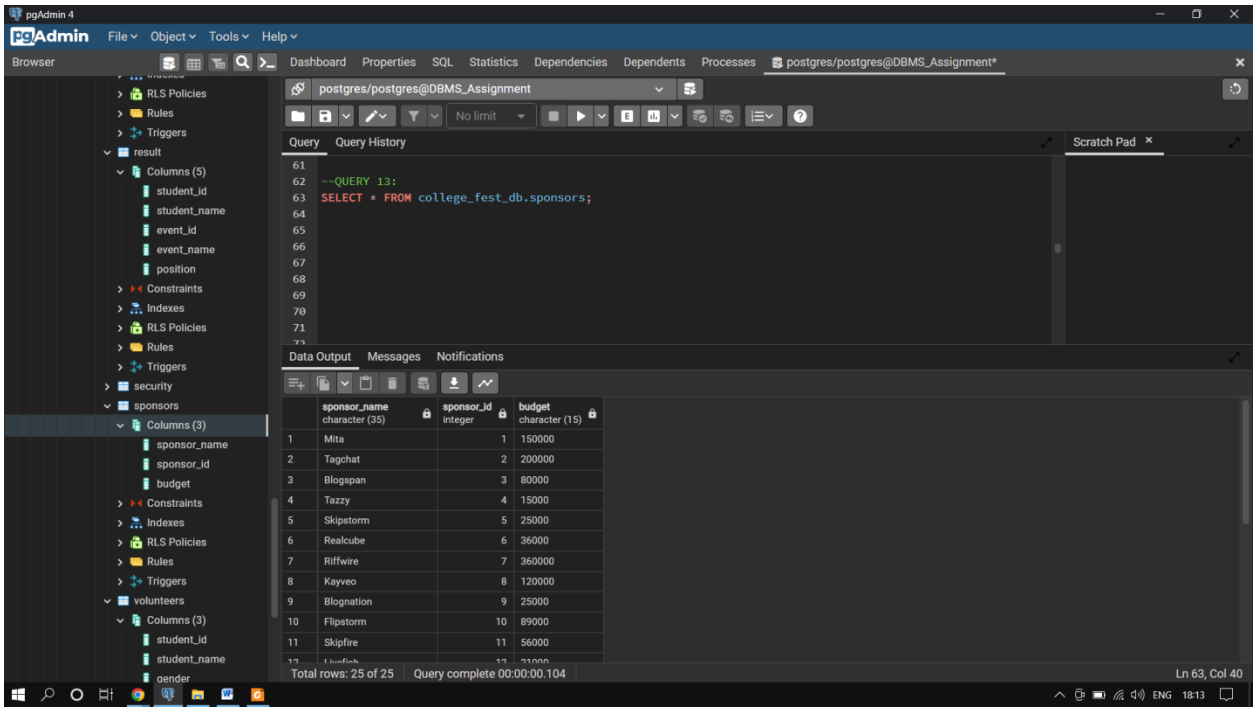
11. English query: Display name and venue of all the fests that are between dates 11-11-2022 and 13-11-2022
    Query:
    SELECT * FROM college_fest_db.fest
    WHERE schedule BETWEEN '11-11-2022' AND '13-11-2022';



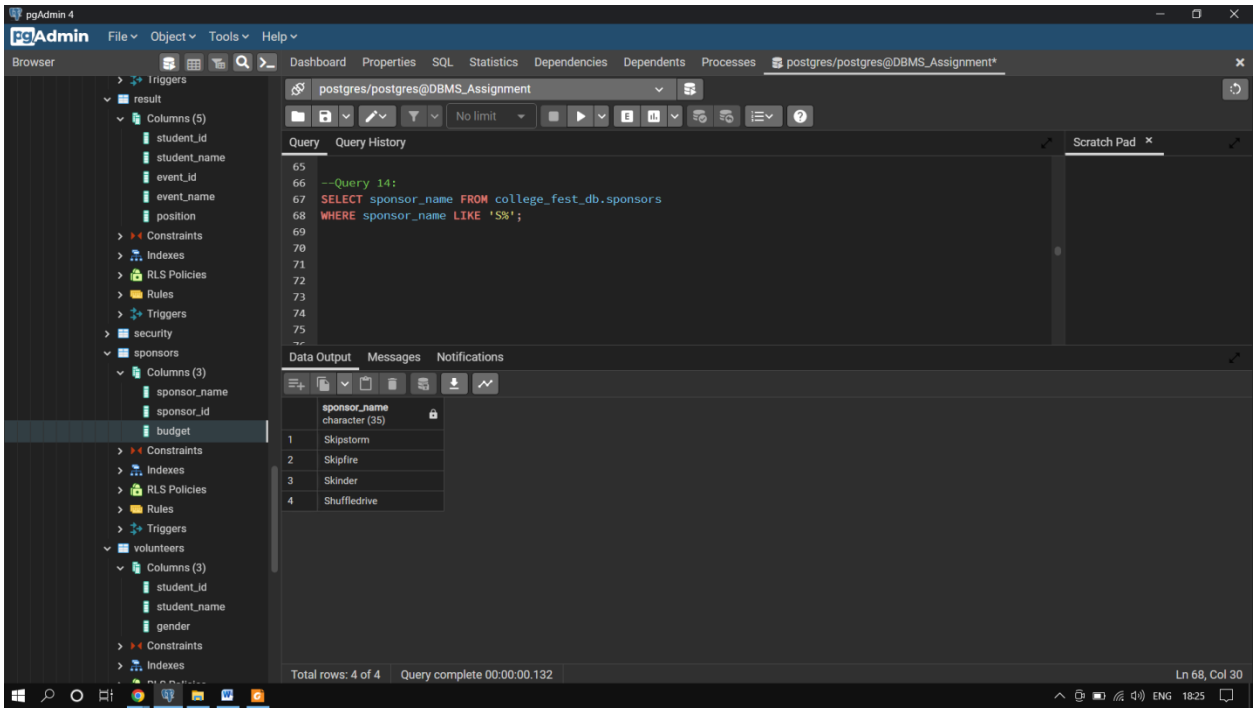
12. English query: Display the count of Male and Female volunteers
    Query:
    SELECT COUNT(gender) FROM college_fest_db.volunteers
    WHERE gender = 'Male'
    UNION
    SELECT COUNT(gender) FROM college_fest_db.volunteers
    WHERE gender = 'Female';



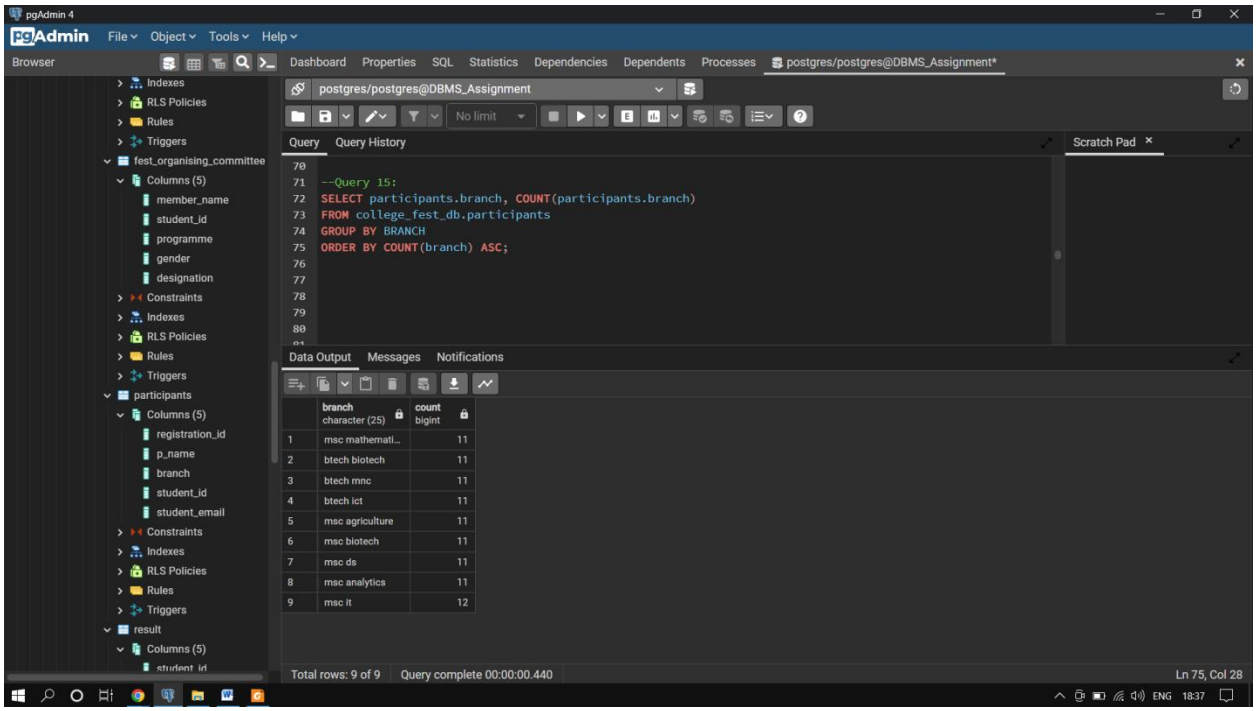
13. English query: Display all the sponsors.
    Query: SELECT * FROM college_fest_db.sponsors;



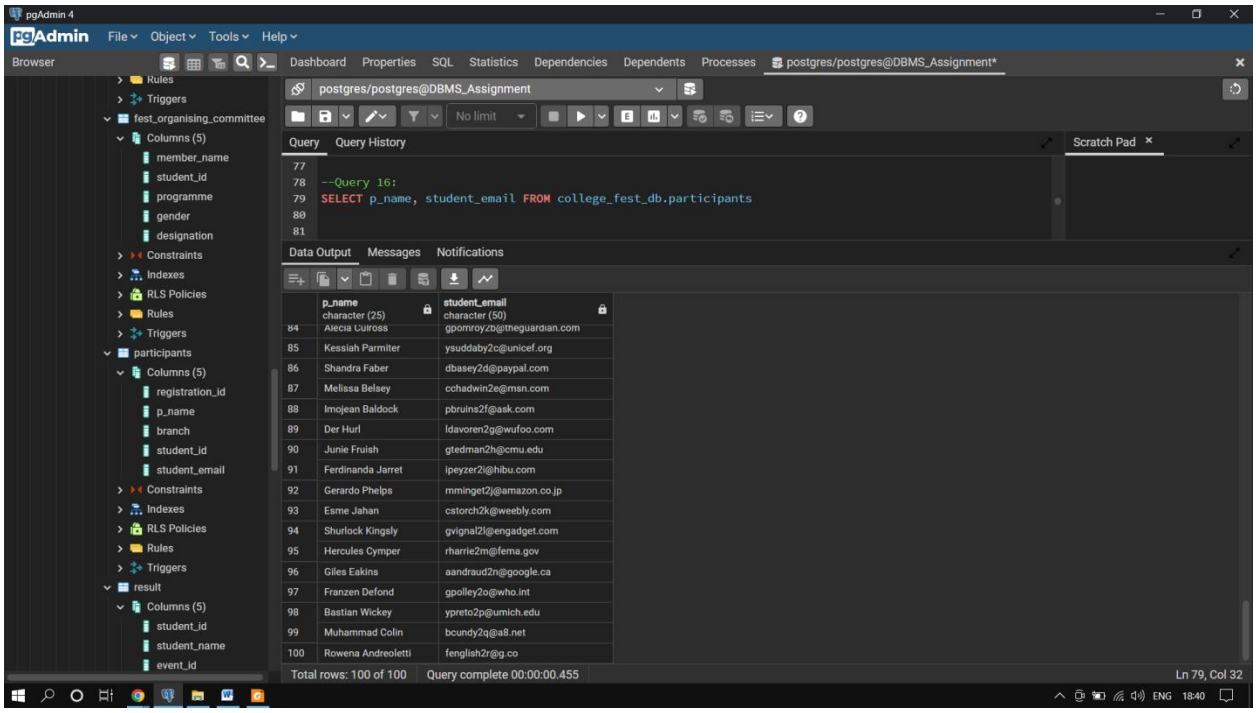
14. English query: Display sponsors starting with S.
    Query:
    SELECT sponsor_name FROM college_fest_db.sponsors
    WHERE sponsor_name LIKE 'S%';



15. English query: Select the branch with total number of participations in ascending order of count.
    Query:
    SELECT participants.branch, COUNT(participants.branch)
    FROM college_fest_db.participants
    GROUP BY BRANCH
    ORDER BY COUNT(branch) ASC;

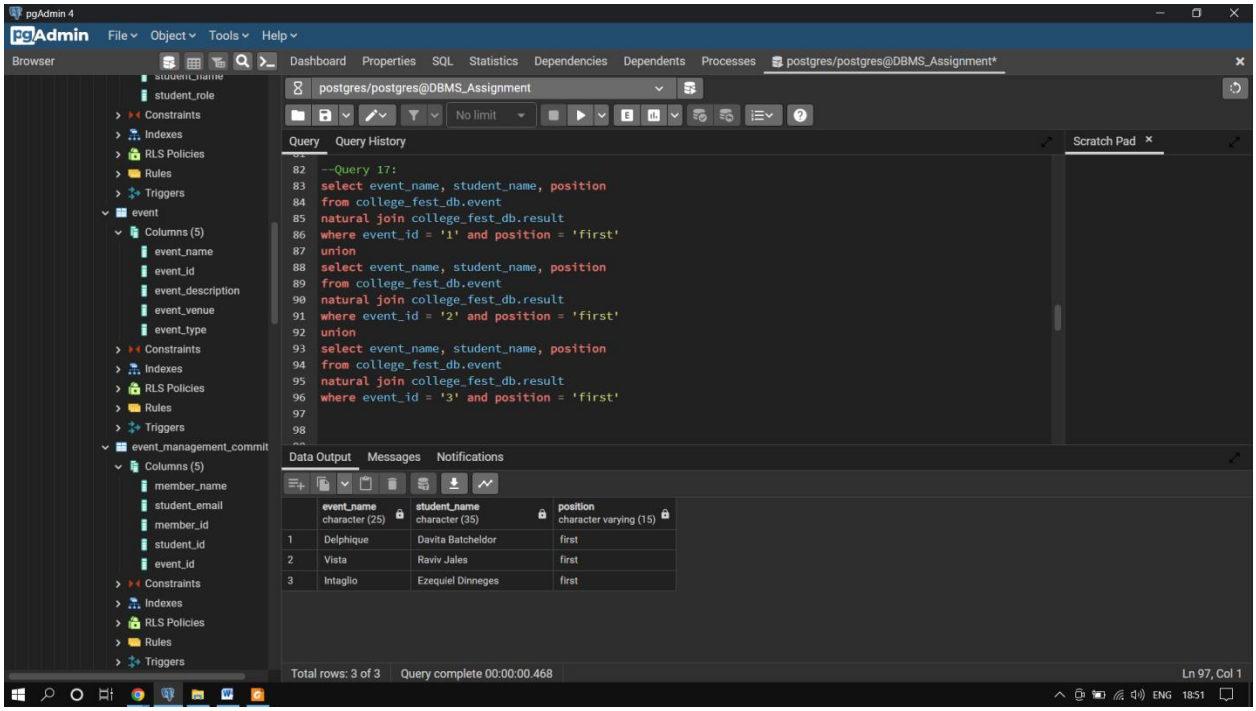


16. English query: Select the participant names and their email address.
    Query:
    SELECT p_name, student_email FROM college_fest_db.participants;

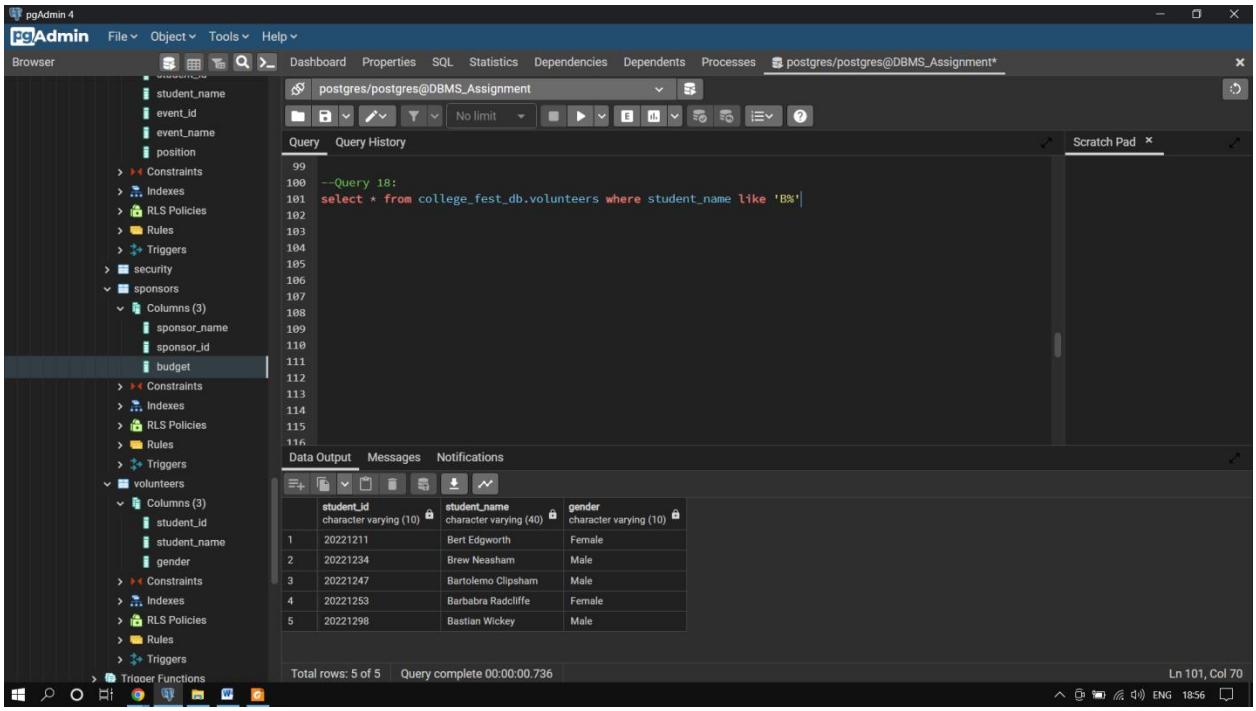


17. English query: Select participants' names who secured first position from the top 3 events in the Event table.
    Query:

```
select event_name, student_name, position
from college_fest_db.event
natural join college_fest_db.result
where event_id = '1' and position = 'first'
union
select event_name, student_name, position
from college_fest_db.event
natural join college_fest_db.result
where event_id = '2' and position = 'first'
union
select event_name, student_name, position
from college_fest_db.event
natural join college_fest_db.result
where event_id = '3' and position = 'first';
```



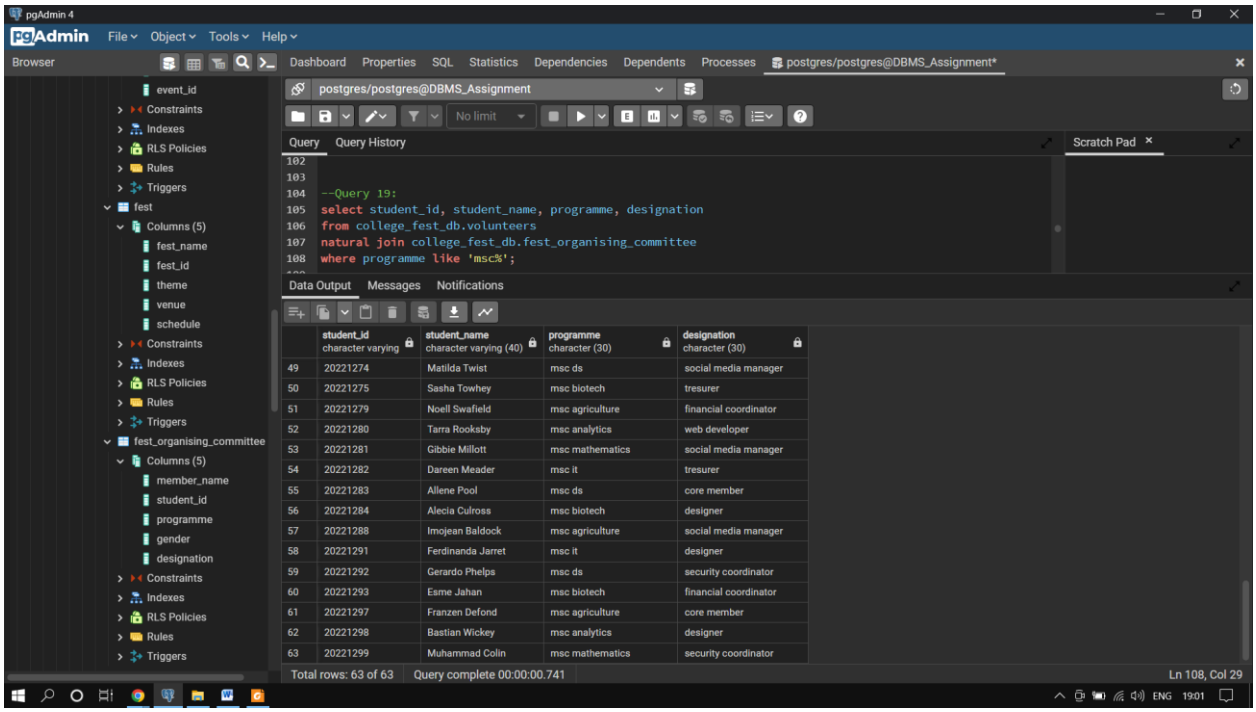
18. English query: Select volunteers with names starting with B
    Query: select * from college_fest_db.volunteers where student_name like 'B%';



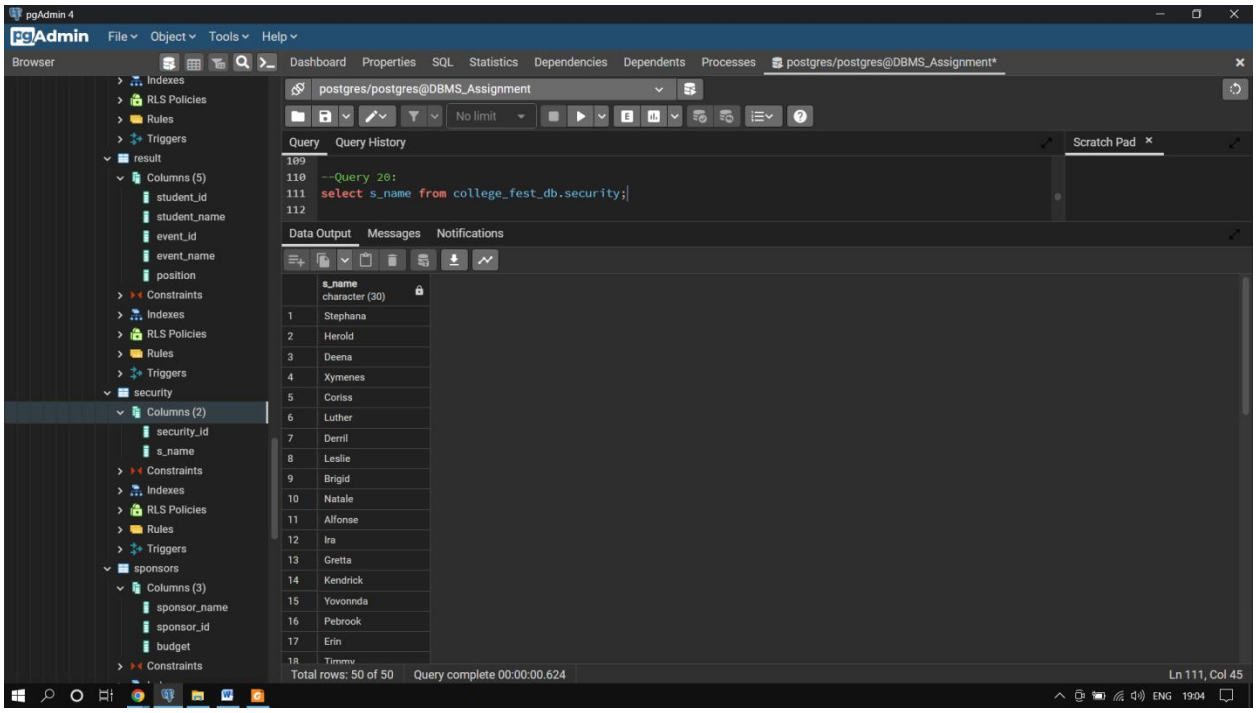
19. English query: Display the following details of volunteers from MSc IT programme
    a. Student ID
    b. Student name
    c. Programme
    d. Designation

Query:

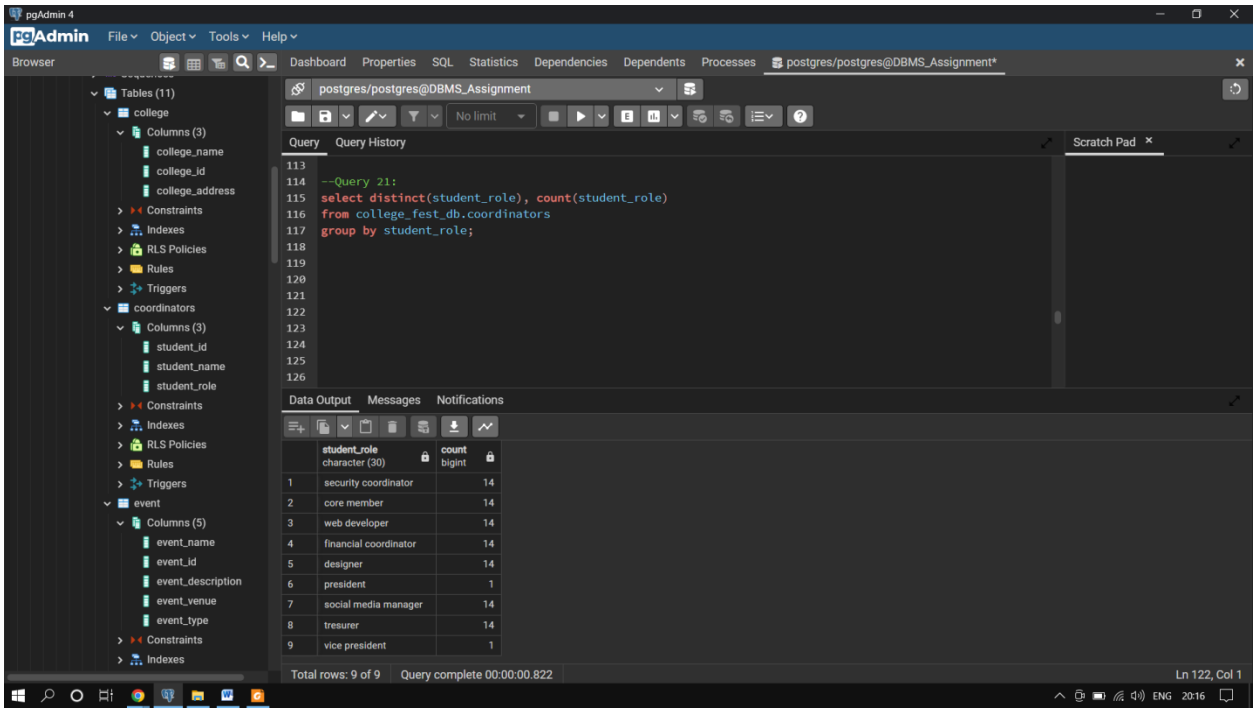
```
select student_id, student_name, programme, designation
from college_fest_db.volunteers
natural join college_fest_db.fest_organising_committee
where programme like 'msc%';
```



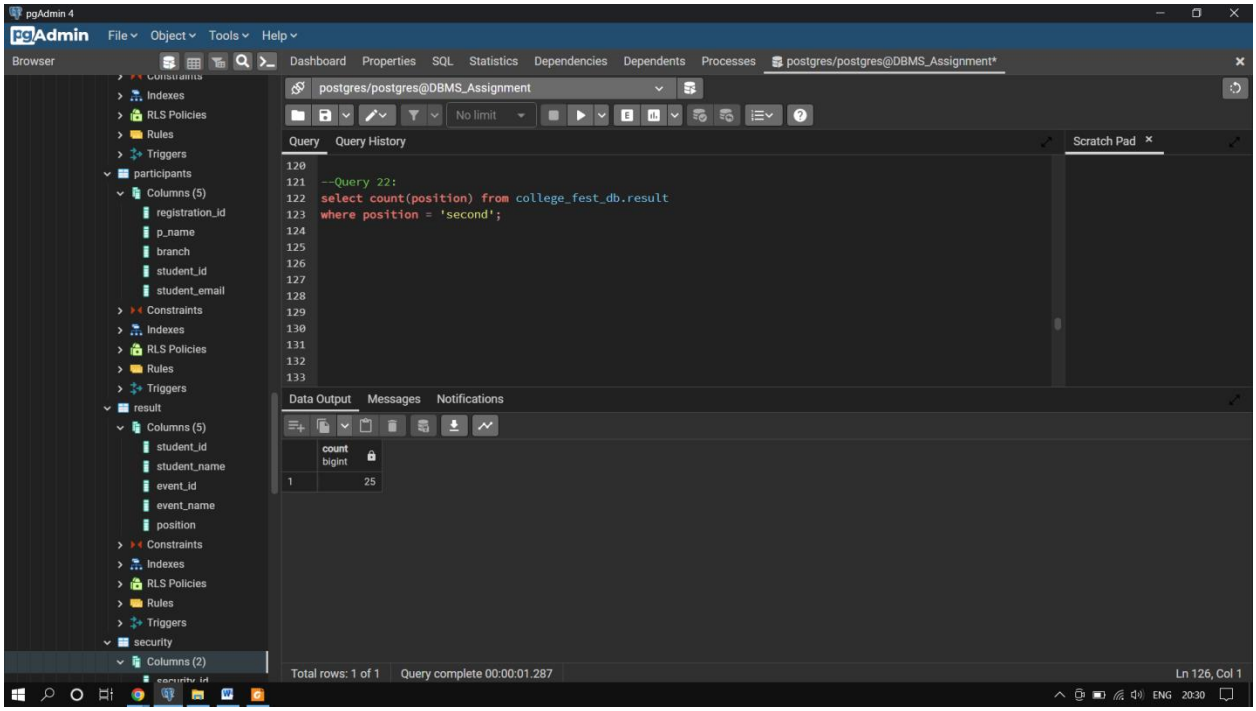
20. English query: Select all the Security members.
    Query:
    select s_name from college_fest_db.security;



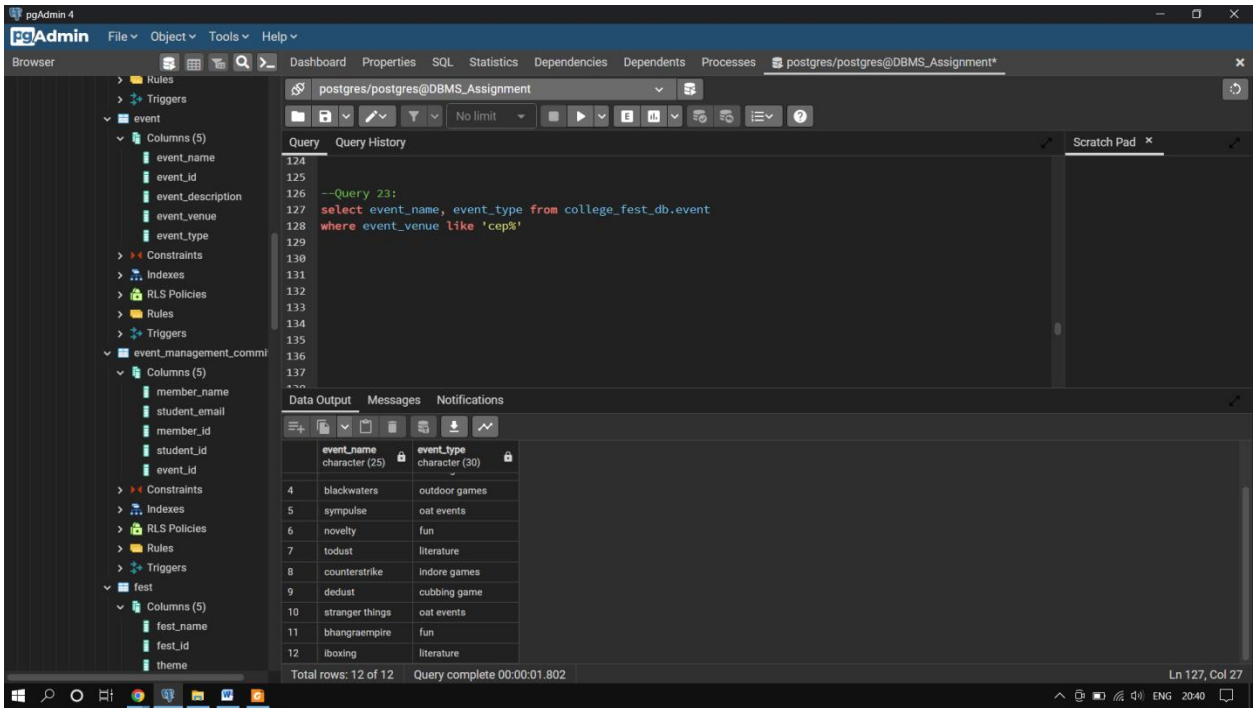
21. English query: Display total count of distinct Student roles.
    Query:
    select distinct(student_role), count(student_role)
    from college_fest_db.coordinators
    group by student_role;



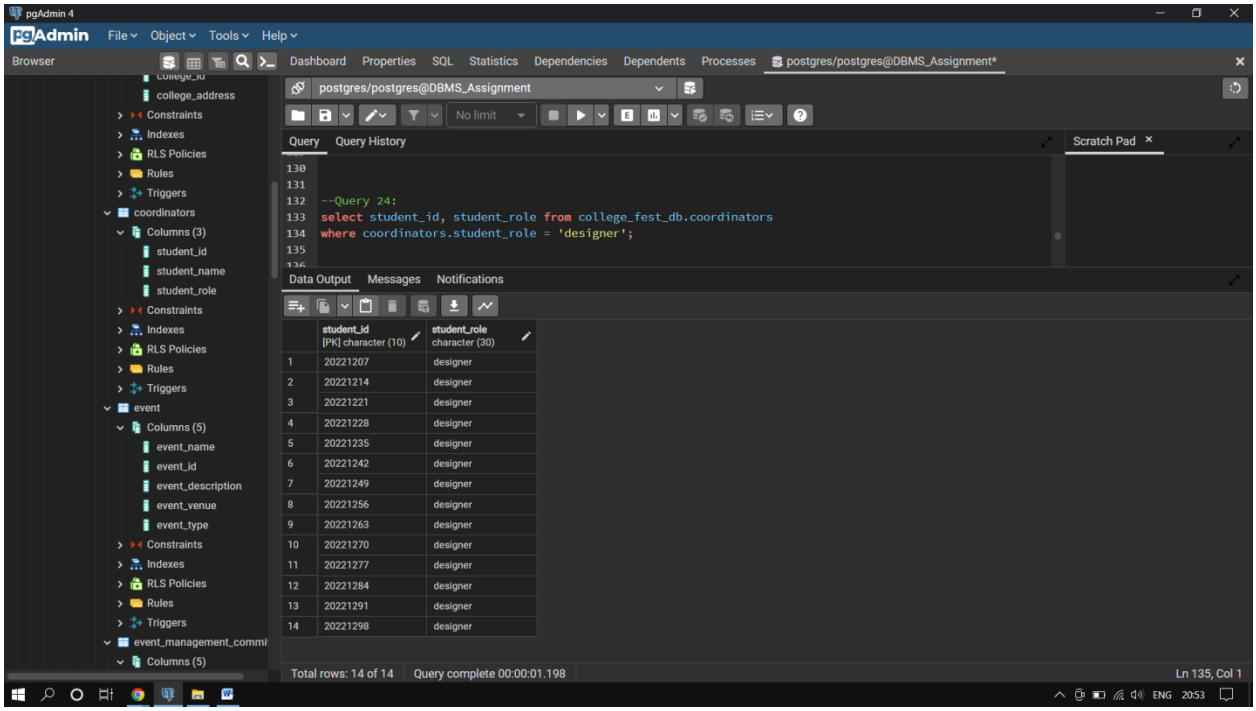
22. English query: Count the total number of Second positions
    Query:
    select count(position) from college_fest_db.result
    where position = 'second';



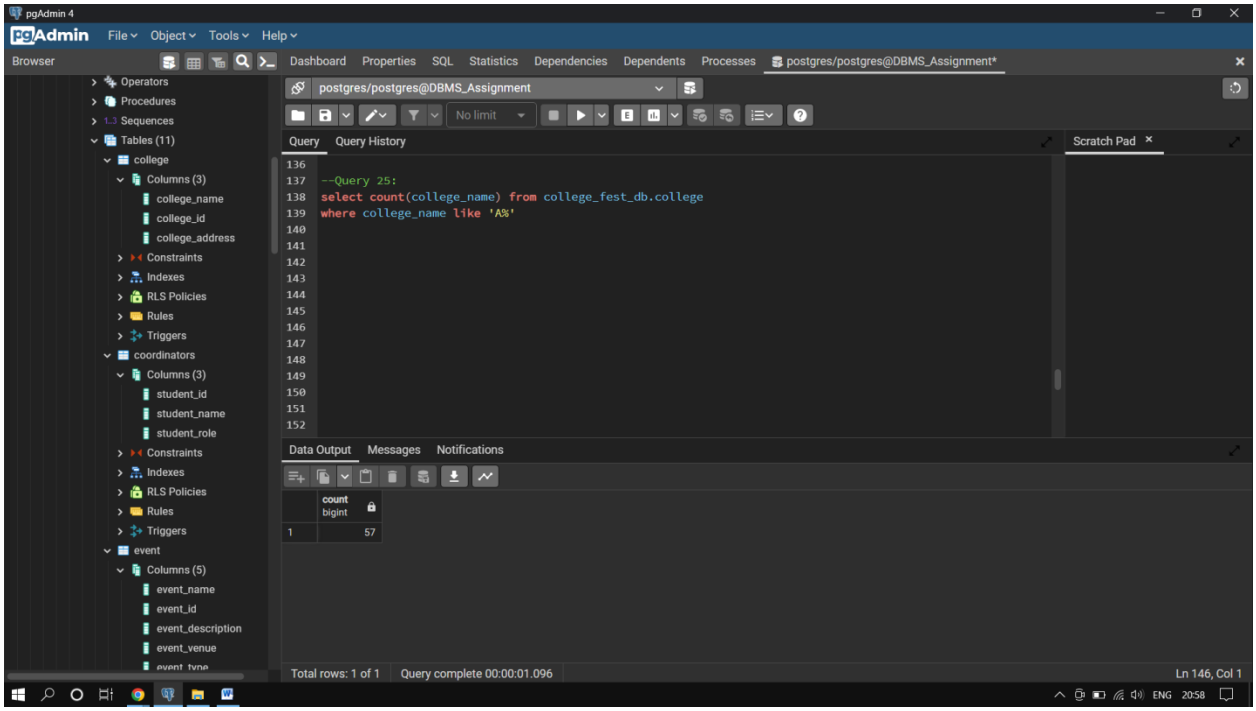
23. English query: Display all the Event Name and Event Type which are hosted in CEP Block.
    Query:
    select event_name, event_type from college_fest_db.event
    where event_venue like 'cep%';



24. English query: Select all the Student IDs of Designers
    Query:
    select student_id, student_role from college_fest_db.coordinators
    where coordinators.student_role = 'designer';



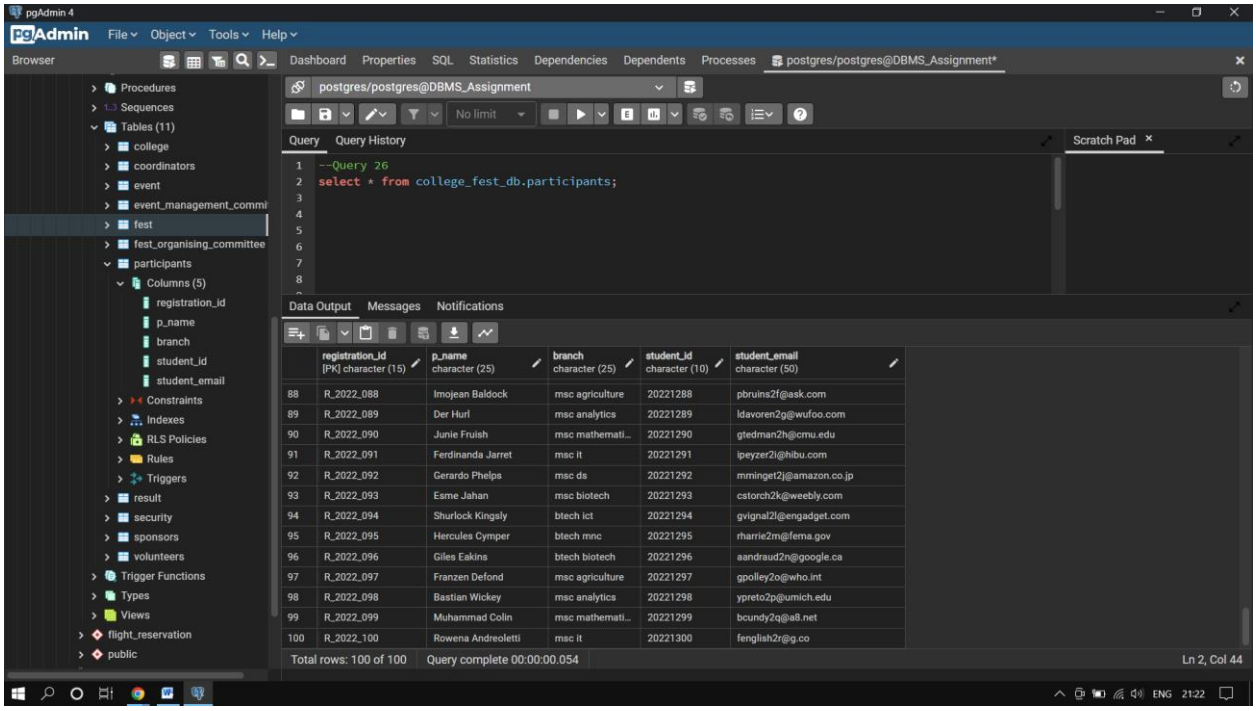
25. English query: Display the count of participating colleges whose name start with A.
    Query:
    select count(college_name) from college_fest_db.college
    where college_name like 'A%';



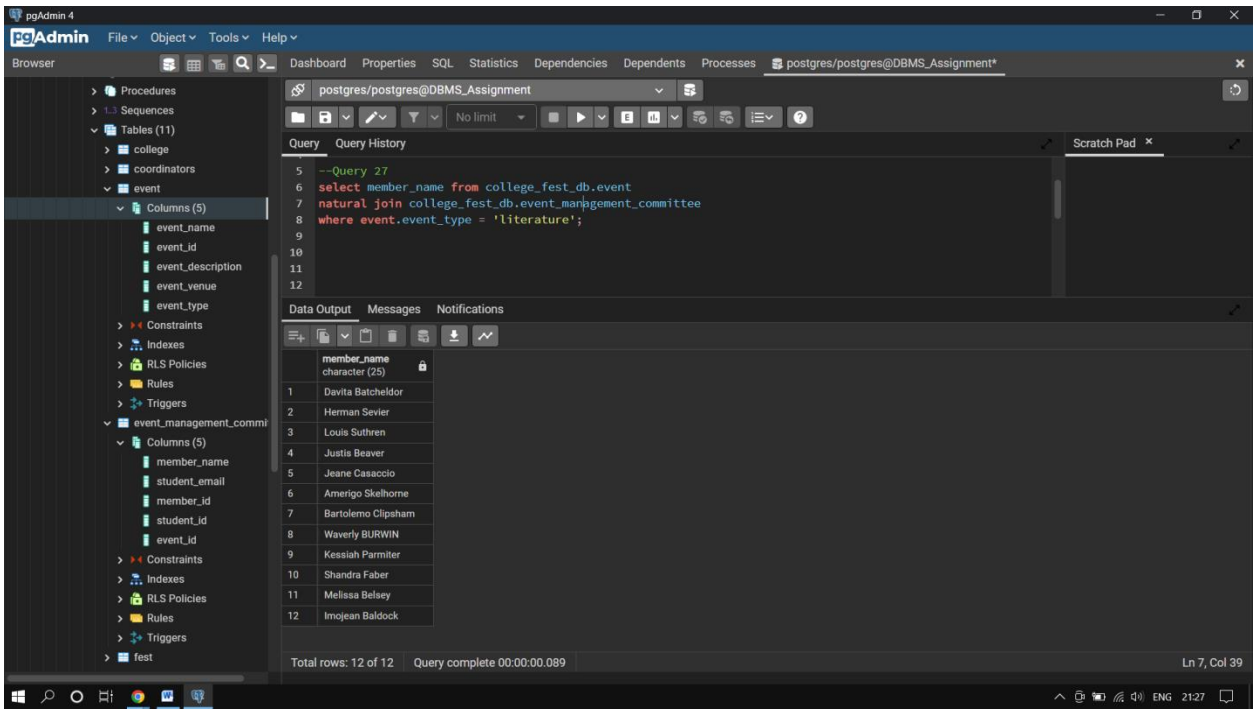
26. English query: Display the following participants details
    a. Registration ID
    b. Name
    c. Branch
    d. Student ID
    e. Email Address

Query:

```
select * from college_fest_db.participants;
```



27. English query: Display the Member Names from the Management Committee of Literature event.
    Query:
    select member_name from college_fest_db.event
    natural join college_fest_db.event_management_committee
    where event.event_type = 'literature';

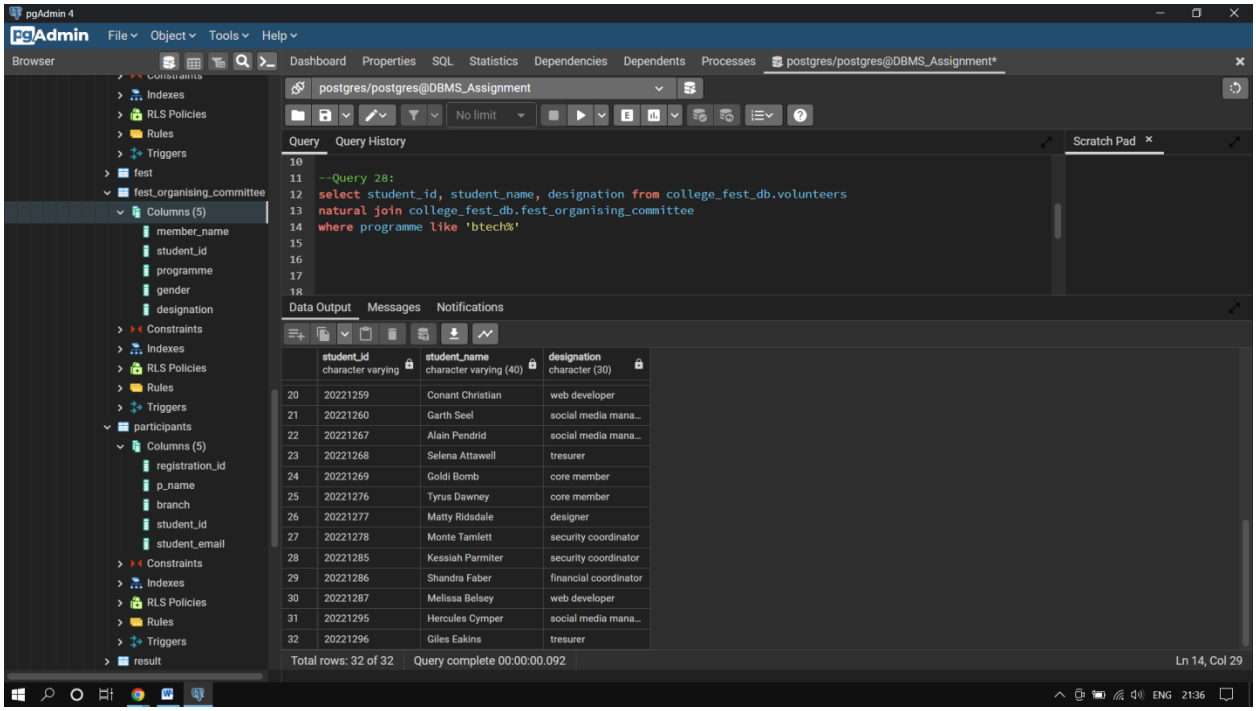


28. English query: Select the following detils of Fest Organising Committee members
    a. Student ID
    b. Student Name
    c. Designation

    Where the Programme is Btech.

    Query:

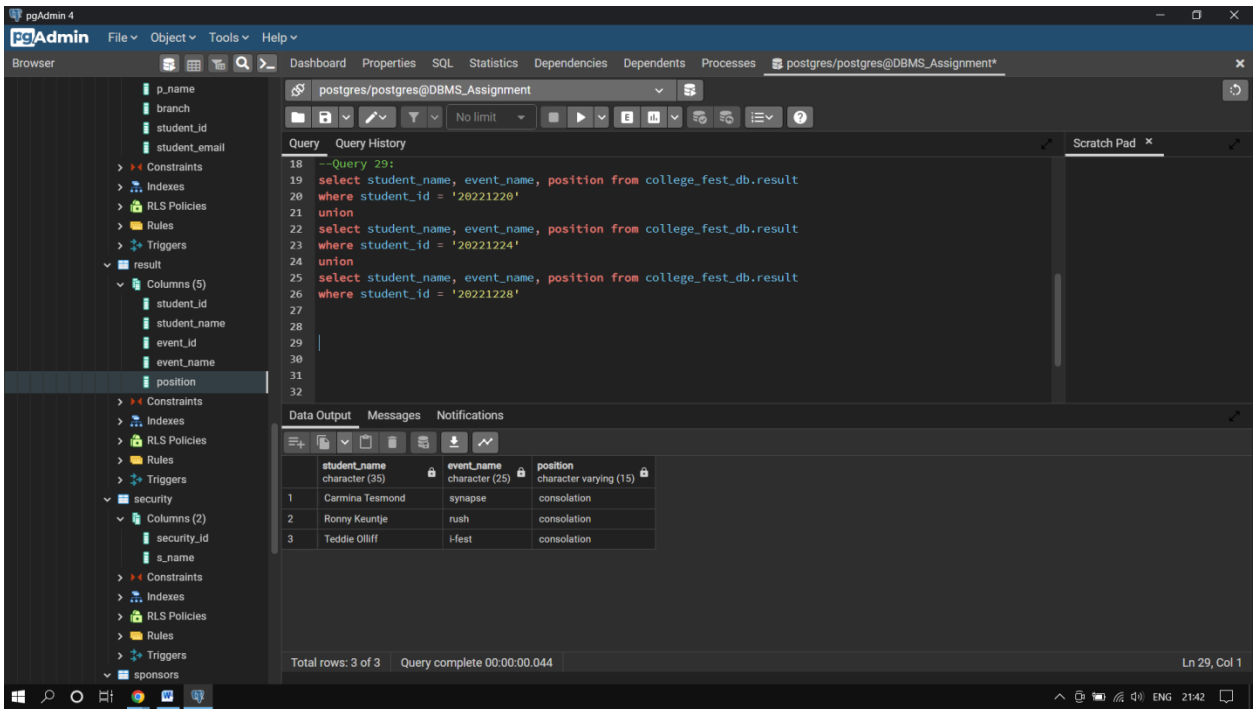
```
select student_id, student_name, designation from college_fest_db.volunteers
natural join college_fest_db.fest_organising_committee
where programme like 'btech%';
```



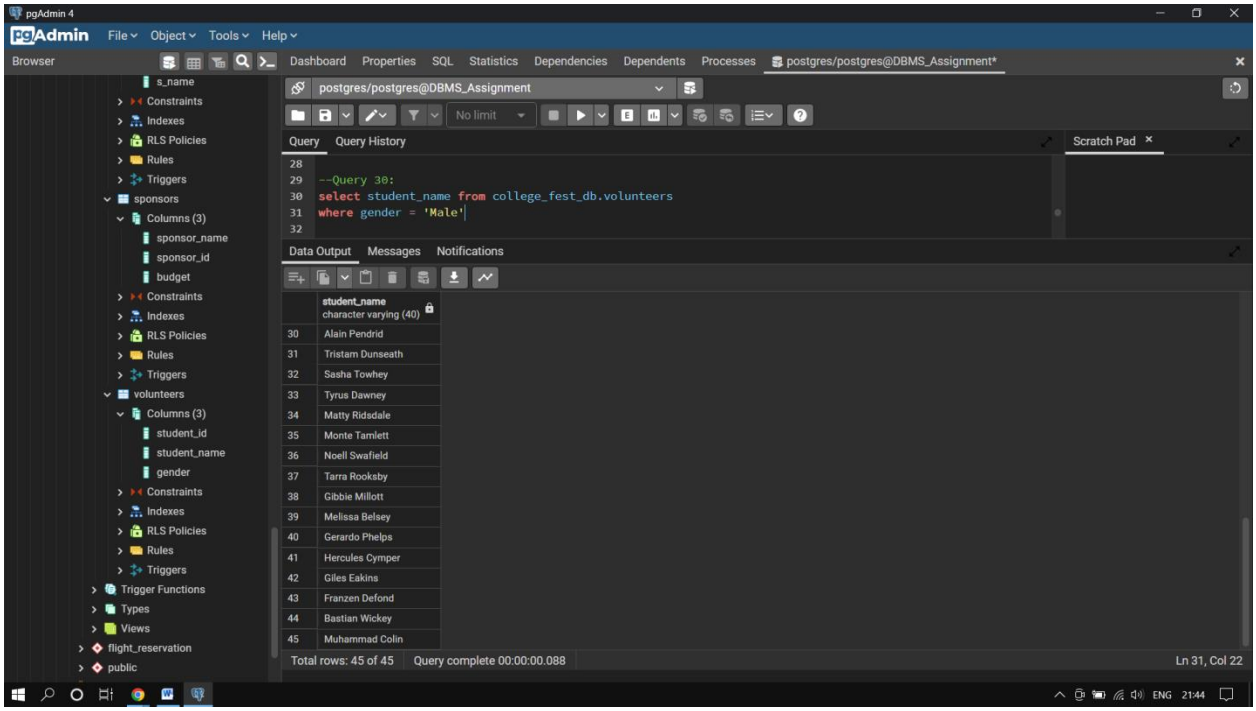
29. English query: Display the following details for Student IDs: 20221220, 20221224, 20221228
    a. Student Name
    b. Event Name
    c. Position

Query:

```
select student_name, event_name, position from college_fest_db.result
where student_id = '20221220'
union
select student_name, event_name, position from college_fest_db.result
where student_id = '20221224'
union
select student_name, event_name, position from college_fest_db.result
where student_id = '20221228';
```



30. English query: Select names of Male volunteers.
    Query:
    select student_name from college_fest_db.volunteers
    where gender = 'Male';

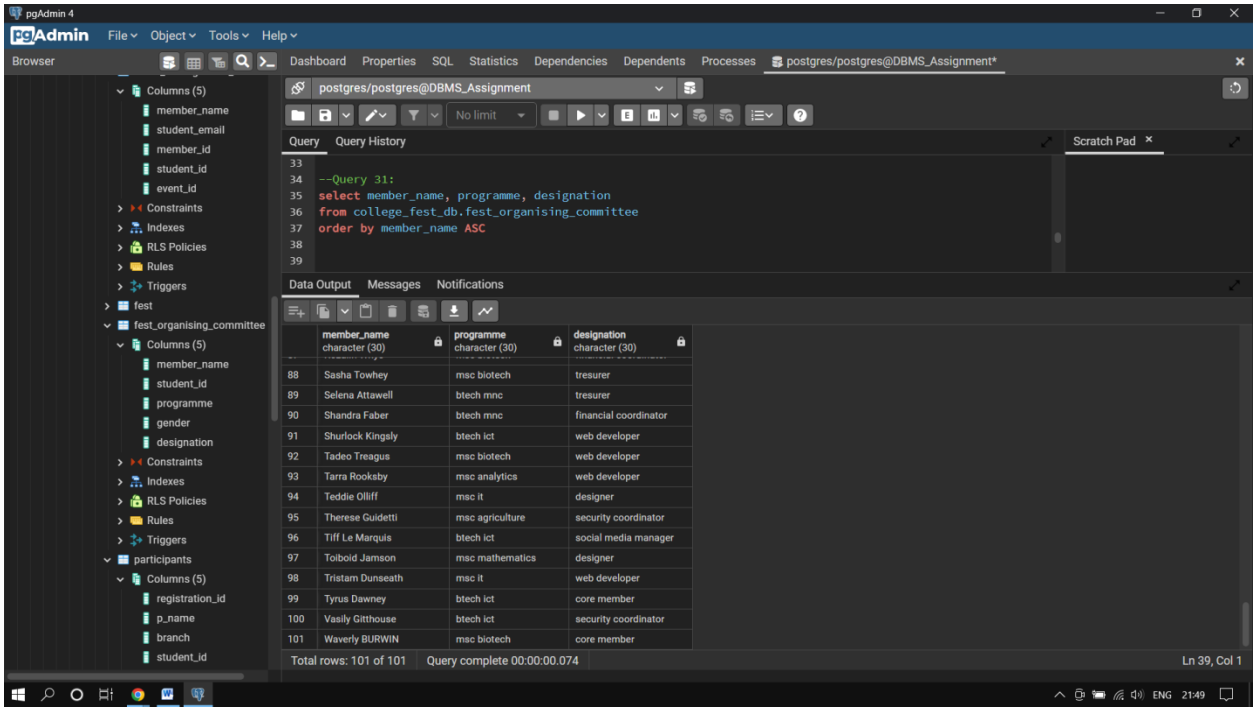


31. English query: Select the following details from the Fest Organising Committee
    a. Mamber name
    b. Programme
    c. Designation

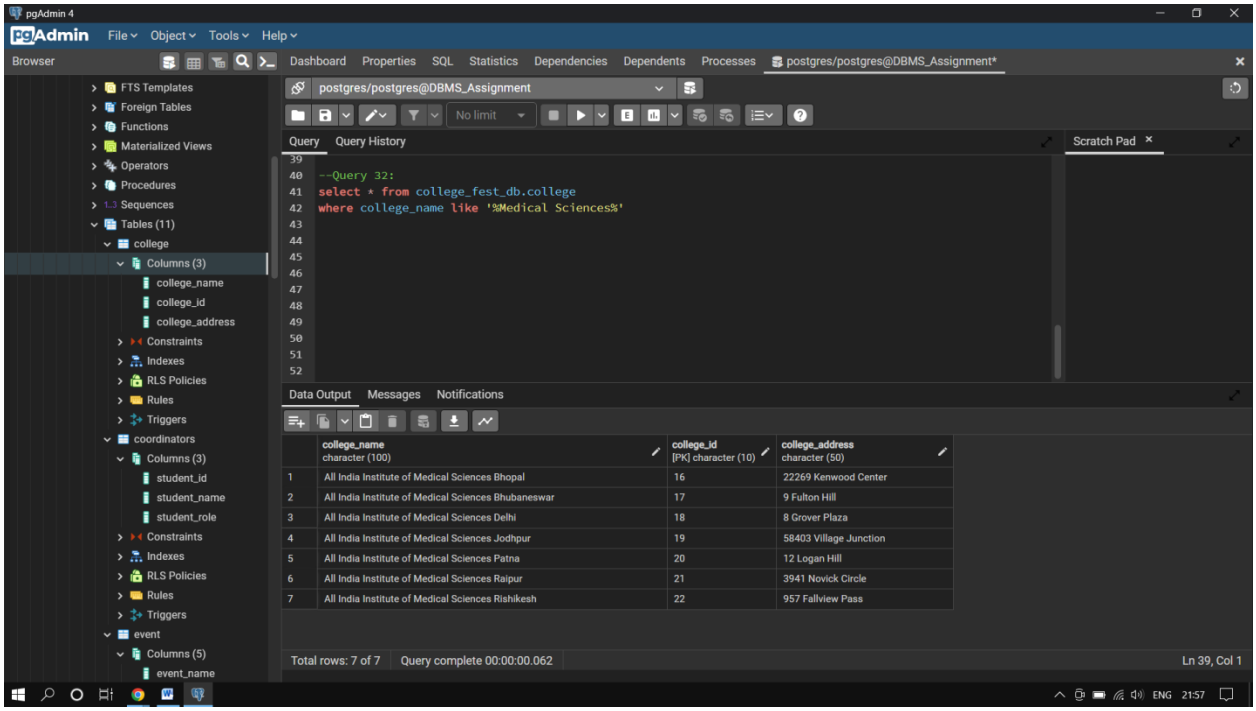
And sort them in ascending order w.r.t member name.

Query:

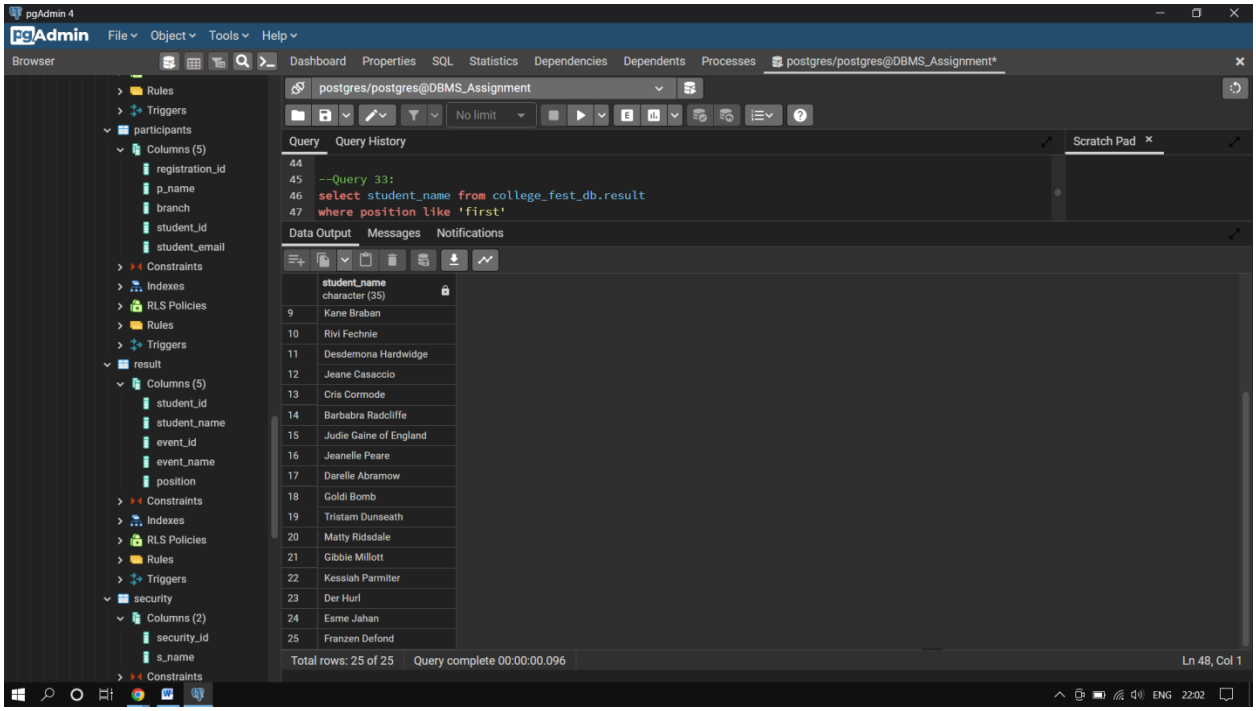
```
select member_name, programme, designation
from college_fest_db.fest_organising_committee
order by member_name ASC;
```



32. English query: Display all the participating Medical Sciences colleges.
    Query:
    select * from college_fest_db.college
    where college_name like '%Medical Sciences%';

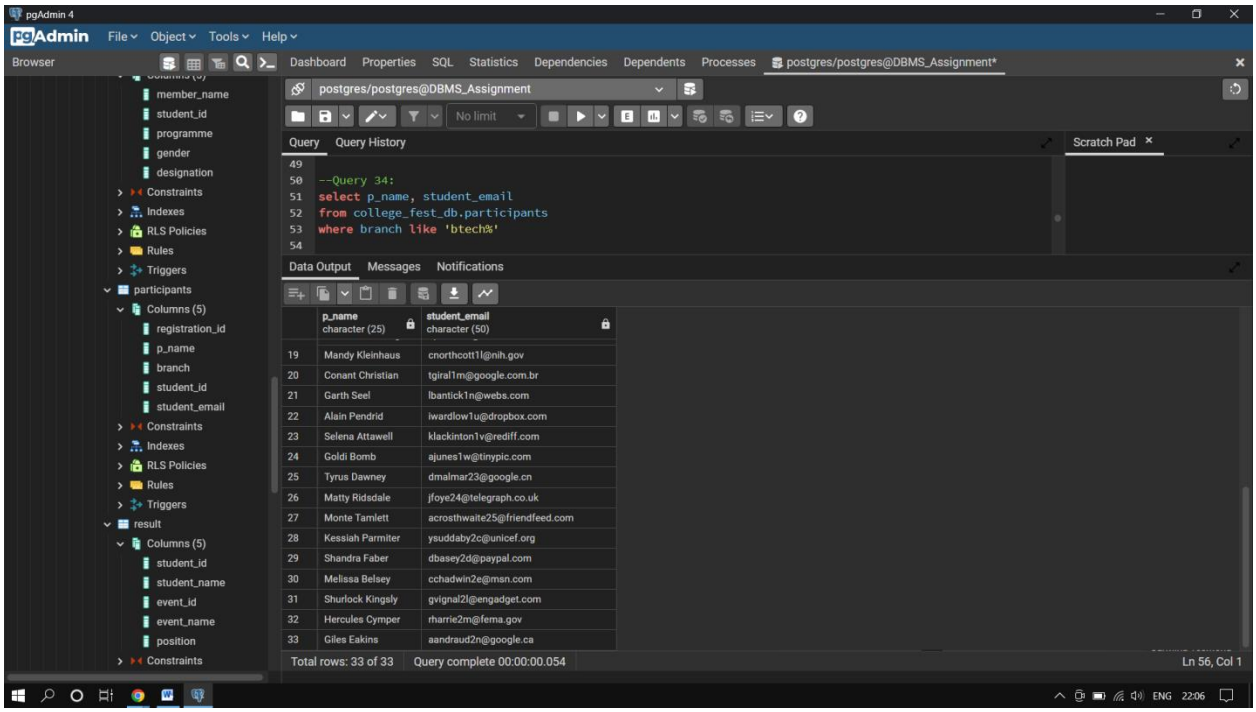


33. English query: Display the names of all the students who secured first position
Query:
select student_name from college_fest_db.result
where position like 'first';



34. English query: Display the name and email address of participants from Btech
Query:

```
select p_name, student_email
from college_fest_db.participants
where branch like 'btech%';
```

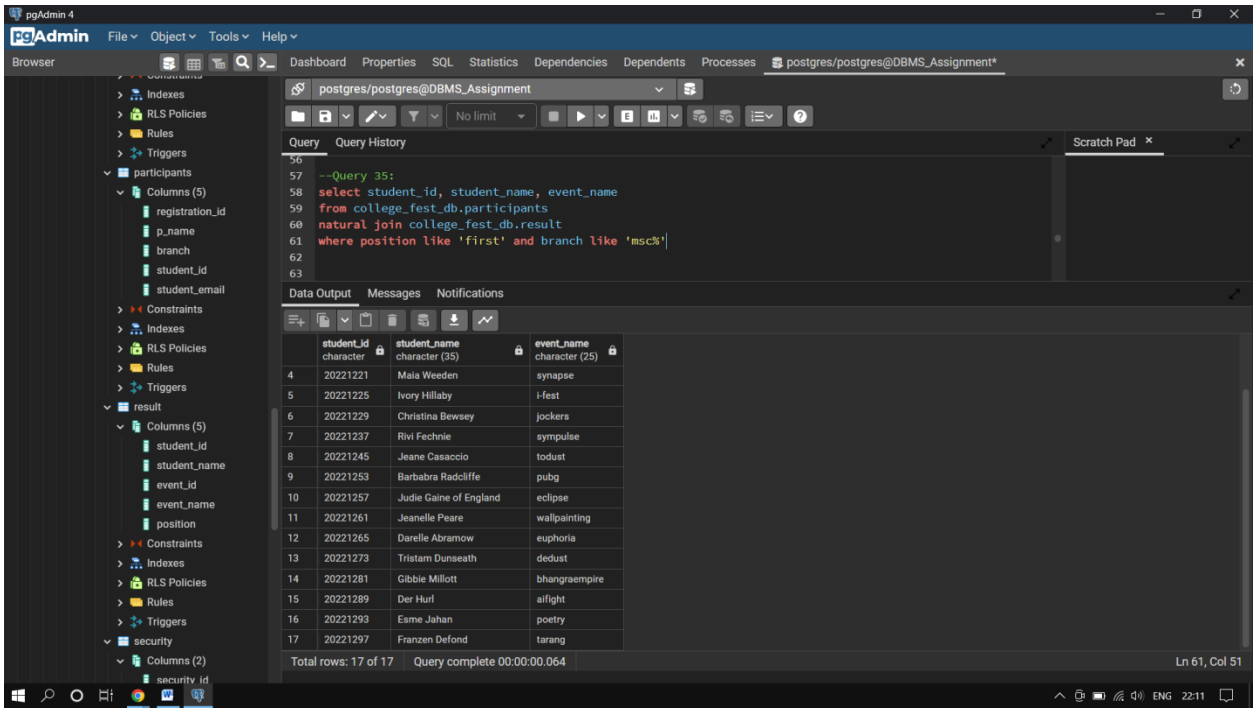


35. English query: Select the following details
    a. Student ID
    b. Student name
    c. Event name

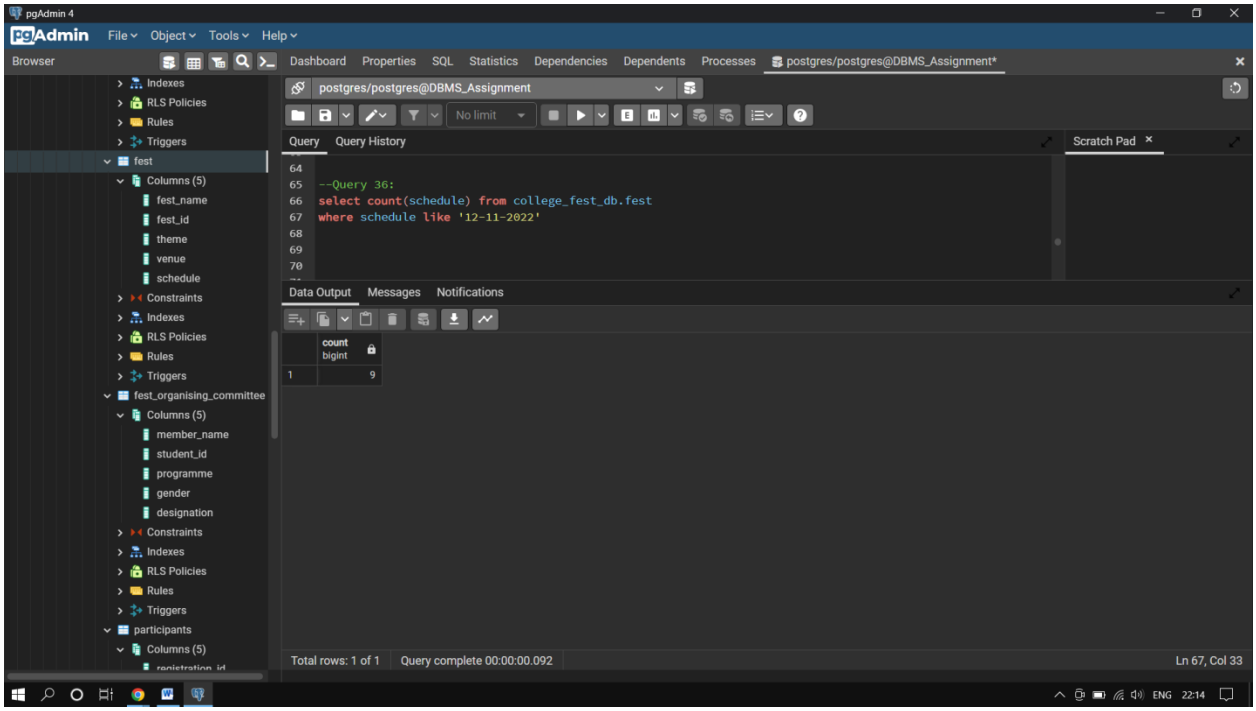
Who are from MSc branch and secured first position

Query:

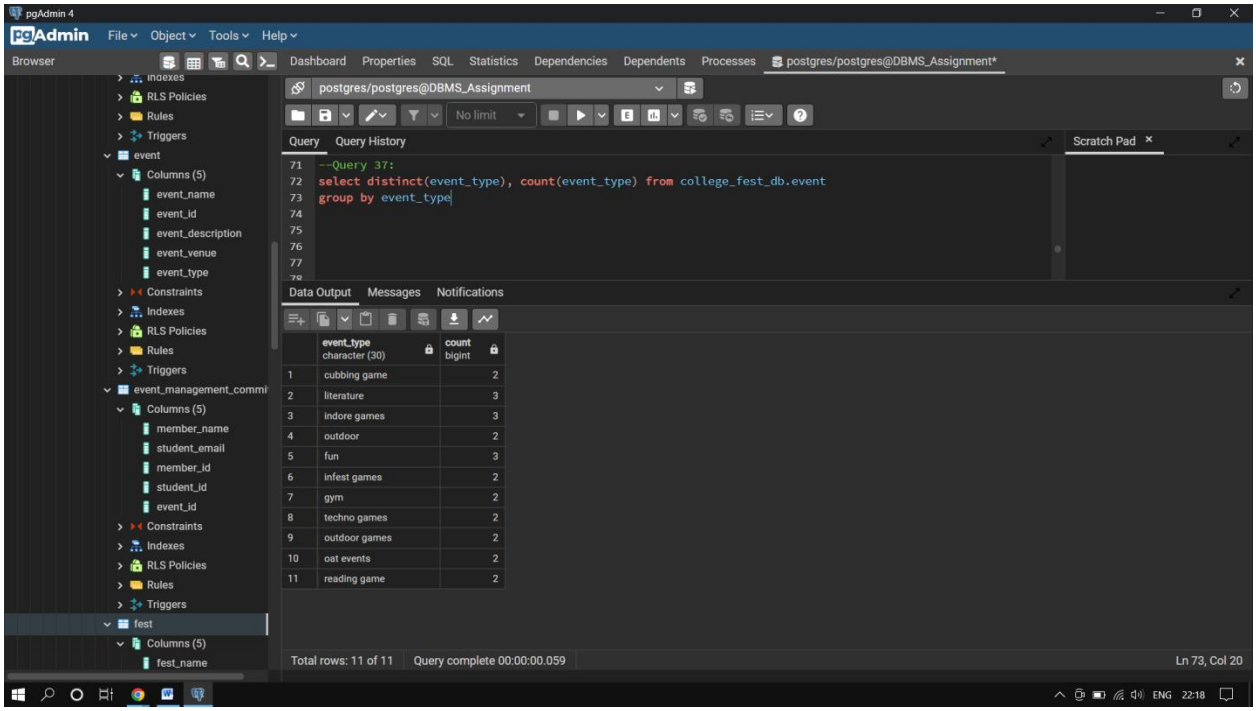
```
select student_id, student_name, event_name
from college_fest_db.participants
natural join college_fest_db.result
where position like 'first' and branch like 'msc%';
```



36. English query: Display the total number of events hosted on date 12-11-2022
    Query:
    select count(schedule) from college_fest_db.fest
    where schedule like '12-11-2022';



37. English query: Display the number of each event type.
    Query:
    select distinct(event_type), count(event_type) from college_fest_db.event
    group by event_type;

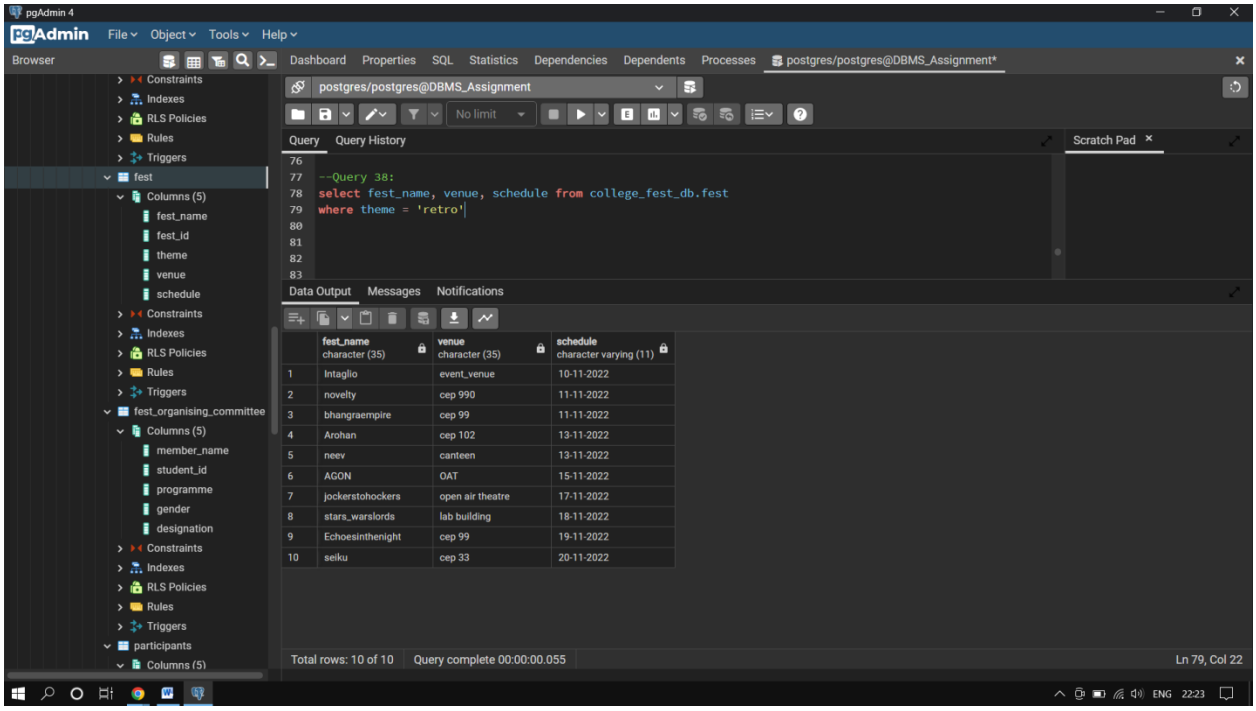


38. English query: Select the following details
    a. Fest name
    b. Venue
    c. Schedule

Where fest theme is Retro.

Query:

```
select fest_name, venue, schedule from college_fest_db.fest
where theme = 'retro';
```

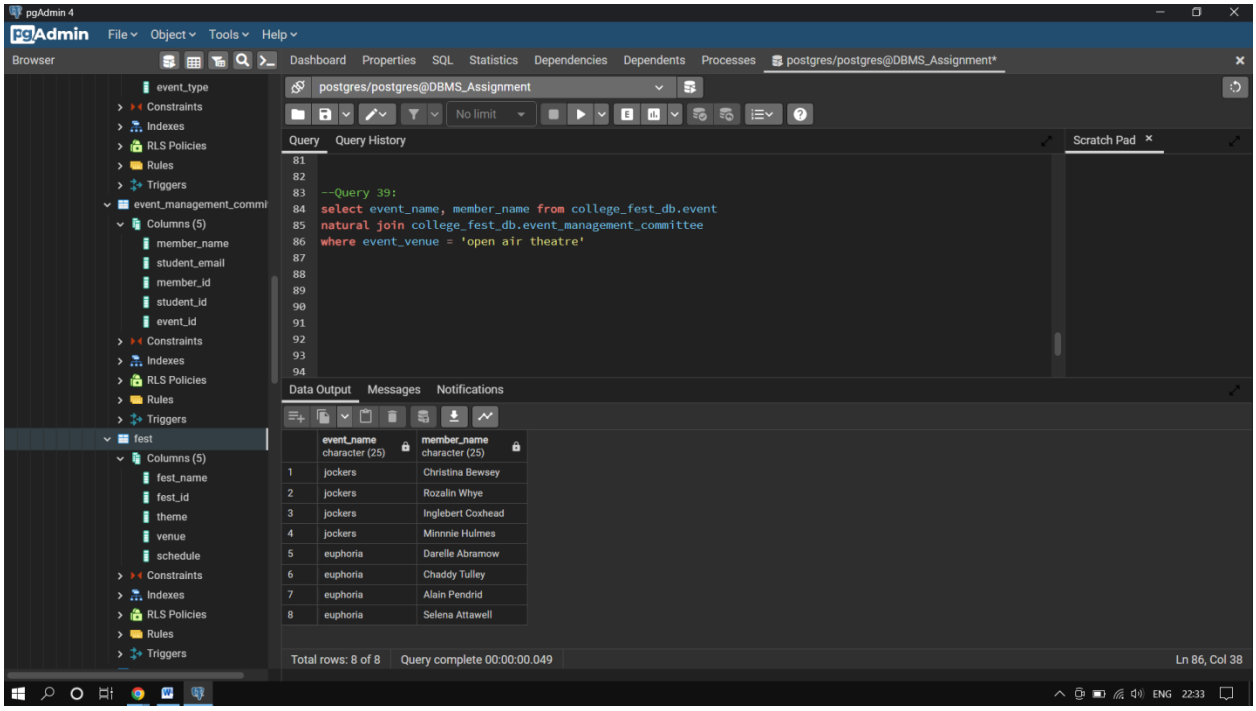


39. English query: Select the following details
    a. Event name
    b. Member name

    For events that were hosted on Open Air Theatre

    Query:

```
select event_name, member_name from college_fest_db.event
natural join college_fest_db.event_management_committee
where event_venue = 'open air theatre';
```



40. English query: Display the following details
    a. Event venue
    b. Event name
    c. Event type

    Of event that are of type
    a. Fun
    b. OAT Event
    c. Outdoor games

    Query:

```
select event_venue, event_name, event_type from college_fest_db.event
where event_type = 'fun'
union
select event_venue, event_name, event_type from college_fest_db.event
where event_type = 'oat events'
union
select event_venue, event_name, event_type from college_fest_db.event
where event_type = 'outdoor games';
```