COLLEGE FEST SYSTEM

IT615 - DATABASE MANAGEMENT SYSTEM

M.Sc. - IT (Sem 1)
Autumn 2022

Instructor - Prof. Minal Bhise

202212038 - JAINA ADWANI
202212114 - VARSHA MISHRA

Acknowledgement

The successful presentation of the DBMS project would be incomplete without mentioning the people who made it possible and whose constant guidance ensured the success of our efforts.
We are grateful to Professor Minal Bhise for giving us the opportunity to work on this project. We would like to thank her for providing us with valuable and necessary information that helped us work on this.
We also thank our TA, Vedant, for his guidance, as well as the staff for their cooperation.
We would also like to thank our college for providing us with all of the project's resources. Overall, we would like to thank everyone who was involved in this project and offered suggestions to improve it.
Finally, we'd like to express our gratitude to our parents.

INDEX

1. SRS

1.1 Introduction

1.1.1 Purpose

The College Fest Management System's primary goal is to give students and organizers a place to access and manage event-related information. This database includes the details about college fest and its events. It maps student details to his/her participation in any fest activities. It has separate details about winners and prizes. This system also includes details about teams formed during the fest.

1.1.2 Document Conventions

- SRS: Software Requirement Specification
- Database: A system intended to organize, store, and retrieve large amounts of data easily; a repository of information.
- Events: A social gathering or activity.

1.1.3 Product Scope

- Provide the searching facilities based on various types Such as Event, competitions, Sponsoring companies etc.
- Shows the information of the Events their rewards and other details like when it is held, team requirements etc
- The system should allow users to register to events and Manage the Registration details.
- Manage the information of Events and provide capabilities like editing, adding and deleting of events.
- Manages the information of Competition.
- To facilitate administration to view any event details quickly.

1.1.4 References

- Synapse 2022 - DAIICT. Retrieved from, http://synapse.daiict.ac.in/
- Bhartiya, A. (2021, August 24). Importance of College Fests for A Student. GrooveNexus. Retrieved from, https://www.groovenexus.com/event/college-fest/importance-of-college-fests/
- CollegeFest. (n.d.). Wikipedia. Retrieved from, https://en.wikipedia.org/wiki/CollegeFest

1.2. Problem Statement

The traditional method of managing, storing, and accessing data entails manually structuring data in hardcopies, which can take a lot of time. This method also makes data less manageable and prevents users from having access to the information they need to perform their jobs more effectively. Additionally, using traditional method prevents spreading events to colleges that are geographically remote. As your data collection grows, repetitive procedures become more time-consuming to complete manually, decreasing its efficiency and increasing the risk of data duplication and consistency. Change is challenging because even small changes can result in larger ones. Hardcopy data is not safe, so in order to assist with all these challenges or inconveniences, we can instead use a database management system.

1.3. Background

Every college hosts a college Fest every year. It is a multi-day event designed to help students unwind and enjoy their college experience. A college fest is organized by the student body, which is elected. They plan all events and submit them to the administration for approval. Once approved, they can start organizing the event.

The event is known as the day's celebration. Students are expected to dress appropriately for the day. It could be a formal day, a retro day, a traditional day, and so on.

College fest also organizes a number of competitions in which students can compete and win prizes. Competitions range from debate to drawing, singing, poetry, and acting.

The food festival, according to some students, is the highlight of the college fest. Students set up their food stalls and try to sell their food on this day.To sell their food, the stall owners must create a unique menu and offer. Some colleges also invite well-known singers to perform at their campuses. While others invite DJ.

In Gujarat, colleges organize garba during college fests, which is a one-of-a-kind event. It's a great way for students to stay connected to their roots while also developing a sense of belonging. College fests are among the most memorable aspects of college life for many students. Both students and teachers enjoy and anticipate it.

Existing System

Almost every college organizes a festival, but all of the work is done by hand. The events are chosen, and students are asked whether they want to volunteer or not. All of the information is saved in files. Many colleges have websites for the fests that they organize in their colleges, but this website is used to display the various event details that will be held in those colleges in order to inform the other college students.

1.4. Interview Plan

System: College Fest

Participants: Jaina Adwani

Varsha Mishra

Date: 04/09/2022 Time: 14:30

Duration: 45 minutes Place: Cafeteria

Purpose of Interview : Preliminary meeting to identify problems and requirements regarding events of college fest.

Agenda:

- Problems with event management and any other concerns
- Current management procedures
- Initial ideas
- Follow-up actions

1.5. Interview Summary

System: College Fest Management System

Participants: Jaina Adwani,

Varsha Mishra

Date: 04/09/2022 Time: 14:30

Duration: 45 minutes Place:

Purpose of Interview:Preliminary meeting to identify problems and requirements regarding events of college fest.

- Difficult to find information about events real time
- Registration issues
- Volunteers don’t respond
- No common platforms for registering and searching for the events
- All the information about participants stored in different files
- Difficult in finding sponsors
- Participants often miss deadlines for registration

1.6. Survey

Please select your answers to the following questions:

1. How many times a year do you have College Fest?

    Never / Once / Twice / Thrice / No Consistent Pattern

2. Which type of festival do you usually attend?

    Science / Technical/ Cultural

3. How many events are typically held at a college Fest?

    1-2 / 5-10 / 15-30 / More than 50

4.What is the average team size for a competition/event ?

    1-2 / 5-10 / 10-20 / event dependent

5. How do you find out about upcoming events?

    Fest Website / WhatsApp / Email / College Notice Board / Other

6. Do you have trouble finding information about upcoming events?

    Never / sometimes / frequently / always

7. How do you sign up for an event?

    Some website / Google Forms /Whatsapp/ In College / Other

8. Do you have any problems registering for events?

    Never, sometimes/frequently, or always

9. What is the largest crowd you've ever seen at a college festival?

    100-200 / 300-500 / More than 500 / Other

10. How do you deal with Fest-related issues?

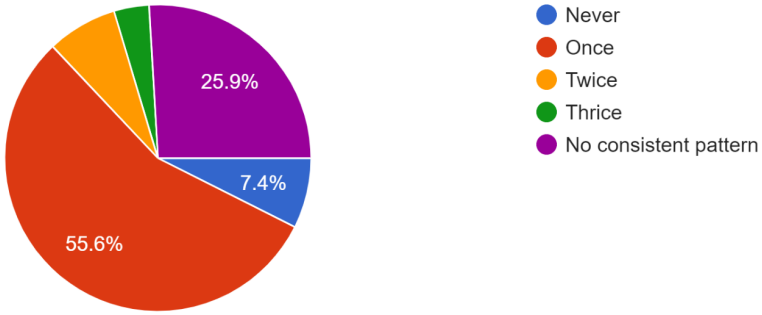
    Go to college / Ask coordinators on → Whatsapp/Email / Other

Please Provide any feedback you have on the current College Fest system

_____

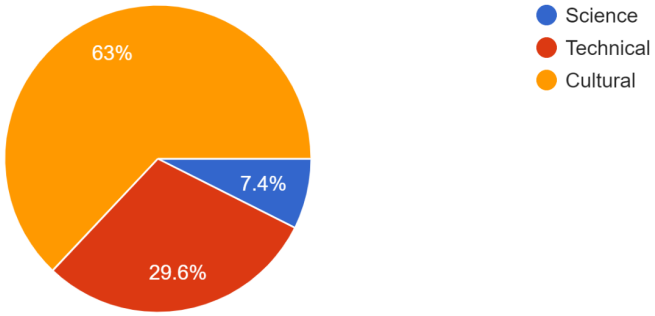
1. How many times a year do you have College Fest?

27 responses



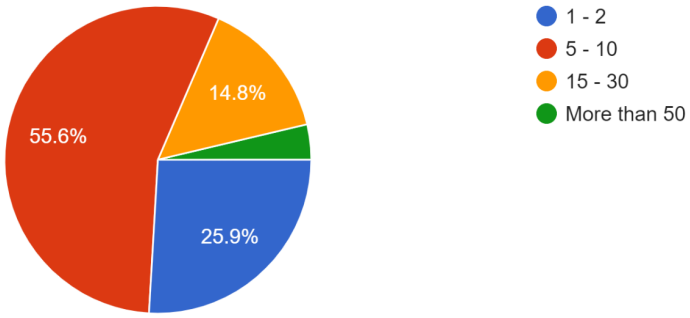
2. Which type of festival do you usually attend?

27 responses



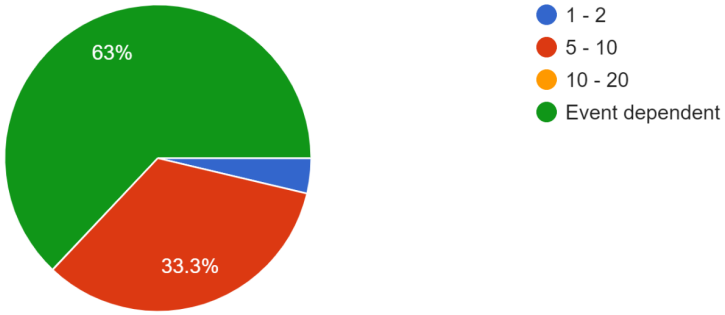
3. How many events are typically held at a college Fest?

27 responses



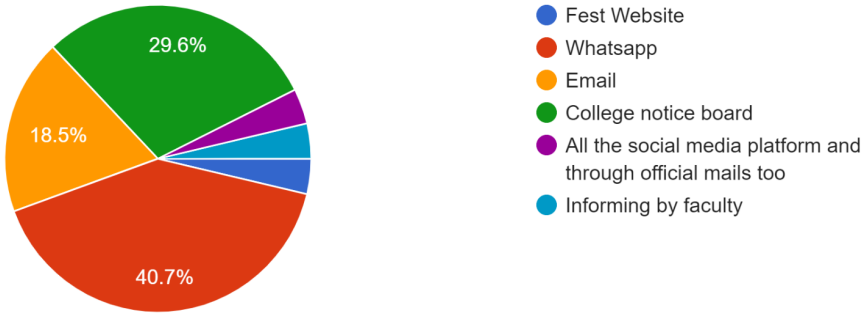
4. What is the average team size for a competition/event?

27 responses



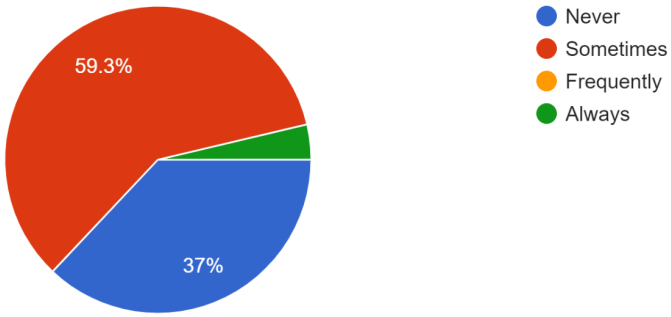
5. How do you find out about upcoming events?

27 responses



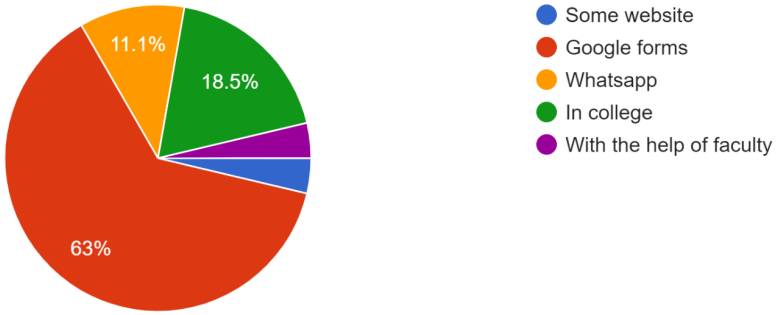
6. Do you have trouble finding information about upcoming events?

27 responses



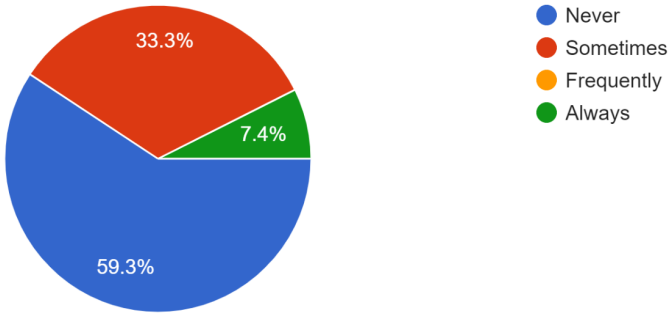
7. How do you sign up for an event?

27 responses



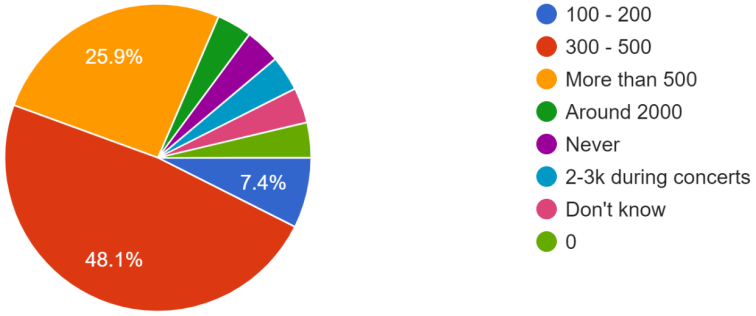
8. Do you have any problems registering for events?

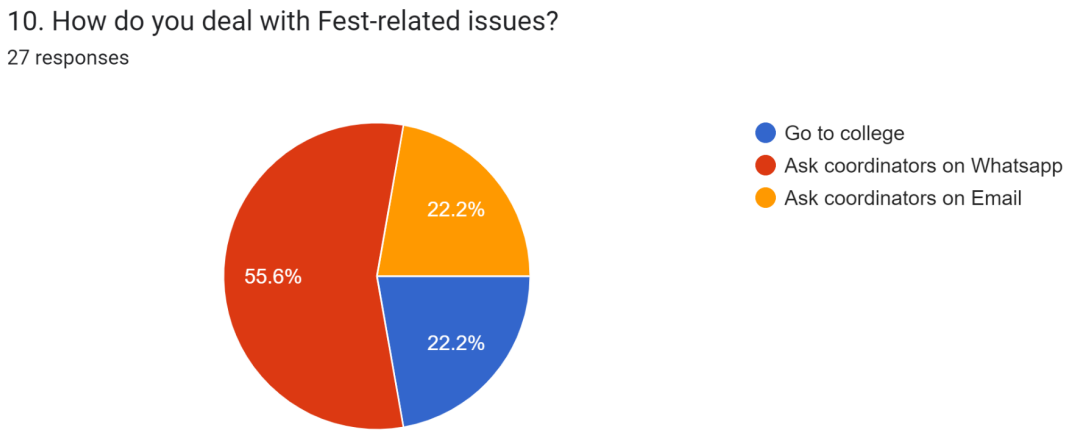
27 responses



9. What is the largest crowd you've ever seen at a college festival?

27 responses





1.7. Observation

As of now, we have seen that the system may be changed in accordance with user needs; for instance, if the fest is for college students or for any student of any university, adjustments are made accordingly. We can add a function to the system that would allow students to quickly contact coordinators or get the information they need. Students often contact coordinators through emails or WhatsApp when they have questions. We can make it simple for students to register because they typically use Google Forms to do so. We need to give kids easy access while still preventing them from accessing sensitive data.

1.8. Fact Finding Chart

Objective	Technique	Subject(s)	Time commitment
To understand what is cultural fest	Background Reading	Internet	1 day
To establish fest system objectives Agree likely scope of the new system Checkout involvement of the volunteers To follow up the development	Interview	2 Co-ordinators	2 x 1 hour each

To comprehend the registration process for participants, find out the amount of events, and discover how many people the festival attracts	Questionnaire	College Students	5 minutes per head
To better comprehend the system's issue and how the user might benefit from it	Observation		

2. Problem Description

The College Fest Management System's primary goal is to give students and organizers a place to access event-related information. Students who want to contribute to an event or participate in an event can use this system to sign up for it and view the various activities that will be held. The event's organizers have the option of registering attendees, posting information about the event, and even choosing volunteers.

Organizing the Event

A group of core members of similar perspective is assembled for organizing the fest. 5 - 10 is a good range. This could be done through voluntary participation of students.The first critical aspect of a festival is determining the overall direction, theme, and structure. Each member is assigned with a specific set of tasks and are primarily accountable for the task they are assigned to and may assist with the remaining chores.These are the main organizers and work on high level details and more groups are made to handle intricacies and individual events later.

Team members are put to brainstorm creative ideas for naming the festival, and creating a logo that incorporates the festival's name, initials, symbols, etc. this can also be done through an audition or competition. Letterheads also need to be prepared and finalized when sponsors come because they may want to include their logos for promoting themselves.

The arrangement for sponsorship needs to be worked on from the beginning of fest preparation. People like alumni, the placement team, vendors, IT companies, etc. are the ideal people for sponsorship arrangements. They are approached with presentations and brochures showcasing events that might attract them.The souvenirs associated with the festival can also be sold to raise money.

In the beginning, there is a lot of cold calling to find new sponsors, while existing contacts are used to contact the old sponsors back. Hectic negotiations are also required, and both sponsorship money and deliverables are discussed. The team needs to promote all of the events on social networking sites.

The type and number of events are then decided. The main events are usually predetermined.There are numerous events that can occur but Most events are carried forward with minor changes from the past. For events that require inviting outside guests or celebrities, artists are chosen with the audience in mind, Because these events are completely mass-oriented. Another thing to keep in mind is that the festival showcases as many genres as possible. A group of students are assigned to handle all the details for each of these events. Weekly meetings are conducted to access their development and to offer assistance. Brochure, leaflets, banners, charts, etc. are also created. Expert assistance if necessary is obtained. The support can be requested by offering promotion in exchange for free or discounted services .

To get things going and marketing started, the publicity team must collaborate with the marketing team to create a killer Marketing Brochure on a tight deadline.

The Marketing team requires many other deliverables, such as presentation templates and business cards, which are all created.

More teams need to be formed to handle hospitality, transportation, lodging, food, etc. The location , date and time for each event is decided. At last invites are sent out and the fest is scheduled.

The basic structure is:

1. Overall Coordinators

2. Team consisting of many Coordinators

3. Event Heads

4. Volunteers

There are various kinds of festivals that can be held in a college. DAIICT, for example, does the following:

- Sports Festival
- Technical Fest
- Youth Run
- Synapse Cultural Festival
- iFest Technical Festival
- Synapse Techno Cultural Fest
- Synapse Techno Cultural & Management Festival

But Roughly they can be divided into 3 types:

- Sports
- Cultural
- Technical

<u>Sports Fest</u>

Its goal is to provide students with the opportunity to demonstrate their athletic intelligence while also fostering a healthy and competitive environment.

It is usually a four-day festival that allows attendees to participate in a variety of sports and events such as:

Cricket, Football, Volleyball, Chess, Basketball, Lawn Tennis, Carrom, Badminton, Table Tennis, and many other fun events such as Kabaddi, 3 vs 3 Basketball, Kho-Kho, Anti Chess, Online Gaming, Mixed Table Tennis, Randomized Carrom, Foot-Volley-Ball, Arm Wrestling, Dart Game, Shuffle, DJ Nights, Mixed Badminton, Afterburn (musical concert), Human Tic-Tac

Cultural Fest

It aims to instill confidence in students while also teaching them how to work in a team and in a variety of challenging situations. Outstation fests give students the opportunity to explore the campus and city after the event, exposing them to different cultures.

As an example,Synapse is one such celebration at Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT). It is a medium through which the youth can express themselves, whether through art or culture, technological skills, or entertainment. The following are some of the events that have been conducted :-

The main events: Rampage (Fashion Show) ,Ragnarock (Rock band competition),Cynosure (Celeb night) , Inc (Business Plan competition) , Rekriti etc.

Cultural Events: Masquerade (Competition in Dramatics), Rhapsody (Music Competition), Footloose (Western Dance), Naach (Classical Dance), Hip Hop(Street Dance) etc.

Technical Events: Code Mutants, Apps Dreamer, Surge etc.

Online Events: Bullz Bear, Googlock Holmes, Team Twister, Crazy Ganit, Battledrome etc.

Technical Fest

It aims to bring together aspiring engineers from across India on a single platform so that they can share their knowledge with their peers.

For example, consider i.fest, DAIICT's annual technical fest organized by IEEE SB DAIICT. It also seeks to introduce new perspectives that challenge conventional ideas and solutions. It combines amazing ideas as potential innovations, refreshing challenges, inspiring interactions, inventive concepts, and, most importantly, fun and excitement.

They have a wide range of events like:-

Robotics(iBot), circuit solving (iElectro) and coding events (iCode, Blind C, iApp), to quizzes(i.Quiz, i.Ganith) and business plan competition(iBizz). For the visionaries, there is iVision. Fun events like Treasure Hunt, i.Decipher, i.Design, i.Capture, i.Maze and i.Rubble etc.

Records

Student Details, Events, Competitions, Winners, Prizes, Sponsorships

2.1. Requirements

2.1.1 Functional Requirements

- Registration: In order to access this site, the user must first register. Registration requires the following information: first name, last name, username, email address, password, confirm password, and so on. The User details are checked with the database. Password constraint is checked as per validation.

- User Login: The system allows users to log in to the system. The user will enter his or her username and password. The system will validate the user's input, and if it is valid, the user will be logged in and the User Profile page will be processed. Otherwise, the user will be prompted to enter their username and password again.

- Forgot Password: A password reset link will be sent to the user's email address. They can easily change the password and update it in the database by using the reset link.

- Choose/Register for the Event: The user can choose the event. By entering the main event, sub event, ID number, team members, and so on. By doing so, the Event is successfully selected, and the user can also view and edit all details they entered. The system will enter the selected data into the database.

    - The user will be Provided the searching facilities based on various types Such as College, Event type, competitions etc.

    - They can view the information and description of the Events and their rewards and other details like when it is held, team requirements etc.

- Admin panel: The Admin can add a manager, a main event, a sub-event, and so on. The main event, sub-event, and manager will be the input. The system will enter the selected data into the database.

- Manager panel: Depending on whether they are managing a particular event or the overall fest.The manager can also add volunteers, the main events and their sub-events and details related to it like their description , rules and requirements. These details will be entered, and the system will add selected data to the database .

- Logout: The system allows you to logout of the site. The user will logout after selecting the logout option.

2.2 Nonfunctional Requirements

The Following describe the aspects of the system that are concerned with how well the system provides the functionality.

- Performance: The system must be reliable. If the request cannot be processed, an appropriate error message is displayed within seconds.
- Safety: The specifics must be kept up to date. Users must be verified. The database must be backed up on a regular basis.
- Security: The user can access his profile after entering his password and user id. The user's information must be kept safe and secure.

2.3. User Categories

- Overall Coordinators - They are in charge of running the festival at a high level.
- Core Group Members - They work closely with the overall coordinator to manage all of the events' specifics.
- Event Head/Manager-They organize volunteers and oversee the details of the event that is allocated to them.
- Volunteers - They aid the event coordinator in running the event for which they sign up.
- Participants

2.4. Privileges

- Overall Coordinators - They can add or remove coordinators, check information on events, coordinators, students, and incentives.
- Core Group Members - Coordinators make up this group. Events can be viewed, added, or deleted. Volunteers can be added too.
- Event Managers- They have access to and control over the event's specifics. They could also bring in volunteers.
- Volunteers - They can check the event's specifics as well as the information on the students who have registered for it.

2.5. Assumptions and Business Constraints

- In terms of general restrictions, anyone who wishes to use the software must first register with the application.
- As can be seen, each user will have a different educational background as well as a level of system competence. The system should be user-friendly so that users can easily use it.
- All information about users, events, and managers, among other things, must be stored in a database.
- The system should have more storage capacity and provide faster database access.
- The system should allow for searches and quick transactions.
- It is operational 24 hours a day.
- Users can gain access from any computer with Internet access.
- To access their online accounts and perform actions, users must enter their correct usernames and passwords.

3. ER Diagram

3.1 Noun Analysis

Initial List of Nouns:

Fest	Place	Access	Information	Event
Use System	Sign	View	Option	Ideas
Group	Core	Perspective	Range	Participation
Member	Task	Area	Work	Level
Brainstorm	Logo	Name	Audition	Competition
Arrangement	Sponsorship	Preparation	Placement	Team
Money	Type	Number	Development	Offer
Assistance	Brochure	Expert	Support	Promotion
Exchange	Hospitality	Transportation	Food	Location
Date	Time	Students	Organizers	Activities
Attendees	Volunteers	Members	Tasks	Chores
Details	Groups	Intricacies	Initials	Symbols
Letterheads	Sponsors	People	Presentations	Alumni
Vendors	Companies	Brochures	Souvenirs	Meetings
Leaflets	Banners	Charts	Services	Sites
Performers	Equipment	Description	College	Management
System	Winners	Prizes	Guests	Reward

Table for accepted Nouns:

Candidate Entity Set	Candidate Attribute	Candidate Relationship Set
Students	Name	Participates
Events	Number	Volunteers
Sponsorship	Date(Start)	Attends
Competition	Time(Start)	Access
Participants	Company	Manages
Volunteer	Venue	Winner
Manager	College	Sponsor
Competing Team	Budget	Takes part
Winner	Status	Won by
	Member	
	Reward	
	ID	

Rejected nouns and reasons:

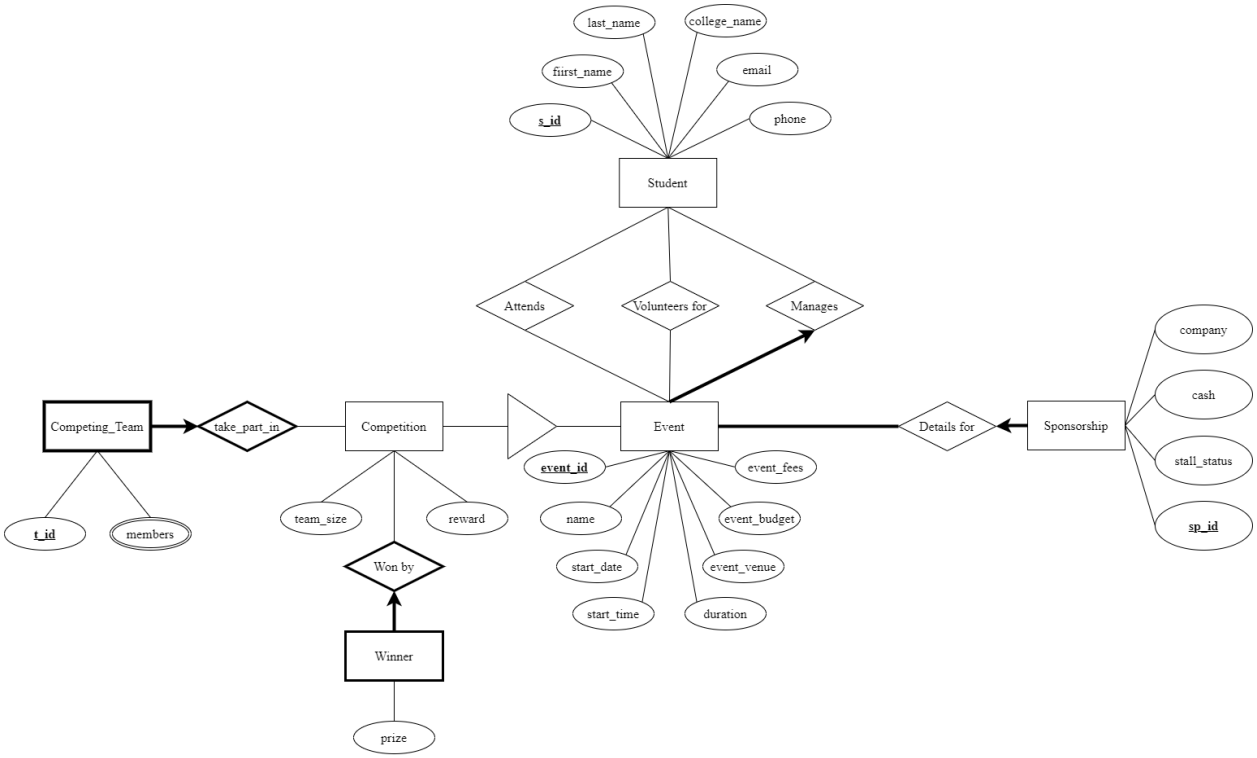
Rejected Noun	**Reason for rejecting**
Activities	Have selected Event
Charts Leaflets Lanners Services Guests Prize System Equipment Performers Sites Arrangements Presentations Brochures Souvenirs Meetings	Not needed
Attendees	Synonym of participant
Intricacies Ideas Initials Symbols Letterheads Logos	Not needed
Access Information Use Sign Option Group Core Perspective Range	Too General and not needed
Expert Support Promotion Exchange Hospitality Transportation	Not needed

Food	

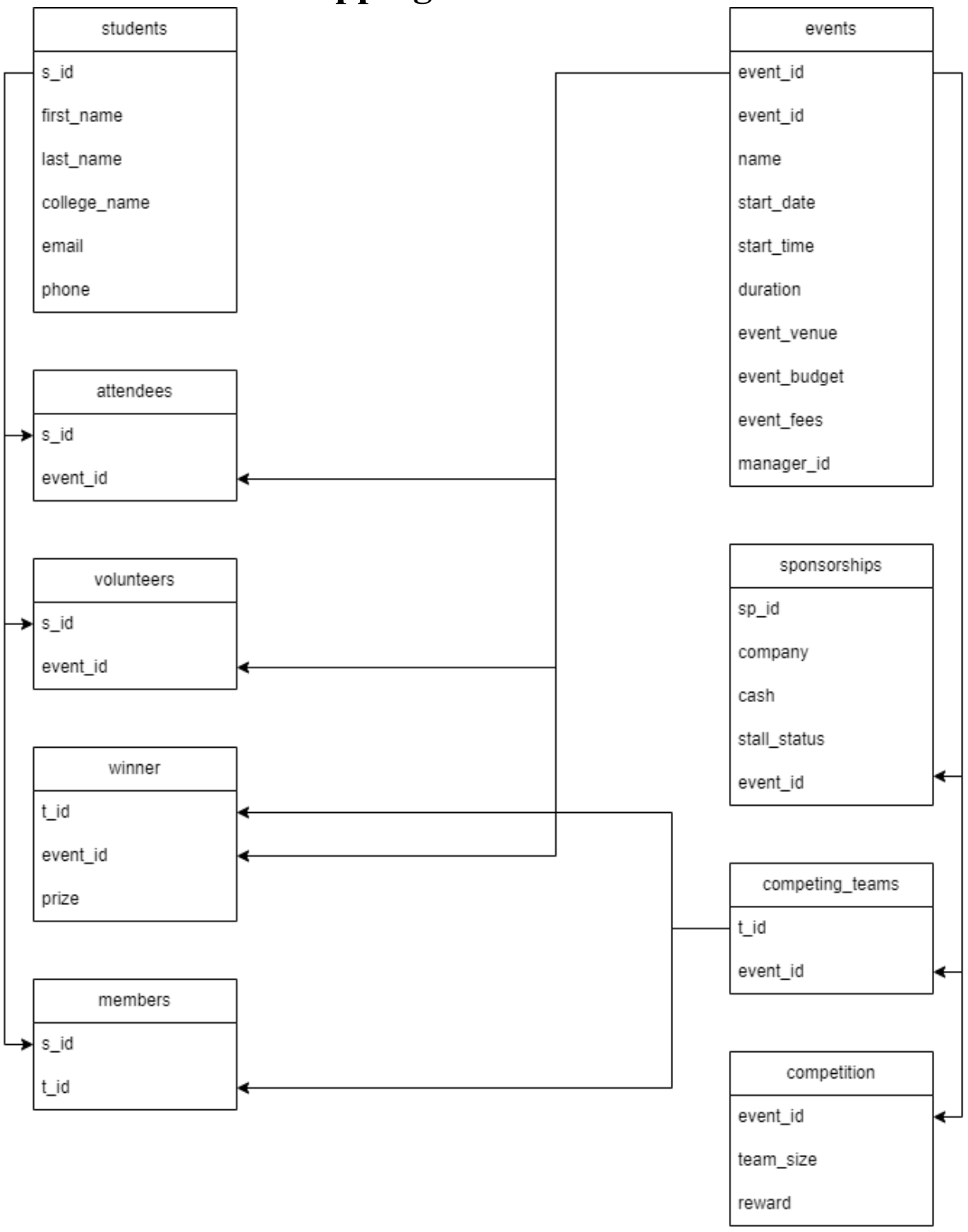
Final Entities:

Entity	**Attributes**
students	s_id(PK), first_name, last_name, college_name, email, phone
events	event_id(PK), name , start_date, start_time, duration, event_venue, event_budget, event_fees, manager_id(FK)
sponsorships	sp_id(PK), company, cash, stall_status, event_id(FK)
volunteers	s_id(FK), event_id(FK)
attendees	s_id(FK), event_id(FK), s_id + event_id(PK)
competition	event_id(FK), team_size, reward
competing_teams	t_id(PK), event_id(FK)
members	s_id(FK), t_id(FK)
winner	t_id(FK), event_id(FK), prize, t_id + event_id(PK)

3.2 ER Diagram



4. ER to relational mapping



5. Final list of relations with attributes and constraints

Table01: students

Field Name	Data Type	Description	Constraint
s_id	INTEGER	ID of Student	PRIMARY KEY, NOT NULL
first_name	CHAR(20)	First Name of Student	NOT NULL
last_name	CHAR(20)	Last Name of Student	-
college_name	CHAR(10)	Name of College	NOT NULL
email	VARCHAR	Email id of Student	NOT NULL
phone	Character varying(20)	Contact of Student	UNIQUE

Table02: events

Field Name	Data Type	Description	Constraint
event_id	INTEGER	ID of event	PRIMARY KEY, NOT NULL
name	VARCHAR	Name of event	NOT NULL
start_date	DATE	Date of starting the event	NOT NULL
start_time	TIME	Time of start	NOT NULL
duration	INTEGER	Duration of event	NOT NULL
event_venue	VARCHAR	Venue	NOT NULL
event_budget	DECIMAL	Budget of event	-
event_fees	DECIMAL	Fee for participation-	-
manager_id	INTEGER	Id of manager	FOREIGN KEY

Table03: sponsorships

Field Name	Data Type	Description	Constraint
sp_id	INTEGER	ID of sponsor	PRIMARY KEY, NOT NULL
company	VARCHAR	Name of Company	NOT NULL
cash	DECIMAL	Fund provided	-
stall_status	BOOL	Availability of fund	-
event_id	INTEGER	ID of Event in which fund is invested	FOREIGN KEY

Table04: volunteers

Field Name	Data Type	Description	Constraint
s_id	INTEGER	ID of Student	FOREIGN KEY
event_id	INTEGER	ID of Event	FOREIGN KEY

Table05: attendees

Field Name	Data Type	Description	Constraint
s_id	INTEGER	ID of Student	FOREIGN KEY
event_id	INTEGER	ID of Event	FOREIGN KEY
s_id + event		Combined ID	PRIMARY KEY

Table06: competition

Field Name	Data Type	Description	Constraint
event_id	VARCHAR	ID of Event	FOREIGN KEY, NOT NULL
team_size	INTEGER	size	NOT NULL
reward	VARCHAR	Prize for winners	NOT NULL

Table07: competing_teams

Field Name	Data Type	Description	Constraint
t_id	INTEGER	ID of Team	PRIMARY KEY

event_id	INTEGER	ID of Competition	FOREIGN KEY

Table08: members (multi-valued attribute of competing team)

Field Name	Data Type	Description	Constraint
s_id	INTEGER	ID of Student	FOREIGN KEY
t_id	INTEGER	ID of Team	FOREIGN KEY

Table09: winner

Field Name	Data Type	Description	Constraint
t_id	INTEGER	ID of Competing Team	FOREIGN KEY
event_id	INTEGER	ID of Event	FOREIGN KEY
prize	CHAR(20)	Winning Prize	NOT NULL
t_id + event_id		Combined Attributes	PRIMARY KEY

6. DDL Statements for creating all the tables

To create Schema:-

```
CREATE SCHEMA college_fest;
SET SEARCH_PATH TO college_fest;
```

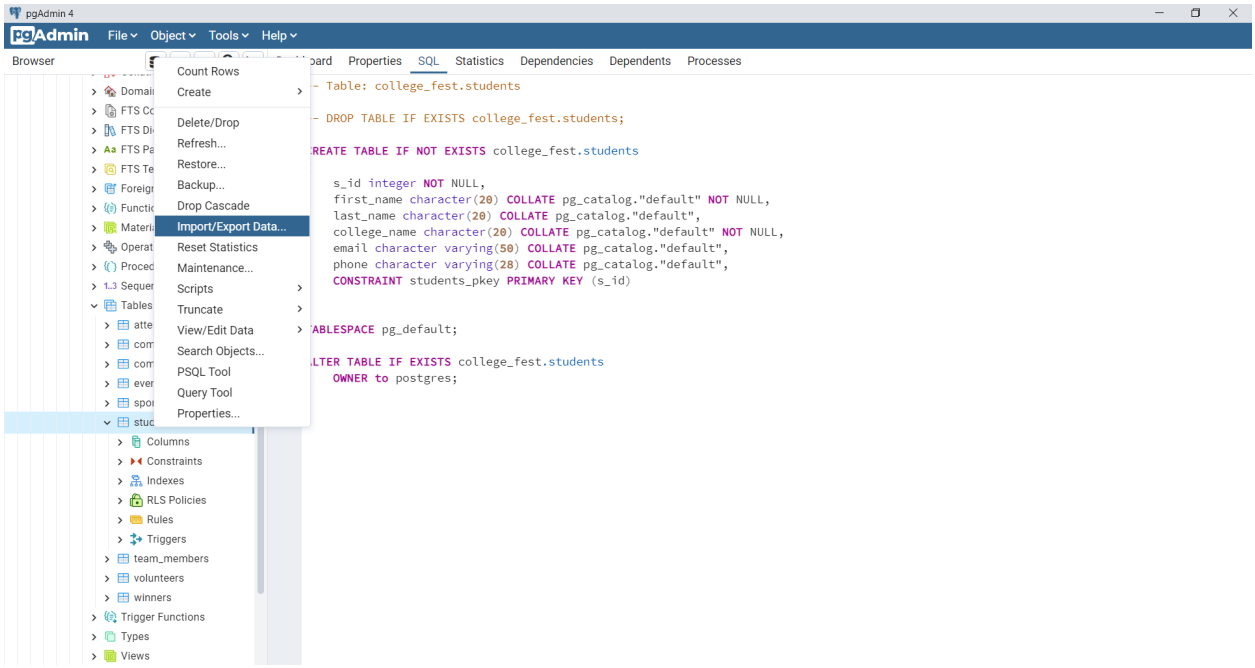
```
CREATE TABLE IF NOT EXISTS college_fest.students
(
        S_ID INTEGER NOT NULL,
        first_name CHAR(20) NOT NULL,
        last_name CHAR(20),
        college_name CHAR(20) NOT NULL,
        email character varying(50),
        phone character varying(28),
        PRIMARY KEY(S_ID)
);


CREATE TABLE IF NOT EXISTS college_fest.events
(
        event_id INTEGER NOT NULL,
        name CHAR(20) NOT NULL,
        start_date DATE NOT NULL,
        start_time TIME NOT NULL,
        duration INTEGER NOT NULL,
        event_venue  character varying(28) ,
        event_budget DECIMAL,
        event_fees DECIMAL,
        manager_id  INTEGER,
        PRIMARY KEY(event_id),
        CONSTRAINT manager_id FOREIGN KEY (manager_id)
        REFERENCES college_fest.students (s_id)
        ON DELETE NO ACTION
);


CREATE TABLE IF NOT EXISTS college_fest.sponsorships
(
        sp_id INTEGER NOT NULL,
        company VARCHAR NOT NULL,
        cash DECIMAL,
        stall_status BOOL,
        event_id INTEGER ,
        PRIMARY KEY(sp_id),
        CONSTRAINT event_id FOREIGN KEY (event_id)
```

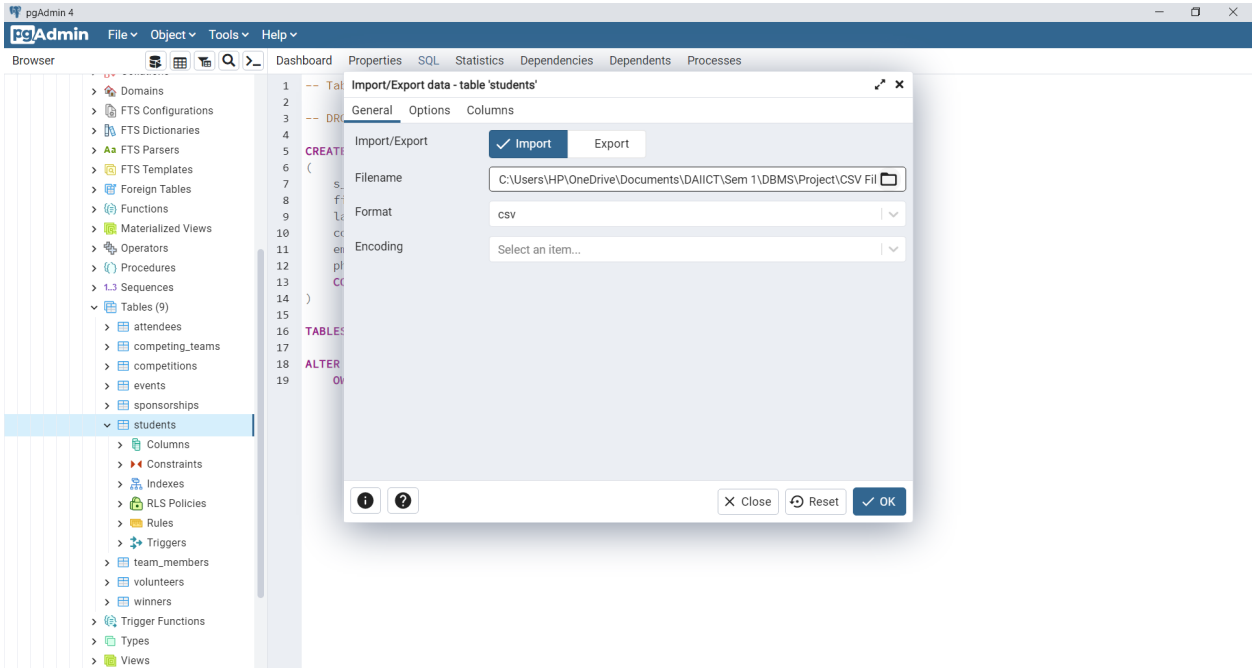
```
        REFERENCES college_fest.events (event_id)
);


CREATE TABLE IF NOT EXISTS college_fest.volunteers
(
        s_id INTEGER  NOT NULL,
        event_id INTEGER  NOT NULL,
        PRIMARY KEY(s_id,event_id),
        CONSTRAINT s_id FOREIGN KEY (s_id)
        REFERENCES college_fest.students (s_id),
        CONSTRAINT event_id FOREIGN KEY (event_id)
        REFERENCES college_fest.events (event_id)
);


CREATE TABLE IF NOT EXISTS college_fest.attendees
(
        s_id INTEGER  NOT NULL,
        event_id INTEGER  NOT NULL,
        PRIMARY KEY(s_id,event_id),
        CONSTRAINT S_ID FOREIGN KEY (s_id)
        REFERENCES college_fest.students (s_id),
        CONSTRAINT event_id FOREIGN KEY (event_id)
        REFERENCES college_fest.events (event_id)
);
CREATE TABLE IF NOT EXISTS college_fest.competitions
(       event_id INTEGER NOT NULL,
        team_size INTEGER,
        reward INTEGER,
        PRIMARY KEY(event_id),
        CONSTRAINT event_id FOREIGN KEY (event_id)
        REFERENCES college_fest.events (event_id)
);
CREATE TABLE IF NOT EXISTS college_fest.competing_teams
(
        t_id INTEGER NOT NULL,
        event_id INTEGER  NOT NULL,
        PRIMARY KEY(t_id),
        CONSTRAINT event_id FOREIGN KEY (event_id)
        REFERENCES college_fest.competitions (event_id)
);


CREATE TABLE IF NOT EXISTS college_fest.team_members
(
```

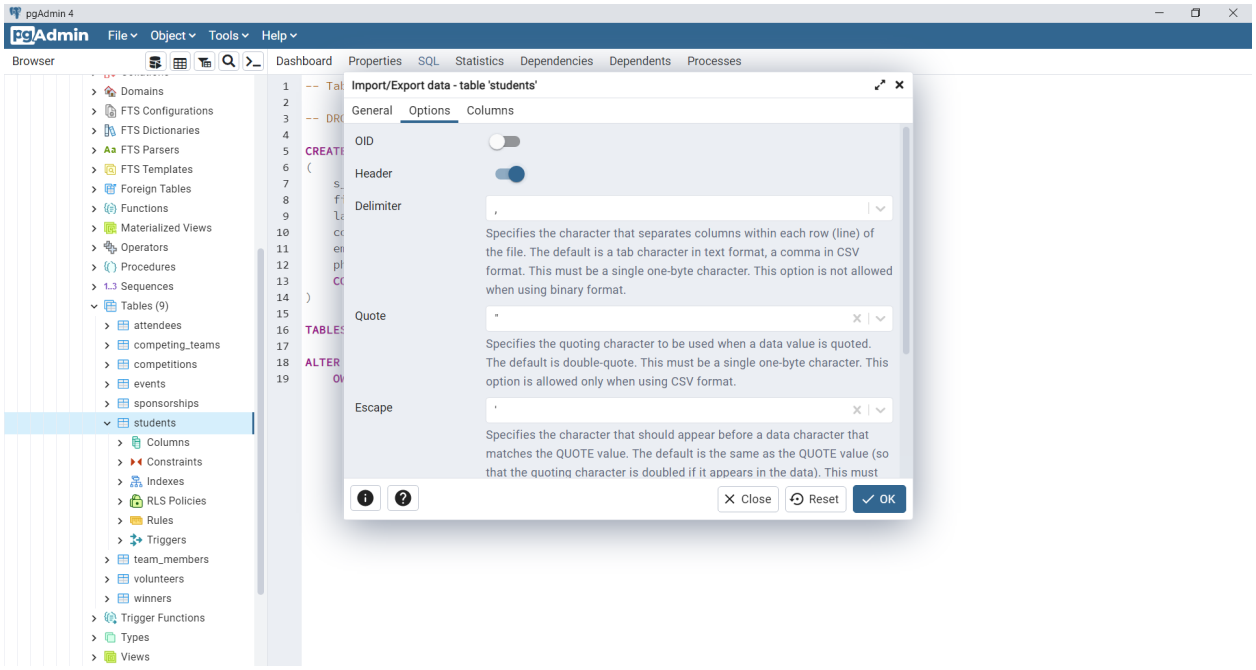
```
        s_id INTEGER NOT NULL,
        t_id INTEGER NOT NULL,
        PRIMARY KEY(t_id,s_id),
        CONSTRAINT S_ID FOREIGN KEY (s_id)
        REFERENCES college_fest.students (s_id) ,
        CONSTRAINT T_ID FOREIGN KEY (t_id)
        REFERENCES college_fest.competing_teams (t_id)
);


CREATE TABLE IF NOT EXISTS college_fest.winners
(
        t_id INTEGER NOT NULL,
        event_id INTEGER NOT NULL,
        prize INTEGER NOT NULL,
        PRIMARY key(t_id,event_id),
        CONSTRAINT event_id FOREIGN KEY (event_id)
        REFERENCES college_fest.competitions (event_id) ,
        CONSTRAINT t_id FOREIGN KEY (t_id)
        REFERENCES college_fest.competing_teams(t_id)
);
```

7. Details of populating the data

After creating Tables, data is imported by following steps:







Students

	s_id [PK] integer	first_name character (20)	last_name character (20)	college_name character (20)	email character varying (50)	phone character varying (28)
1	2101	Finn	Harrell	Gujarat Univers...	at.egestas@protonmail.ca	1-215-728-1437
2	2102	Colleen	Faulkner	GTU	orci.in.consequat@google.org	1-413-550-6409
3	2103	Molly	Pruitt	St. Xavier	nunc.quisque.ornare@yahoo.edu	(184) 283-8566
4	2104	Regina	Vega	GNLU	vitae.mauris@outlook.ca	(636) 602-5541
5	2105	Brock	Hickman	GNLU	eu.accumsan.sed@aol.com	1-228-502-4777
6	2106	Beverly	Gentry	DAIICT	dui.cum@aol.edu	(467) 441-2618
7	2107	Brittany	Garrett	DAIICT	lorem@outlook.couk	1-854-577-2141
8	2108	Boris	Bradford	MICA Ahmeda...	ante.maecenas@google.org	1-985-243-1011
9	2109	Baxter	Fischer	DAIICT	consectetuer@hotmail.ca	(527) 636-6182
10	2110	Belle	Cobb	Nirma University	erat@yahoo.net	(319) 565-7827
11	2111	Elijah	Vang	Gujarat Univers...	egestas.lacinia@google.org	1-662-742-5154
12	2112	Otto	Rogers	DAIICT	luctus.felis@google.couk	(266) 793-4233
13	2113	Ava	Harding	Gujarat Univers...	enim.etiam@icloud.edu	(586) 677-2973
14	2114	Mariam	Rose	DAIICT	justo@google.org	1-161-463-7584
15	2115	Lars	Mosley	DAIICT	magna.praesent@yahoo.com	(413) 854-8616
16	2116	Aidan	Chapman	DAIICT	ornare.elit@icloud.edu	(233) 453-8772
17	2117	Warren	Landry	GNLU	malesuada@hotmail.couk	1-626-684-5546

Total rows: 500 of 500 Query complete 00:00:01.384

Events

	event_id [PK] integer	name character (20)	start_date date	start_time time without time zone	duration integer	event_venue character varying (28)	event_budget numeric	event_fees numeric	manager_id integer
1	1	DJ	2023-04-22	18:16:00	1	Lecture Theatre-3	53415	0	2537
2	2	FizzBuzz	2023-07-03	10:01:00	3	CEP	98815	200	2303
3	3	Chess64	2023-07-24	21:57:00	1	GMDC	108447	500	2191
4	4	i.Clash	2023-06-04	20:21:00	1	Lecture Theatre-1	177266	0	2172
5	5	Painting	2023-04-23	11:52:00	2	GNLU Playground	187901	1000	2590
6	6	BlindC	2023-04-27	16:24:00	2	CEP	36233	100	2529
7	7	SellOut	2023-03-22	17:45:00	1	Lab	166181	1500	2543
8	8	RepoReboot	2023-02-24	21:39:00	2	Lecture Theatre-2	88471	500	2397
9	9	CryptoTrade	2023-07-11	17:57:00	3	BasketBall Court	59683	500	2191
10	10	i.Quiz	2022-11-20	17:28:00	4	Lecture Theatre-3	48132	0	2158
11	11	Chess64	2023-02-20	19:53:00	2	GNLU Playground	175355	0	2320
12	12	i.OHunt	2022-11-15	15:23:00	1	BasketBall Court	17226	0	2515
13	13	SellOut	2023-05-31	13:02:00	3	Lecture Theatre-1	145187	0	2346
14	14	Dance	2023-05-17	19:07:00	2	Lecture Theatre-3	196412	2000	2259
15	15	FizzBuzz	2022-10-18	14:46:00	2	Lecture Theatre-1	45328	0	2171
16	16	Chess64	2023-01-14	20:39:00	1	Playground	190334	200	2397
17	17	SellOut	2022-10-08	18:03:00	3	Lecture Theatre-3	126334	500	2475

Total rows: 30 of 30 | Query complete 00:00:01.862 | Ln 1, Col 1

Attendees

	s_id [PK] integer	event_id [PK] integer
1	2101	29
2	2102	10
3	2103	27
4	2105	23
5	2107	5
6	2111	2
7	2111	11
8	2111	12
9	2112	24
10	2114	6
11	2116	11
12	2117	7

Total rows: 494 of 494 | Query complete 00:00:04.440 | Ln 1, Col 1

volunteers

	s_id [PK] integer	event_id [PK] integer
1	2108	18
2	2108	23
3	2110	20
4	2111	27
5	2115	8
6	2115	13
7	2116	14
8	2118	15
9	2121	10
10	2131	21
11	2132	27
12	2139	25
13	2140	1
14	2143	15
15	2147	17
16	2150	5
17	2150	29

Total rows: 149 of 149 Query complete 00:00:01.964 Ln 1, Col 1

Sponsorship

	sp_id [PK] integer	company character varying	cash numeric	stall_status boolean	event_id integer
1	1	PepsiCo	50000	false	27
2	2	Deloitte	200000	false	6
3	3	IBM	10000	false	19
4	4	ONGC	70000	false	20
5	5	Microsoft	150000	true	20
6	6	Nestle	20000	false	17
7	7	IBM	50000	false	1
8	8	Puma	30000	true	24
9	9	Nokia	40000	true	26
10	10	Amazon	80000	true	24
11	11	Ericsson	180000	true	8
12	12	Microsoft	40000	true	1
13	13	Google	50000	true	13
14	14	Google	200000	false	18
15	15	Puma	10000	true	5
16	16	Ericsson	70000	true	16
17	17	Red FM	150000	false	19
18	18	TCS	20000	true	12

Total rows: 80 of 80 Query complete 00:00:02.082 Ln 1, Col 1

Competitions

	event_id [PK] integer	team_size integer	reward integer
1	15	2	5000
2	16	4	1000
3	17	3	9000
4	18	3	8000
5	19	2	7000
6	20	3	6000
7	21	3	15000
8	22	3	40000
9	23	3	5000
10	24	4	5000
11	25	4	5000
12	26	2	1000
13	27	3	9000
14	28	3	8000
15	29	3	7000
16	30	4	6000

Total rows: 16 of 16 | Query complete 00:00:01.968 | Ln 1, Col 1

Competing team

	t_id [PK] integer	event_id integer
1	1	15
2	2	22
3	3	28
4	4	23
5	5	27
6	6	24
7	7	20
8	8	15
9	9	24
10	10	18
11	11	25
12	12	17
13	13	21
14	14	25
15	15	16
16	16	28
17	17	29

Total rows: 200 of 200 | Query complete 00:00:04.691 | Ln 1, Col 1

Members

	s_id [PK] integer	t_id [PK] integer
1	2102	45
2	2104	8
3	2104	77
4	2105	43
5	2105	46
6	2105	158
7	2106	4
8	2106	71
9	2106	130
10	2107	37
11	2107	79
12	2108	83
13	2108	117
14	2109	82
15	2112	38
16	2112	70
17	2114	90

Total rows: 499 of 499 Query complete 00:00:04.588 Ln 1, Col 1

Winners

	t_id [PK] integer	event_id [PK] integer	prize integer
1	1	15	1
2	2	22	1
3	4	23	1
4	6	24	1
5	7	20	1
6	8	15	2

Total rows: 48 of 48 Query complete 00:00:02.614 Ln 1, Col 1

8. Queries for the database

a. Queries

Simple Queries

- List all companies that have sponsored greater than 50,000 .
- Find out the average event fee for all events that have a fee .
- Find out the number of events scheduled in the year 2023.
- Display student details of those who are managing an event.
- Display all events that are not of type Competition.
- List details of the latest 3 competitions .
- Show IDs of all Volunteers.
- Display details of all Students of “DAIICT”.
- Show details of all events with a budget smaller than 20000.
- Show details of all sponsorships that were given by Amazon.
- Display details of competing teams with team size between 3 and 4.
- Show details of all events charging more than 800.
- Display event name and its reward .
- Display all events that are scheduled in November.
- Display student details of all students whose first name starts with ‘K’.

Complex Queries

- Display the details of the students who won first position in the Competition ‘"FizzBuzz”.
- List the number of distinct events scheduled in each month.
- List all the events scheduled between date 20/11/2022 and 20/05/2023(dd/mm/yyyy).
- List Student details for all those who didn't participate in the fest in any way.
- Find out the most popular event and display its sponsorship.
- Display list of students with the events they are attending or attended.
- Display the students that belong to the college that has maximum no. of attendees.
- Display the event that got the highest sponsorship.
- Find the competition details with the largest team size requirement.
- Display students of “DAIICT”who attended the event “SellOut”.
- Find out the event with the maximum number of students Volunteers.
- Find out event details with sponsorship that has Stall Status as “false”.
- Find out the student IDs who won 2nd place in the event ‘Designing’ .
- Display all winner details of the event called ‘Painting’.
- Find if there are any students with the same name and if they attended the same event.
- Find out the students who are members of the team with t_id 188.
- Find companies who sponsored for the event that is managed by a student with s_id 2106.
- Find out the details for the student who attended the most events.

- Display student details of those who are managing competitions.

b. SQL statements

Simple Queries

- List all companies that have sponsored greater than 50,000 .

Query | Query History

```
1  SELECT company
2  FROM college_fest.sponsorships
3  WHERE cash > 50000
4
```

Data Output | Messages | Notifications

	company character varying
1	Deloitte
2	ONGC
3	Microsoft
4	Amazon
5	Ericsson

Total rows: 33 of 33 | Query complete 00:00:10.855 | Ln 4, Col 1

- Find out the average event fee for all events that have a fee .

Query | Query History

```
1  SELECT AVG(event_fees)
2  FROM college_fest.events
3  WHERE event_fees >0
4
5
```

Data Output | Messages | Notifications

	avg numeric
1	752.9411764705882353

Total rows: 1 of 1 | Query complete 00:00:00.291 | Ln 3, Col 19

- Find out the number of events scheduled in the year 2023.

```
SELECT COUNT(*)
FROM college_fest.events
WHERE DATE_PART('year',start_date::date) = 2023
```

count bigint
21

Total rows: 1 of 1 | Query complete 00:00:00.099 | Ln 3, Col 1

- Display student details of those who are managing an event.

```
SELECT *
FROM college_fest.students
WHERE s_id in (SELECT manager_id
        FROM college_fest.events)
```

	s_id [PK] integer	first_name character (20)	last_name character (20)	college_name character (20)	email character varying (50)	phone character varying (28)
1	2106	Beverly	Gentry	DAIICT	dui.cum@aol.edu	(467) 441-2618
2	2158	Carly	Ayers	MICA Ahmeda...	ipsum.ac@hotmail.org	1-454-140-4461
3	2171	Mariko	Holder	GTU	ultricies.ligula@protonmail.org	(339) 737-7602
4	2172	Amery	Blackwell	St. Xavier	pellentesque.a.facilisis@outlook.com	(351) 937-3887
5	2191	Maisie	Wright	GNLU	tortor.integer.aliquam@yahoo.net	(643) 385-2225
6	2214	Myles	Ayala	St. Xavier	amet@yahoo.net	1-627-368-5511

Total rows: 28 of 28 | Query complete 00:00:00.957

- Display all events that are not of type Competition.

```
SELECT *
FROM college_fest.events
WHERE event_id NOT IN (SELECT event_id
            FROM college_fest.competitions)
```

	event_id [PK] integer	name character (20)	start_date date	start_time time without time zone	duration integer	event_venue character varying (28)	event_budget numeric	event_fees numeric	manager_id integer
1	1	DJ	2023-04-22	18:16:00	1	Lecture Theatre-3	53415	0	2537
2	2	FizzBuzz	2023-07-03	10:01:00	3	CEP	98815	200	2303
3	3	Chess64	2023-07-24	21:57:00	1	GMDC	108447	500	2191
4	4	i.Clash	2023-06-04	20:21:00	1	Lecture Theatre-1	177266	0	2172
5	5	Painting	2023-04-23	11:52:00	2	GNLU Playground	187901	1000	2590
6	6	BlindC	2023-04-27	16:24:00	2	CEP	36233	100	2529

Total rows: 14 of 14 | Query complete 00:00:00.293 | Ln 6, Col 1

- List details of the latest 3 competitions .

```
SELECT *
FROM college_fest.events JOIN college_fest.competitions
ON events.event_id = competitions.event_id
ORDER BY start_date DESC LIMIT 3
```

	event_id integer	name character (20)	start_date date	start_time time without time zone	duration integer	event_venue character varying (28)	event_budget numeric	event_fees numeric	manager_id integer	event_id integer
1	29	Dance	2023-07-16	11:55:00	3	Lecture Theatre-2	117075	0	2409	2
2	25	i.OHunt	2023-06-17	12:43:00	2	BasketBall Court	13148	0	2106	2
3	18	Designing	2023-06-12	16:44:00	3	Lecture Theatre-3	121040	0	2273	1

Total rows: 3 of 3 | Query complete 00:00:00.344 | Ln 5, Col 1

- Show IDs of all Volunteers.

```
SELECT s_id
FROM college_fest.volunteers
```

	s_id integer
1	2271
2	2335
3	2213
4	2364
5	2570
6	2193

Total rows: 149 of 149 | Query complete 00:00:00.187 | Ln 3, Col 1

- Display details of all Students of “DAIICT”.

```
SELECT *
FROM college_fest.students
WHERE college_name = 'DAIICT'
```

	s_id [PK] integer	first_name character (20)	last_name character (20)	college_name character (20)	email character varying (50)	phone character varying (28)
1	2106	Beverly	Gentry	DAIICT	dui.cum@aol.edu	(467) 441-2618
2	2107	Brittany	Garrett	DAIICT	lorem@outlook.couk	1-854-577-2141
3	2109	Baxter	Fischer	DAIICT	consectetuer@hotmail.ca	(527) 636-6182
4	2112	Otto	Rogers	DAIICT	luctus.felis@google.couk	(266) 793-4233
5	2114	Mariam	Rose	DAIICT	justo@google.org	1-161-463-7584
6	2115	Lars	Mosley	DAIICT	magna.praesent@yahoo.com	(413) 854-8616
7	2116	Aidan	Chapman	DAIICT	ornare.elit@icloud.edu	(233) 453-8772

Total rows: 203 of 203 | Query complete 00:00:00.367 | Ln 8, Col 1

- Show details of all events with a budget smaller than 20000.

```
SELECT *
FROM college_fest.events
WHERE event_budget < 20000
```

	event_id [PK] integer	name character (20)	start_date date	start_time time without time zone	duration integer	event_venue character varying (28)	event_budget numeric	event_fees numeric	manager_id integer
1	12	i.OHunt	2022-11-15	15:23:00	1	BasketBall Court	17226	0	2515
2	23	Chess64	2023-02-28	20:36:00	4	Lecture Theatre-2	19716	500	2554
3	25	i.OHunt	2023-06-17	12:43:00	2	BasketBall Court	13148	0	2106

- Show details of all sponsorships that were given by Amazon.

```
SELECT *
FROM college_fest.sponsorships
WHERE company = 'Amazon'
```

	sp_id [PK] integer	company character varying	cash numeric	stall_status boolean	event_id integer
1	10	Amazon	80000	true	24
2	27	Amazon	10000	false	11
3	63	Amazon	10000	false	23
4	76	Amazon	70000	false	21

Total rows: 4 of 4 | Query complete 00:00:00.234 | Ln 4

- Display details of competing teams with team size between 3 and 4.

```
SELECT *
FROM college_fest.competitions
WHERE team_size between 3 AND 4
```

	event_id [PK] integer	team_size integer	reward integer
1	16	4	1000
2	17	3	9000
3	18	3	8000
4	20	3	6000

Total rows: 13 of 13 | Query complete 00:00:00.093

- Show details of all events charging more than 800.

Query Query History

```
SELECT *
FROM college_fest.events
WHERE event_fees > 800
```

Data Output Messages Notifications

	event_id [PK] integer	name character (20)	start_date date	start_time time without time zone	duration integer	event_venue character varying (28)	event_budget numeric	event_fees numeric	manager_id integer
1	5	Painting	2023-04-23	11:52:00	2	GNLU Playground	187901	1000	2590
2	7	SellOut	2023-03-22	17:45:00	1	Lab	166181	1500	2543
3	14	Dance	2023-05-17	19:07:00	2	Lecture Theatre-3	196412	2000	2259
4	19	Designing	2022-11-05	13:15:00	2	Lab	174769	1000	2493

Total rows: 6 of 6 Query complete 00:00:00.263 Ln 4,

- Display event name and its reward .

Query Query History

```
SELECT events.name , reward
FROM college_fest.events JOIN college_fest.competitions
ON events.event_id = competitions.event_id
```

Data Output Messages Notifications

	name character (20)	reward integer
1	FizzBuzz	5000
2	Chess64	1000
3	SellOut	9000
4	Designing	8000

Total rows: 16 of 16 Query complete 00:00:00.102 Ln 4,

- Display all events that are scheduled in November.

Query Query History

```
SELECT *
FROM college_fest.events
WHERE DATE_PART('month',start_date::date)= 11
```

Data Output Messages Notifications

	event_id [PK] integer	name character (20)	start_date date	start_time time without time zone	duration integer	event_venue character varying (28)	event_budget numeric	event_fees numeric	manager_id integer
1	10	i.Quiz	2022-11-20	17:28:00	4	Lecture Theatre-3	48132	0	2158
2	12	i.OHunt	2022-11-15	15:23:00	1	BasketBall Court	17226	0	2515
3	19	Designing	2022-11-05	13:15:00	2	Lab	174769	1000	2493
4	27	Rock Band	2022-11-01	13:37:00	1	Playground	155038	0	2214

Total rows: 4 of 4 Query complete 00:00:00.177 Ln 4,

- Display student details of all students whose first name starts with ‘K’.

Query Query History

```
1  SELECT *
2  FROM college_fest.students
3  WHERE first_name LIKE 'K_%'
4
5
```

Data Output Messages Notifications

	s_id [PK] integer	first_name character (20)	last_name character (20)	college_name character (20)	email character varying (50)	phone character varying (28)
1	2133	Keefe	Pennington	DAIICT	integer.tincidunt@yahoo.ca	1-564-871-1188
2	2170	Keelie	Stanton	St. Xavier	ac@aol.com	1-312-920-6259
3	2203	Kylan	Diaz	GTU	eget.laoreet.posuere@icloud.couk	1-458-426-2776
4	2204	Keefe	Weiss	GNLU	luctus.felis.purus@yahoo.edu	1-299-666-0072
5	2221	Kermit	Oneal	St. Xavier	libero.donec@protonmail.couk	1-830-213-7044

Total rows: 35 of 35 Query complete 00:00:00.440 Ln 5, Col 1

Complex Queries

- Display the details of the students who won first position in the Competition ‘"FizzBuzz”.

```
SELECT *
FROM college_fest.students JOIN college_fest.team_members
     ON students.s_id = team_members.s_id
WHERE t_id =
     (SELECT t_id
      FROM college_fest.winners
      WHERE prize = 1 AND event_id =(SELECT event_id
                                     FROM college_fest.competitions
                                     WHERE event_id in(SELECT event_id
                                                       FROM college_fest.events
                                                       WHERE events.name ='FizzBuzz')))
```

Data Output | Messages | Notifications

	s_id integer	first_name character (20)	last_name character (20)	college_name character (20)	email character varying (50)	phone character varying (28)	s_id integer	t_id integer
1	2535	Madaline	Moon	DAIICT	malesuada.fringilla@google.edu	1-604-642-9687	2535	1

Total rows: 1 of 1 | Query complete 00:00:00.384 | Ln 10, Col 16

- List the number of distinct events scheduled in each month.

```
SELECT DATE_PART('month',start_date::date)AS month,
  COUNT(*) as num_events
FROM college_fest.events
GROUP BY month
ORDER BY month
```

Data Output | Messages | Notifications

	month double precision	num_events bigint
1	1	2
2	2	5
3	3	1

Total rows: 9 of 9 | Query complete 00:00:00.087 | Ln 3, Col 25

- List all the events scheduled between date 20/11/2022 and 20/05/2023(dd/mm/yyyy).

```
SELECT *
FROM college_fest.events
WHERE start_date>'2022-11-20' AND start_date<'2023-05-20'
```

Data Output | Messages | Notifications

	event_id [PK] integer	name character (20)	start_date date	start_time time without time zone	duration integer	event_venue character varying (28)	event_budget numeric	event_fees numeric	manager_id integer
1	1	DJ	2023-04-22	18:16:00	1	Lecture Theatre-3	53415	0	2537
2	5	Painting	2023-04-23	11:52:00	2	GNLU Playground	187901	1000	2590
3	6	BlindC	2023-04-27	16:24:00	2	CEP	36233	100	2529

Total rows: 12 of 12 | Query complete 00:00:00.243 | Ln 4, Col 1

- List Student details for all those who didn't participate in the fest in any way.

```
SELECT *
FROM college_fest.students
WHERE s_id NOT IN((SELECT s_id
                FROM college_fest.attendees)UNION
                  (SELECT s_id
                   FROM college_fest.volunteers)UNION
                  (SELECT manager_id
                   FROM college_fest.events) UNION
                  (SELECT s_id
                   FROM college_fest.team_members))
```

Data Output | Messages | Notifications

	s_id [PK] integer	first_name character (20)	last_name character (20)	college_name character (20)	email character varying (50)	phone character varying (28)
1	2113	Ava	Harding	Gujarat Univers...	enim.etiam@icloud.edu	(586) 677-2973
2	2119	Iris	Walton	DAIICT	pede.ultrices@protonmail.edu	(613) 872-0150
3	2120	Tasha	Stuart	GTU	morbi.tristique@aol.ca	(223) 714-4522

Total rows: 47 of 47 | Query complete 00:00:00.344 | Ln 12, Col 1

- Find out the most popular event and display its sponsorship.

```
SELECT *
FROM college_fest.sponsorships
WHERE event_id =(SELECT event_id
                FROM(SELECT event_id,count(*) AS num_attendees
                    FROM college_fest.attendees
                    GROUP BY event_id
                    ORDER BY num_attendees DESC LIMIT 1
                    )as most_popular)
```

Data Output | Messages | Notifications

	sp_id [PK] integer	company character varying	cash numeric	stall_status boolean	event_id integer
1	13	Google	50000	true	13
2	41	Puma	150000	false	13
3	75	Ericsson	10000	false	13

Total rows: 3 of 3 | Query complete 00:00:00.155 | Ln 9, Col 1

- Display list of students with the events they are attending or attended.

Query | Query History

```
SELECT *
FROM (college_fest.students LEFT OUTER JOIN
     college_fest.attendees ON
     students.s_id = attendees.s_id
      )as student_attends LEFT OUTER JOIN
     college_fest.events ON
      events.event_id = student_attends.event_id
```

Data Output | Messages | Notifications

	s_id integer	first_name character (20)	last_name character (20)	college_name character (20)	email character varying (50)	phone character varying (28)	s_id integer	event_id integer	eve inte
1	2480	Sopoline	Witt	GTU	sed.dolor.fusce@aol.org	1-786-483-7324	2480	18	
2	2125	Indigo	Curry	DAIICT	nec.ante@aol.com	1-587-982-4221	2125	27	
3	2254	Brock	Fry	GNLU	arcu.morbi@yahoo.net	1-961-334-9029	2254	19	

Total rows: 675 of 675 | Query complete 00:00:01.068 | Ln 8, Col 1

- Display the students that belong to the college that has maximum no. of attendees.

Query | Query History

```
SELECT *
FROM college_fest.students
WHERE college_name = (SELECT college_name
                      FROM (college_fest.students JOIN
                            college_fest.attendees ON
                            students.s_id = attendees.s_id)as student_attends
                      GROUP BY college_name
                      ORDER BY count(*) DESC LIMIT 1)
```

Data Output | Messages | Notifications

	s_id [PK] integer	first_name character (20)	last_name character (20)	college_name character (20)	email character varying (50)	phone character varying (28)
1	2106	Beverly	Gentry	DAIICT	dui.cum@aol.edu	(467) 441-2618
2	2107	Brittany	Garrett	DAIICT	lorem@outlook.couk	1-854-577-2141
3	2109	Baxter	Fischer	DAIICT	consectetuer@hotmail.ca	(527) 636-6182

Total rows: 203 of 203 | Query complete 00:00:00.312 | Ln 8, Col 8

- Display the event that got the highest sponsorship.

```
SELECT *
FROM college_fest.events
WHERE event_id = (SELECT event_id
                  FROM(SELECT event_id , SUM(cash) as total_cash
                      FROM college_fest.sponsorships
                      GROUP BY event_id) AS sp_per_event
                  WHERE total_cash = (SELECT MAX(total_cash)
                                      FROM (SELECT event_id ,SUM(cash) as total_cash
                                            FROM college_fest.sponsorships
                                            GROUP BY event_id) AS sp_per_event))
```

Data Output | Messages | Notifications

	event_id [PK] integer	name character (20)	start_date date	start_time time without time zone	duration integer	event_venue character varying (28)	event_budget numeric	event_fees numeric	manager_id integer
1	18	Designing	2023-06-12	16:44:00	3	Lecture Theatre-3	121040	0	2273

Total rows: 1 of 1 | Query complete 00:00:00.133 | Ln 14, Col 1

- Find the competition details with the largest team size requirement.

```
SELECT *
FROM college_fest.events JOIN college_fest.competitions
     ON events.event_id = competitions.event_id
WHERE events.event_id in(SELECT event_id
                         FROM college_fest.competitions
                         WHERE team_size = (SELECT MAX(team_size)
                                            FROM college_fest.competitions))
```

Data Output | Messages | Notifications

	event_id integer	name character (20)	start_date date	start_time time without time zone	duration integer	event_venue character varying (28)	event_budget numeric	event_fees numeric	manager_id integer	event_id integer
1	16	Chess64	2023-01-14	20:39:00	1	Playground	190334	200	2397	16
2	24	Painting	2023-02-19	15:43:00	2	Lab	104487	0	2241	24
3	25	i.OHunt	2023-06-17	12:43:00	2	BasketBall Court	13148	0	2106	25

Total rows: 4 of 4 | Query complete 00:00:00.203 | Ln 9, Col 1

- Display students of “DAIICT”who attended the event “SellOut”.

```
SELECT *
FROM college_fest.students
WHERE college_name = 'DAIICT' AND s_id in (SELECT s_id
                                           FROM college_fest.attendees
                                           WHERE event_id in (SELECT event_id
                                                              FROM college_fest.events
                                                              WHERE name = 'SellOut'))
```

Data Output | Messages | Notifications

	s_id [PK] integer	first_name character (20)	last_name character (20)	college_name character (20)	email character varying (50)	phone character varying (28)
1	2132	Quentin	Noble	DAIICT	magna.phasellus@icloud.ca	(458) 227-0897
2	2147	Leilani	Brock	DAIICT	lectus.cum@aol.org	(183) 837-0732
3	2179	Sonya	Trevino	DAIICT	mollis@yahoo.ca	(777) 787-2761
4	2183	Craig	Herrera	DAIICT	fames.ac.turpis@google.org	(625) 685-1445
5	2187	Lacey	Bell	DAIICT	iusto.sit@protonmail.ca	(943) 629-3336

Total rows: 31 of 31 | Query complete 00:00:00.205

- Find out the event with the maximum number of students Volunteers.

```
SELECT *
FROM college_fest.events
WHERE event_id =(SELECT event_id
                 FROM college_fest.volunteers
                 GROUP BY event_id
                 ORDER BY COUNT(*) DESC LIMIT 1)
```

Data Output | Messages | Notifications

	event_id [PK] integer	name character (20)	start_date date	start_time time without time zone	duration integer	event_venue character varying (28)	event_budget numeric	event_fees numeric	manager_id integer
1	10	i.Quiz	2022-11-20	17:28:00	4	Lecture Theatre-3	48132	0	2158

Total rows: 1 of 1 | Query complete 00:00:00.191 | Ln 15, Col 1

- Find out event details with sponsorship that has Stall Status as “false”.

```
SELECT *
FROM college_fest.events
WHERE event_id in (SELECT event_id
                   FROM college_fest.sponsorships
                   WHERE stall_status = false)
```

Data Output | Messages | Notifications

	event_id [PK] integer	name character (20)	start_date date	start_time time without time zone	duration integer	event_venue character varying (28)	event_budget numeric	event_fees numeric	manager_id integer
1	1	DJ	2023-04-22	18:16:00	1	Lecture Theatre-3	53415	0	2537
2	3	Chess64	2023-07-24	21:57:00	1	GMDC	108447	500	2191

Total rows: 20 of 20 | Query complete 00:00:00.091 | Ln 7, Col 1

- Find out the student IDs who won 2nd place in the event ‘Designing’ .

Query Query History

```
SELECT *
FROM college_fest.students JOIN college_fest.team_members
     ON students.s_id = team_members.s_id
WHERE t_id in(SELECT t_id
              FROM college_fest.winners
              WHERE prize = 2 AND event_id in (SELECT event_id
                                               FROM college_fest.competitions
                                               WHERE event_id in(SELECT event_id
                                                                 FROM college_fest.events
                                                                 WHERE events.name ='Designing')))
```

Data Output Messages Notifications

	s_id integer	first_name character (20)	last_name character (20)	college_name character (20)	email character varying (50)	phone character varying (28)	s_id integer	t_id integer
1	2152	Autumn	Haynes	MICA Ahmedabad	magna.tellus@hotmail.net	(923) 308-4764	2152	56
2	2182	Nero	Hendrix	DAIICT	sem.mollis@outlook.couk	(996) 758-9852	2182	56
3	2543	Tarik	Hahn	Gujarat University	at.nisi@icloud.edu	1-736-918-2168	2543	56

Total rows: 3 of 3 Query complete 00:00:00.338 Ln 4, Col 14

- Display all winner details of the event called ‘Painting’.

Query Query History

```
SELECT *
FROM college_fest.students JOIN college_fest.team_members
     ON students.s_id = team_members.s_id
WHERE t_id in(SELECT t_id
              FROM college_fest.winners
              WHERE event_id in (SELECT event_id
                                 FROM college_fest.competitions
                                 WHERE event_id in(SELECT event_id
                                                   FROM college_fest.events
                                                   WHERE events.name ='Painting')))
```

Data Output Messages Notifications

	s_id integer	first_name character (20)	last_name character (20)	college_name character (20)	email character varying (50)	phone character varying (28)	s_id integer	t_id integer
1	2181	Galvin	Whitaker	DAIICT	ipsum@hotmail.org	1-837-822-0935	2181	9
2	2261	Kasimir	Mayo	GTU	dis@google.ca	1-662-472-0718	2261	9
3	2475	Jenna	Holmes	GTU	libero.est.congue@outlook.org	(553) 633-9897	2475	9
4	2512	Illiana	Velazquez	GTU	a.scelerisque@protonmail.com	1-337-105-0876	2512	9
5	2274	Travis	Cantu	DAIICT	pellentesque.ultricies.dignissim@google.couk	1-323-659-1495	2274	6

Total rows: 8 of 8 Query complete 00:00:00.454 Ln 1, Col 9

- Find if there are any students with the same name and if they attended the same event.

Query Query History

```
SELECT *
FROM (SELECT first_name, count(*) as num_students
      FROM college_fest.students LEFT OUTER JOIN college_fest.attendees
           ON students.s_id = attendees.s_id
      GROUP BY first_name,event_id ) as name_event_combo
WHERE num_students >1
```

Data Output Messages Notifications

	first_name character (20)	num_students bigint
1	Walker	2
2	Tarik	2
3	Connor	2
4	Lionel	2
5	Warren	2

Total rows: 17 of 17 | Query complete 00:00:00.185 | Ln 7, Col 1

- Find out the students who are members of the team with t_id 188.

Query Query History

```
SELECT *
FROM college_fest.students
WHERE s_id in (SELECT s_id
               FROM college_fest.team_members
               WHERE t_id = 188)
```

Data Output Messages Notifications

	s_id [PK] integer	first_name character (20)	last_name character (20)	college_name character (20)	email character varying (50)	phone character varying (28)
1	2123	Lionel	Olson	DAIICT	eget.massa@aol.net	(890) 381-4440
2	2211	Brooke	Parrish	DAIICT	ridiculus.mus.proin@hotmail.c...	(589) 652-5721
3	2273	Bert	Merrill	DAIICT	cras.vulputate.velit@hotmail.net	1-640-686-6334
4	2311	Naomi	Workman	Gujarat University	orci@google.ca	1-556-886-7479

Total rows: 7 of 7 | Query complete 00:00:02.266 | Ln 5, Col 23

- Find companies who sponsored for the event that is managed by a student with s_id 2106.

Query | Query History

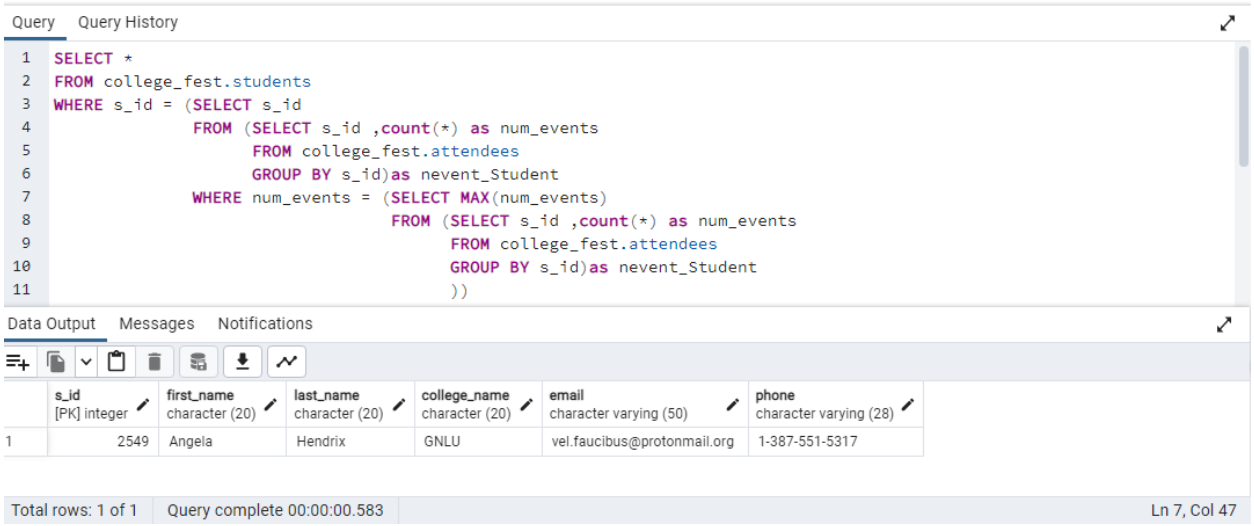
```
SELECT company
FROM college_fest.sponsorships
WHERE event_Id in (SELECT event_id
                   FROM college_fest.events
                   WHERE manager_id = 2106 )
```

Data Output | Messages | Notifications

	company character varying
1	JPMorgan
2	Nokia

Total rows: 2 of 2 | Query complete 00:00:01.012 | Ln 5, Col 26

- Find out the details for the student who attended the most events.



Query | Query History

```
SELECT *
FROM college_fest.students
WHERE s_id = (SELECT s_id
              FROM (SELECT s_id ,count(*) as num_events
                    FROM college_fest.attendees
                    GROUP BY s_id)as nevent_Student
              WHERE num_events = (SELECT MAX(num_events)
                                  FROM (SELECT s_id ,count(*) as num_events
                                        FROM college_fest.attendees
                                        GROUP BY s_id)as nevent_Student
                                  ))
```

Data Output | Messages | Notifications

	s_id [PK] integer	first_name character (20)	last_name character (20)	college_name character (20)	email character varying (50)	phone character varying (28)
1	2549	Angela	Hendrix	GNLU	vel.faucibus@protonmail.org	1-387-551-5317

Total rows: 1 of 1 | Query complete 00:00:00.583 | Ln 7, Col 47

- Display student details of those who are managing competitions.

Query | Query History

```
SELECT *
FROM college_fest.students
WHERE s_id in (SELECT manager_id
               FROM college_fest.events
               WHERE event_id in(SELECT  event_id
                                 FROM college_fest.competitions))
```

Data Output | Messages | Notifications

	s_id [PK] integer	first_name character (20)	last_name character (20)	college_name character (20)	email character varying (50)	phone character varying (28)
1	2106	Beverly	Gentry	DAIICT	dui.cum@aol.edu	(467) 441-2618
2	2171	Mariko	Holder	GTU	ultricies.ligula@protonmail.org	(339) 737-7602
3	2214	Myles	Ayala	St. Xavier	amet@yahoo.net	1-627-368-5511
4	2241	Keiko	Cobb	MICA Ahmedabad	ornare.lectus@protonmail.edu	1-287-998-7884
5	2273	Bert	Merrill	DAIICT	cras.vulputate.velit@hotmail.net	1-640-686-6334

Total rows: 16 of 16 | Query complete 00:00:00.678 | Ln 6, Col 42