

## **Entity Dictionary:**

### **Club:**

**Description:** An organization within the university that hosts events and has members.

#### **Attributes:**

- ClubID: Integer, an identifying number for the club
- Name: Varchar(80), the name of the club
- Type: Varchar(50), the type of the club (e.g., academic, social, sports, etc.).
- FoundedDate: Date, the date when the club was founded
- Primary Key: ClubID

### **Club Faculty:**

**Description:** A connection between students, clubs, and faculty.

#### **Attributes:**

- ClubFacultyID: Integer, a unique identifier for the ClubFaculty relationship.
- Role: Varchar(20), specifies the role of the user in the club (e.g., member, organizer)
- JoinDate: Date, the date when the user joined the club
- Primary Key: ClubFacultyID

### **Club Leaders:**

**Description:** The user leaders of which clubs.

#### **Attributes:**

- Organizing Experience: Integer, experience in organizing club activities.
- Primary Key: Inherits ClubFacultyID from superclass Club Faculty

### **Club Organizers:**

**Description:** The user organizers of which clubs.

#### **Attributes:**

- Leadership Experience: Integer, experience in leadership roles.
- VisionForTheClub: Text, vision for the club's future and direction.
- Primary Key: Inherits ClubFacultyID from superclass Club Faculty

### **Community Service:**

**Description:** The club faculty hosts a community service for the club.

#### **Attributes:**

- Service: Varchar(20), specifies what the service will be
- Primary Key: Inherits EventID from superclass Event

### **Discussion Forum:**

**Description:** A digital platform designed for engaging users in online discussions

#### **Attributes:**

- ForumID: Integer, an identifying number for the discussion forum
- Title: Varchar(100), the title of the forum
- Description: Text, a brief description of the forum's purpose

- CreatedDate: Date, the date when the forum was created
- Primary Key: ForumID

#### **Employee:**

**Description:** Employees within the club/university application system.

#### **Attributes:**

- Salary: Integer, the salary of the employee.
- Primary Key: Inherits UserID from superclass User

#### **Event:**

**Description:** Various events organized within the university by clubs.

#### **Attributes:**

- EventID: Integer, an identifying number for the event
- EventName: Varchar(80), the name of the event
- EventType: Varchar(20), specifies the type of event (workshop, seminar, social, etc.)
- Date: Date, the date of the event
- StartTime: Time, the start time of the event
- EndTime: Time, the end time of the event
- Location: Varchar(100), the location where the event will be held
- Description: Text, a brief description of the event
- Primary Key: EventID inherits from weak entity

#### **Faculty:**

**Description:** Faculty members of the university.

#### **Attributes:**

- Department: Varchar(50), the department where the faculty member works
- Primary Key: Inherits UserID from superclass User

#### **Graduate:**

**Description:** Graduate students within the university.

#### **Attributes:**

- DegreeProgram: Varchar(50), the degree program the graduate student is enrolled in.
- Primary Key: Inherits UserID from superclass User

#### **Post:**

**Description:** User-generated posts within the university's club application.

#### **Attributes:**

- PostID: Integer, an identifying number for the post
- Content: Text, the content of the post
- PostedBy: Integer, the ID of the user who posted the post
- PostedDate: Date, the date when the post was created
- Primary Key: PostID

#### **Seminar:**

**Description:** A type of event representing seminars organized by clubs.

**Attributes:**

- Topic: Varchar(100), the topic of the seminar
- Speaker: Varchar(100), the name of the speaker/presenter
- Primary Key: Inherits EventID from superclass Event

**Social:**

**Description:** A type of event representing social gatherings organized by clubs.

**Attributes:**

- Activity: Varchar(100), the activity planned for the social event
- Primary Key: Inherits EventID from superclass Event

**Staff:**

**Description:** Staff members of the university.

**Attributes:**

- Position: Varchar(50), the position/title of the staff member
- Primary Key: Inherits UserID from superclass User

**Student:**

**Description:** Students enrolled in the university.

**Attributes:**

- Major: Varchar(50), the major of the student
- GraduationDate: Date, the expected graduation date of the student
- Primary Key: Inherits UserID from superclass User

**Undergraduate:**

**Description:** Undergraduate students within the university.

**Attributes:**

- YearLevel: Integer, the current year level of the undergraduate student
- Primary Key: Inherits UserID from superclass User

**User:**

**Description:** Users of the club application within the university.

**Attributes:**

- UserID: Integer, a unique identifier for the user
- Name: Varchar(100), the first name of the user
- UserName: Varchar(80), the username of the user
- Password: Varchar(50), the password of the user
- Email: Varchar(100), the email address of the user
- Primary Key: UserID

**Workshop:**

**Description:** A type of event representing workshops organized by clubs.

**Attributes:**

- Topic: Varchar(100), the topic of the workshop
- Presenter: Varchar(100), the name of the presenter/organizer
- Primary Key: Inherits EventID from superclass Event

## **Relation Dictionary:**

### **Relationship:** Becomes

**Description:** Students or employees become faculty members of one or more clubs. Each club can have one or more students or employees becoming faculty. Clubs can have faculty members without any student or employee becoming faculty, but each student or employee can only become a faculty member of the clubs they are affiliated with.

**Entities:** Student, Employee, Club Faculty

**Cardinality:** Many Students to Many Clubs

**Participation:** Partial-to-Partial

### **Relationship:** Establishes

**Description:** Clubs establish one discussion forum. Each discussion forum is established by one club. Discussion forums can exist without being established by a club; clubs can exist without establishing discussion forums.

**Entities:** Club, Discussion Forum

**Cardinality:** One Club to One Discussion Forum

**Participation:** Partial-to-Partial

### **Relationship:** Hosts

**Description:** Clubs are hosted by students or faculty members. A student or faculty member can host one or more clubs.

**Entities:** Club, User (Student, Faculty)

**Cardinality:** Many Users (Students, Faculty) to Many Clubs

**Participation:** Partial-to-Partial

### **Relationship:** Makes

**Description:** Each user can make one or more posts, and each post can be made by one or more users. Users may exist without making any posts, and posts may exist without being made by any user, but each post must be associated with at least one user, and each user may contribute to multiple posts.

**Entities:** User, Post

**Cardinality:** Many Users to Many Posts

**Participation:** Many-to-Many (Double lines for total participation in diagram)

### **Relationship:** Organizes

**Description:** Clubs organize one or more events. Events must be organized by one club. Events cannot exist without being organized by a club; clubs can exist without organizing events.

**Entities:** Club, Event

**Cardinality:** One Club to Many Events

**Participation:** Partial-to-Total (Double lines for Total)

### **Relationship:** Stored

**Description:** Posts are stored in one discussion forum. A discussion forum contains one or more posts. Posts cannot exist without being stored in a discussion forum, as there needs to be a place to post them. However, a discussion forum can exist without containing any posts.

**Entities:** Post, Discussion Forum

**Cardinality:** One Discussion Forum to Many Posts

**Participation:** Total-to-Partial(Double lines for participation in diagram)

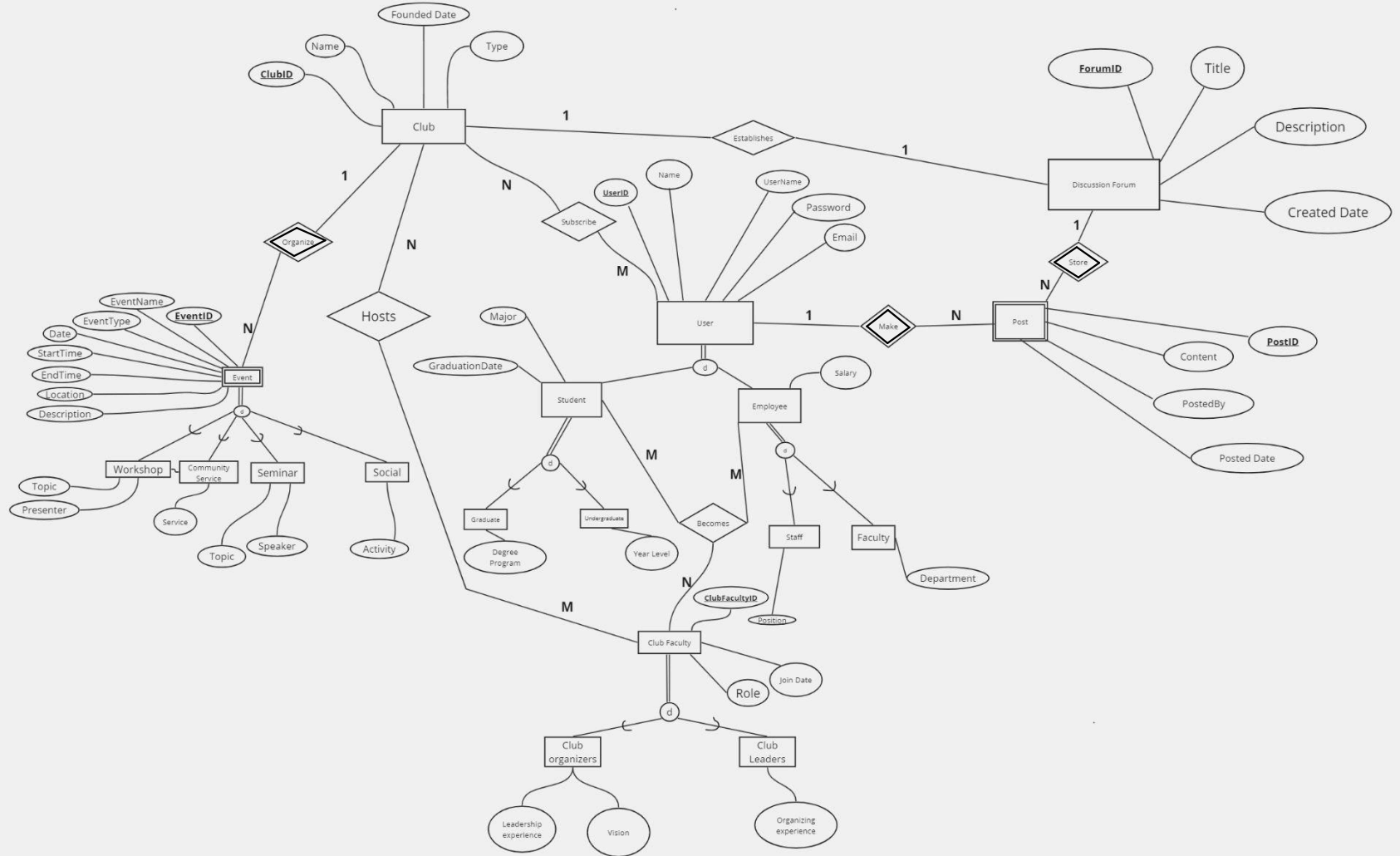
**Relationship:** Subscribes

**Description:** Users subscribe to one or more clubs. Clubs have one or more subscribers. Users can exist without subscribing to any club; clubs can exist without having any subscribers.

**Entities:** User, Club

**Cardinality:** Many Users to Many Clubs

**Participation:** Partial-to-Partial



The name of the cohort: ClubLinkers

The description of the Mini-World: Comet Connect!

Welcome to Comet Connect, the University of Texas at Dallas club hub app! This app is your gateway to exploring and engaging with a diverse array of clubs, each hosting exciting events on campus.

Whether you're a student (undergraduate or graduate) or an employee (staff, faculty, or club faculty), the app simplifies the process of subscribing to clubs that match your interests. Once subscribed, you can actively participate by making posts within the app, and these posts will be stored in dedicated discussion forums created by the clubs.

Discover an array of events organized by clubs, such as workshops, community service activities, seminars, and social gatherings. What makes Comet Connect special is the active involvement of club faculty who not only guide but also host the clubs. Students and employees have the opportunity to transition into club faculty, and employees, including staff and faculty, can become integral members of the hosting process.

Comet Connect is more than just an app; it's a dynamic platform designed to bring the university community together. Explore, engage, and connect through clubs, events, and discussions—all conveniently accessible through the Comet Connect app. It's your go-to space for fostering a sense of community and staying actively involved in campus life.