Data model

1. Users

Attributes: visitor

Relationships:

One-to-one with web browsing (a user can navigate through the webpage)

One-to-one with ContactFormSubmission (a user can submit an inquiry)

2. Admin

Attributes: adminID, Privileges

Relationships:

One-to-many with Event (an admin can create/add multiple events)

One-to-many with Privileges (an admin can change an officers roles/privileges)

3. Privileges

Attributes: privilegeID, roles, accessLevels

Relationships:

Many-to-One with Officers (Officers can have the same roles/privileges)

One-to-Many with Admin (Admins can manage roles/privileges)

4. Events

Attributes: eventID, eventTitle, eventDescription, eventDate, eventLocation, status

Relationships:

Many-to-many with Users through Events (users can view and attend events)

Many-to-many with socialMedia (event information is posted on social media)

5. Contact Form Submission

Attributes: submissionID, userID, message, status, submissionTimeStamp

Relationship:

One-to-many with Officers (an officer can answer a users question)

One-to many with Users (a user can submit an inquiry)

6. Officers

Attributes: officerID, firstName, lastName, role, email, bio, photoURL

Relationships:

One-to-many with Users (users can see officers information in bio)

Many-to-one with Admin (officers can have the same privileges)

7. Former Officers

Attributes: officerID, firstName, lastName, email, bio, photoURL

Relationships:

One-to-many with Users (users can see officers information in bio)

Schema

```
CREATE TABLE User (
        userID INT PRIMARY KEY AUTO_INCREMENT
);


CREATE TABLE Admin (
        adminID INT PRIMARY KEY AUTO_INCREMENT,
        Name VARCHAR(100) NOT NULL,
        Role VARCHAR(100) NOT NULL,
        Email VARCHAR(100),


CREATE TABLE Privileges (
        PrivilegeID INT PRIMARY KEY AUTO_INCREMENT,
        Role ENUM('Admin', 'Officer', 'Visitor') NOT NULL,
        AccessLevel INT NOT NULL -- Numerical level for access permissions
);


CREATE TABLE Events (
        eventID INT PRIMARY KEY AUTO_INCREMENT,
        //Platform ENUM('LinkedIn', 'Instagram') NOT NULL,
        EventTitle VARCHAR(255),
        EventDescription TEXT,
        EventDate TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
        EventLocation VARCHAR(255)
```

```sql
        EventURL VARCHAR(255),
        IsVisible BOOLEAN DEFAULT TRUE
        //Status ENUM ('Starting Soon', 'Ongoing', 'Ended'
 );


CREATE TABLE ContactFormSubmission (
        SubmissionID INT PRIMARY KEY AUTO_INCREMENT,
        UserID INT,
        Message TEXT NOT NULL,
        OfficerAssigned INT, -- References OfficerID
        Status ENUM('Submitted', 'Read', 'Resolved') DEFAULT 'Submitted',
        SubmissionTimestamp TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);


CREATE TABLE Officers (
        officerID INT PRIMARY KEY AUTO_INCREMENT,
        firstName VARCHAR(100) NOT NULL,
        lastName VARCHAR(100) NOT NULL,
        Role VARCHAR(100) NOT NULL,
        Email VARCHAR(100),
        Bio TEXT,
        ProfilePhotoIMG VARCHAR(255),
);


CREATE TABLE FormerOfficers (
        officerID INT PRIMARY KEY AUTO_INCREMENT,
        firstName VARCHAR(100) NOT NULL,
        lastName VARCHAR(100) NOT NULL,
        Email VARCHAR(100),
        Bio TEXT,
        ProfilePhotoIMG VARCHAR(255),
);
```
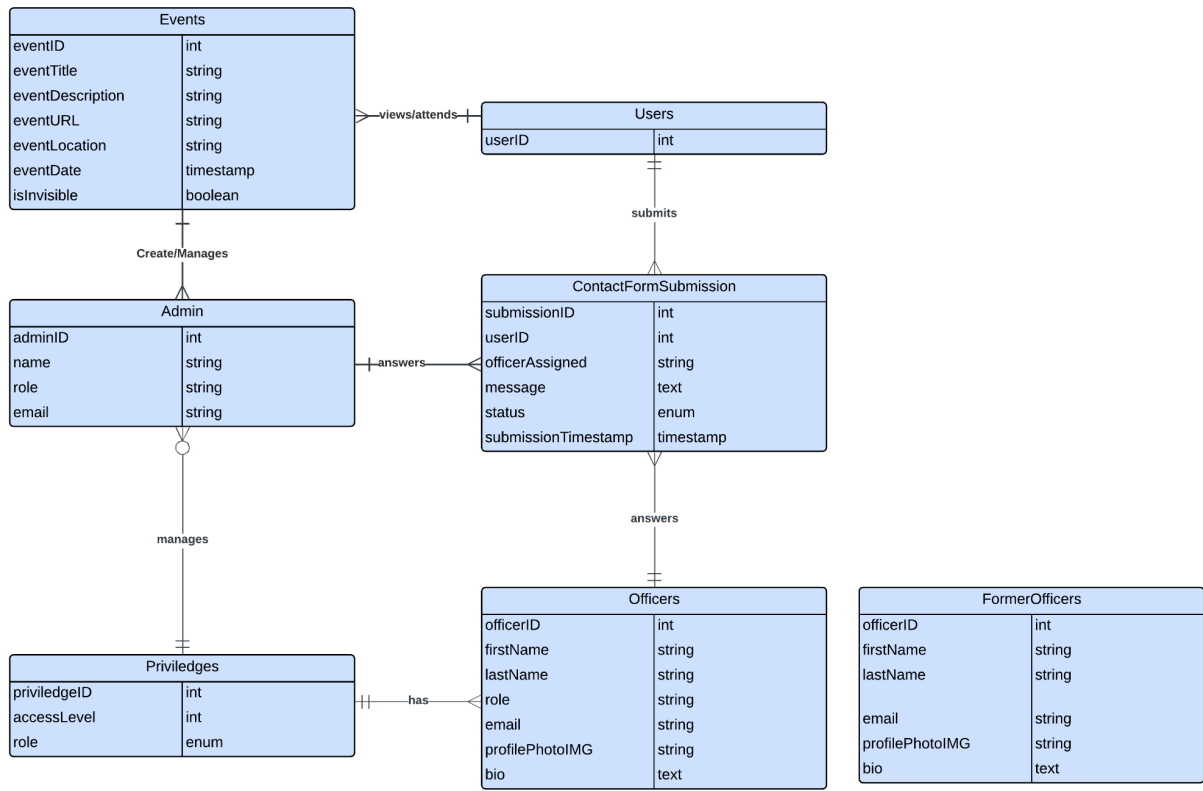
ER Diagram

Events

eventID	int
eventTitle	string
eventDescription	string
eventURL	string
eventLocation	string
eventDate	timestamp
isInvisible	boolean

Users

userID	int

views/attends

submits

Create/Manages

Admin

adminID	int
name	string
role	string
email	string

answers

ContactFormSubmission

submissionID	int
userID	int
officerAssigned	string
message	text
status	enum
submissionTimestamp	timestamp

manages

answers

Priviledges

priviledgeID	int
accessLevel	int
role	enum

has

Officers

officerID	int
firstName	string
lastName	string
role	string
email	string
profilePhotoIMG	string
bio	text

FormerOfficers

officerID	int
firstName	string
lastName	string
email	string
profilePhotoIMG	string
bio	text

Sample Data

INSERT INTO User (userID, role)
VALUES
(1, 'Visitor'),
(2, 'Visitor');

INSERT INTO Admin (adminID, Privileges, Role)
VALUES
(1, 'Create Event, Manage Events, Manage Privileges, Admin');

INSERT INTO Privileges (privilegeID, Role, accessID)
VALUES
(1, 'Admin', 1),
(2, 'Officer', 2),
(3, 'User', 3),
(4, 'Admin', 1);

INSERT INTO Events (eventID, eventTitle, eventDescription, eventDate, eventLocation, eventURL, isVisible, status)
VALUES
(1, 'IEEE Party', 'Join the party!.', '2024-11-20 12:00:00', 'Catalyst Spokane WA', FALSE, 'Ended'),
(2, 'Meet n Greet', 'Meet new people!', '2024-12-25 18:00:00', 'Space Needle Seattle WA', TRUE, 'Starting Soon')
(3, 'Website Rebrand Party!', 'New website!', '2025-03-20 23:59:00', 'EWU Cheney WA', TRUE, 'Ongoing');

INSERT INTO ContactFormSubmission(SubmissionID, UserID, Message, OfficerAssigned, Status, SubmissionStamp)

VALUES

(1, 1, 'Thank you for submitting inquiry, an officer will answer it soon', 'Jane Swatson', 'Read', '2024-10-02 13:20:00'),

(2, 1, 'Thank you for submitting inquiry, an officer will answer it soon', 'Klaus Hendrickson', 'Resolved', '2024-10-10 22:13:00'),

(3, 2, 'Thank you for submitting inquiry, an officer will answer it soon', 'Ji Ho', 'Submitted', '2025-01-01 00:00:00');

INSERT INTO Officers(officerID, firstName, lastName, role, email, bio, profilePhotoIMG)
VALUES

(1, 'Jane', 'Swatson', 'Secretary', 'janeswat@email.com', 'hi', photo),

(2, 'Klaus', 'Hendrikson', 'Supervisor', 'Hendrikson@email.com', 'there', photo),

(3, 'Ji', 'Ho', 'CEO', 'jiho@email.com', '안녕하세요' photo);

INSERT INTO FormerOfficers(officerID, firstName, lastName, email, bio, profilePhotoIMG)
VALUES

(1, 'Jane', 'Swatson', 'janeswat@email.com', 'hi', photo),

(2, 'Klaus', 'Hendrikson', 'Hendrikson@email.com', 'there', photo),

(3, 'Ji', 'Ho', 'jiho@email.com', '안녕하세요' photo);