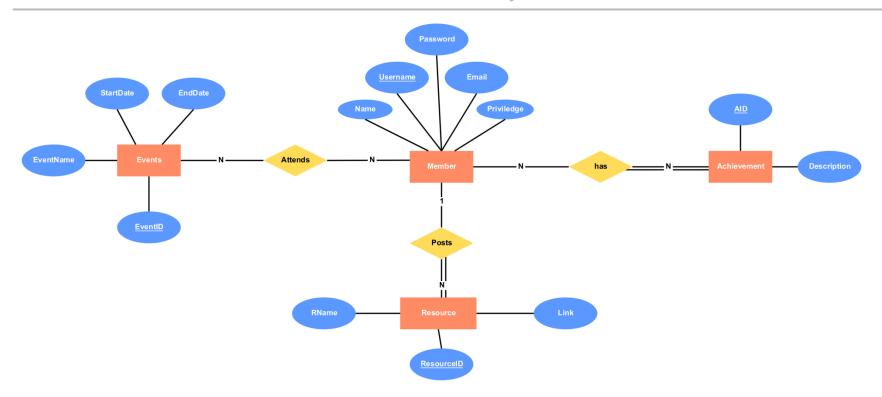
## ER Diagram

## Club Administration System



Four Entities – Events, Member, Resource, Achievement

Three relations: 1 (Members attend Events), 2 (Members have Achievements), 3 (Members Post Resources)

## Relational Schemas

Relational Tables and their constraints:

```
1) Events(
  EventID INT PrimaryKey AUTO_INCREMENT,
  EventName VARCHAR(40),
                                                     4) Resources(
  SDate Date,
                                                        ResID INT PrimaryKey AUTO INCREMENT,
  EDate Date
                                                        RName VARCHAR(50) NotNull,
                                                        Link TEXT NotNull,
                                                        PostedBy VARCHAR(250) NotNull
2) Members(
  Username VARCHAR(250) PrimaryKey,
  Password VARCHAR(30) NotNull,
                                                     5) Attended(
  Email VARCHAR(80) NotNull,
                                                        Username VARCHAR(250),
  Priviledge VARCHAR(10)
                                                        EventID INT
3) Achievement(
                                                     6) Achieved(
  AID INT PrimaryKey AUTO_INCREMENT,
                                                        AID INT,
  Descr TEXT NotNull,
                                                        Username VARCHAR(250)
```

The relation schemas for Attended and Achieved are to satisfy the relations 1 and 2.

Relation 3 is satisfied by adding a posted by foreign key in the Resource table itself (since it is a total one sided participation).

The other tables are one for each entity.

Constraints on the tables for each individual table are mentioned above.

Other than those, we have foreign key constraints as follows:

Table Resources:

CONSTRAINT FK\_ResPostedBy

FOREIGN KEY (PostedBy) REFERENCES Members(Username);

Table Achieved:

CONSTRAINT FK\_Achiever

FOREIGN KEY (AID) REFERENCES Achievement(AID);

FOREIGN KEY (Username) REFERENCES Members(Username);

Table Attended:

CONSTRAINT FK\_Attended

FOREIGN KEY (EventID) REFERENCES Events(EventID);

FOREIGN KEY (Username) REFERENCES Members(Username);