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# Databases I Project

## Milestone 1 Relational Schema

Match (match\_ID, starting\_time, ending\_time, allowed\_number\_of\_attendees, SMA\_ID, stadium\_ID, host\_ID, guest\_ID)

Match.SMA\_ID references Sports\_Association\_Manager

Match.stadium\_ID references Stadium

host\_ID references Club.club\_ID

guest\_ID references Club.club\_ID

Club (club\_ID, name, location)

Representative (representative\_ID, name, club\_ID)

Representative.club\_ID references Club

Stadium (stadium\_ID, name, capacity, location, status)

Manager (name, manager\_ID, stadium\_ID)

Manager.stadium\_ID references Stadium

Ask (manager\_ID, representative\_ID, approve)

Ask.manager\_ID references Manager

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Ask.representative\_ ID references Representative

Ticket (Ticket\_ID, match\_ID, stadium\_ID, status, user\_name)

Ticket.stadium\_ID references Stadium

Ticket.match\_ID references Match

Ticket.user\_name references Fan

User (user\_name, password)

Fan (user\_name, name, national\_ID\_number, birth\_date, address, phone\_number)

Fan.user\_name references User

System\_Admin (user\_name)

System\_Admin.user\_name references User

Block\_user (fan\_user\_name, admin\_user\_name, time)

Block\_user.admin\_user\_name references System\_Admin.user\_name

Block\_user.fan\_user\_name references Fan.user\_name

edit\_user (fan\_user\_name, admin\_user\_name, action)

edit\_user.admin\_user\_name references System\_Admin.user\_name

edit\_user.fan\_user\_name references Fan.user\_name

edit\_club (club\_ID, admin\_user\_name, action)

edit\_club.admin\_user\_name references System\_Admin.user\_name

edit\_club.club\_ID references Club

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edit\_stadium (stadium\_ID, admin\_user\_name, action)

edit\_stadium.admin user name references System\_Admin

edit\_stadium.stadium\_ID references Stadium

Sports\_Association\_Manager (SMA ID, user\_name, name)

Sports\_Association\_Manager.user\_name references User

# Milestone 1

## EERD report (TEAM 63)

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1. To clarify that Matches will be played by exactly two Clubs, we established two relationships.
  - a. Host to relate the hosting club to match.
  - b. Guest to relate the away (visiting) club to match.
2. To clarify that a club representative will be responsible for asking for the permission to host the matches from the stadium manager, we established the “ask” relationship between club representative and stadium manager and added the attribute “approve” as the response of the manager.
3. Since the ticket entity depends on the match being accepted by the stadium manager it is a weak entity depending on the match and stadium using the relationships “has”.
4. The relations “edit” between system admin and club, stadium and fan for adding and deleting them so we added an attribute to the relation (“action”) which implies add and delete.
5. Since the Sports Association Manager creates, edits and deletes clubs from the system then he is a user, so he inherits from the user as System Admin and Fans, also he has two primary keys SMA ID and user name.
6. While the representative and the stadium manager entities are not users since they do not use the system while asking and approving, they do not inherit from the user entity, also because they are weak entities depending on the club and the stadium.