

## **DAA GROUP Assignment (PHASE-2)**

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### *Are the requirements complete or missing something?*

1. There were no relationships defined.
2. Key attribute distributions were missing in some entities.
3. Constraints on attributes were missing.
4. Stats attribute of player entity was not defined.
5. The attribute "Who scored the points in different rounds" in Tournament Matches was ambiguous.
6. The attributes of the matches were dicey.
7. There were no primary keys for the entities venue and tournament matches.

### *Are any requirements incorrectly included?*

1. The project authors assume that only 2 teams can play in a match. The rules clearly state that any number of teams pre-decided by the organizers can participate
2. Only one tournament is considered, whereas the competition happens every year, so information about only one season can be captured.

### *How easy is it to design the ER model with these set of requirements?.*

The given project specified only the entities and not any of the relationships between them. It also had some inconsistencies around how the matches and rounds work. We had to come up with the relationships and resolve all inconsistencies in attributes and definitions.

After resolving all the conflicts, the ER diagram was fairly clean and straightforward to make.

## **Changes**

1. Ground staff is a weak entity of Venues, and Referees is a weak entity of Tournament Matches.
2. Removed teams1 and team2 as attributes in Tournament matches and made them into relationships.
3. No relationships had been previously defined. We defined all of them.

4. For the ground staff the attribute 'venue' attribute is removed since it is converted into a weak relationship between the venue and ground staff.
5. The 'venue' attribute for the tournament matches has been converted into a relationship, also taking into account the fact that a particular tournament can have only a single venue, though the venue can change for different years.
6. Added keys for the tournament and venue entities.

## **Relationships defined**

IS\_PLAYED\_IN:

Entities: Tournament Matches, Venue

IS\_PART\_OF:

Entities: Player, Team

PLAYS:

Entities: Team, Tournament Matches, Neutral Seekers

IS\_MANAGED\_BY:

Entities: Venue, Ground Staff

IS\_REFEREED\_BY:

Entities: Tournament Match, Referees

[If the ER diagram is not clear, view it here](#)

