

DAA Phase: 3 PROJECT

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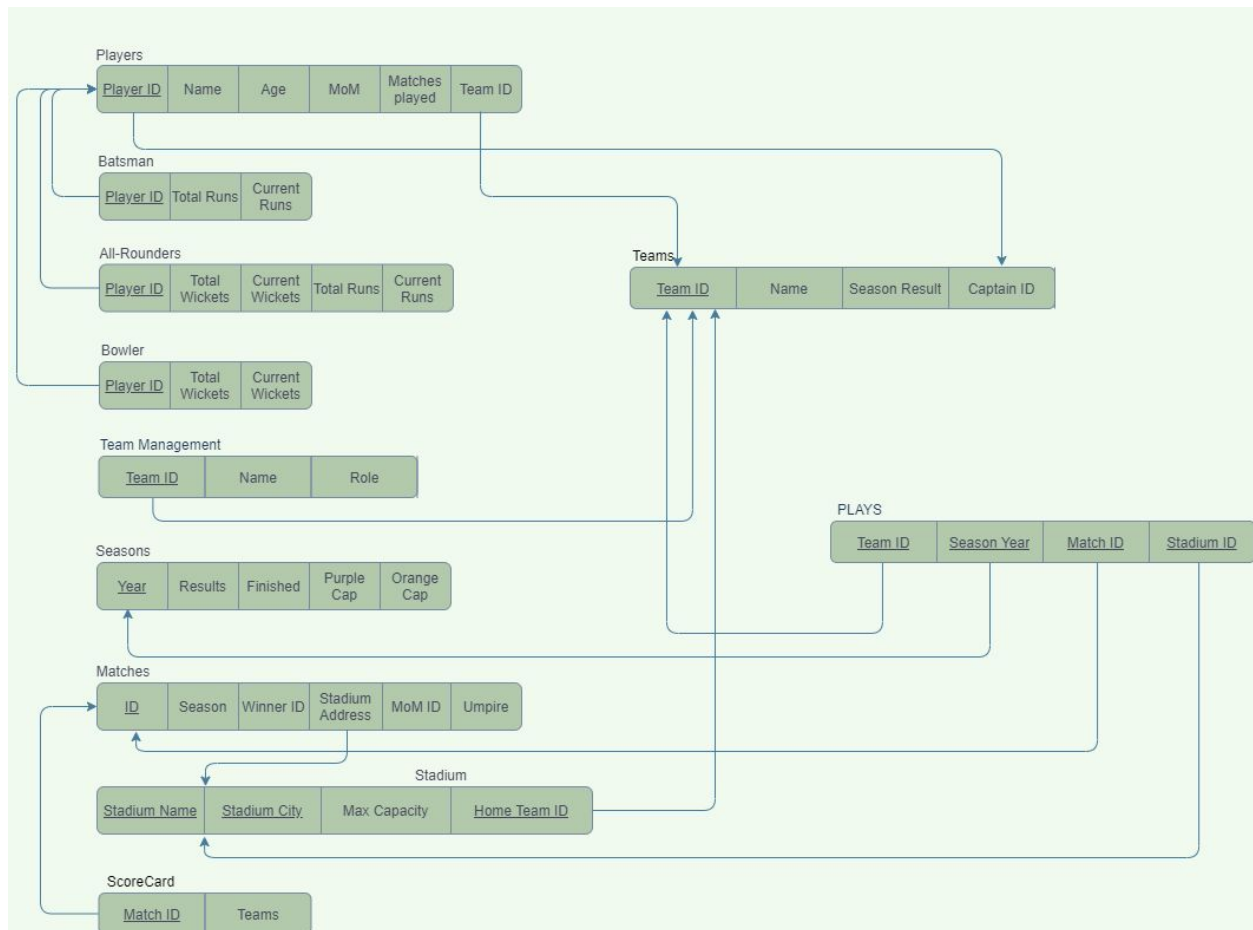
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Team

Hum subah jaldi uthkar aaye hai

1. Mapping of ER to relational model

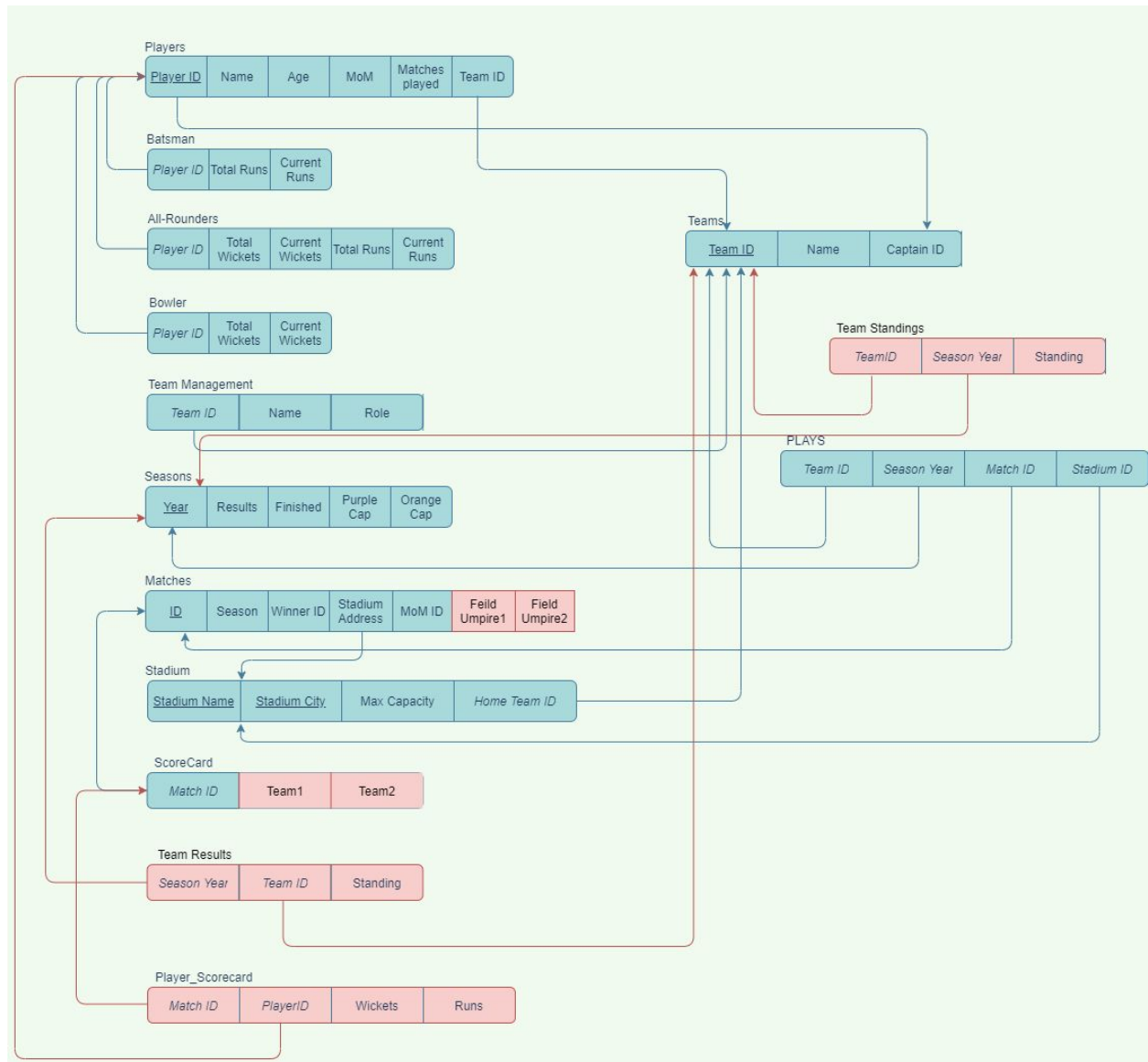
Mapped all the entities and relations from the ER model to a relational model



2. Relational model to 1NF conversion

- Here the changes that are marked in red are the changes that were made between the relational model and 1NF.
- The attributes in the relationship tables which were multivalued were managed accordingly to be in accordance with the 1NF, for example: Umpires attribute for

the match relation, past season standings for the teams, attribute of the scorecard entity, etc.



3. 2NF: The relation model provided for the 1NF satisfies the conditions needed for the 2NF, since there are no composite keys which can be divided to determine one of the attributes of the relation, the relations considered here were the 'Stadium'(which has a composite key but none of the non-key attributes are functionally dependent on only one of the key-attributes)
4. 3NF: Since the model holds 2NF, we need to check for 3NF now. As there are no non-key attributes that functionally determine another non-key attribute, the model holds 3NF as well.

Note: The foreign keys in the relation model are typed in italics