

DBMS TUTORIALS - 1  
WORKSHEET

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(1) Identify the entities and their key attributes.

ANSWER :-

The entities are teams, player.

~~and~~ ~~and~~ ~~and~~ ~~and~~ ~~and~~ The attributes of team are name, city and coach, and the key attributes of player are name, position and skill level. Injury record is an multivalued attribute.

(2) Identify the relationships and their cardinality.

⇒ The relationships are captain, game and plays.

The cardinality between games and teams is 1 : 2 as 2 teams play a game at once. The cardinality between

teams to captain and player to captain is 1 : 1 as each team has only 1 captain

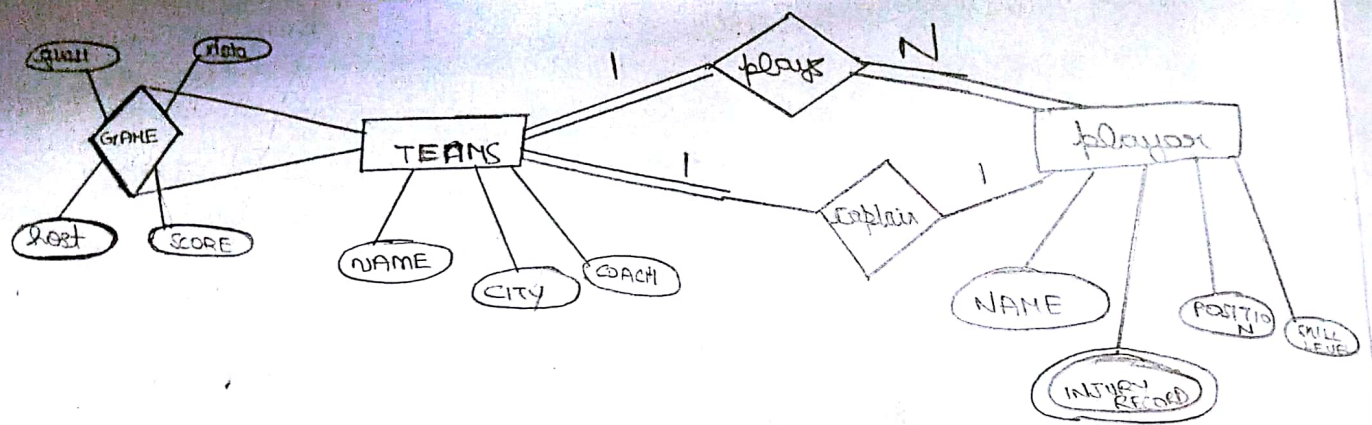
and only 1 player can be captain.

Similarly the cardinality between teams and players is 1 : N as one player plays for only 1 team but each team contains many players.



③ Draw the complete ER diagram.

⇒ Given below is one such possible ER diagram.



(4) MAP THE ENTITIES AND RELATIONSHIPS INTO RELATIONAL SCHEMA.

⇒ The given entities can be made into a table with Teams and player, with name, city and coach as key attributes and name, injury record, position and skill level as attributes for the player table. Play and captain can be added as an attribute in both the tables and used as an foreign key. Similarly game could be made as an table with attributes guest, date, host and score and can be accessed with a foreign key.



② Identify the entities and their keys attributes.

① ⇒ The entities are Patient, Doctor, Drug, Pharmaceutical company and Pharmacy.  
The attributes are as given below :-

Patient :- sn, name, address, age.

Doctor :- sn, name, specialty, years-exp.

Pharmaceutical company :- name, phone number.

Pharmacy :- name, address, phone-number.

Drug :- Trade-name, formula.

(2) The relationships are self, primary physician, control, and self. The different relationships and their cardinality are shown in the ER diagram given below.

(3) Map the entities and relationships into relational schema.

⇒ The given attributes can be made as tables, with their attributes as fields and relationships as foreign keys.

DBR

# DIAGRAM

