

Final Project Part 2: ER Diagram and Relational Schema

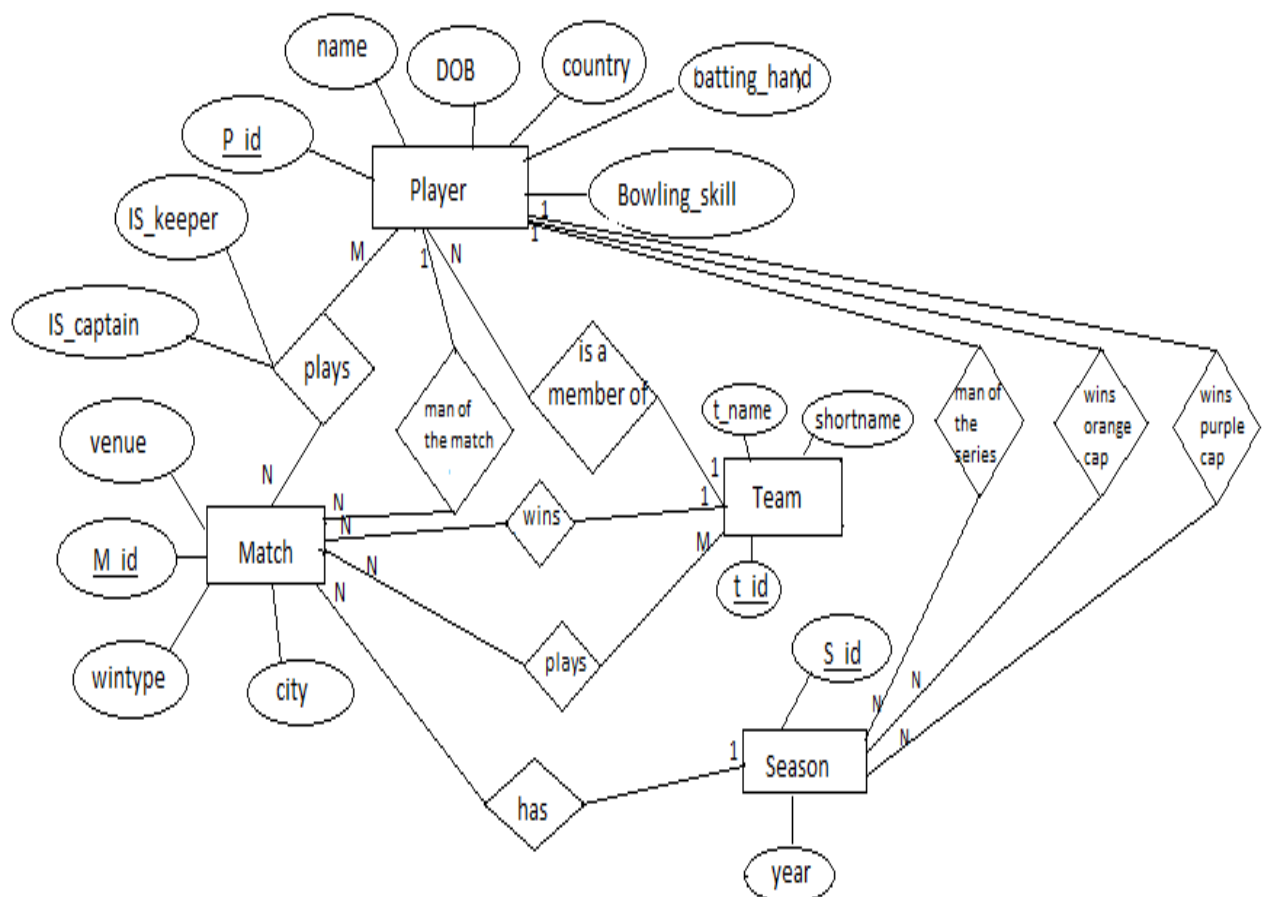
Name: Devyani Shrivastava

PSU_ID: 909715404

Email_ID: devyani@pdx.edu

ER-Diagram for my domain IPL (Indian Premier League):

- 1) A player has attributes: player_id, name, DOB, country, batting_hand, Bowling skill.
- 2) A team has team_id, team name and shortname.
- 3) A match has: match_id, venue, city and win type.
- 4) A season has season id and year.
- 5) A player can win man of the match title for many matches.
- 6) A player can win titles for different seasons namely: Man of the series, purple cap, orange cap.
- 7) A player is a member of a team and a team can have many players as members.
- 8) A team plays several matches and can win them. (Here a match can have exactly 2 teams).
- 9) A match belong to a season but a season can have several matches.
- 10) A match can be won by a single team.




Relational Schema:

- 1) Player (p_id, name, DOB, batting_hand, bowling_skill, country)
- 2) Team (t_id, t_name, shortname)
- 3) Player_team (p_id, t_id)
(p_id: foreign key referencing player, t_id : foreign key referencing Team)
- 4) Season (s_id, year, man_of_the_series_id , purple_cap_id , orange_cap_id)
(man_of_the_series_id, purple_cap_id, orange_cap_id: foreign key referencing p_id from player)
- 5) Match (m_id, venue, t1_id, t2_id, wintype, city, man_of_the_match_id , match_winner , season_id)
(man_of_the_match_id: foreign key referencing p_id from player, match_winner : foreign key referencing t_id from Team, season_id : foreign key referencing s_id from season)
- 6) Player_match (match_id, player_id, IS_keeper, IS_captain)
(match_id: foreign key referencing m_id from Match, player_id: foreign key referencing p_id from player)

Creating a table in database and inserting a row into it:

- 1) Creating a table team with attributes, t_id, t_name and shortname.

```
CREATE TABLE team ( t_id INT PRIMARY KEY,  
                    t_name VARCHAR (70),  
                    shortname VARCHAR (10));
```

Column	Type	Not Null	Default	Constraints	Actions				Comment
t_id	integer	NOT NULL			Browse	Alter	Privileges	Drop	
t_name	character varying(70)				Browse	Alter	Privileges	Drop	
shortname	character varying(10)				Browse	Alter	Privileges	Drop	

```
SELECT * FROM team;
```

Submit

No rows found.

2) Inserting a row into the table team.

```
INSERT INTO team VALUES( 1, 'Kolkata Knight Riders', 'KKR');
```

```
SELECT * FROM team;
```

Submit

Actions	t_id	t_name	shortname
Edit Delete	1	Kolkata Knight Riders	KKR

1 row(s)