

# **Table Design & Creation Data Analyst Program – Project 1**

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## **About This Project**

Creating a database for analysis of the 2016/17 premier league season.

The English premier league is the best and the most luxury league in the entire world.

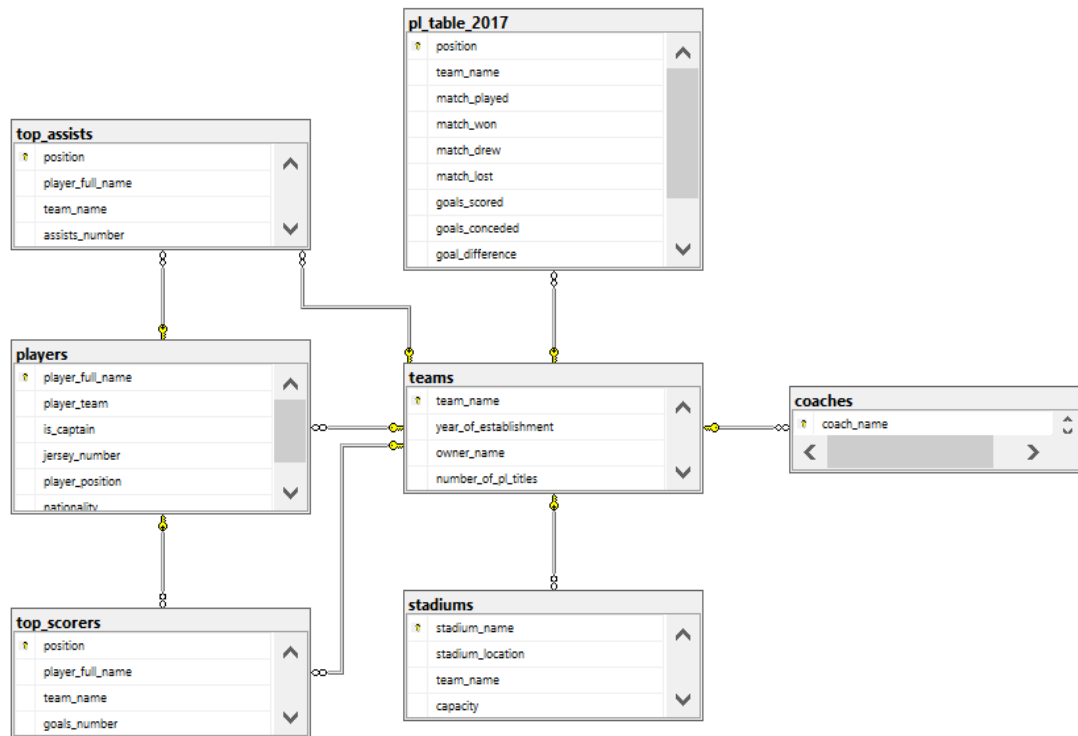
Contested by 20 clubs, it operates on a system of promotion and relegation with the English Football League. Seasons run from August to May with each team playing 38 matches .

The competition was founded as the FA Premier League on 20 February 1992 following the decision of clubs in the Football League First Division to break away from the Football League, founded in 1888, and take advantage of a lucrative television rights deal.

## **Project Description**

Creating an information system based on Microsoft SQL Server Management Studio 18. With the help of the system, people can analyze the 2016/17 premier league season, by different statistics such as goals, assists, table positions and so on. Moreover, the system contains various information about the teams, the players, the coaches and the stadiums.

## ERD:



## Tables descriptions

**1. Teams table** – Contains information about the 2016-17 premier league teams.

Column name	Column Type	Constraint
Team_name	Varchar (25)	PK
Year_of_establishment	Int	
Owner_name	Varchar (50)	
Number_of_pl_titles	Int	

**2. Pl table 2017** – The league table at the end of the season.

Column name	Column type	Constraint	Various
Position	Int	PK	Identity (1,1)
Team_name	Varchar (25)	FK (Teams)	
Match_played	int	Default 38, check= match_won+ match_drew+match_lost	
Match_won	Int	Check between 0 and 38	
Match_drew	Int	Check between 0 and 38	
Match_lost	Int	Check between 0 and 38	
Goals_scored	Int		
Goals_conceded	Int		
Goal_difference	Int	Check = goals_scored- goals_conceded	
Point_number	Int	Check between 0 and 114	

**3. Players table** – Contains information about all starting 11 players for each team in the 2016/17 premier league season.

Column name	Column type	Constraint
Player_full_name	Varchar (40)	PK
Player_team	Varchar (25)	FK (Teams)
Is_captain	Bit	
Jersey_number	Int	Check between 1 and 99
Player_position	Varchar (25)	Check in goalkeeper, defender, midfielder, forward
nationality	Varchar (25)	

**4. Coaches table** – Contains the names of all coaches that started the season at each team.

Column name	Column type	Constraint
Coach_name	Varchar (25)	PK
Team_name	Varchar (25)	FK (Teams)

**5. Stadiums table** – Contains information about the stadiums of every team in the league.

Column name	Column type	Constraint
Stadium_name	Varchar (35)	PK
Stadium_location	Varchar (35)	FK (Teams)
Team_name	Varchar (25)	
capacity	Int	

**6. Top scorers table** – List of the players who scored the most goals during the season.

Column name	Column type	Constraint	Various
Position	Int	PK	Identity (1,1)
Player_full_name	Varchar (40)	FK (Players)	
Team_name	Varchar (25)	FK (Teams)	
Goals_number	Int		

**7. Top assists table** – List of the players who assisted the most during the season.

Column name	Column type	Constraint	Various
Position	Int	PK	Identity (1,1)
Player_full_name	Varchar (40)	FK (Players)	
Team_name	Varchar (25)	FK (Teams)	
assists_number	Int		

### **Script**

The full script sent in a separate file.

### **Bibliography**

<https://www.worldfootball.net/>

<https://www.premierleague.com/>

<https://www.wikipedia.org/>