

Phase 1

Domain: Premier (Soccer) league stats for the season 2019/2020

Dataset:

2019-2020 premier league season stats <https://www.football-data.co.uk/englandm.php>

Initial Schema Definition

Name: 19-20 premier league stats

Games(HomeTeam, AwayTeam, Date, Time, Referee, odds) -- This is a schedule. The games haven't necessarily happened yet. Therefore, other tables might have null values

Stats(HomeTeam, AwayTeam, Full Time Home Team Goals, Full Time Away Team Goals, Full Time Result, Half Time Result)

HomeStatsAgg(team, avg full time home team goals, avg full time away team goals)
AwayStatsAgg(team, avg full time away team goals, avg full time home team goals)

Referee(Referee, HomeTeam, AwayTeam, Home team foul committed, Away team foul committed, Home team red card, Away team red card, Home team yellow card, Away team yellow card)

TeamStats(Team, wins, losses, draw)

Betting(ODDSID, bet365H, B365D, B365A, BSH, BSD, BSA, BWH, BWD, BWA, GBH, GBD, GBA)

Bet365 home win odds

B365D = Bet365 draw odds

B365A = Bet365 away win odds

BSH = Blue Square home win odds

BSD = Blue Square draw odds
BSA = Blue Square away win odds
BWH = Bet&Win home win odds
BWD = Bet&Win draw odds
BWA = Bet&Win away win odds
GBH = Gamebookers home win odds
GBD = Gamebookers draw odds

$\text{Stats}[\text{HomeTeam}] \subseteq \text{TeamStats}[\text{Team}]$
 $\text{Games}[\text{Referee}] \subseteq \text{Referee}[\text{referee}]$
 $\text{Games}[\text{odds}] \subseteq \text{betting}[\text{oddsid}]$

$\text{Games}[\text{HomeTeam}] \subseteq \text{TeamStats}[\text{Team}]$
 $\text{Games}[\text{AwayTeam}] \subseteq \text{TeamStats}[\text{Team}]$
 $\text{Betting}[\text{HomeTeam}] \subseteq \text{TeamStats}[\text{Team}]$
 $\text{Betting}[\text{AwayTeam}] \subseteq \text{TeamStats}[\text{Team}]$
 $\text{Referee}[\text{HomeTeam}] \subseteq \text{TeamStats}[\text{Team}]$
 $\text{Referee}[\text{AwayTeam}] \subseteq \text{TeamStats}[\text{Team}]$
 $\text{Homestats}[\text{Team}] \subseteq \text{Games}[\text{HomeTeam}]$
 $\text{Awaystats}[\text{Team}] \subseteq \text{Games}[\text{AwayTeam}]$

(subject to change)