

## English Premier League<sup>1</sup>

You are going to design a database for the English Premier Soccer League (EPL). The league features 20 clubs mostly from England, but also open to Welsh clubs if they can qualify. The league is divided into two half seasons. Each team will play all other 19 teams twice, once in their own stadium and once in the opponents'. In each match, winning teams get three points and losing teams no points. In a draw, both teams get one point. At the end of each season, the last two teams in the standings are directly relegated to the lower tier league, called the Championship. The two top teams of the Championship will then replace the relegated teams in EPL in the next season. Teams that stand at the third and fourth places from the bottom in the EPL league match up twice (home and away) to determine the third team to relegate. A similar match up occurs between the third and fourth teams of the Championship league to identify the third team that will move up to EPL the next season.

Each club can have up to 25 players, eight of which must be homegrown (for simplicity, let's assume this means they must be English). The game starts with 11 players for each team, and each club can have up to 5 substitutes, plus 1 concussion substitution if needed. If a player is substituted, he cannot go back to play in the same game. Players might get yellow cards in a game for committing fouls or violating rules. After receiving a second yellow card in one game, a player is shown a red card and is sent off. It is also possible to be sent off directly (a direct red card). When a player receives a red card, they can't play the rest of that game and will also miss the next match.

Each game has a number of officials. The most important officials we want to model are the head referee, two assistant referees and a reserve referee. We also want to keep track of who scored in each game, the minute they scored, their affiliated team, and the type of goal (it is possible in soccer to score in your own goal!). We also want to have a history of the players and managers/assistant

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1. ([https://en.wikipedia.org/wiki/Premier\\_League](https://en.wikipedia.org/wiki/Premier_League)).