# Homework 3 – Practical Databases

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**Question 1 – Database Intro**

Football is the national sport in the “BananaGPT Republic”, and the league consists of 10 teams. The first week of the league, the fans enjoy watching 5 matches. We created a database that describes the first game week. This database can be used by management teams and fans to make data-driven decisions for the following week.

The database is made up of six entities:

* Games: contains information about the game played
* Stats: contains information about the statistical results of the game
* Team: contains information about the team
* Player: contains information about the players
* Scorer: contains information about the players that score goals in a game
* Goalkeeper: contains information about the goalkeepers that played in a game

The following is the relational schema data schema for the football league in BananaGPT Republic:

Data of the games played: **Matches** (match number, team, opponent team, game week, date of play, weekday of play, hour of play, result, goals scored, goals conceded, total goals, location, referee, crowd)

Data of the statistics of the game: **Stats** (match number, yellow cards, red cards, off sites, corners)

Data of the team: **Team** (name, budget, home)

Data of the players: **Players** (id, name, age, nationality, preferred foot, role, team)

Data of the players that score: **Scorers** (id, match number, team, scorer name, goal type, goal minute)

Data of the goalkeepers: **Goalkeepers** (id, match number, game team, goalkeeper name, fantasy points, saves, minutes played)

**Question 2 – ERD**

Scorer

Stats

Match

Has

Plays In

Player

ISA

Goalkeeper

Team

Belongs to