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Problem Statement

**Definition of Problem**

An organization needs to keep track of various soccer stats for club competitions across different leagues.

**Contextualization**

Many complaints have come in from different sources, including the organization, coaches, and individual players about not having their specific needs being met. The organization has been struggling to keep track of stats and data spanning all of the different leagues they manage. The coaches need a system to track various stats for the team. Players have complained about not being able to know about more stats than just their own.

**Expected Information and Functionality**

This database can be utilized to help the organization better organize the leagues that they manage. Coaches can determine strengths and weaknesses throughout their team to help improve their team moving forward. Players will also be able to more easily keep track of their individual stats and be able to compare themselves to others to see their personal standings.

**Scope of the System**

Across the whole database there are five major entities; Player, Player Stats, Team, League, and Games. The attributes in Player are: Player ID, First Name, Last Name, Position, Jersey Number, Team Name. The attributes in Player Stats are: Player ID, Goals, Assists, and Saves. The attributes in Team are: Team Name and Season’s Record. The attributes in League are: League Name, Team Names, and Records. The attributes in Games are: Match ID, Date, Score, Opponent, and Team Name.

**Queries**

The list below contains 20 distinct queries to get different information from our database.

1. What team has the best record in their league?

2. What are the leading goal scorers' amounts for each team?

3. List all of the teams in alphabetical order

4. Which player has the most goals in ocean dwellers league?

5. What teams played on 10/29/2022?

6. Which teams played after 10/13/2022?

7. How many times did the Sharks play the Jags this year?

8. What player has the jersey number 13?

9. What teams are not in the same league as team Straw Hats?

10. What teams are under .5 win rate?

11. What teams have the same exact record?

12. What team has the most RW (position) players?

13. How many games had more than 5 total goals scored?

14. Do player A and Player B play the same position?

15. What league has the largest number of teams?

16. What team is "Luffy D Monkey" on?

17. What teams played during the week of 10/02/2022?

18. What two teams played in the most recent game?

19. What team has played the most home games?

20. What league had the most saves?