**Team 10**

**Dataset:** 2021/2022 NBA Player Stats (https://www.kaggle.com/vivovinco/nba-player-stats)
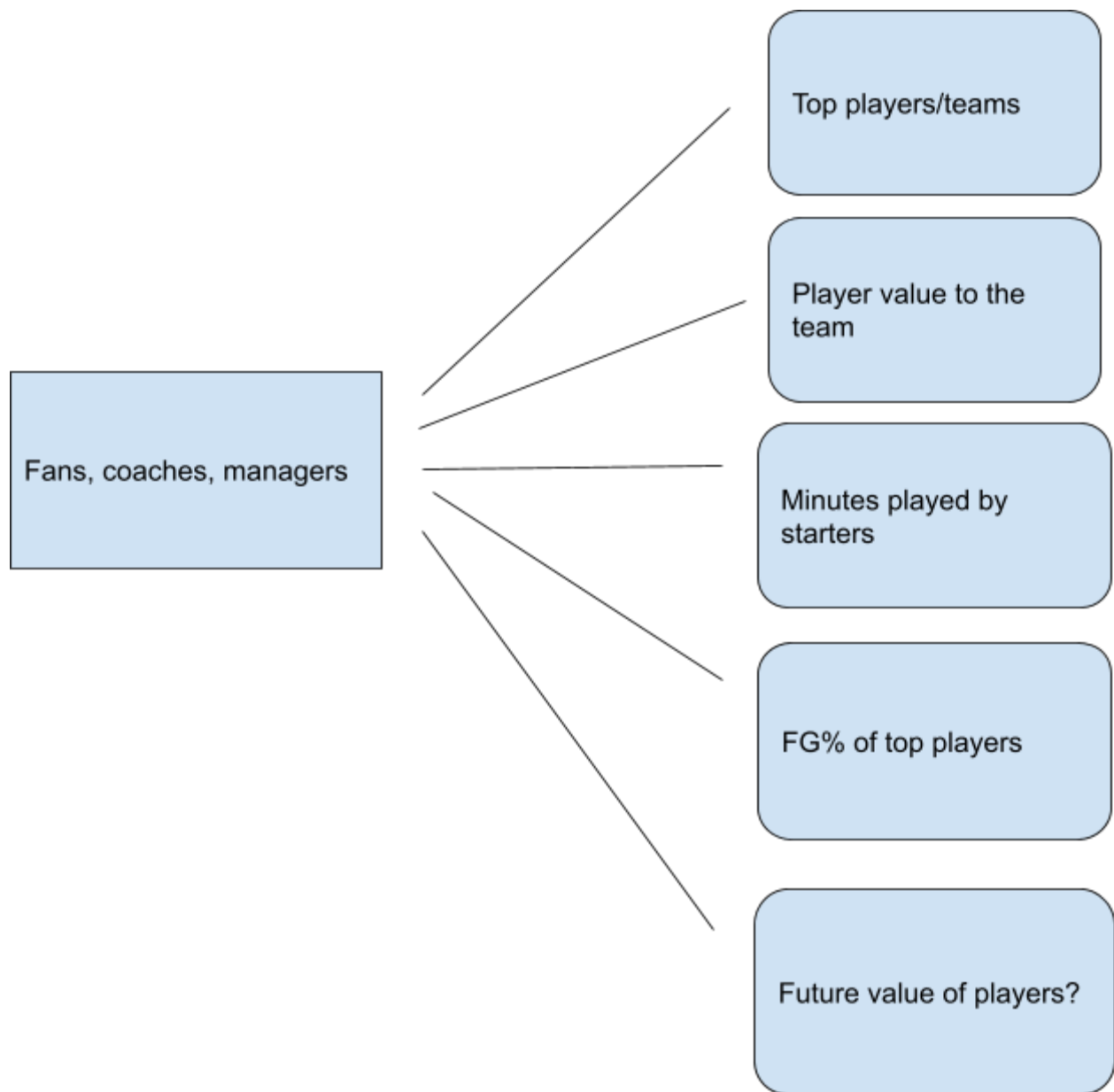
Problem Statement:

       With this dataset, our group is looking to analyze the overall performance of certain teams and players this season. We want to look at the top 5 teams and top 10 players according to these statistics. From a stakeholder perspective, it would be interesting to look at the rookie level players, their performance this season, and take these statistics into consideration when looking at contracts and trade transactions. Based on these statistics, does it make sense to re-sign a player's contract?

Use case/questions:

Use case: LTV Prediction - What is the player's value to the team? We will look at different aspects of each players' value to their respective team. This use case will be valuable to the loyal fans of each team, the coaches, and the general managers and owners of the teams. They will be able to look at each player's value and determine their future contributions to the team and evaluate contract actions. These questions will also be valuable in predicting MVP outcomes.

```
                                                    ┌────────────────────┐
                                                    │                    │
                                                    │  Top players/teams │
                                                    │                    │
                                                    └────────────────────┘

                                                    ┌────────────────────┐
                                                    │                    │
                                                    │ Player value to the│
                                                    │ team               │
                                                    └────────────────────┘
┌───────────────────────────┐
│                           │                       ┌────────────────────┐
│ Fans, coaches, managers   │                       │                    │
│                           │                       │ Minutes played by  │
│                           │                       │ starters           │
└───────────────────────────┘                       └────────────────────┘

                                                    ┌────────────────────┐
                                                    │                    │
                                                    │ FG% of top players │
                                                    │                    │
                                                    └────────────────────┘

                                                    ┌────────────────────┐
                                                    │                    │
                                                    │Future value of players?│
                                                    └────────────────────┘
```

1. What variables affect a player's performance/value to the team?
2. What is the age distribution of the top five performing teams?
3. Minutes played per game by starters?
4. Field goal percentage of the top ten players?
5. What will the true value of player X be later in his career?