# Sports Commissioner

## Objective

## The commissioner wants a database to track the teams in the league.

## Situation

A team is uniquely identified by its name. It also has a city and state that is its home. This information is entered by the commissioner. In addition, associated with each team, the commissioner enters note pages. For a given team, a note page is identified by its date and has a 500-character comment in which the commissioner writes thoughts about the team for that date. Only the commissioner can see the notes.

The teams play games. A game is uniquely identified by its date and stadium location – there cannot be two games on the same date in the same stadium. Associated with each game is the home team and the away team. The commissioner enters the game schedule of who plays whom, where and when. Once the game is over, there is a home team score and an away team score entered into the database by the head referee.

The teams have owners who are uniquely identified by their name. They have an address, city, state. An owner can buy and sell a percentage of a team. Thus, a team can have many owners and their percentages always will sum to 100%. However, an owner can own part of only one team at a time. Each team initially has a single owner who owns 100%. Subsequently and perhaps immediately, transactions transfer a percentage of a team from one owner to another and the dates and percentages of these transfer transactions are recorded. Teams are created and ownership transfer between owners is recorded by the commissioner.

Finally, anyone can obtain a display of the games, their locations and dates, the competing teams, and their scores. Anyone can obtain a list of the teams, their home locations, their owners and owner percentages.