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# DB2 Design Assignment

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# **Project Objectives**

## **Summary of System Requirements**

The primary goal of this system is to accurately record information related to sports teams competing in a competition. The end-user of this database needs to input which teams are paired to play each match, the date, time, and location of each match, and the two referees assigned to officiate the match.

Before each game, players from both teams are selected to be included in a game, either as a player or a reserve. Each player on the field has a jersey number for the position they are playing; each time they score, an entry is to be added to the database for the points scored, the player jersey number, time of the score and the match.

During a match, if a player is injured their position can be refilled with a player from the squad's reserve player pool. This change needs to be tracked in the database so that any point scored by the reserve player are attributed to them and not the player they have replaced.

Player or referee injuries must be entered into the database with the injury time, date, match time and location. A competition administrator will update the incident report with appropriate injury code(s) associated with the injury. Injury codes are provided by ACC.

## **Database Scope**

- Recording data for multiple seasons was not a requirement, however, we decided to include a 'year' attribute in the competition table to enable each season of competition to be tracked separately.
- Most sports welcome competitors of all ages, who compete at an age-based level; to allow for this, a 'grade' table been included to allow a competition to run for multiple age groups during each season/year.
- The 'competition admin' role is assumed to have the ability to add injury codes to incident reports, after it is initiated by an injured player or referee.
- Players joining a team or transferring to a new team potentially has contractual issues between player and teams, which are relevant to the competition. The date a player joins and leaves a team is to be entered to the database.