DVC League

John is running a recreational basketball league named DVC in Winter Garden, Florida with 5 teams on it. Players in the league pay $50 to be a player in the league for the season.

Each team plays 12 games and then the top 4 teams make it to the playoffs. In instance of a tie in record, the team who scored more points in the season moves on.

In the playoffs, teams play a 1 game elimination. With the 4 seed playing the 1 seed, and the 2 seed playing the 3 seed. Whoever wins in the subsequent game gets the championship trophy, with the loser of the Championship game getting runners-up.

The DVC league is trying to make a transition from a paper-based system to an electronically-based system. They want the system to keep track of new players who join the league and teams that need more players.

They hired TopNotch Consulting to develop and make the system for them in the offseason a couple weeks after their Winter Season to make incorporating a new system as seamless as possible. TopNotch elicited requirements through interviews with fellow employees and with John

The system will record rosters. Height will be recorded in inches, as well as position, and name of players. Jersey number will also be recorded.

Information uploaded from the playoffs is from the previous season, although rosters are currently updated to what they are for the time being.

Relational Schema

DVC (DVCID)

Teams (TeamID, TeamName, DVCID)

FK DVCID -> DVC (Not Null) (Unique)

Rosters (RosterID, Name, Height, Position, TeamID, PlayersID)

FK TeamID -> Teams (Not Null) (Not Unique)

FK PlayersID -> Players (Not Null) (Unique)

Players (PlayersID, Name, JerseyNumber)

Playoffs (PlayoffsID, TeamID)

FK TeamID -> Teams (Not Null) (Not Unique

Runners-Up (RunnersID, RunnersUpName, PlayoffsID)

FK PlayoffsID -> Playoffs (Not Unique)

Championship (ChampionshipID, ChampionshipName, PlayoffsID)

FK PlayoffsID -> Playoffs (Not Unique)