

Youth Soccer Database Design Document

Version 1.0

Submittal Date: 09/08/20

Quinn Butler

Table of Contents

Topic	Page
Narrative	3
Requirements	4
Entities	5
Entities and Attributes	6
Youth Soccer ERD	7
Youth Soccer EERD	8

Youth Soccer Narrative

The soccer league consists of teams. Teams have one or more sponsors whose names appear on the team uniforms. Sponsors can support more than one team, and a team may have more than one sponsor at a time. Sponsorships are tracked by season. Each team consists of players. No player belongs to more than one team during a single season. Each player is assigned a unique Player ID when they join the league. The league records each player's name and address, parent contact name, player phone number and parent phone number, and parent email. In order to verify players ages, the league also records each player's date of birth. Each team has a designated captain from among the players. Players are registered for the league followed by a draft to receive their team assignments. Players can play for one team one season and then play for a different team the next season. Teams play in matches. Each match is given a unique Match ID number and is scheduled for a specific date. The league records the goals scored by each team and the win or loss result. Player performance in each match is recorded for minutes played, goals scored, and penalties assessed. It is possible for a player to not participate in a match.

The league assigns three referees to each match, based on position (one head (H) and two linesmen (L)). Referees are assigned a unique Referee ID number when they first register with the league. The league records each referee's name (first name and last name), address and phone number, and contact email. Each new referee is assigned to one experienced referee as a mentor. Not all of the experienced referees serve as mentors, but those that do can mentor more than one new referee.

Matches take place at soccer fields. Sponsors can support fields by placing banners. Sponsors can support more than one field, and fields can have more than one banner. The league records the name and address (street, city, state, and zip) of all the fields where it stages matches. Each match, occurs at a single field at a time. The fields host multiple matches throughout the season. Some fields are closed when undergoing renovations with no matches scheduled during that period.

Vendors sell items at specific fields. Each field has several vendors. The league tracks the vendor assignments by season. In addition to the vendor's name, the league records the vendor phone number and the vendor type. Some vendors offer multiple types of services, for example: food, beverage, clothing, soccer suppliers, and other items.

The league also tracks coaches. A coach can be assigned to more than one team, but only as one role per assignment. Coaching roles are head (HC), assistant (AC), volunteer (VC). Each team can have multiple coaches, but only one role at a time may be assigned to a single coach. Coach assignments are based upon season.

Requirements

Teams may have one or more sponsors. Teams have one or more players. A team has one player captain. Teams have more than one match. Teams may have one or more coaches.

Players have only one team. A player may participate in no or many matches.

Coaches may be assigned to one or more teams.

Matches have two teams. Matches have one or more players. Matches have 3 referees. Matches take place on one field.

Fields may be supported by one or more sponsors. A field holds one or more matches. Fields have more than one vendor.

Vendors sell items at one or more fields.

Referees may be assigned to one or more matches. A senior referee may be assigned to one or more junior referees. A junior referee is assigned to one senior referee.

Sponsors may support one or more teams. Sponsors may support one or more fields.

Entities

- Teams
- Players
- Coaches
- Matches
- Fields
- Vendors
- Referees
- Sponsors

Entities and Attributes

Team:

Team ID

Uniform

Sponsor:

Sponsor ID

Season

Vendor:

Vendor ID

Name

Phone number

Type of service

Match:

Match ID

Date scheduled

Goals scored

Game result

Field:

Field ID

Name

Address

Player:

Player ID

Name

Address

Player phone number

Parent contact name

Parent phone number

Date of birth

Referee:

Referee ID

Name

Address

Phone number

Email

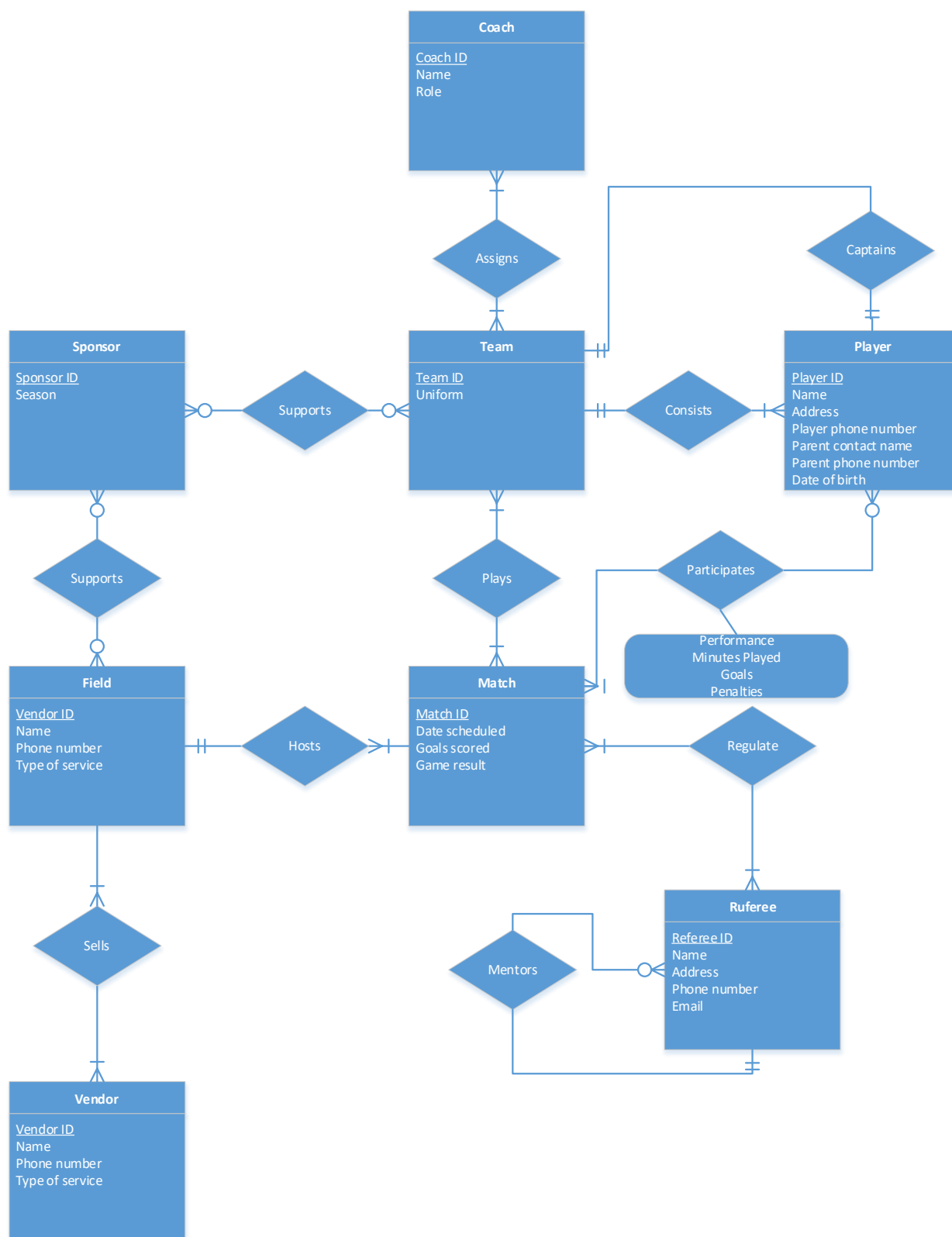
Coach:

Coach ID

Name

Role

Youth Soccer ERD



Youth Soccer EERD

