

SB 22.04.15 Documentation

Link to schema: https://app.quickdatabasediagrams.com/#/d/cUL7EJ

01.03. Soccer League

To Rank a team by wins:

by number of goals, use the Goal relation, query by "seasonleaguemapID" and aggregate goals with TeamID

by number of match wins, use the Match relation, query by "seasonleaguemapID" and aggregate matchWinner, then sort

teams, goals, players, referees, matches, league, seasons league, season, matches, goals, referees; players, teams

league/season: M/N season/matches: 1/M matches/goals: 1/M

e/ match has many goals; e/ goal is in one map

player/goals: 1/M, e/ player has >= 0 goals; e/ goal has 1 player

matches/referees: M/N (MatchRefereeMap)

e/ match has >= 1 referee; 1 referee involved in >= 1 match e/ season has >= 1 league, e/ league is found in >= 1 season

e/ league has >= 1 match, e/ match is distinct e/ match has >= 0 goals, e/ goal has 1 match team/player: M/N, players can be traded therefore:

SeasonRoster:

match

Season

Field	Description	Туре	Default	Other
seasonPointer		smallserial		PK
seasonStartTime		timestamptz		
seasonEndTime		timestamptz		

League

Field	Description	Туре	Default	Other
leaguePointer		smallserial		PK
leagueName		text		

SeasonLeagueMap

Field	Description	Туре	Default	Other
seasonleaguemapPointer	seasonID+leagueID	text		PK
seasonID		smallint		FK
leagueID		smallint		FK

Match

Field	Description	Туре	Default	Other
matchPointer		bigserial		PK

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Field	Description	Туре	Default	Other
seasonleaguemapPointer	although one may figure out season by start/end time	text		FK
matchWinner		smallint		FK
matchTeam1		smallint		FK
matchTeam2		smallint		FK
matchStartTime		timestamptz		
matchEndTime		timestamptz		
matchLocation		text		
matchVenue		text		

MatchRefereeMap

Field	Description	Туре	Default	Other
matchrefereemapPointer		bigserial		PK
matchID		serial		FK
refereeID		serial		FK

Referee

Field	Description	Туре	Default	Other
refereePointer		serial		PK
refereeName		text		

Goals

Field	Description	Туре	Default	Other
goalPointer	some string concat of seasonID+leagueID+matchID	text +timeScored		PK
seasonleaguemapID	derivative of seasonID+leagueID	text		FK
matchID		bigint		FK
teamID		smallint		FK
playerID		uuid		FK
timeScored		timestamptz		

Team

Field	Description	Туре	Default	Other
teamPointer		smallserial		PK
teamName		text		

Roster

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if a player trade is made, the player will get another roster entry for the same seasonleagueID

Field	Description	Туре	Default	Other
rosterPointer	string concat of seasonID+leagueID+teamID+p	text blayerID		PK
seasonleagueID		text		FK
teamID		smallint		FK
playerID		uuid		FK
startTime		timestamptz		
endTime	nullable, if truthy => team switch mid-season	timestamptz		

Player

Field	Description	Туре	Default	Other
playerPointer		uuid		PK
playerName		text		

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