

NBA Database

Normalization

Aggregation

Players

Games

Teams
name
abbreviation
city
state

Games
homeTeam
awayTeam
winTeam
loseTeam
date

Employees
employeeType
team
firstName
lastName
birthDate

{employeeType, firstName, lastName, birthDate, attribute: {height, weight} jerseyNum, positionDesc, team: {teamName, abbreviation, city, state}}

{homeTeam: {teamName, abbreviation, city, state}, awayTeam: {teamName, abbreviation, city, state}, winTeam: {teamName, abbreviation, city, state}, loseTeam: {teamName, abbreviation, city, state}, homeTeamPoints, awayTeamPoints, winTeamPoints, loseTeamPoints, attendance, overTime date}

Coaches

{employeeType, firstName, lastName, birthDate, yearsOfExperience, team: {teamName, abbreviation, city, state}}

Players
height
weight
jerseyNum

Coaches
yearsOfExperience

Notes

1. home_team != away_team
2. teamID/employeeID relationship is 5 to 15 players and 1 coach per team before recording a winning/losing result
3. No team can play twice on same day
4. Players can play multiple positions
5. Team can not trade with them selves
6. Home team can not be the away team