

NBA Database

Normalization

Aggregation

Players

Games

Teams
name
abbreviation
city
state

Games
homeTeam
awayTeam
winTeam
loseTeam
date
homeTeamPts
awayTeamPts
winTeamPts
loseTeamPts
attendance
overTime

{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}}

Employees
employeeType
team
firstName
lastName
birthDate

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