Team Spartacus!

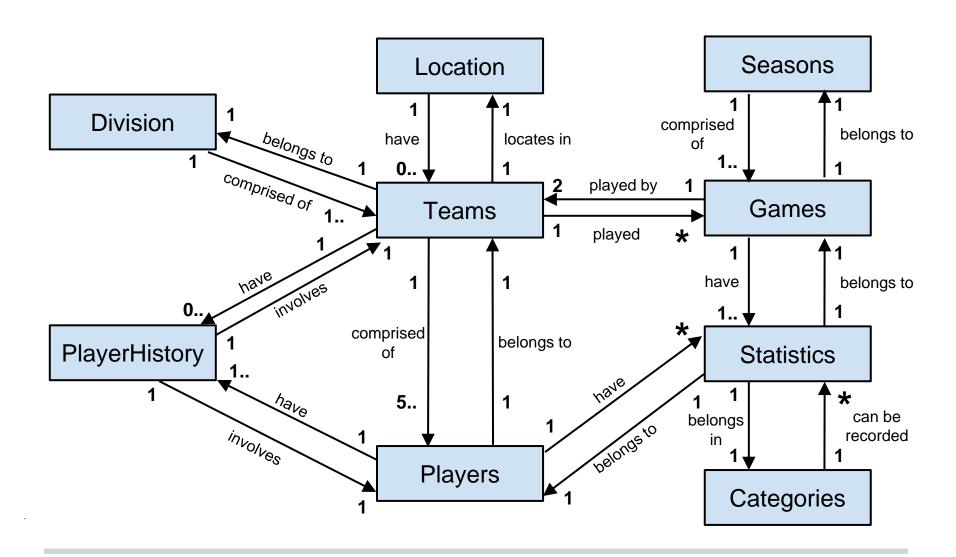


Jesus Contreras

National Basketball Datassociation where the real ballers play.

- Delivers the true fan experience by allowing fans to keep track of all 30 NBA teams(even retired and free agents), its players, player stats, and game log.
 - Our database also known as the "basketball datassociation" allows for seamless retrieval of all types of useful information and fun facts such as:
 - Player statistics (season averages or single games)
 - Queries for field goal percentages, double digit games, etc are all possible.
 - Team versus team matchups
 - Complete player history (team history, performance history)
 - Regular season and Playoff information each year
 - Team's season success (win/loss ratio)

Team Spartacus NBA Database UML



Query Eye for the Database guy/gal.

```
/* calculate avg score of 2 teams vs each other */
SELECT ROUND (
          if(
          (SELECT AVG(Team1Score) FROM Games WHERE (Team1Id = 18 AND Team2Id = 17)),
          (SELECT AVG(Team1Score) FROM Games WHERE (Team1Id = 18 AND Team2Id = 17)), 0)
          if(
          (SELECT AVG(Team2Score) FROM Games WHERE (Team1Id = 17 AND Team2Id = 18)),
          (SELECT AVG(Team2Score) FROM Games WHERE (Team1Id = 17 AND Team2Id = 18)), 0)
,2) AS 'AVG Lakers Score vs. Clippers',
ROUND (
          if(
          (SELECT AVG(Team1Score) FROM Games WHERE (Team1Id = 17 AND Team2Id = 18)),
          (SELECT AVG(Team1Score) FROM Games WHERE (Team1Id = 17 AND Team2Id = 18)), 0)
          if(
          (SELECT AVG(Team2Score) FROM Games WHERE (Team1Id = 18 AND Team2Id = 17)),
          (SELECT AVG(Team2Score) FROM Games WHERE (Team1Id = 18 AND Team2Id = 17)), 0)
,2) AS 'AVG Clippers Score vs. Lakers'
FROM Games
WHERE SeasonId = 31
GROUP BY SeasonId
```

Query Eye for the Database guy/gal.

/* show a given division */ select T.Name AS 'Pacific Division Teams' from Teams AS T inner join Division AS D ON T.DivisionId = D.DivisionId where T.DivisionId = 4; /* show player history */ Select P.fName AS 'First Name', P.lName AS 'Last Name', T.Name AS 'Team Name', H.TeamDate AS 'Join Date' from PlayerHistory AS H INNER JOIN Players AS P ON P.Id = H.PlayerId INNER JOIN Teams AS T ON T.TeamId = H.TeamId ORDER BY P.Id, H.TeamDate;

The Kobe

Queries

The Kobe Queries

/* calculate Kobe's stat(s) averages as a Laker */

```
select P.fNAME AS "First Name", P.1NAME AS "Last Name", C.StatName AS "Stat type",
   ROUND(SUM(Stat)/(SELECT COUNT(GameDate) FROM Games AS G INNER JOIN
Statistics AS S ON G.GameId = S.GameId WHERE (Team1Id = 18 OR Team2Id = 18) AND
PlayerId = 21 AND StatId = 1 AND Stat > 0), 2) AS "Average",
   (SELECT COUNT (GameDate) FROM Games AS G INNER JOIN Statistics AS S ON
 G.GameId = S.GameId WHERE (Team1Id = 18 OR Team2Id = 18) AND PlayerId = 21 AND
StatId = 1 AND Stat > 0) AS "Games in this period"
FROM Statistics
INNER JOIN Category AS C ON StatId = CategoryId
INNER JOIN Players AS P ON PlayerId = Id
WHERE PlayerId = 21 / * AND G
GROUP BY C.StatName
ORDER BY CategoryId
```

The Kobe Queries

/* calculate all Kobe's stat averages as a Laker in games he played in for a particular season*/ select P.fNAME AS "First Name", P.lNAME AS "Last Name", C.StatName AS "Stat type", ROUND (SUM (Stat) / (SELECT COUNT (GameDate) FROM Games AS G INNER JOIN Statistics AS S ON G.GameId = S.GameId WHERE (Team1Id = 18 OR Team2Id = 18) AND PlayerId = 21AND StatId = 1AND Stat > 0AND G.SeasonId = 32), 2) AS "Average", (SELECT COUNT (GameDate) FROM Games AS G INNER JOIN Statistics AS S ON G.GameId = S.GameId WHERE (Team1Id = 18 OR Team2Id = 18) AND PlayerId = 21AND StatId = 1AND Stat > 0 AND G.SeasonId = 32) AS "Games in this period" FROM Statistics AS S INNER JOIN Category AS C ON S.StatId = C.CategoryId INNER JOIN Players AS P ON S.PlayerId = P.Id INNER JOIN Games AS G ON G.GameId = S.GameId WHERE S.PlayerId = 21 AND G.SeasonId = 32 GROUP BY C.StatName ORDER BY CategoryId