Sprint-1 Artifact

Team name: XYZcoders

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Database:

NBA games data

Dataset with all NBA games from 2004 season to Feb 2020

-https://www.kaggle.com/nathanlauga/nba-games

-size: 91MB

-files: 5

Known Data:

- 1. Games (Date, GameID, GameStatus, HomeTeamID, VisitorTeamID, Season, HomePTS, HomeFG%, HomeFT%, HomeFG3%, HomeAssists, HomeRebounds, AwayPTS, AwayFG%, AwayFT%, AwayFG3%, AwayAssists, AwayRebounds, HomeTeamWins)
- 2. Game Details (GAME_ID, TEAM_ID, TEAM_ABBREVIATION, TEAM_CITY, PLAYER_ID, PLAYER_NAME, START_POSITION, COMMENT, MIN, FGM, FGA, FG_PCT, FG3M, FG3A, FG3_PCT, FTM, FTA, FT_PCTOREB, DREB, REB, AST, STL, BLK, TO, PF, PTS, PLUS_MINUS
- 3. Players (PlayerName, TeamID, PlayerID, Season)
- 4. Rankings (TEAM_ID, LEAGUE_ID, SEASON_ID, STANDINGSDATE, CONFERENCE, TEAM G, W, L, W PCT, HOME RECORD, ROAD RECORD, RETURNTOPLAY)
- 5. Teams (LeagueID, TeamID, MinYear, MaxYear, Abbreviation, Nickname, Yearfounded, City, Arena, ArenaCapacity, Owner, GeneralManager, HeadCoach, DLeagueAffiliation)

Platform:

Web Application

Programming Languages:

- Javascript
- HTML
- CSS
- Python

Frameworks:

- React.js
- Node.js
- Flask (Python Rest API Framework)

Features List:

- Given a period of time from 2004 to 2020, what was the head to head record between two teams?
- Which players have the most wins from the 2004 to the 2020 seasons in the NBA?
- Which team won the most away games in a given season and which team won the most home games in a given season from 2004 to 2020?
- What's the Free Throw Percentage and Three Point Percentage for the Home team vs the Away team during the 2004 to 2020 season?
- What is the biggest difference in points between the teams in a game?
- What is the Average Field Goal Percentage for the winning teams from 2004 to 2020?