Data Description: Reproducible Data Analysis Project

🎓 Overview

This page provides a description of each of the data sets used to complete the Reproducible data analysis project.

▦ 2018-19_nba_player-statistics.csv

This data file provides total statistics for individual NBA players during the 2018-19 season. The variables consist:

- `player_name` : Player Name

- `Pos` : (PG = point guard, SG = shooting guard, SF = small forward, PF = power forward, C = center)

- `Age` : Age of Player at the start of February 1st of that season.

- `Tm` : Team

- `G` : Games

- `GS` : Games Started

- `MP` : Minutes Played

- `FG` : Field Goals

- `FGA` : Field Goal Attempts

- `FG%` : Field Goal Percentage

- `3P` : 3-Point Field Goals

- `3PA` : 3-Point Field Goal Attempts

- `3P%` : FG% on 3-Pt FGAs

- `2P` : 2-Point Field Goals

- `2PA` : 2-point Field Goal Attempts

- `2P%` : FG% on 2-Pt FGAs

- `eFG%` : **Effective Field Goal Percentage** (https://en.wikipedia.org/wiki/Effective_field_goal_percentage)

- `FT` : Free Throws

- `FTA` : Free Throw Attempts

- `FT%` : Free Throw Percentage

- `ORB` : Offensive Rebounds

- `DRB` : Defensive Rebounds

- `TRB` : Total Rebounds

- `AST` : Assists

- `STL` : Steals

- `BLK` : Blocks

- `TOV` : Turnovers

- `PF` : Personal Fouls

- `PTS` : Points

NB: Players that were traded during the season may appear more than once (on more than one row) so it is important to handle these duplications appropriately.

⊞ 2018-19_nba_player-salaries.csv

This data file contains the salary for individual players during the 2018-19 NBA season. The variables consist:

- `player_id` : unique player identification number

- `player_name` : player name

- `salary` : year salary in $USD

⊞ 2018-19_nba_team-payroll.csv

This data file contains the team payroll budget for the 2019-20 NBA season. The variables consist:

- `team_id` : unique team identification number

- `team` : team name

- `salary` : team payroll budget in 2019-20 in $USD

⊞ 2018-19_nba_team-statistics_1.csv

This data file contains miscellaneous team statistics for the 2018-19 season. The variables consist:

- `Rk` : Rank

- `Age` : Mean Age of Player at the start of February 1st of that season.

- `W` : Wins

- `L` : Losses

- `PW` : Pythagorean wins, i.e., expected wins based on points scored and allowed

- `PL` : Pythagorean losses, i.e., expected losses based on points scored and allowed

- `MOV` : Margin of Victory

- `SOS` : Strength of Schedule; a rating of strength of schedule. The rating is denominated in points above/below average, where zero is average.

- `SRS` : Simple Rating System; a team rating that takes into account average point differential and strength of schedule. The rating is denominated in points above/below average, where zero is

average.

- `ORtg` : Offensive Rating; An estimate of points produced (players) or scored (teams) per 100 possessions

- `DRtg` : Defensive Rating; An estimate of points allowed per 100 possessions

- `NRtg` : Net Rating; an estimate of point differential per 100 possessions.

- `Pace` : Pace Factor: An estimate of possessions per 48 minutes

- `FTr` : Free Throw Attempt Rate; Number of FT Attempts Per FG Attempt

- `3PAr` : 3-Point Attempt Rate; Percentage of FG Attempts from 3-Point Range

- `TS%` : True Shooting Percentage; A measure of shooting efficiency that takes into account 2-point field goals, 3-point field goals, and free throws.

- `eFG%` : Effective Field Goal Percentage; This statistic adjusts for the fact that a 3-point field goal is worth one more point than a 2-point field goal.

- `TOV%` : Turnover Percentage; An estimate of turnovers committed per 100 plays.

- `ORB%` : Offensive Rebound Percentage; An estimate of the percentage of available offensive rebounds a player grabbed while he was on the floor.

- `FT/FGA` : Free Throws Per Field Goal Attempt

- `DRB%` : Defensive Rebound Percentage

▦ 2018-19_nba_team-statistics_2.csv

This data file contains total team statistics for the 2018-19 NBA season. The variables consist:

- `Rk` : Ranking

- `Team` : Team name

- `G` : Games

- `MP` : Minutes Played

- `FG` : Field Goals

- `FGA` : Field Goal Attempts

- `FG%` : Field Goal Percentage

- `3P` : 3-Point Field Goals

- `3PA` : 3-Point Field Goal Attempts

- `3P%` : FG% on 3-Pt FGAs

- `2P` : 2-Point Field Goals

- `2PA` : 2-point Field Goal Attempts

- `2P%` : FG% on 2-Pt FGAs

- `FT` : Free Throws

- `FTA` : Free Throw Attempts

- `FT%` : Free Throw Percentage

- `ORB` : Offensive Rebounds

- `DRB` : Defensive Rebounds

- `TRB` : Total Rebounds

- `AST` : Assists

- `STL` : Steals

- `BLK` : Blocks

- `TOV` : Turnovers

- `PF` : Personal Fouls

- `PTS` : Points