

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 \(https://en.wikipedia.org/wiki/Effective_field_goal_percentage\)](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
- `FTtr` : 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