Data Description: Reproducible Data Analysis Project

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Description automatically generatedOverview

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

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Description automatically generated 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.**

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Description automatically generated 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

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Description automatically generated 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

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Description automatically generated 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

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Description automatically generated 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