Performance of Baseball Players

Udacity DAND Final Project

By: Ali ALSUHAIBANI

Introduction:

This analysis presents the data visualization steps used and details the findings and conclusion on the main determinants of baseball players' performance.

This analysis was executed using Tableau Desktop data visualization tools and data set containing 1,157 baseball players "Udacity Provided" with statistics on handedness, height, weight, batting average, and home runs.

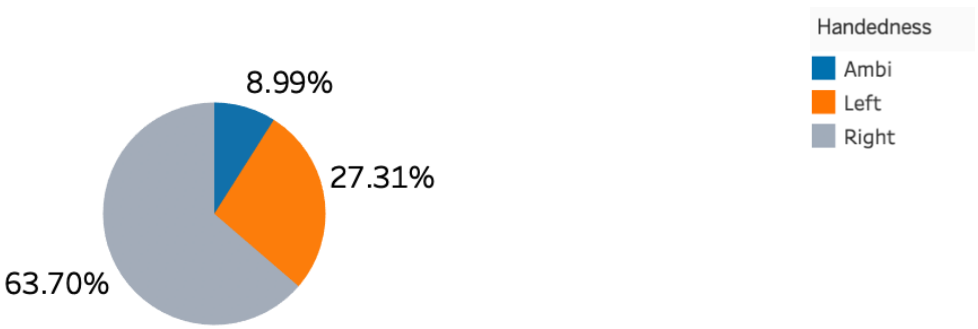
It focused on the relationship between the performance attributes of batting average and home runs on the one hand and the physical attributes of weight, height, and handedness on the other.

Summary:

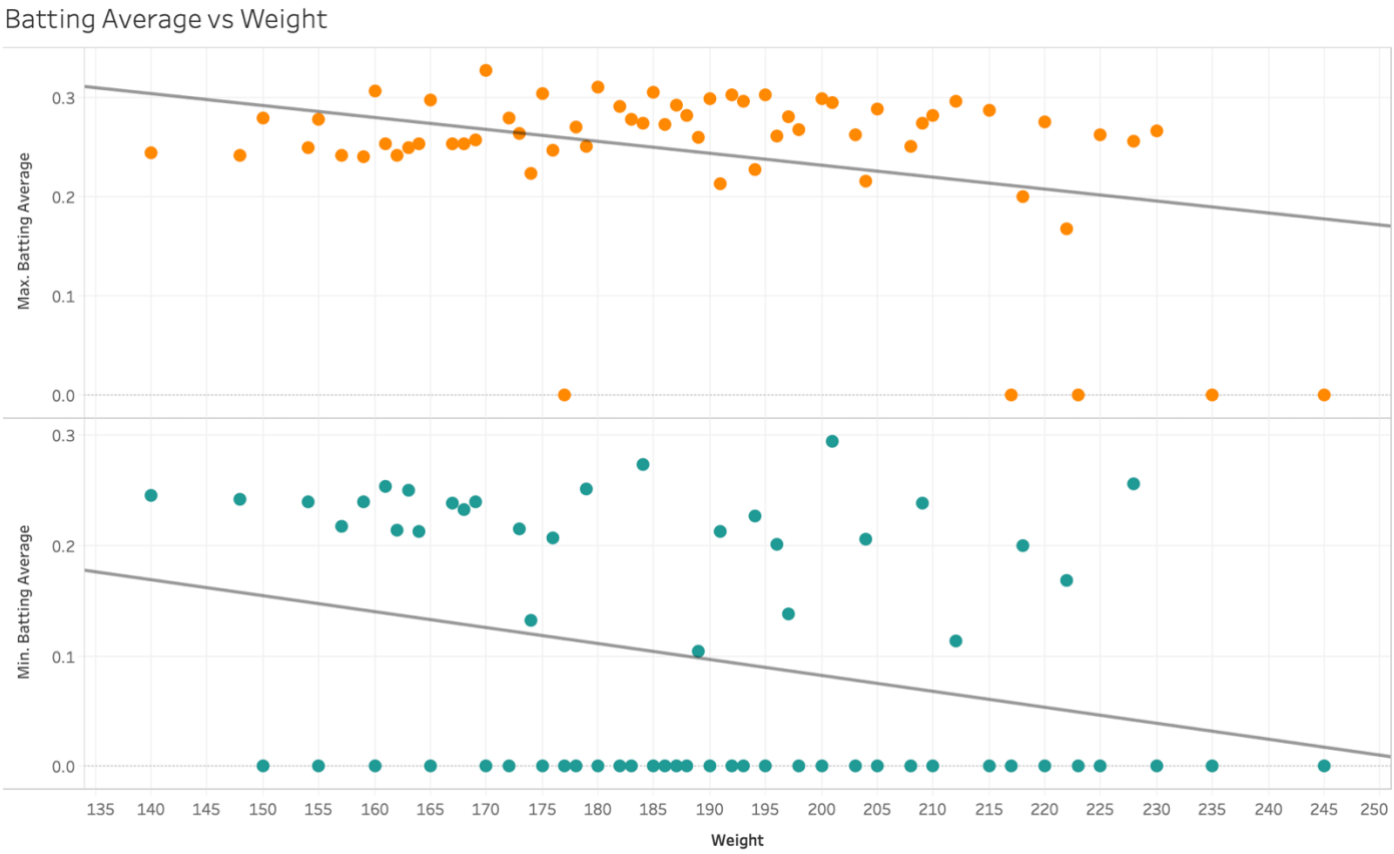
This project employed various visualization techniques to explore the baseball data observations. Included analysis on the relationships between handedness, height, batting average, weight and home runs.

Design:

A pie chart shows the percentage of players who are right handed, left handed, or ambidextrous. Most of the baseball players are right-handed, according to our data. 64% of the batters are right-handed versus 27% left-handed. Only 9% are ambidextrous switch hitters.



Here in this plot determine whether weight was a predictive factor for a player. The trend lines again suggest a slight negative relationship; the data does not appear to be complete, with many players missing statistics on batting averages.



Feedback:

I received a feedback from my friend who has experience work on data analysis and tableau and from Udacity reviewer. I received comments in regard to the color schema of plots, choice of graphs and readability of the presentation. I changed the first graph of handedness to pie chart its readable than bars, also add trend lines helps to identify the correlation between two variables or more by observing the trend in both of them simultaneously. Also changed color of plots it's easier to readability, also add Dashboard to final of story to summarize to the readers.

Link to Initial Version:

https://public.tableau.com/profile/ali.alsuhaibani#!/vizhome/PerformanceofBaseballPlayers__InitialVersion/Story1?publish=yes

Link to Final Version:

https://public.tableau.com/profile/ali.alsuhaibani#!/vizhome/PerformanceofBaseballPlayers__FinalVisualization2/Story1?publish=yes

Conclusion:

The conclusion is the top baseball performers will be those who are left handed and shorter, with a height between 65 and 72 inches. Also, left-handed players may have an advantage over both right-handed and ambidextrous players. The weight may play a factor, with heavier players hitting more home runs.

Resources:

Data Set

https://www.udemy.com/

https://www.tableau.com/support

https://www.udacity.com