Create a Tableau Story: Baseball Write-up

First Draft: https://public.tableau.com/profile/jacob.williams8617#!/vizhome/CreateaTableauStory-BaseballFirstDraft/CreateaTableauStoryProject

Final Draft: https://public.tableau.com/profile/jacob.williams8617#!/vizhome/CreateaTableauStory-BaseballFinalDraft/CreateaTableauStoryProject

Summary

This story will be analyzing a data set containing 1,157 baseball players with a number of features. Their features include:

1. **Handedness** (left, right, both)
2. **Height** (in inches)
3. **Weight** (in pounds)
4. **Batting Average**
5. **Number of Home Runs**

Features will be used to highlight relationships or patterns found when comparing them to player handedness. I received feedback from three different people at the same time(wife, friend, brother) and will document them below.

Design and Feedback(Going through each story point)

1. Distribution of Handedness (Pie Chart)

To start out, Handedness is displayed as a pie chart to clearly understand the distribution of players in the dataset.

As we can see, right-handed players are a majority with over sixty percent, while left-handed players make up a little over a quarter of the data. Finally, those who are ambidextrous(use left and right) make up the minority at under ten percent.

Feedback Given: Graph was easy to read and was easy to understand

Changes Made: Different color used for right-handed people due to color(red) being too close to left-handed(orange) being too similar. Mainly changed to keep uniform with other graphs.

2. Height and Weight Distribution (Scatter Plot)

We can see how height and weight make up each handedness type using a scatter plot. It is useful to show the pattern for each handedness by comparing all three together.

The pattern of the data shows that each handedness is similar in distribution.

The scatter plot also shows that height and weight are positively correlated, generally meaning that the taller a baseball player is, the heavier they weigh.

Feedback Given: Colors for left(orange) and right(red) handed people were too similar and could be hard to differentiate, title formatting issue, grammar mistake (We can see how height and weight "makes" up each) in story point.

Changes Made: Right-handed color changed from red to green for better readability. Title has been fixed, and grammatical error fixed.

3. Handedness Batting Average (Bar Graph)

According to Major League Baseball, batting average is determined by dividing a player's hits by his total at-bats for a number between zero (shown as .000) and one (1.000).

Batting average is shown for each handedness using a bar graph to better illustrate a higher average comparison . Even though right handed players make up the majority, they have the lowest batting average.

Players who use both hands have the highest batting average with left handed players not being too far behind.

Feedback Given: Title formatting issue, question determining how batting average is measured

Changes Made: Title has been fixed, description given in story point as to how average is calculated, and unit of measurement(according to Major League Baseball) included on y axis label.

4. Percentage of Homeruns Per Handedness (Pie Chart)

Since a pie chart is a great way to represent categorial percentages, this pie chart shows how many homeruns each handedness type has hit.

Right-handed players have hit the most homeruns , which shouldn't be too surprising due to the majority of players in the dataset being right-handed.

Feedback Given: Graph was easy to understand.

Changes Made: Changed color of right-handedness(red to green) due to color being too similar to left-handed(orange). Done for uniformity across entire story.

5. Homerun and Batting Average Correlation (Scatter Plot)

Homerun and Batting Average is plotted using a scatter plot. This is helpful to show the correlation between a player's batting average and the number of homeruns they have hit.

If we look through each handedness, we can see that the pattern is very similar for each.

Feedback Given: Graph was easy to read and was easy to understand, title formatting issue.

Changes Made: Fixed title formatting on graph.

Additional Feedback

Friend: If the dataset was larger and included more features, it would be interesting to see which hand that ambidextrous users favor.

Brother: I also wonder if a smaller dataset (since there are so fewer left handed and both people) skews the data in a more positive direction? How would it compare to a much larger dataset?

Resources

http://m.mlb.com/glossary/standard-stats/batting-average

https://help.tableau.com/