Tableau Story – Baseball Data Analysis

Summary:

This project presents the explanatory data visualization steps and to communicate the findings and patterns on the performance of baseball players. The analysis is done using Tableau and a data set containing 1,157 baseball players including their handedness (right or left handed), height (in inches), weight (in pounds), batting average, and home runs.

You can find the links to the stories below:

Story 1 (Before Feedback) –

https://public.tableau.com/profile/yukti6154#!/vizhome/BaseballDataAnalysis-Story1/Story1?publish=yes

Story 2 (After Feedback) –

https://public.tableau.com/profile/yukti6154#!/vizhome/BaseballDataAnalysis-Story2/Final-BaseballAnalysis?publish=yes

Design:

I decided to use boxplots, scatter plots, line chart and histograms to display the quantitative variables.

- For the first analysis, Number of Records by Handedness, I chose a bar chart to easily see how many observations we have by the type of hand (left, right or both). Also, number of records by height and weight to understand the distribution.
- Home Runs vs Batting Average is represented by a scatter plot. The plot shows no clear relationship between these variables. However, I plotted the trend line and discovered that the height and weight have a positive relationship.
- Started by plotting small multiples of Batting Average and homeruns vs Height and Batting Average and homeruns vs Weight. This made analyzing a bit difficult.
- Boxplots were used to plot the relationship of batting average and with handedness and HR vs handedness. This gave a clarity for the data distribution and the players which are outliers.
- Batting Average vs Height is represented by a line chart. This plot is examining the maximum batting average per height. It seems that highest batting average have the players who have a height of 67 inches.
- Batting Average vs Weight is represented by a line chart as well. In this plot we can see that the maximum batting average have the players who have a weight around 200 lbs.
- From this visualization we can easily see that players with height of 67 inches had the most home runs.

Feedback:

1. Remove titles where not necessary.
2. Update the axis and make it constant throughout.
3. Add a text for each graph to explain in detail or increase the story tile to avoid scrolling.
4. Add color to the handedness to improve the display.

Resources:

Course Material