Project4: Data Visualization with Tableau for Udacity's DAND
Made by: Ashley Adrias

Tableau Public: https://public.tableau.com/profile/ ashleya

Initial:
https://public.tableau.com/profile/ashleya#!/vizhome/Project3_Visualize_with_Tableau/Sheet7

Final:
https://public.tableau.com/profile/ashleya#!/vizhome/Project3_Visualize_with_Tableau_Final/Story1

Summary: I chose the baseball dataset. Here I wanted to explore what features lead to the most number of homeruns. I look at the player's handedness and height-to-weight ratio as it relates to the number of homeruns. Through the storyboard, I lead my reader through my train of thought, conclusions, and further exploration we could possibly do to expand on this dataset.

Design:
Initial:
Every sheet in my Tableau workbook represents a question I asked myself:
Sheet1: Who had the most homeruns?
I made a simple vertical bar chart and organized the value from top down in descending order.
Ans. Reggie Jackson

Sheet2: What handedness had the most homeruns?
I made a bar chart and organized the value from left to right in descending order.
Ans. Right-handed

Sheet3: What weight gets the most homeruns?
I made a simple vertical bar chart and organized the value from top down in descending order
Ans. 228lbs

Sheet4: What height gets the most homeruns?
I made a simple vertical bar chart and organized the value from top down in descending order
Ans. 65.28in

Sheet5: Is there a statistically significant ratio between height and weight in baseball?
I plotted a height (x) and weight (y) as a shape graph and then added a linear trend line.
Ans. There is a statically significant ($p < 0.05$) linear relationship between height and weight.

Sheet6: What height-to-weight ratio had a most homeruns?
I plotted a bar chart with binned h/w ratios and used the sum of homerums.
Ans. 0.37 had accumulatively more homeruns

Sheet7: What does the distribution of homeruns and h/w ratios looks like for handedness types?
I made a scatterplot. Added Handedness to the filters and the columns and rows to marks. Then added a box and whisker plot.
Ans. There are much more right-handed players in this dataset. The distribution for both plots were normal and skewed to the lower end of the HR limits.

Final

1. What does HR mean?
   I changed HR to homeruns

2. All of the colors are the same on the bar charts and scatterplots
   I changed the colors to make the graphs more aesthetic and focus the attention on the top values

3. Change the titles and add the questions in a storyboard
   I have the titles to be more descriptive and created a storyboard to showcase the meta-questions.

Feedback:

4. What does HR mean?
5. All of the colors are the same on the bar charts and scatterplots
6. Change the titles and add the questions in a storyboard

Resources:

1. https://onlinehelp.tableau.com/current/pro/desktop/en-us/calculations_bins.html