## Summary:

This report documents the design process of developing a data story using Tableau, which allows user to build data visualizations for exploratory and explanatory data analysis. My Tableau storyboard investigates baseball statistics and explores the relationship between a batter's handedness (left, right, or both), height, and weight on performance statistics such as the number of Home Runs (HR) hit and player Batting Average over the course of their career. A total of 1,157 players are in the data set. Most baseball players are right-handed. Most of the players weigh between 150 – 230 pounds and are 66 – 80 inches tall. Players with the highest batting average are 67 inches tall and weigh 201 pounds. Players with the highest average of home runs weigh 209 pounds.

Both an initial storyboard and 3 final storyboards can be found at the link below:

Kathryn Haynes Tableau Stories

## Design:

Variables in the dataset include:

- Handedness
- Height (in inches)
- Weight (in lbs.)
- Batting Average
- Home Runs

Based on the variables provided, I have chosen to include the following visualizations:

1. I used bar graphs, line graphs and bubble charts of each variable to understand the overall distribution of each variable.
2. Bar graph for handedness.
3. Line graph comparing batting average and home runs against player height and weight.
4. A bubble graph of Batting Avg. versus Home Runs, and height versus weight.

## Feedback:

I received the following feedback after sharing my visualization with a friend.

- There was a nice variety of types of data visualizations (bar charts, line charts, bubble charts) and I did a nice job with headings about pulling out useful information.
- The headings and axis titles have misspellings, and the wording can be a little confusing.

I have made the following changes to address each point of feedback:

- I made no changes to the charts.
- I reread all my headings and reworded everything to make the understanding clearer.

• After checking again, I had to do a 3rd version to correct some spelling on chart titles and axis titles.

### Resources:

I used the following online resources

Udacity class work.

Github.com

### Data Files:

• baseball_data.csv