Udacity Tableau Project – Baseball Dataset

This was my first time using Tableau. It's an easy way to create professional data visualizations for both explanatory and exploratory findings.

Tableau Initial Link –
https://public.tableau.com/views/UdacityBaseballPlayersv1/Story1?:embed=y&:display_count=yes&publish=yes

Tableau Final Link –
https://public.tableau.com/views/UdacityBaseballPlayersv2/Story1?:embed=y&:display_count=yes&publish=yes

Summary

In this project I explored a data set containing 1,157 baseball players which included their handedness (right or left handed), height (in inches), weight (in pounds), batting average, and home runs. The relationship between the handedness of baseball players and other key variables was assessed using different visualisations.

Design

- First slide I opted for a pie chart to illustrate the number of players segmented by handedness. A pie chart gives a clear picture of all 3 segments and users can quickly notice the percentage different between each class.
- In the second part I decided to compare the mean and medians of the Batting Averages and Home Runs using box plots to truly understand how each metric varies according to the handedness. In a separate graph I used a scatter plot to show the combined behaviour of Batting Average and Home Runs.
- In the following section I took my explanatory analysis further by adding weight and height with the Batting Average/Home Runs in a bar chart. The bar chart included a heat map for Home Runs and a labelled line chart to highlight each Batting Average point. A filter for handedness was also included in this section.
- Final slide featured a detailed scatter plot explaining the correlation between the Batting Average and Home Runs. I included a trend line which turned out to be positive. Each marker was coloured/shaped by Handedness type. Filters for the player names, weight and height were also included on the dashboard.

Feedback

- **"Title should be changed from Story1 to something relevant to your project."**
  Action – Replaced title to Udacity Tableau Project – Baseball players

- **"The home run chart segmented by handedness correctly shows the totals for each handedness group, however, it would be interesting to add a calculated field showing the home run ratio for each group to be able to identify the best group at completing a home run."**

Action – Replaced row values in previous chart with a calculated field showing the home run ratio per handedness type.

- **“Boxplots are well explained however I would remove some outliers to give a clearer picture of where the median and mean stand for each handedness group.”**
  Action – Removed some outliers and changed scale numbers on the y-axis

- **“Bar charts on page 4 can be presented better by removing outliers and increasing bin width to omit low values.”**
  Action – increased bin widths to get a smoother distribution and deleted extreme outliers

Resources

n/a