Project: Create A Tableau Story using Baseball Data

Tableau Links

Initial version:
https://public.tableau.com/profile/emily6902#!/vizhome/DAND_P4_BaseballPlayersPerformance_V1/BaseballPlayersPerformance

Final version:
https://public.tableau.com/profile/emily6902#!/vizhome/DAND_P4_BaseballPlayersPerformance_V2/BaseballPlayersPerformance

Summary

This report aims to present visualization to communicate the findings and patterns on the performance of baseball players. The analysis is done using Tableau on 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.

Different visualizations are used such as bar chart, scatter plots, lines and area charts to see if there are any relationship between the variables, what could result in highest batting average and home runs.

Design

Initial version:

- Question: Are most of the player left or right handed? Bar chart is used to compare the differences.
- Question: Are home runs and batting average related? Scatter plot is used to see if they are related.
- Question: Highest batting average player's height and player is left or right handed? Line chart is used.
- Question: Highest batting average player's weight and player is left or right handed? Line chart is used.
- Question: Weight of player with most home runs and player is left or right handed? Area chart is used.
- Question: Hieght of player with most home runs and player is left or right handed? Area chart is used.

Final version:

- Added Aliases for Handedness for easy reading.
- Added 2 additional bar charts on top home runs and top batting average players.
- Added value label for all the charts so that users can easily spot the main point for the visualizations.

Feedbacks

Received the following feedbacks:

- Legend should explain what does R, L, B stands for.
- Some of the visualizations are hard to read, not sure which area to focus.

Conclusion

Analysis result:

1. Most baseball players are right-handed.
2. There is no relationship between number of home runs and batting average.
3. Highest batting average player is 72 inches in height, weigh 170 pounds and left-handed.
4. Player with the most home runs player is 74 inches in height, weigh 190 pounds and right-handed.
5. Top home runs player is Reggie Jackson with 563 home runs and left-handed.
6. Top batting average player is Jim Rice with 0.298 and right-handed.

Based on this data set, it is observed that to top either batting average or most home runs, player should be around 72 to 74 inches in height and weigh between 170 to 190 pounds. It also shows that left or right handed doesn't really affect the result.

Resources

N/A