Baseball Data Visualization using Tableau

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1. Summary

The visualization of story was applied on baseball data, the data contains some information about baseball game such as the name of players, handedness, weight, height, batting average (avg) and Home Runs (HR). In this work initial version and final version of story were applied. general information about data were shown, also comparison between some properties based on handedness of players. Some visualization of top players was created which includes names of players, batting average, home runs and handedness.

Story version 1

https://public.tableau.com/views/Initialvisualization_0/Sheet1?:embed=y&:display_count=yes

Story version 2

https://public.tableau.com/views/Finalvisualization/Story1?:embed=y&:display_count=yes&publish=yes

2. Design

Initial visualization

In first graph, number of records by Handedness, a bar chart was applied to easily clarify how many observations are in each type of hand (left, right or both), as result Most of players are right handed. The next chart shows the handedness of players that achieved the most score (HR), as result the players who are left handed achieved the most score of HR, while with the average of HR, the players who are right handed achieved the most score of HR.

Average batting vs height was represented to show if there in a relationship or not, the graph shows that There is no relationship between the height of the player and the average batting.

Handedness vs average batting was represented using bar chart to show the handedness of players that achieved the most average batting, as result the

players who used both hands (right and left) in playing, also those who are left handed have the high Average batting.

A visualization for the top players according to the handedness and average batting and HR was represented. As result of comparing Handedness for 5 Top average batting players and Top Home Runs players the handedness with the average batting only one player uses his both hands to achieve the high score. and the players how are right handed is more than who are left handed. on the other hand, in the graph which compares the handedness with HR no players use both hands, there are two players achieved high score of HR one of them is right handed and the other is left handed, the left-handed players are more of the right-handed players.

After getting Feedback 1: The values on bars in each bar chart were shown to make the chart easy to understand to readers.

After getting Feedback 2: The bar chart to visualize the number of handedness was converted to a pie chart because it is clearer to understand.

After getting Feedback 3: A new chart was added which was bubble chart to realize the relationship between the height of players and the average batting.

3. Feedback

3.1 Show the values on bars in bar charts because there are only three values to display in each bar chart.

3.2 Convert bar chart to pie chart to visualize the number of handedness because there are three values to visualize and the pie chart is clearer to understand.

3.3 Use the bubble chart to realize the relationship between the height of players and the average batting.

4. Resources

None.