

PROJECT: CREATE A TABLEAU STORY

Baseball Analysis dataset is selected for this data visualisation and story telling project.

SUMMARY

After scouting the contents of the dataset, it is decided that a general look in the baseball players physical conditions would be a good start. Handedness, weight and height of the players are visualized.

Then, the correlation between the 3 physical conditions and their batting average and home run scores are investigated.

The analysis results are provided in a tableau story. A baseball team may benefit from this analysis when they make decision about hiring a player.

https://public.tableau.com/profile/kemal.kar#!/vizhome/baseball_analysis/BaseballAnalysis?publish=yes

DESIGN

In order to visualize the physical conditions of the players, histograms are selected since they are the simplest charts for displaying the distribution of data.

The distribution of physical conditions are colored according to the handedness so that the distribution of right, left and both handed players are also displayed.

In order to compare the batting average and home run scores with handedness, a categorical variable, box plots are used. This display provided visual comparison of minimum, maximum and median values in each category in a single chart.

In order to understand how batting average and home run scores change with weight and height, line charts are employed. Trend lines are used to provide a clear understanding of correlation between scores and physical conditions.

FEEDBACK

At first sketch, visualisations such as below samples are created. However, the audience provided negative feedback: the charts try to present a lot of information at the same time and it is difficult to retrieve results which the analysis aims to provide. It would be better to divide these giant charts into lighter visualisations and provide only 1 result at a time.

https://public.tableau.com/profile/kemal.kar#!/vizhome/baseball_analysis/HomeRunvsHeightandWeight?publish=yes

https://public.tableau.com/profile/kemal.kar#!/vizhome/baseball_analysis/BattingAveragevsHeightandWeight?publish=yes

https://public.tableau.com/profile/kemal.kar#!/vizhome/baseball_analysis/BattingAveragevsHomeRun?publish=yes

In the second iteration, the home run and batting average scores vs height and weight are sketched. However, as the linear chart fluctuates, audience provided feedback that the positive or negative correlation is hard to understand. Trend lines are added to visualisation in order to provide clear view of correlation as below:

https://public.tableau.com/profile/kemal.kar#!/vizhome/baseball_analysis/BattingAveragevsPhysicalStats?publish=yes

In the final iteration, filters are added to the dashboards in the story for handedness. These filters are beneficial for analyzing the players only with selected handedness in detail. Please see the last dashboard in the story: both handed players score more Home Runs as their height increase whereas right and left handed players score less as their height decrease.

https://public.tableau.com/profile/kemal.kar#!/vizhome/baseball_analysis/HomeRunvsPhysicalStats?publish=yes