Looking for a Hitter

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Udacity Data Analysis NanoDegree

Summary

This analysis is focused on how 1.157 baseball players perform when batting.

I will focus on their handedness, their height, their weights, the batting average and how many homeruns they have achieved. The purpose of this analysis is to find out the features of a good baseball hitter.

Design

The final report is a story design on Tableau, but I have created several worksheets and dashboards to create the story "Looking for a Hitter".

"Looking for a Hitter" starts with a description of the players profile. The analysis in this first step shows that the average player is: right handed, weights approximately 180 pounds and is 72 inches tall.

The next step is to have a look on the players scores. Most player have a batting average of 24%.

Then we look on the specific features of the players: handedness, weight and height and the impact of these features when batting. In a first insight we see that left and both handed players are better batters than right handed and left handed are also homerunners, while right and both handed are not so good hitting homeruns. But if we have a deeper insight on this subject, we will find out that the better a player perform while batting the greater the possibilities to achieve a homerun. And in this case the better the average of batting the better the right handed players perform in comparison to left and both handed.

If we look to the weight, we will see a double effect on batting. The average while batting is better on thinner players than on heavier players, but heavier players scores higher number of homeruns.

In one side we will find out, that smaller players are better hitters than taller players, if we have a look on the height of the players, but on the other side we will see that the height doesn´t have a great impact for hitting homeruns.

Conclusion

The best hitters have in common that they are right handed players, not very tall (66 inches – 168cm) and not very heavy (140 pounds – 64kg), while homerunners are heavier players and good batters with a batting average above 22%.

Feedback

I´ve shared my project on the Udacity Student Hub. I received some recommendation and suggestions from the mentors, that I added to a second version of this project.

The first change they suggest me was to review my text boxes, because they were overlapping the plots.

The second subject they mentioned was to change labels of the axes with suitable title to all the plots.

And the third issue I should address was to review the caption areas to make it clearer.

Resources

Baseball Data

https://s3.amazonaws.com/udacity-hosted-downloads/ud507/baseball_data.csv

Tableau 2018.3