

# **Create a Tableau story Baseball dataset**

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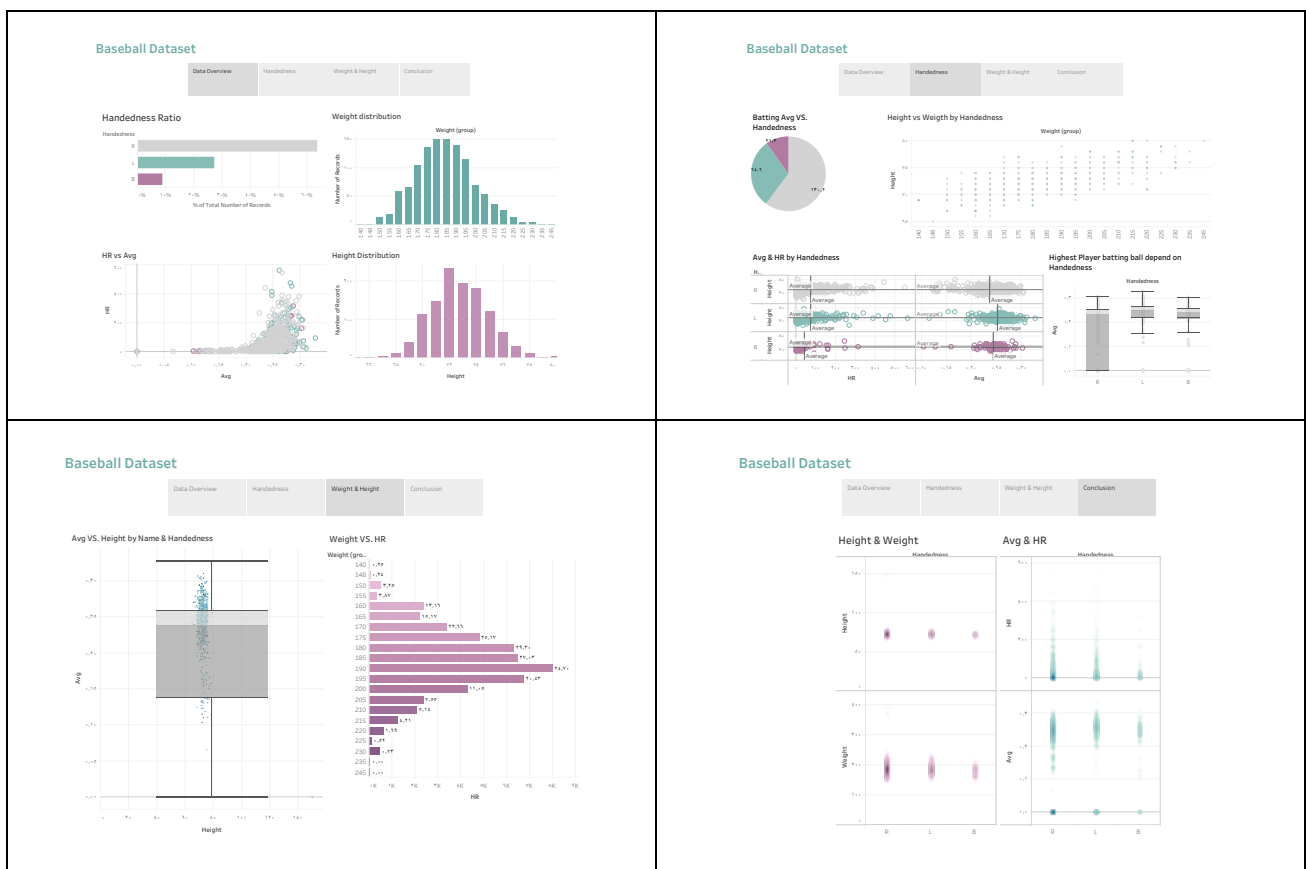
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# Summary

Our dataset contains 1,157 of baseball players information. I will create visualization to analyze performance of players base on given information including (handedness, height - in inches, weight - in pounds, batting average, and home runs) then determine the star players from good players.

## Design

### Visualizations



### Description

I created 4 dashboards which can compare between multiple factors:

- **Data overview dashboard:** contain some affective variables that affect our data, how many players use his/her right, left and both, the height and weight disruption and how the home run affect the batting average.

**Type of visualization:** Horizontal and vertical bar, Scatter plots.

- **Handedness dashboard:** in this section we found who is the star player, if it's the hand affect the batting avg (I choose pie chart to show the sum of batting avg as there were only 3 categories of handedness and the pie chart seems to show good visualization and easy to differentiate between overall count), the average of each hand regard the home run and batting avg and the players weight and height and which hand they use.

**Type of visualization:** Pie chart, Circle and Circle views.

- **Height / Weight dashboard:** I looked at how Weight and Height affect overall performance of player by found how the height affects the batting avg and the relation between the weight and home run.

**Type of visualization:** Circle views and Horizontal bar.

- **Conclusion dashboard:** in this section I conclude the overall variables relation with the handedness.

**Type of visualization:** Gantt bar.

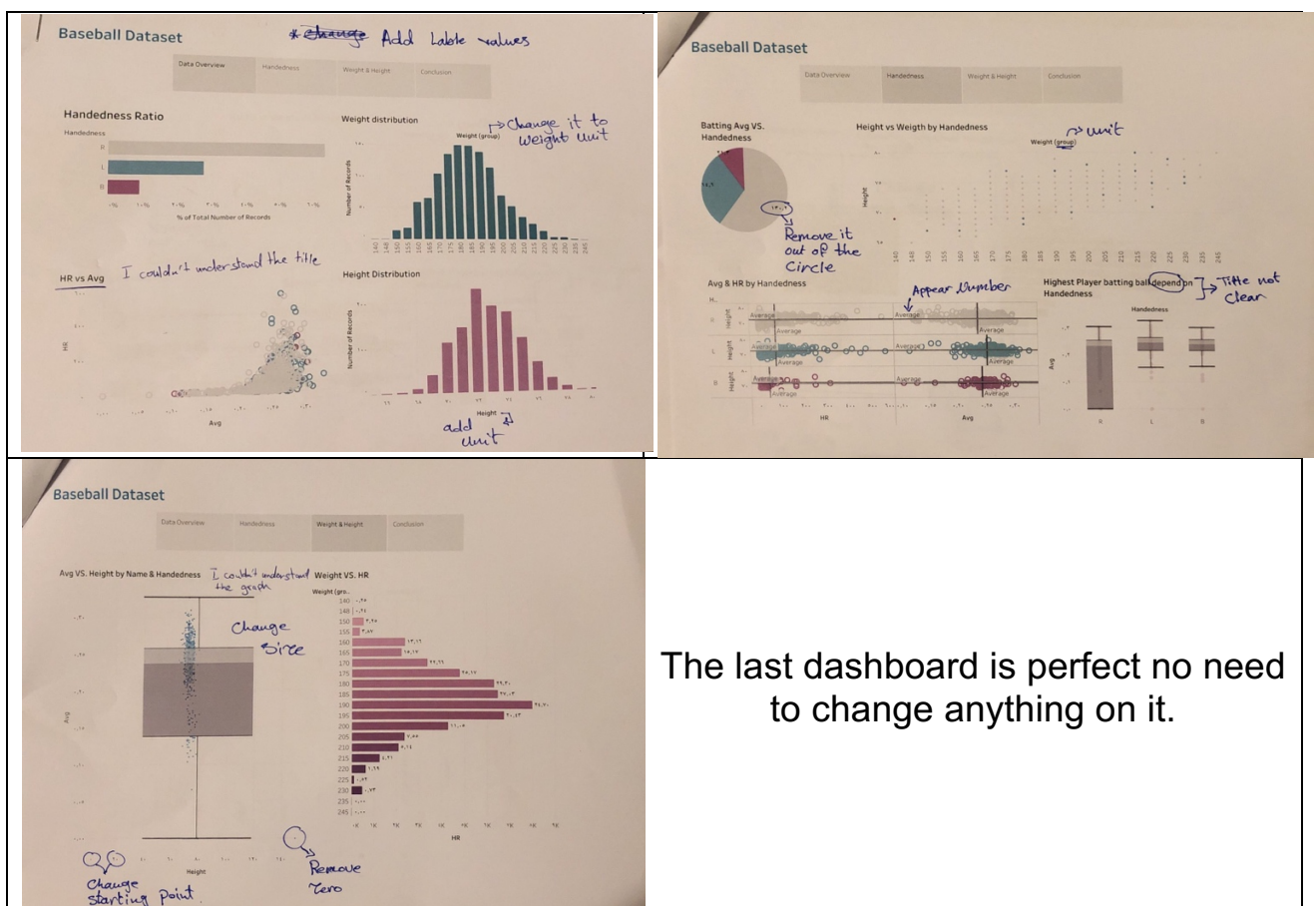
## Feedback:

I'm share my story with two persons:

- **Wejdan (IT project manager)** – she uses the dashboard to keep up her work organized and she understand the idea of the dashboard so she gave me her comments.
- **Abdulrahman (Data Analyst)** – he's a Tableau Certified, he worked every day on tableau so he can provide me with an amazing feedback that will improve my work.

## First Sketch

I pass the same paper to each of them so they provide me their feedback manually:



The last dashboard is perfect no need to change anything on it.

## First visualization



## Second Sketch

After udacity reviewer review my project he/she provide me with only two comments:

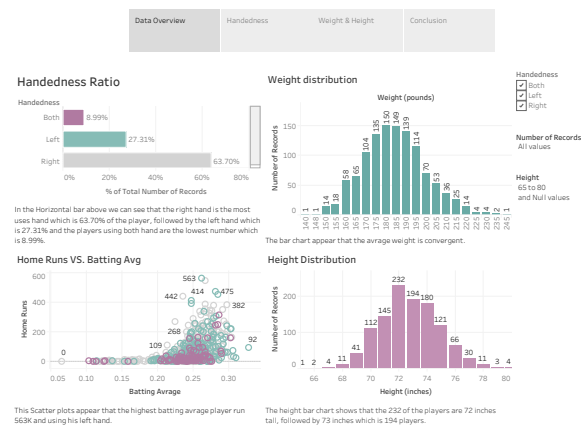
- Due to the use of abbreviations, it wasn't clearly communicated. Avoid using abbreviations such as L, R, and B. Use full words instead, because not all the readers would understand what those letters stand for.
- The charts are provided with Arabic numbers, please convert them into English.

## Second visualization

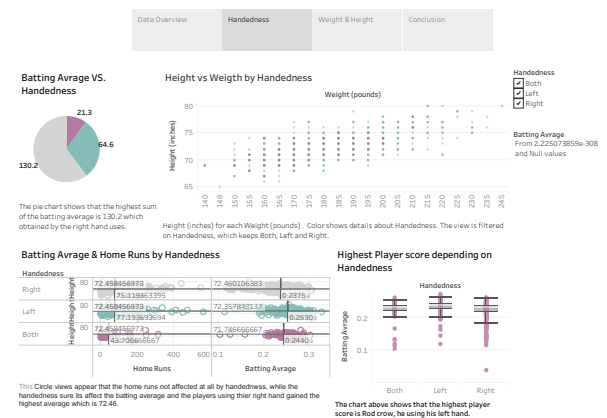


## Third visualization

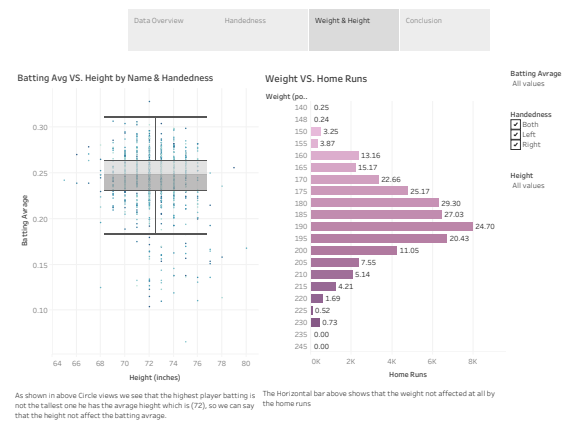
### Baseball Dataset



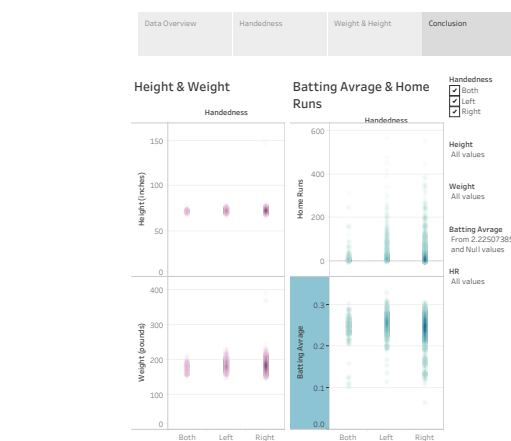
### Baseball Dataset



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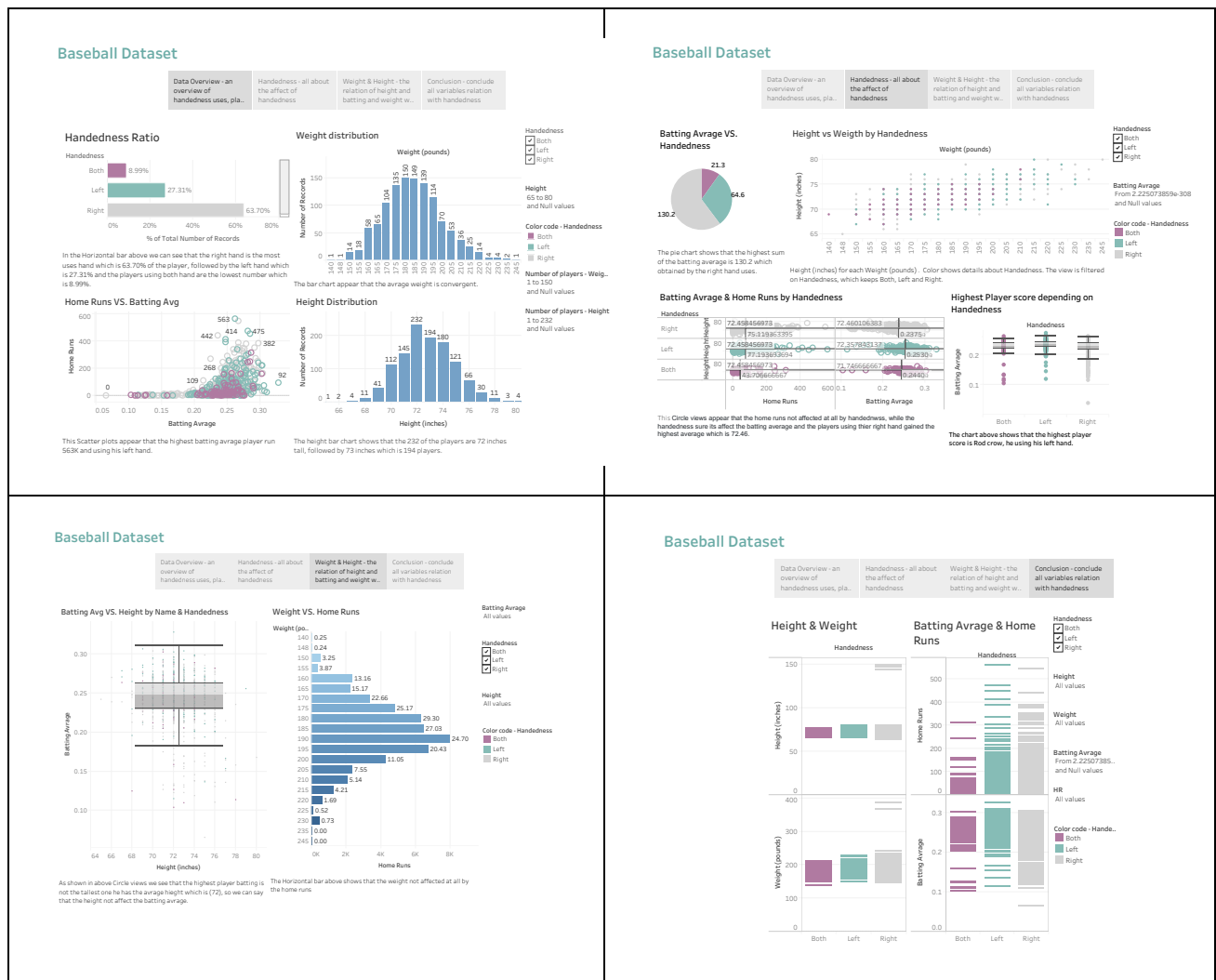
## Fourth Sketch

After udacity reviewer review my project to the second time, he/she provide me with only one comment:

- Thanks for the great work, just one thing to fix. Since there are multiple colors used, I want see color legend to specify each color meaning. Furthermore, (Number of records) is not that clear to use as a filter label, you can use (Number of players) instead. Finally, I would recommend adding a caption to each slide that is stating some fact about the visualizations.



# Final visualization



### Baseball Dataset

Data Overview - an overview of handedness uses, pla...

Handedness - all about the affect of handedness

Weight & Height - the relation of height and batting and weight w...

Conclusion - conclude all variables relation with handedness

#### Batting Avg VS. Height by Name & Handedness

As shown in above Circle views we see that the highest player batting is not the tallest one he has the average height which is (72), so we can say that the height not affect the batting average.

#### Weight VS. Home Runs

The Horizontal bar above shows that the weight not affected at all by the home runs

### Baseball Dataset

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#### Height & Weight

As shown in above Circle views we see that the highest player batting is not the tallest one he has the average height which is (72), so we can say that the height not affect the batting average.

#### Batting Avrage & Home Runs

This Circle views appear that the home runs not affected at all by handedness, while the handedness sure to affect the batting average and the players using their right hand gained the highest average which is 72.46.

## Resources:

I just use udacity classroom:

<https://classroom.udacity.com/nanodegrees/nd002-mena-connect/parts/501b21e0-e3f9-48d6-9b09-4aff1f93e539>

You can visit my Tableau Public at:

<https://public.tableau.com/profile/jawaher4015#/>