Create a Tableau Story Project

Baseball Data

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- **Introduction:**
  Baseball data is a data set that contain 1,157 baseball players including their handedness (right or left handed), height (in inches), weight (in pounds), batting average, and home runs, and provide visualization to show their performance according to these data.
  Initial Story (1):
  https://public.tableau.com/profile/chengyu.hang#!/vizhome/story_v1_15558989710580/Story1
  Final Story (2):
  https://public.tableau.com/profile/chengyu.hang#!/vizhome/story_final_15558991359760/Story1?publish=yes

- **Summary:**

The visualization is provided to see the performance of players according to some specific characteristics such as handedness, batting average, and home run and this visualization is done by using different techniques.

As a result, it is explored that players with about 73 inches and 190 pounds are predicted to perform better than other players without Handedness effect.

- **Design:**

1- Initial Story (1)

Create six visualizations about baseball players in the data set first, see the handedness to know what is the most used hand and less used hand and choose colored pie chart to see each handed clearly compared to others.
Two bar graphs each hand used and their corresponding Average batting average and the average home run for Average batting there is no big difference they almost use both equally for batting, for Home Run the left hand is used more use the bar graph and colors so the audience can see clearly the rate of Home run and batting in each hand, then combine them in one dashboard to see the result for both.
The line graph can show the changes and here it shows how the increase and decrease in height and weight are influence the Home run and Batting average so here it shows the Home Run according to height and weight for

height we can see that players at 74 batting more home runs, for weight most average weighted player, have higher batting home run and the most are at 190 pounds, then combine the related in comparison graphs in one dashboard to see the final result.
The Scatter plot used here to show the relation between Home Run and Batting Average, that show that when the player performs well in Home Run will perform will in Batting also and vice versa.

2- Final Story (2)

Added two more visualization that compare height and weight with Batting average that shows players at 72 inches and 180 bound has higher Batting average, also, and write clear conclusion and title for the story. Scatter plot Home Run Vs Batting Average, most of the right-handed players are above average for Batting average and less than average for Home Run which mean they perfume better in Batting also the same for the left handed and both handed.

- **Feedback:**
  i. **A says: You must write a clear title for the story to the audience**

  Action: give clear title for the story

  ii. **B says: Try to expand your visualization and create more to cover all the characteristics of the players and provide clear insights.**

  Action: Corrected it and provide a clear description for both.

  iii. **C says: Provide clear conclusion in story for all the visualizations**

  Action: Conclusion of all visualization.

  iv. **Udacity reviewer:** Do further analysis for Home Run Vs. Batting Average Scatter plot.

  Action: Add coloured filter according to handedness and average horizontal and vertical lines to see the difference according to them.

  v. **Udacity reviewer:** Clear full names for legends and labels such as (left, right, and Batting average)

  Action: Add clear full names for legends and labels

- **Resources**

1- Udacity