

# Assignment: Creating Foundational Charts

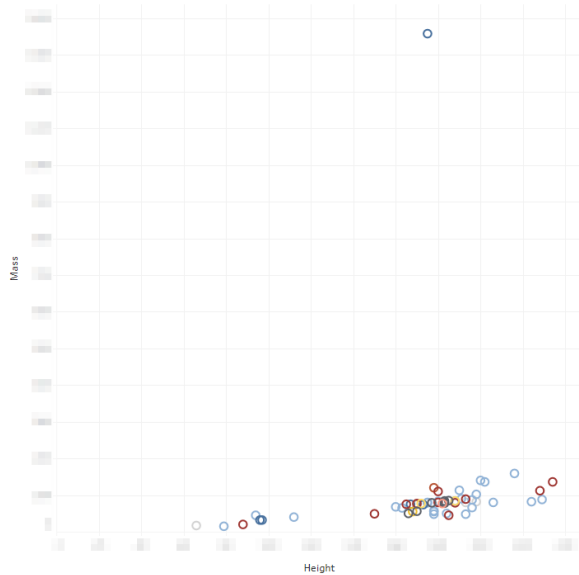
1. Using the Star Wars Characters dataset (to find the dataset, click on sheet 1 and in the upper left corner you will see a list of datasets available):
  - a. On Sheet 1, create a scatter plot of height and weight of all of the characters. Add the names to the labels. Note: Make sure to pay attention to data types.
  - b. What is the name of the character with the heaviest mass?
  - c. Add Hair Color to the color marks. What is the name of the shortest character, and what is their hair color?
2. Using the Titanic passenger list data:
  - a. Create a filter on Last Names. Use the Wildcard option in the filter to select only names that begin with a "D". Create a chart on Sheet 2 to help you answer parts b and c:
  - b. How many people with the last name Davies were on the passenger list?
  - c. How many of them survived?
3. Using the World Cup data:
  - a. On Sheet 3, create a line chart showing the average number of goals scored per match (on the y-axis) vs year (on the x-axis)
  - b. What do you infer from the graph? In other words, what's the story?
4. Using the Superstore Data:
  - a. On Sheet 4, create a line chart with the month of the order date on the x-axis, the total profit on the y-axis, and one line for each customer segment.
  - b. In which month has the Home Office segment had a higher profit than the other two segments, and how much profit was generated?
5. Use the data on the UN Child Mortality Estimates:
  - a. This data is in a wide format, convert it to tidy. Note: You may have to check that . Select the UN dataset in one of the sheets, then go to the Data Source tab.
  - b. On Sheet 5, create a choropleth (map) and color each country by the 2015 child mortality rate. Set the color scale to be the built-in Orange-Red palette.
  - c. What are the two countries on the South American continent with the highest mortality rates, and what are those rates?

## Visualization Reference

You can check your work on the SkillBuilder assignment by referencing the images below. Each image is a general depiction of what you should see on each Sheet of the workbook, with various details hidden or omitted. **Your visualizations do not need to look exactly like these reference images!** These should just be a general guide to check if you're on the right track.

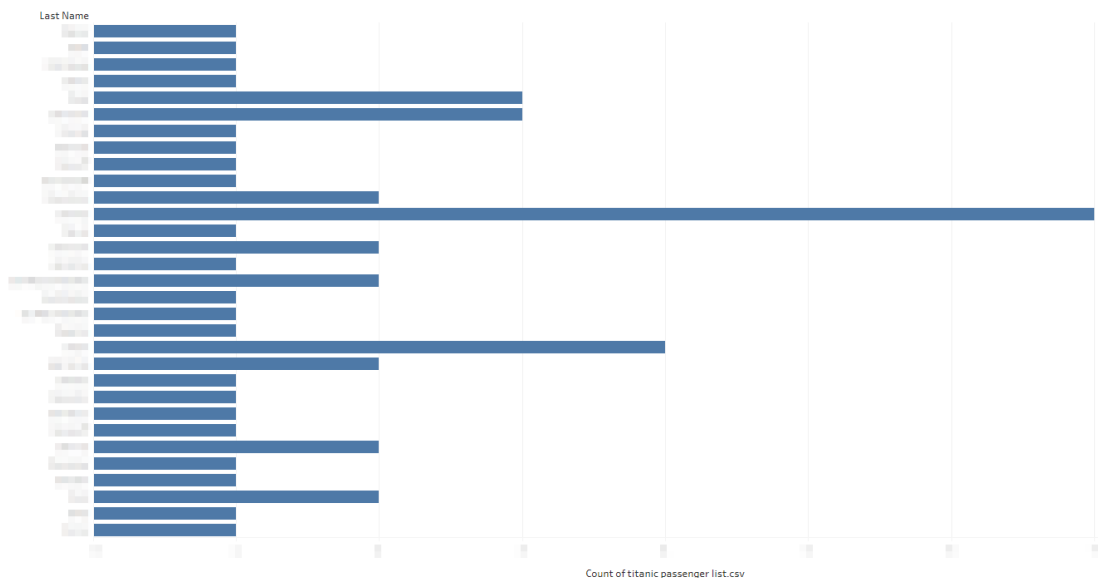
### Sheet 1 (Question 1)

Name labels have been removed from the reference image.

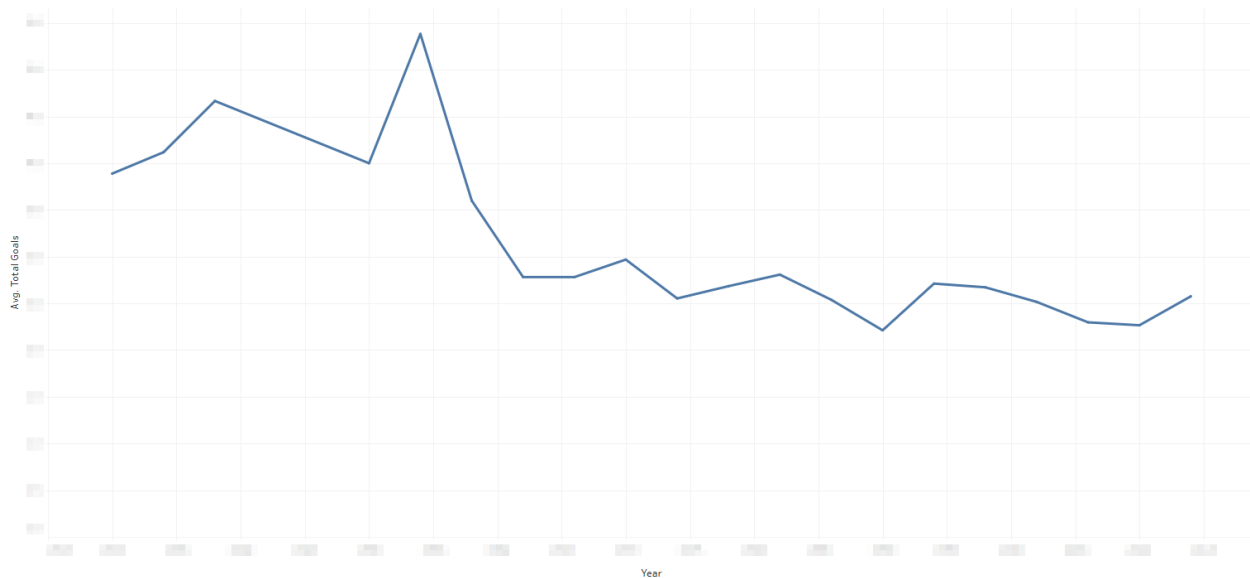


### Sheet 2 (Question 2b)

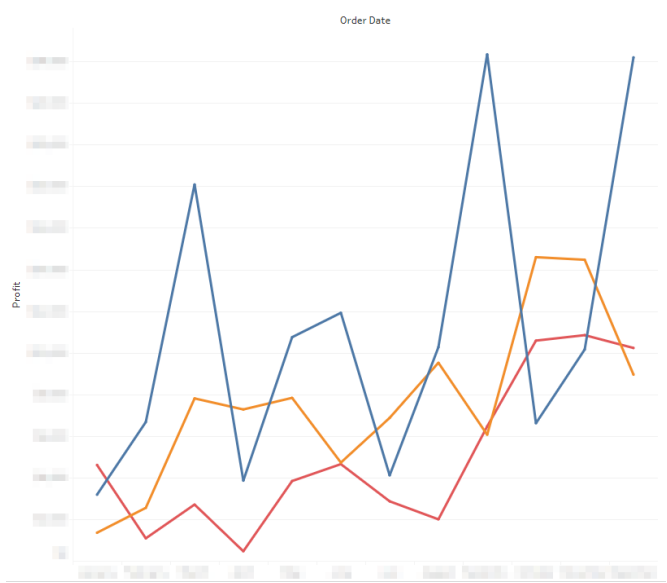
Reference image does not include encodings for part c, how many "Davies" survived.



Sheet 3 (Question 3)



Sheet 4 (Question 4)



## Sheet 5 (Question 5)

Image has been zoomed in to show only Africa.

