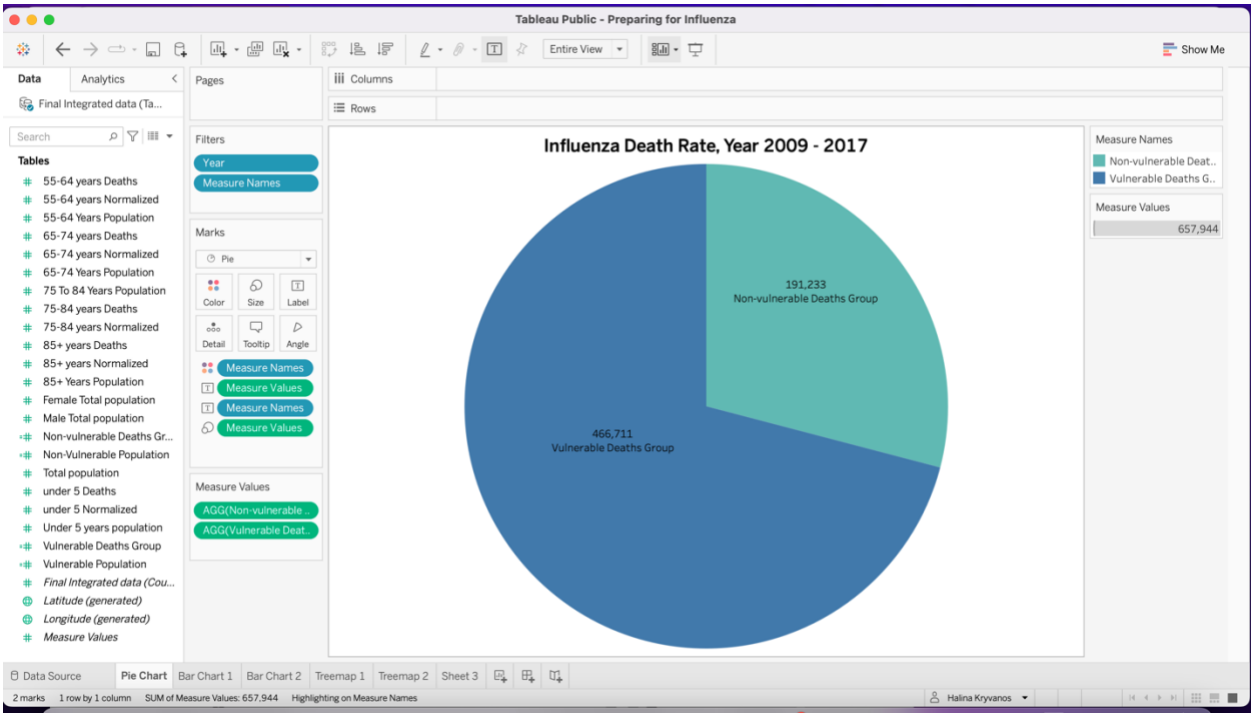
Data Visualization & Storytelling
2.3: Composition & Comparison Charts

1. Create a pie chart in Tableau using a categorical variable from your data set.

Hypothesis reminder: The percentage of deaths in the vulnerable population is greater than the percentage of deaths in other populations

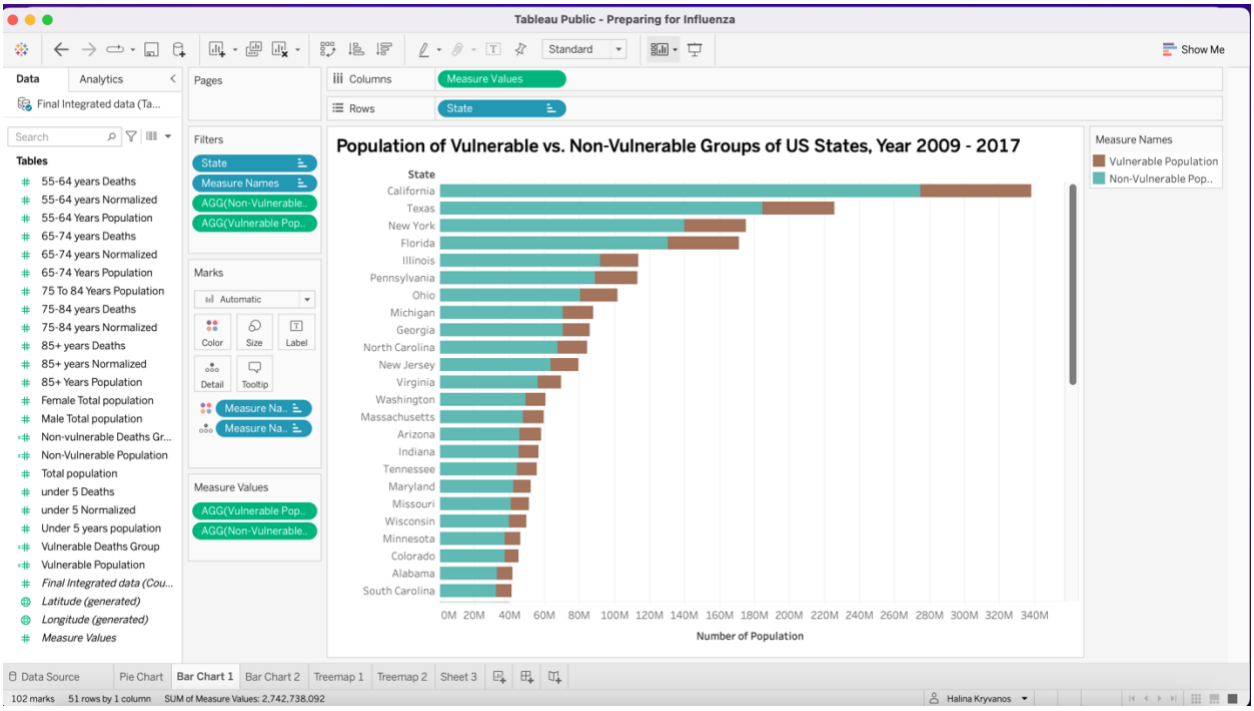
a. Determine 1 reason why a pie chart would or wouldn't be a good visualization choice
There are only two categories (Vulnerable and Non-Vulnerable Groups).
b. Use the visualization style guide you created in Exercise 2.2.
c. Create a Word document with your answer to 1a and a screenshot of your pie chart.



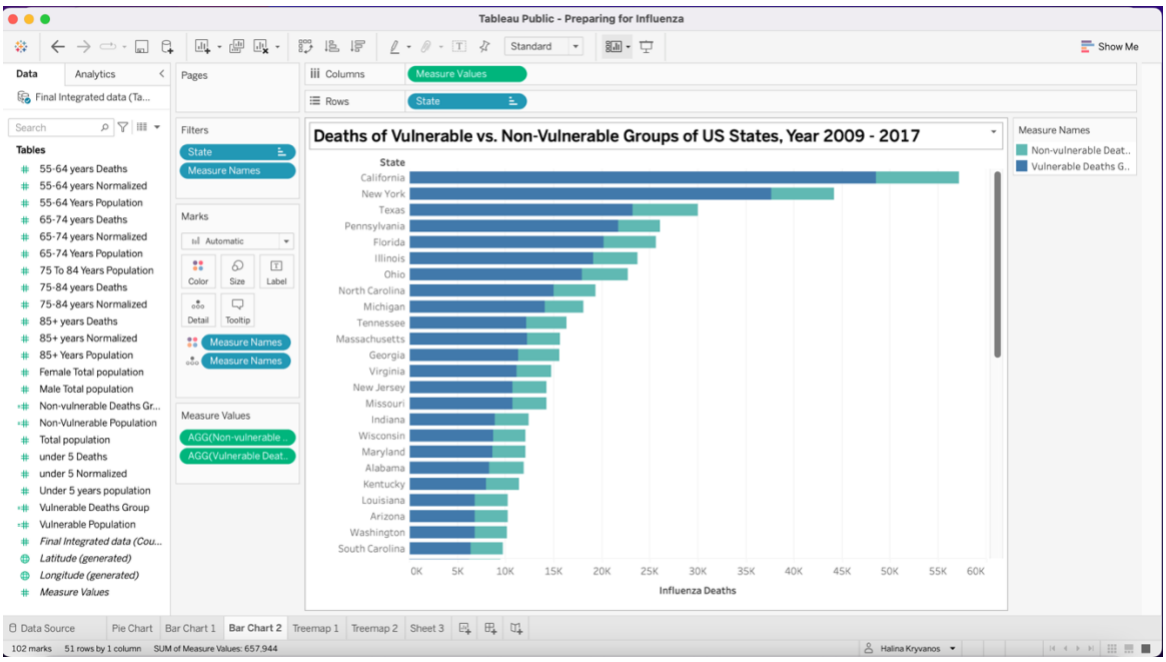
Link:
https://public.tableau.com/authoring/PreparingforInfluenzaSeason_16599860750060/PieChart#1

2. Create a bar (or column/stacked) c hart in Tableau using age as the category. You must decide what you're counting.

a. Use color to add another dimension to the chart.
b. Use the visualization style guide you created in Exercise 2.2: Visual Design Basics & Tableau to design the visualization.
c. Add a screenshot of your bar chart to the Word document you created in step 1.



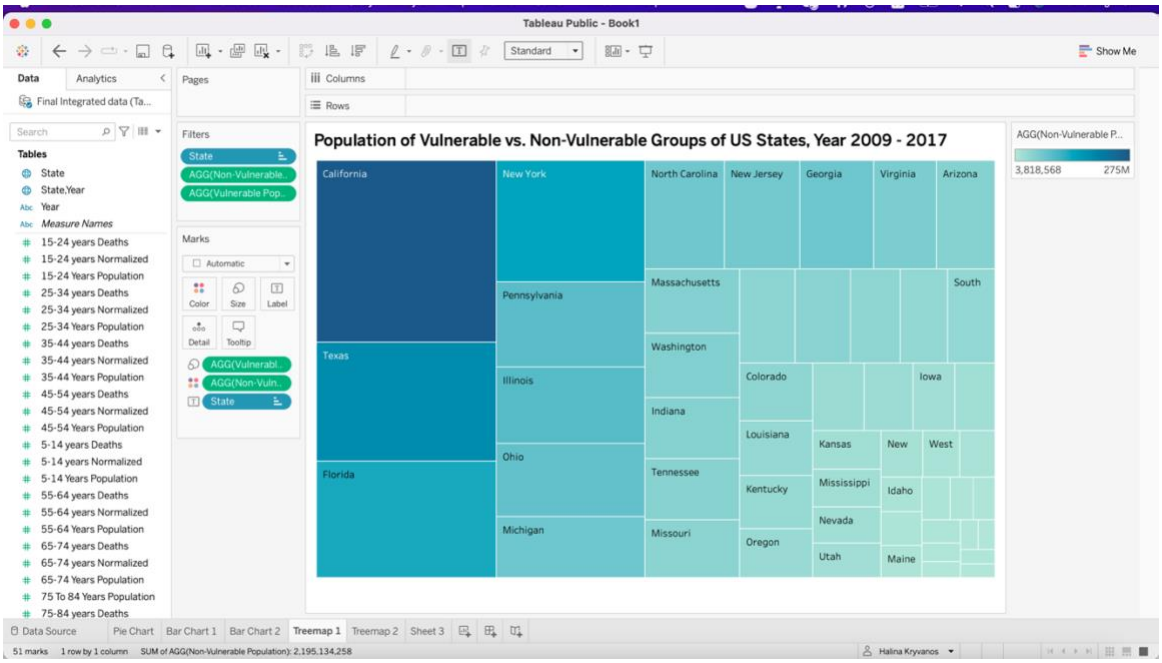
Link:
https://public.tableau.com/authoring/PreparingforInfluenzaSeason_16599860750060/BarChart1#1



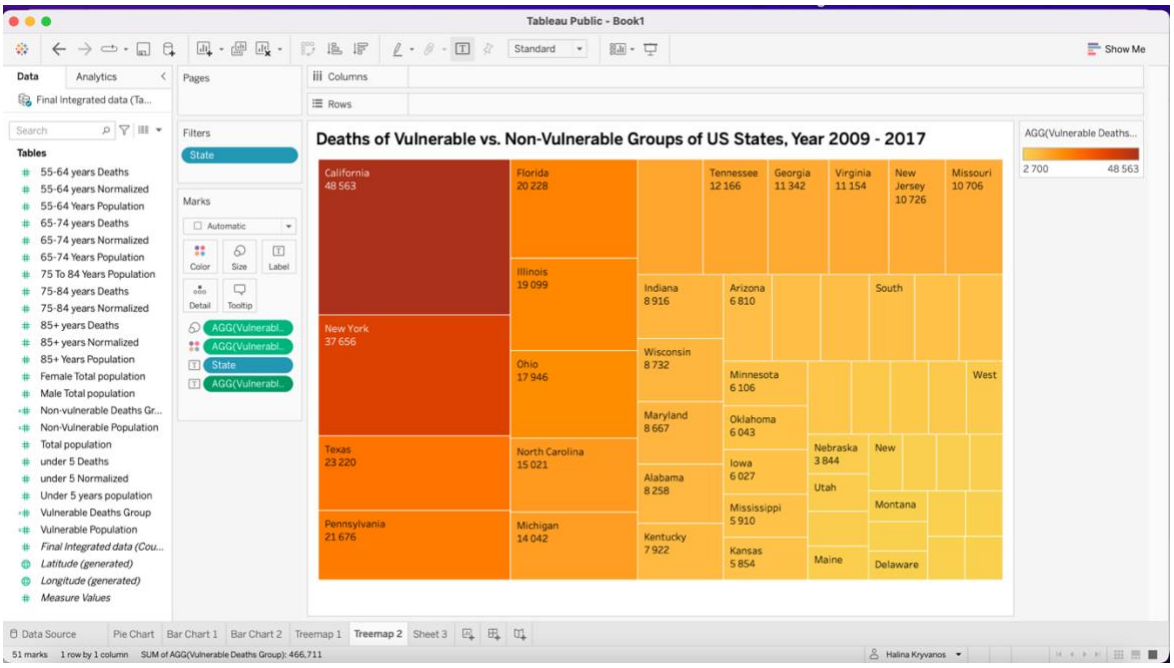
Link:
https://public.tableau.com/authoring/PreparingforInfluenzaSeason_16599860750060/BarChart2#1

3. Turn the bar chart you created in step 2 into a treemap.

Use the visualization style guide you created in Exercise 2.2: Visual Design Basics & Tableau to design the visualization.
Add a screenshot of your treemap to the Word document you used in steps 1 and 2



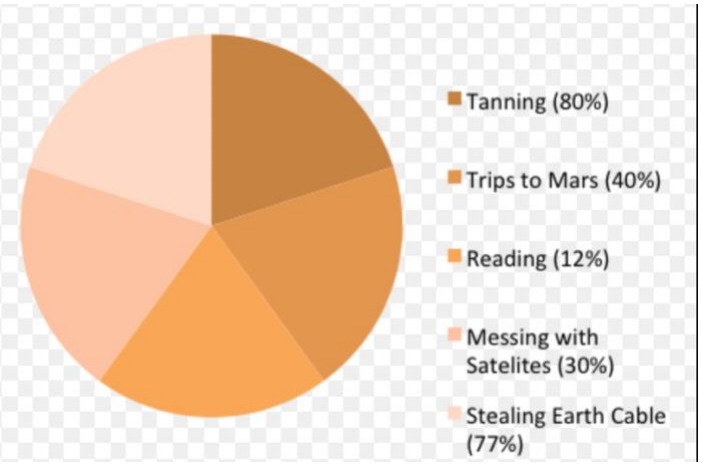
Link:
https://public.tableau.com/authoring/PreparingforInfluenzaSeason_16599860750060/Treemap1#1



Link:
https://public.tableau.com/authoring/PreparingforInfluenzaSeason_16599860750060/Treemap2#1

Bonus Task

Find a composition chart online and explain what works well and what doesn't work well in terms of how it communicates data. You can also use your visualization style guide to critique its visual presentation. Include your critique along with your submission for this task.



The chart shows the relative proportion of five leisure activities for teenagers (sunburn, flying to Mars, reading, fiddling with satellites, and stealing earth cable). Although each of the five pieces is about the same size (about 20% of the total), the percentage of teenagers involved in each activity varies greatly (tan: 80%, Mars flights: 40%, reading: 12%, mush). with satellites: 30%, theft of Earth cable: 77%). Therefore, there is a discrepancy between the labels and the actual share represented by each activity (in other words, if a read is 12% of the total, its slice must cover 12% of the area of the pie), making the representation inaccurate. Also, the labels for the five slices add up to 239% (not 100%). It is also very difficult to read this diagram because all the pieces have almost the same color.

Perhaps if we correct the original numbers and change the color of each piece of the pie, it will become more readable.