

PART 1: HISTOGRAMS

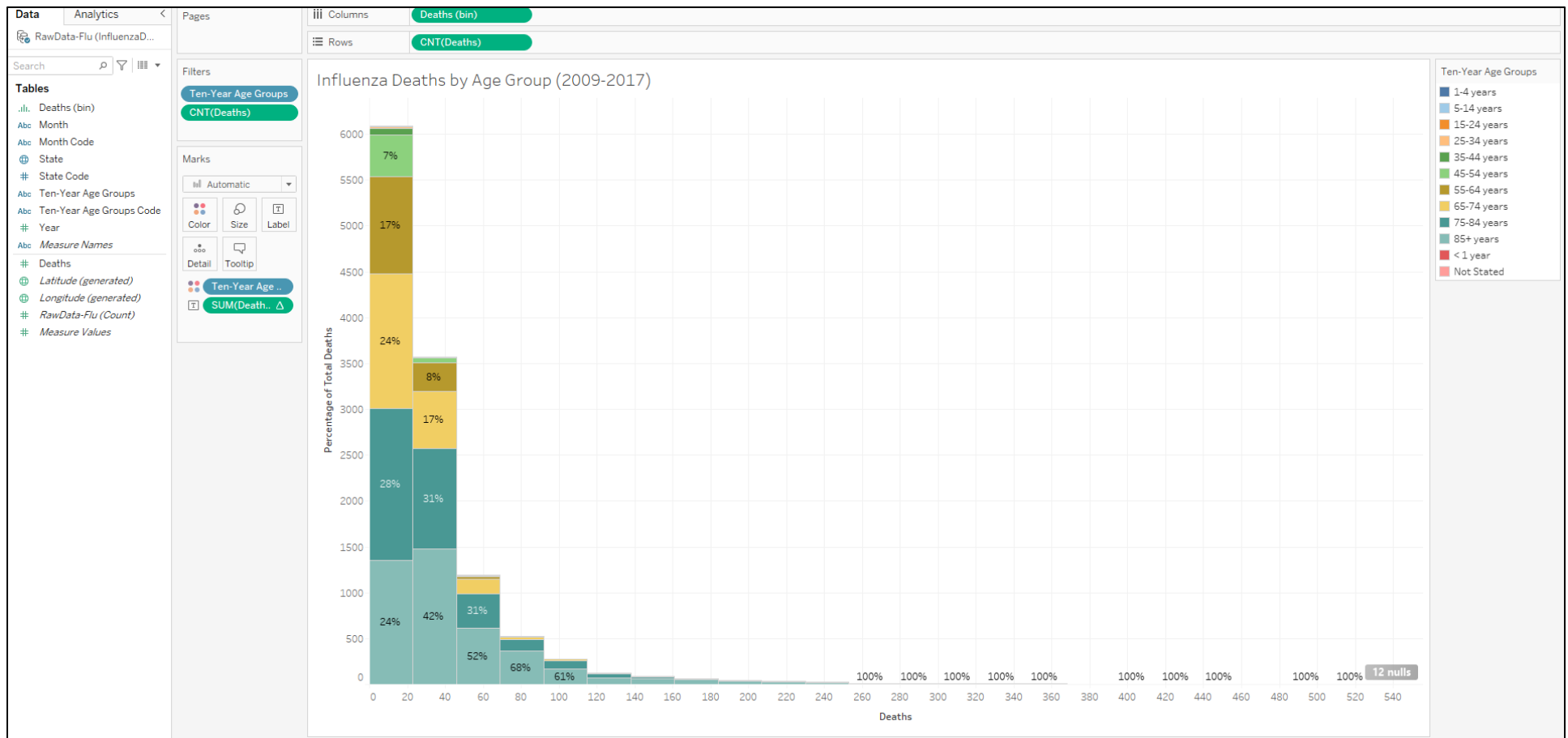


Tableau Public Link:

https://public.tableau.com/app/profile/mindy.duong/viz/DataImmersionTask2_5Histogram/Sheet1?publish=yes

Are young and old populations more vulnerable (because they have more deaths)?

There is a positive correlation between age and influenza death rates: as age increases, death rate increases. Those 65+ years old are at a higher risk of influenza deaths than those under 65.

Are there any age groups that have no deaths?

All age groups have death counts except for those under 4 years old; their death rates are suppressed for privacy. It should also be noted that those in the younger age groups (e.g., 5-14, 15-24, 25-34, 34-44) have significantly lower death rates than their older counterparts.

PART 2: BOX PLOT

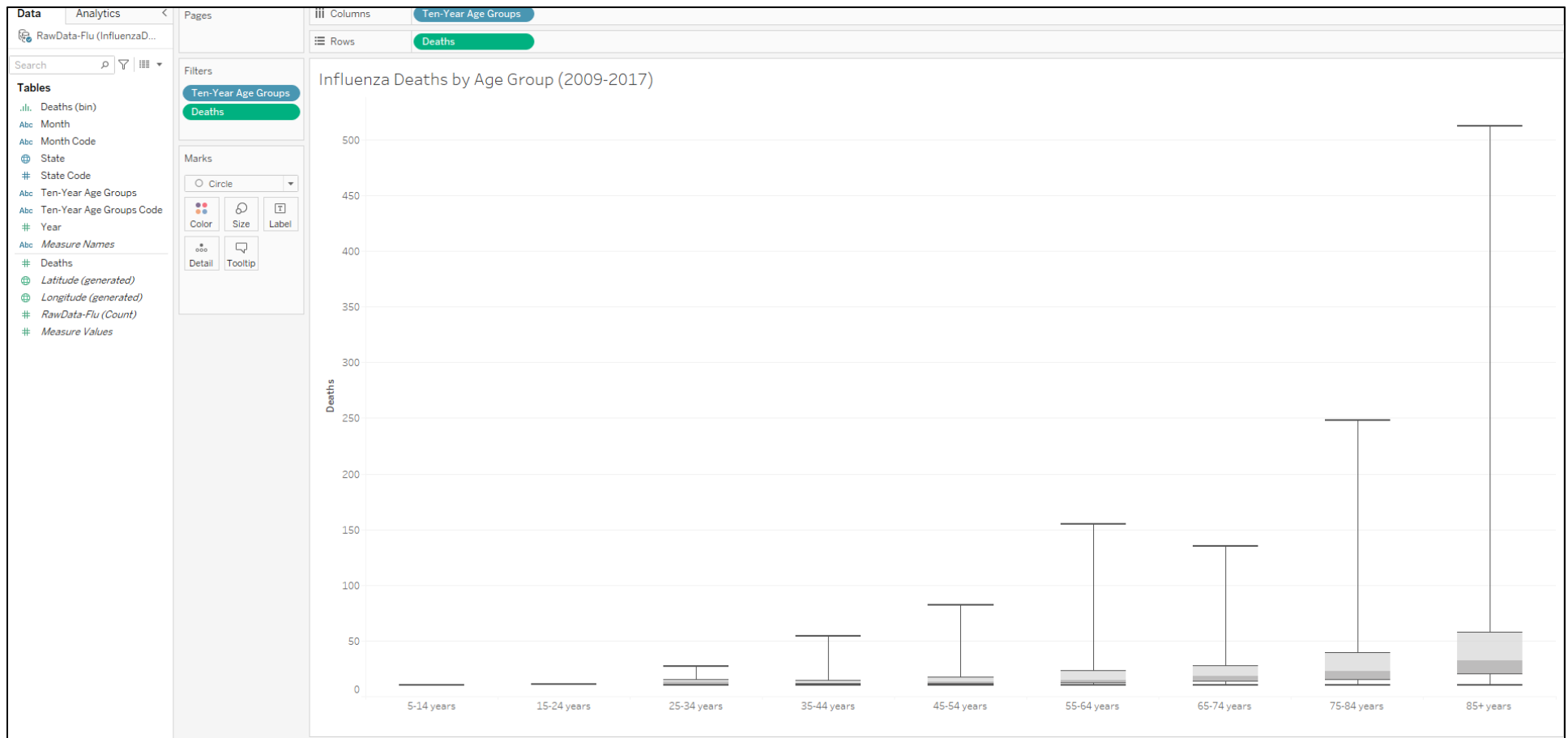


Tableau Public Link:

https://public.tableau.com/app/profile/mindy.duong/viz/DataImmersionTask2_5BoxPlot/BoxPlot?publish=yes

Explain what the box plot tells you that the histogram can't.

A box plot includes the minimum, maximum, median, and quartiles while a histogram doesn't. While we already established that those 65+ years are at a higher risk of influenza deaths with the histogram, the box plot gives us a clearer picture of that with its maximum point significantly higher for those 65+ years.

PART 3: CHECKLIST

Text	
Are the title and text descriptive enough?	Yes, it should be clear on what we are looking at with both visualizations.
Are there text labels?	Yes, there are text labels (percentages) on the histogram, but there are no labels on the box plot.
Does the text portray any redundant information that could be gotten rid of?	No, there are no redundant information.
Color	
What does the color scheme signify?	In the histogram, the colors signify the different age groups; there are no colors used in the box plot aside from the default grayscale colors.
Are there more than five colors?	Yes, there are more than five colors in the histogram, but only a few grayscale colors in the box plot.
Does the color scheme make sense? Are colors analogous, complementary, monochromatic, or intuitive?	For the histogram, they do, and they don't – they are randomized colors that represent the different age groups; there's no need for them to "match." For the box plot, the colors are the default grayscale colors, which are color-blind friendly.
If color is used to draw attention to important information, is the darkest color representing the most important information?	No, the colors aren't used to draw attention to any important information.
Other	
Are different sizes used? If so, is there meaning behind the sizes?	Not exactly -- for the histogram, the "box" sizes are different based on the category (e.g., there are more deaths in the 65+ categories), but that's just a given; same with the box plot. The sizes aren't at the forefront of the visualization like they would be with a bubble chart.
Are there groupings in the data that can be portrayed through color, size, or position?	Yes, the age groups are portrayed through color in the histogram. In the box plot, the age groups are positioned youngest to oldest excluding those with null values (e.g., those under 5 years old).
Is there (enough) whitespace?	Honestly, there's too much white space, but it shows the requested visualization.
Is the visualization accessible?	Yes, both should be color-blind friendly/accessible.
Does the visualization teach you something?	Yes, it reinforces the hypothesis of those 65+ years are at a higher risk than those younger than 65.
My Additional Questions from Last Task	
Is there a link to the source of the data for more information?	No, I did not include it in this visualization.
Is it interactive, and is the interaction beneficial or arbitrary?	Yes, you can hover over each category to focus on it; I don't think it's necessarily beneficial or arbitrary since this is just the default interaction, plus there's not that much on either visualizations.
Does the visualization serve its purpose?	Yes, it's reinforcing the hypothesis that those 65+ years and older are indeed at a higher risk for influenza deaths.

Do the graph, chart, maps, and/or pictures add value to the visualization, or are they distracting?

No, I didn't add any additional pictures or maps this time, so there shouldn't be any distractions.