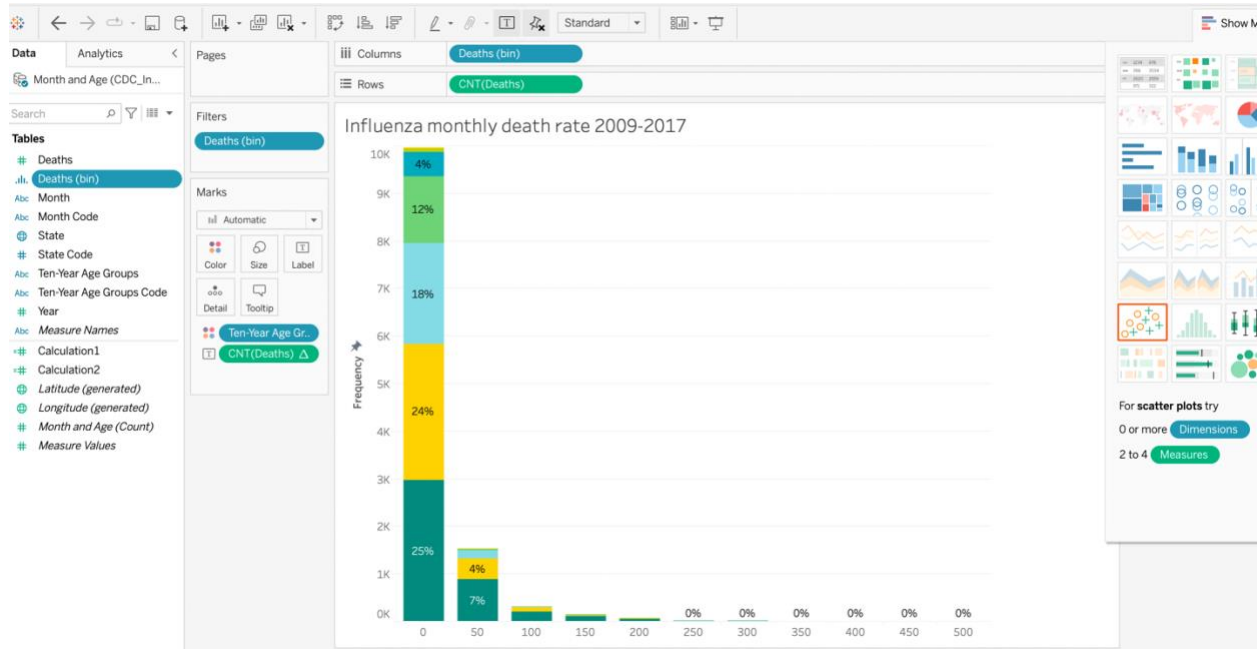# Exercise 2.5 Statistical Visualization

1. Histogram of influenza deaths by age.

   Older populations are older because they have a higher death rate.

   o Infants (until 1 year) have no death counts, because this was Suppressed/null

2. Create a box and whisker of influenza death by age.

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

The box plots tells me that breakdown of age groups of influenzas deaths, in which the histogram was not able to give me the breakdown.

Checklist

Text

- Are the title and text descriptive enough? (i.e., do you understand what the visualization is trying to convey just by looking at the title and text?) **YES**
- Are there text labels? **YES**
- Does the text portray any redundant information that could be gotten rid of? **No**
- Do colors, shapes, and size scales come with legends? **YES**

Color

- What does the color scheme signify? **Color schemes signifies a difference in variables and made them tertiary in order to distinguish the age (for histogram)**
- Are there more than five colors? **No**
- Does the color scheme make sense? Are colors analogous, complementary, monochromatic, or intuitive? **Yes**
- If color is used to draw attention to important information, is the darkest color representing the most important information? **Yes, difference age groups.**

Other

- Are different sizes used? If so, is there meaning behind the sizes? **Yes, the proportions are more bold in color and stand out.**
- Are there groupings in the data that can be portrayed through color, size, or position? **Yes, the age groups.**
- Is there (enough) whitespace? **Yes**
- Is the visualization accessible? **Yes, the colors are and the box and whisker is monochromatic for the people are that color blinded.**
- Does the visualization teach you something? **Yes, that it's best to use a box and whisker if we want a breakdown of a specific variable or value.**