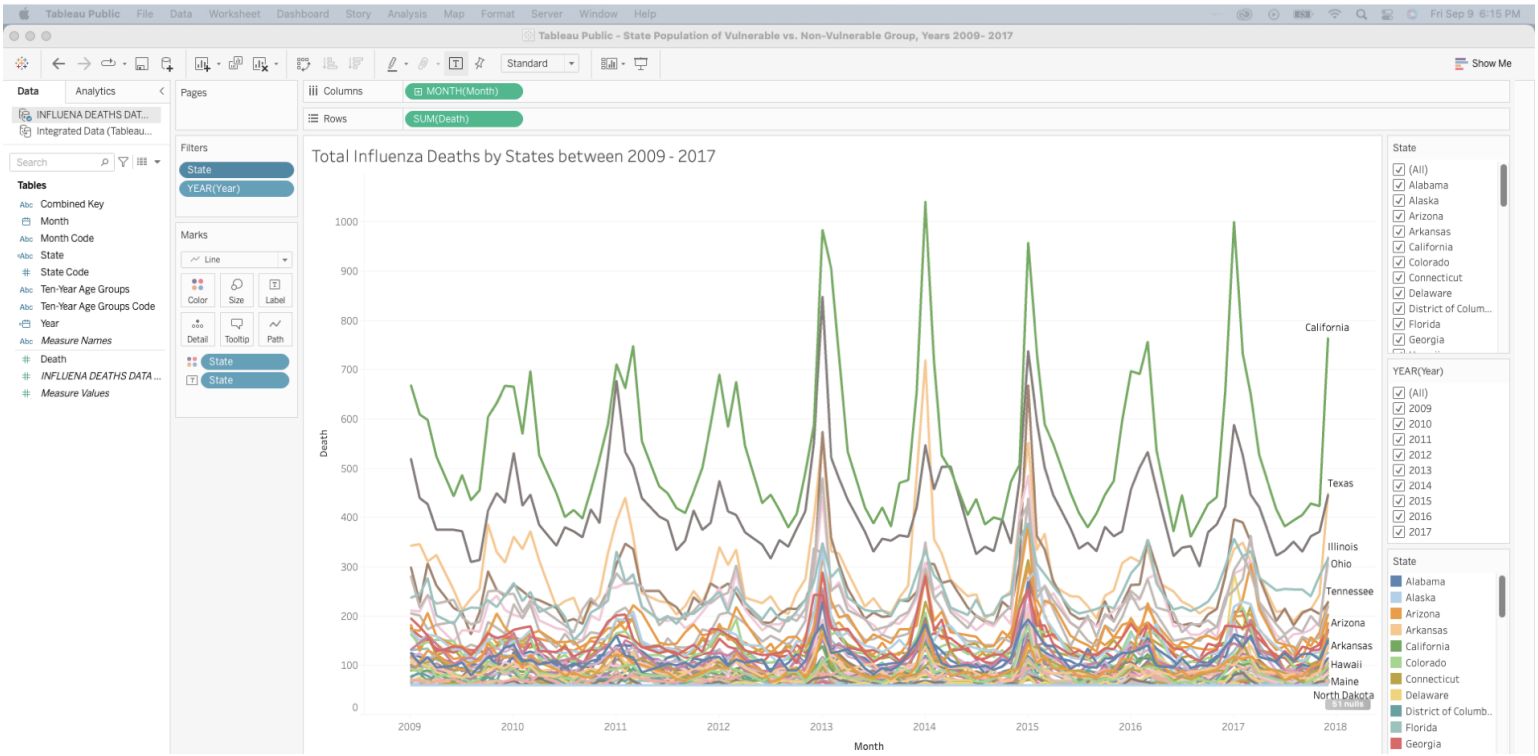
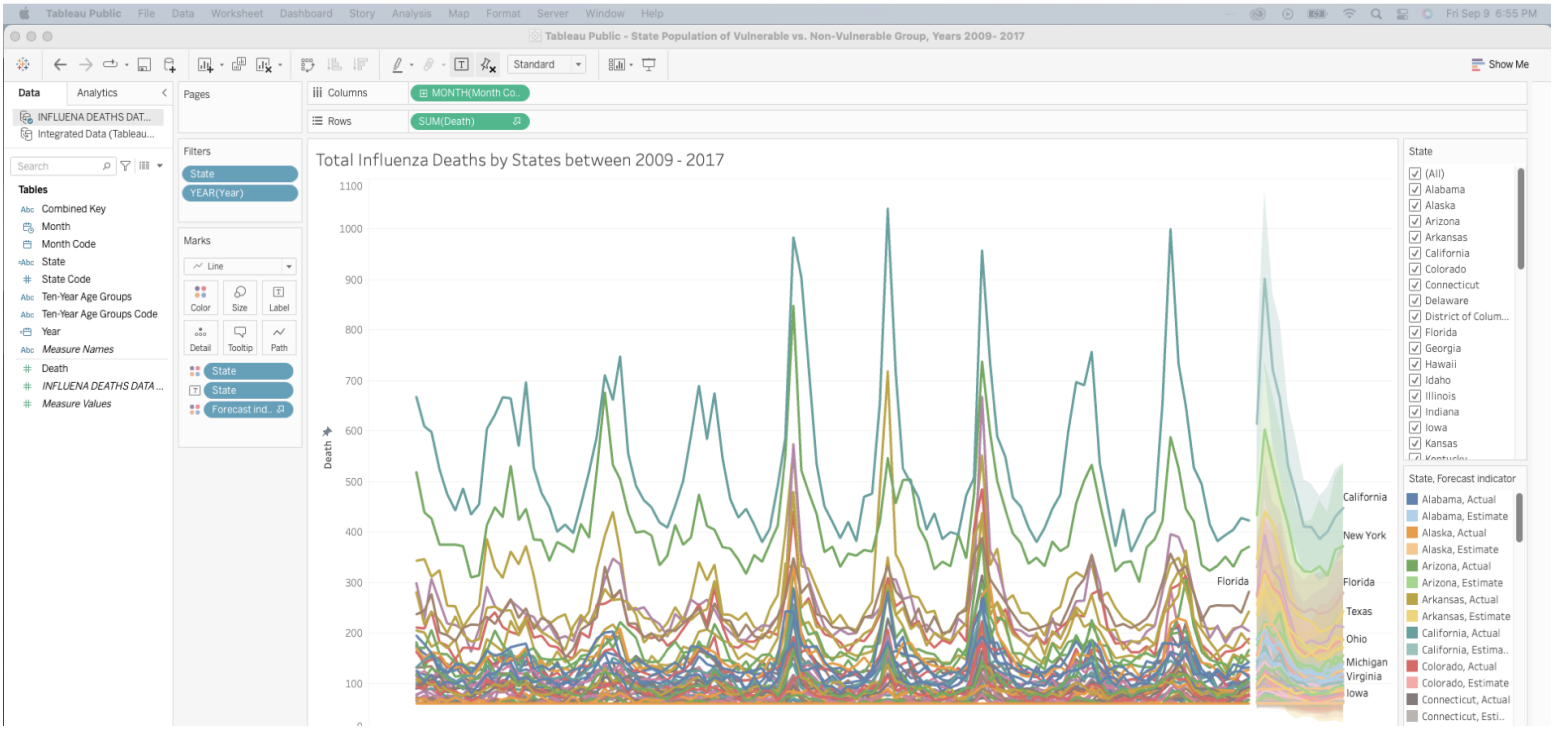
2.4 Temporal Visualizations and Forecasting

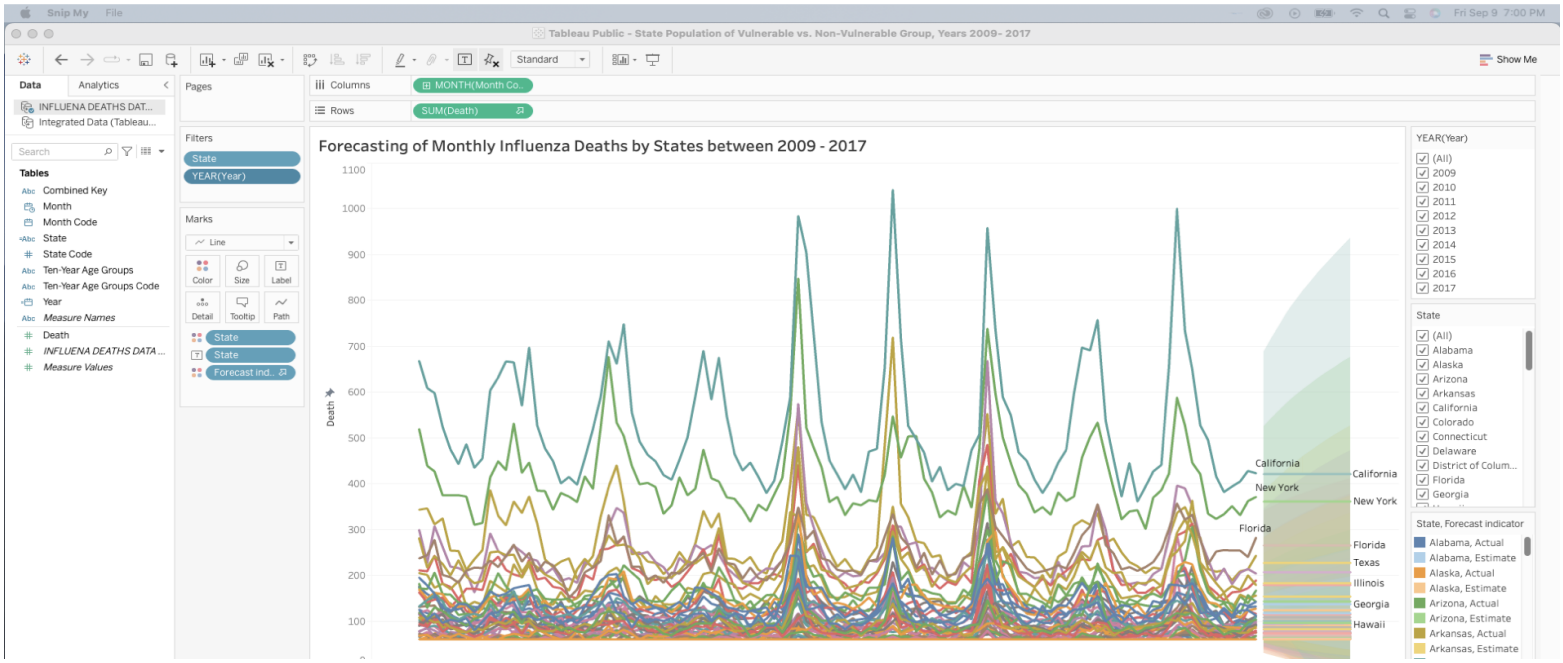
1. Create a line chart of influenza deaths
    a. X-axis will be Months
    b. Total Influenza Deaths will be on the y-axis



2. Create a forecast for the future month(s) or year(s).



a. Forecasting without seasonality shows a straight line which is misleading based on historical data.



3. Update the visualization using the style guide checklist you created in Exercise 2.2

- 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, title is clear and descriptive
  - 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?
    - The colors signify death rate based on each state
  - Are there more than five colors?
    - Yes
  - Does the color scheme make sense? Are colors analogous, complementary, monochromatic, or intuitive?
    - Yes it makes sense as there are so many. The actual and forecast colors for each state are monochromatic which makes it easy to distinguish.
  - If color is used to draw attention to important information, is the darkest color representing the most important information?

        - Yes, the actual death line for each state is darker than the lighter line for the forecasted death.
    - Do the color schemes contribute to any bias in the viewer?
        - No
- Other
    - Are different sizes used? If so, is there meaning behind the sizes?
        - No
    - Are there groupings in the data that can be portrayed through color, size, or position?
        - No, the goal is to understand each states need, so grouping would not give enough detail for staffing needs
    - Is there (enough) whitespace?
        - yes
    - Is the visualization accessible?
        - Yes
    - Does the visualization teach you something?
        - Yes, we can interpret some key findings from this visual such as states with the highest death rates which can help with forecasting staffing needs.