Task 2.1

2a. What question(s) or project goal(s) relate to this spatial aspect? Did you address any of them in your previous analysis?

1. Which states have the highest number of vulnerable people in their population?
2. How quickly does influenza spread within each state’s population?
3. When does flu season begin and how long does it last in each state?
4. Is the flu season harsher in states with colder climates?
5. Which states have the highest number of influenza vaccinations?

In the previous achievement, I investigated if vulnerable populations had a higher mortality rate than non-vulnerable populations. I found that vulnerable populations do in fact have higher mortality rates than people who in nonvulnerable populations. I used data based on state and population in the analysis in the previous achievement.

2b. List at least one way in which visualizing the data by states might help.

Visualizing the data will help me get a bigger picture of how to appropriately send medical staff to the states with the most at risk populations. I am hoping visualizing the data will also address other factors I have not investigated such as which states have the highest vaccination rates, and if certain states have a higher spread of influenza than others.

2c. What would you be visualizing (or comparing) across each state?

I would be visualizing a comparison between states that have higher death rates and how many hospitalizations are due to influenza so medical staff can be sent to these states appropriately for the upcoming flu season.

3. Identify any other questions you had from the previous Achievement that weren’t answered by your analysis and discuss how visualizations may assist you in answering them.

* Which states historically have the biggest shortage of medical staff?
* Is there a way to visualize the spread of influenza in each state even if their populations vary substantially?
* What is the vaccination rate of each state with the highest number of influenza related deaths?
* When does flu season start and end for each state? This could be helpful to have visualized in case there are gaps in different states when their flu seasons start and end. If it turns out there are substantial gaps in these dates, medical staff could be more diligently sent out to states in their peak flu season.