

#### **A4: Common Analysis**

The Analysis helped me to find out scenario of the DuPage County in Illinois City which has population of 932877. This analysis helped me to find out the different scenarios of the county like where mask is made mandatory and where mask was not required, what was the effect of mask on the increasing number of cases.

The analysis was carried out for a period of time ie from February 1, 2020 through October 15, 2021.

The following points I found from the Visualization:

1. The areas where mask was needed the daily increase in count was much higher than places, where the daily count was less.
2. There is graph "viz\_mask\_mandate.png" in which we see the daily cases number is high in 2021 Jan where the mask on is highly recommended
3. For the same graph at the end of 2021-09 the count has reduced and mask mandatory not required
4. Before Mask Mandate scenario the cases were high in 2020-11 to 2021-01

For this assignment slack was much useful, the comments posted by both the peers and TA helped me save time and also use the raw\_us confirmed cases csv. Initially I thought of using the Convienet\_data\_set for the process, but later on seeing comments I found using Raw\_us\_confirmed cases. Also, I saw people posting multiple approaches to find the daily cases from the cumulative cases was helpful. The collaborative assignment is useful to check ourself and also learn new ideas to approach for a problem.

The Process:

Step1:

1. Cleaning the Data
2. Filter for the country we should perform the scenario (Illinois)
3. convert to Pandas DF

Step2:

Visualize the graph for the total confirmed cases using Raw\_us\_confirmed cases

Step3:

Merge data with the Mask\_mandate data and show the visualization.