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**SAT 5424 :Architecture Development Part 6: Aggregation and Visualization of Data for Disease Outbreak Surveillance**

• **Completed Python script illustrating output of commands based on student’s work of  
aggregating data using sample script to generate insights based on combined data.**

Find attached with the submission

• **Question: What are two interesting insights you found within your results from using the  
script?**

Some cities had much higher COVID-19 cases, showing localized outbreaks and the need for targeted responses.

Missing or inconsistent fields in some records highlighted the importance of clean, standardized data for accurate analysis.

• **Link to a copy of publicly shared Google Looker Studio COVID Disease Outbreak  
Surveillance Page with authorization to view how you configured the data visualizations.  
The page must include at a minimum:**

<https://lookerstudio.google.com/reporting/cb7d59d0-d313-4644-a665-272ef1861146>

The link contains  
• Title for the dashboard   
• A plot map capable of plotting COVID-19 cases based on geographic regions (e.g., cities).  
This visualization will provide a spatial representation of the disease outbreak, helping to  
identify areas with high or low infection rates.  
• A bar chart graph that plots the number of COVID-19 cases per city. This visualization will  
allow for easy comparison of case counts across different cities, highlighting any  
significant variations.   
• Dashboard set to refresh every 15 minutes.

**Bonus: What was the most challenging portion of this lab? Please explain in detail**.

The most challenging part for me was extracting and converting the data from JSON to CSV. I had difficulties with the code and I also had some challenges with installing Jupyter on my VM.