The background is a solid teal color. Scattered throughout are several stylized virus icons, each consisting of a dark grey circle with several thin grey lines radiating outwards, and a small orange dot nearby. A large, detailed syringe with a blue plunger and needle is positioned diagonally in the upper right. On the right side, three stylized human figures are enclosed within a large, light blue, semi-transparent circular bubble. The figures are a man in a white shirt and blue pants, a woman in an orange sweater and black pants, and another man in a blue shirt and tan pants. Each figure has a white heart on their chest. Small white plus signs are placed around the bubble. The title text is on the left side.

COVID19 TRENDS BY STATE

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PROJECT PROPOSAL

01

DATABASE OBJECTIVE

Utilize COVID dataset to be cleaned and processed via SQL then modeled in a high performing cluser such as SMU's ManeFrame (M2).

02

DATA SOURCE

Data will be aggregated and sourced from Our World in Health, state level 2020 presidential election results, and Twitter API, and possibly Google Trends.

BUSINESS OBJECTIVE

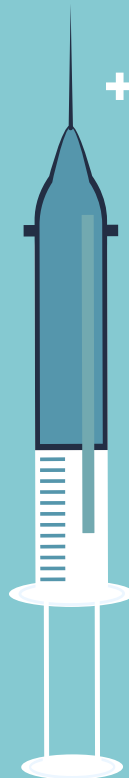
This analysis will explore overall COVID trends at the state level over time. Other questions of interest may be addressed depending on discoveries in exploratory data analysis

EXPECTED CONCLUSIONS

- Be able to compare compute time of simple descriptive analytics on SQL Workbench vs M2
- Provide descriptive tutorial of how to leverage and perform processing on M2

03

04



ADDITIONAL QUESTIONS OF INTEREST

- Is there a relationship of group think on **social media to vaccination rates** by state? Can we discover this through sentiment analysis of trending tweets by location?
- Is there a relationship of **vaccination rates to 2020 presidential election results** by state?
- Do either of Twitter trends or presidential election results impact the **change in rate of vaccination** by a state **over time**?

