Rev Covid Travel Planner (RCTP)

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**Project Theme:**

Corporate Pandemic Tracker for Travel Agencies

**Problem:**

With the confirmed numbers increasing in the states, it has been difficult for travel agencies to decide which areas they should host their events. With this app, we would like to answer the following questions for our users:

1. What are the top <X> locations in the US that we should consider hosting our event?
2. What areas should we avoid housing any events?
3. Which region (northern/southern/eastern/western) overall have the highest covid trend?

**Solution(What will the app entail):**

To answer the previous questions, we will use the queries below that will filter through the COVID-19 data gathered from (<https://www.kaggle.com/sudalairajkumar/novel-corona-virus-2019-dataset>)

Queries:

1. Which locations have a mortality rate above 4%?
   1. SELECT \* FROM <locations> WHERE deaths/confirmed < 0.04
2. What are the top <X> locations that have the least amount of confirmed numbers?
   1. SELECT \* FROM <locations> SORT BY confirmed ASC LIMIT X
3. Which locations have a recovery rate below 85%?
   1. SELECT \* FROM <locations> WHERE recovered/confirmed < 0.85
4. Which locations have the highest infection numbers at <TIME>?
   1. SELECT \* FROM <locations> WHERE time == <TIME> SORT BY confirmed DESC
5. What is the average infection rate per week for a given state?
6. Which states in the entire month of February had a rate of infection below 5%?
7. Is Easter holiday weekend safe for a given city?
8. In the year of 2021, was the infection rate percentage higher during the Spring or Summer months?
9. For a given state, over the entire time span, did the state have little to no infection surge of COVID-19?
10. Is it safer to live in a given region of the United States, with COVID-19?
11. What are the top <X> populated areas with the (lowest/highest) confirmed cases

**MVP:**

1. Implement encrypted login access.
   1. Different users: Basic (employees), Admin (For company leads)
2. Implement partitioning/bucketing
3. Implement CRUD operations
4. Find a trend
5. Allow for data to be saved in a form that is independent of the software
6. Incorporate Zeppelin
7. PowerPoint

**Stretch Goals:**

1. Incorporate global data. Opening our target areas to select non-US territories.