

Group 6

Segment One Planning Document

Team and Roles:

Danielle - Square

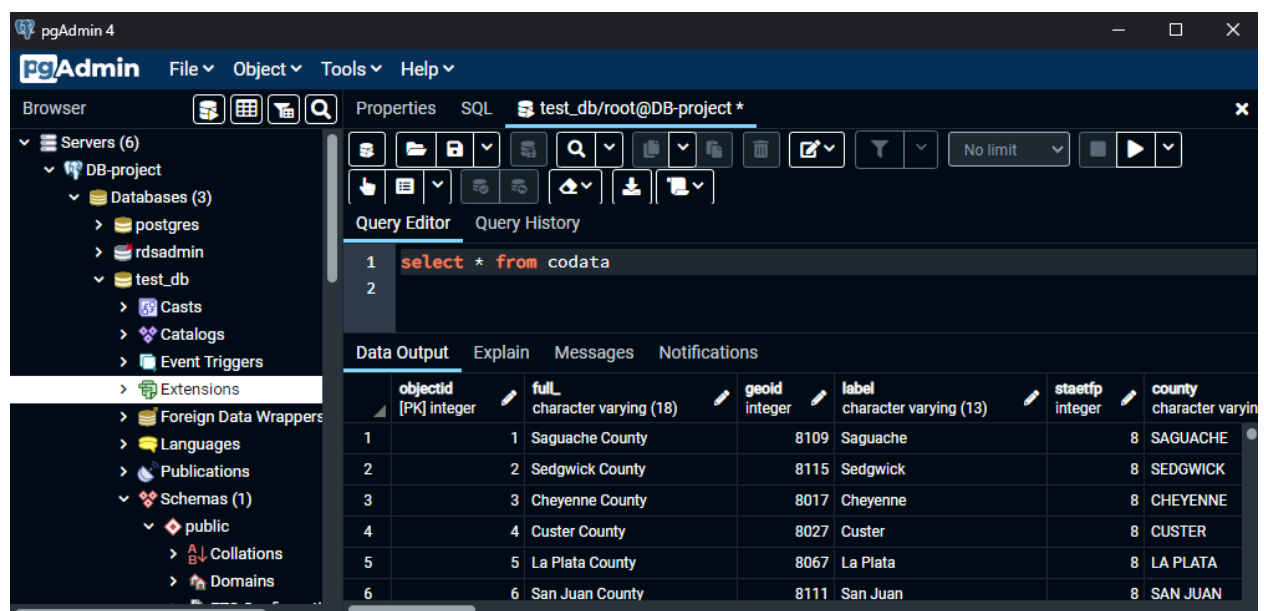
Adam - Circle

Jordan - X

Mike - Triangle

Deliverables for Segment One Mid-Week Check-In:

- Topic: COVID Infection Rates
 - COVID Vaccinations and Population Density's Impact on Infection Rates
- Data Sets (Where are we pulling our data):
 - From Adam's [CSV Pull](#)
- Mock Database:
 - Created AWS database for group collaboration
 - Image of table on from CSV data below
- Mock Machine Learning Structure:
 - Based on factors such as vaccination rate and population density, our model will predict whether an area is "Likely" or "Unlikely" experiencing an "elevated" COVID Infection Rate. We will use a support vector machine model to account for some outliers in the data while still separating the classifications into the distinctly binary categories of "likely" and "unlikely." "Elevated" infection rate will be a positivity rate above the State/Country/Regional average depending on the data source we ultimately use.
- Mock Database



The screenshot shows the pgAdmin 4 interface. The left sidebar displays a tree view of the database structure, including 'Servers (6)', 'DB-project', 'Databases (3)', 'postgres', 'rdsadmin', 'test_db', 'Casts', 'Catalogs', 'Event Triggers', 'Extensions', 'Foreign Data Wrappers', 'Languages', 'Publications', 'Schemas (1)', 'public', 'Collations', and 'Domains'. The main window shows the 'Query Editor' with the SQL query: `select * from codata`. The 'Data Output' tab is active, displaying a table with 6 rows and 7 columns: `objectid` [PK] integer, `full` character varying (18), `geoid` integer, `label` character varying (13), `staetfp` integer, and `county` character varying (13). The data is as follows:

objectid	full	geoid	label	staetfp	county
1	1 Saguache County	8109	Saguache	8	SAGUACHE
2	2 Sedgwick County	8115	Sedgwick	8	SEDGWICK
3	3 Cheyenne County	8017	Cheyenne	8	CHEYENNE
4	4 Custer County	8027	Custer	8	CUSTER
5	5 La Plata County	8067	La Plata	8	LA PLATA
6	6 San Juan County	8111	San Juan	8	SAN JUAN