

Final Project Milestone #4

CIS 9440 - Data Warehousing for Analytics

Final Project Milestone 4

Group Number - 19

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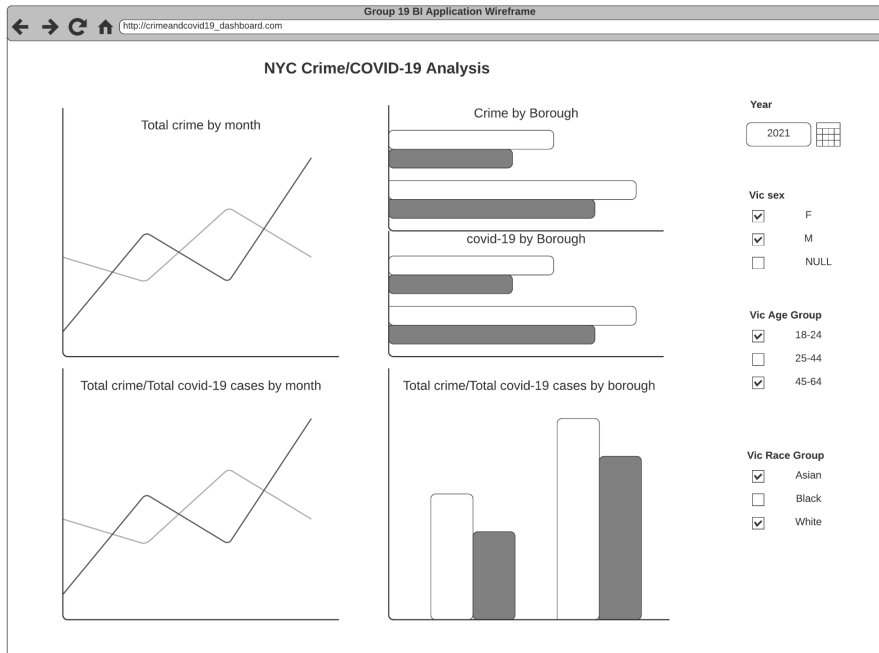
1) List your final set of 3-5 KPI's.

1. Numbers of crime grouped by month
2. Crime counts by borough
3. COVID-19 cases counts by borough
4. Total crime counts / Total COVID-19 cases by month
5. Total crime counts / Total COVID-19 cases by borough

2) Short description of Visualization that will be used for each KPI. Why will you use that type of visualization?

1. Line graph: It shows the month distribution of the number of crimes, which helps us figure out which months of the year are intended to have more crimes than other months.
2. Bar graph: It shows the area distribution of the number of crimes, which helps us figure out which borough of the city is intended to have more crimes than other boroughs.
3. Bar graph: It shows the area distribution of the number of covid-19 cases, which helps us figure out which borough of the city is intended to have more covid-19 cases than other boroughs.
4. Line graph: It shows the month distribution of the ratio of total crime counts divided by total COVID-19 case , which helps us understand the relationship between crime counts and number of covid-19 cases by month.
5. Bar graph: It shows the area distribution of the ratio of total crime counts divided by total COVID-19 case , which helps us understand the relationship between crime counts and number of covid-19 cases by borough.

3) Paste a picture of your BI Application Wireframe (hand drawn image, google draw, any other format).



- 4) Link to your Tableau Public dashboard. (ensure this link works!)

Link: https://public.tableau.com/profile/zack.chen#!/vizhome/crime_covid1_16205293248190/Dashboard1?publish=yes

- 5) Any notes for the professor about your visualization or template submission.

Below is the screenshot of the "Data Source" tab in Tableau after connecting Facts and Dimensions on BigQuery to Tableau.

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Connections Add

BigQuery

Google BigQuery

Billing Project

crime-covid

Project

crime-covid

Dataset

crime_covid_data

Table

date_dim

loc_dim

NYC_COV19_fact

NYPD_COMPL_fact

offence_dim

suspect_dim

victim_dim

New Custom SQL

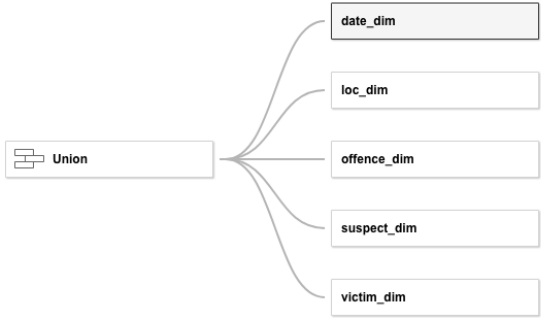
New Union

Use Legacy SQL

Union+ (crime_covid_data)

Connection
☒ Live ☐ Extract

Filters
0 [Add](#)



☒ Sort fields ☐ Data source order ☐ Show aliases ☐ Show hidden fields 477 rows

date_dim	#	#	#	date_dim
Date Id (Date Dim)	Day	Month	Year	Weekday
20200103	3	1	2020	Friday
20200110	10	1	2020	Friday
20200117	17	1	2020	Friday
20200124	24	1	2020	Friday
20200131	31	1	2020	Friday
20200207	7	2	2020	Friday