

TERM PROJECT - FINAL

October 2, 2024

1 Term Project

```
[261]: from sqlalchemy import create_engine
import pandas as pd
import sqlite3
import matplotlib.pyplot as plt
import matplotlib.ticker as ticker
```

1.0.1 SQL

```
[262]: # create database
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[263]: conn = sqlite3.connect('covid19.db')
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[264]: conn.close()
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[265]: # load datasets to database
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[266]: connection = 'sqlite:///Users/yuhang/Desktop/DSC540/term_project/covid19.db'
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[267]: engine = create_engine(connection)
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[268]: df_first1 = pd.read_csv('df_first1.csv')
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[269]: df_first1.to_sql('df_first1', con=engine, if_exists='replace', index=False)
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[270]: popu_data1 = pd.read_csv('popu_data1.csv')
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[271]: popu_data1.to_sql('popu_data1', con=engine, if_exists='replace', index=False)
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[272]: cases_df_selected_CA = pd.read_csv('cases_df_selected_CA.csv')
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[273]: cases_df_selected_CA.to_sql('cases_df_selected_CA', con=engine,
    ↪if_exists='replace', index=False)
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[274]: cases_df_selected_AZ = pd.read_csv('cases_df_selected_AZ.csv')
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[275]: cases_df_selected_AZ.to_sql('cases_df_selected_AZ', con=engine,
    ↳if_exists='replace', index=False)

[276]: cases_df_selected_ID = pd.read_csv('cases_df_selected_ID.csv')

[277]: cases_df_selected_ID.to_sql('cases_df_selected_ID', con=engine,
    ↳if_exists='replace', index=False)

[278]: cases_df_selected_MN = pd.read_csv('cases_df_selected_MN.csv')

[279]: cases_df_selected_MN.to_sql('cases_df_selected_MN', con=engine,
    ↳if_exists='replace', index=False)

[280]: cases_df_selected_SD = pd.read_csv('cases_df_selected_SD.csv')

[281]: cases_df_selected_SD.to_sql('cases_df_selected_SD', con=engine,
    ↳if_exists='replace', index=False)

[282]: cases_df_selected_MA = pd.read_csv('cases_df_selected_MA.csv')

[283]: cases_df_selected_MA.to_sql('cases_df_selected_MA', con=engine,
    ↳if_exists='replace', index=False)

[284]: stacked_df = pd.read_csv('stacked_df.csv')

[285]: stacked_df.to_sql('stacked_df', con=engine, if_exists='replace', index=False)

[286]: with sqlite3.connect("covid19.db") as conn:
    cursor = conn.cursor()
    rows = cursor.execute('SELECT * FROM stacked_df')
    for row in rows:
        print(row)

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```

```
[287]: # join datasets in sql
```

```
[288]: with sqlite3.connect("covid19.db") as conn:
        cursor = conn.cursor()
        cursor.execute("PRAGMA foreign_keys = 1")
        sql = """
        SELECT df_first1.*, popu_data1.* \
        FROM df_first1 \
        LEFT JOIN popu_data1 ON df_first1.Location = popu_data1.States \
        """
        df_joined = pd.read_sql_query(sql, conn)
        print(df_joined.head())
```

| | Date | Location | Distributed | Administered | Administered_0-18 \ |
|---|------------|----------|-------------|--------------|---------------------|
| 0 | 05/10/2023 | NE | 5481710 | 3822190 | 7441272.0 |
| 1 | 05/10/2023 | LA | 10282120 | 6961453 | 13742096.0 |
| 2 | 05/10/2023 | GA | 28727475 | 17124791 | 33591078.0 |
| 3 | 05/10/2023 | WY | 1281755 | 854132 | 1683191.0 |
| 4 | 05/10/2023 | CO | 17769135 | 13033446 | 25295803.0 |

| | Administered_18-65 | Administered_65Plus | Administered_Moderna | \ |
|---|--------------------|---------------------|----------------------|---|
| 0 | 3412154 | 1117112 | 1240872 | |
| 1 | 6443990 | 2090638 | 2685630 | |
| 2 | 15542310 | 4409764 | 6170654 | |
| 3 | 790769 | 284622 | 347522 | |
| 4 | 11614071 | 3172390 | 4490965 | |

| | Additional_Doses | Additional_Doses_0-18 | Additional_Doses_18-65 | \ |
|---|------------------|-----------------------|------------------------|---|
| 0 | 718168.0 | 1416182.0 | 664415.0 | |
| 1 | 1110217.0 | 2213857.0 | 1076600.0 | |
| 2 | 2705136.0 | 5369811.0 | 2567417.0 | |
| 3 | 145600.0 | 289567.0 | 139599.0 | |
| 4 | 2460212.0 | 4847736.0 | 2265625.0 | |

| | Additional_Doses_65Plus | Second_Booster | States | Zone | Population2020 |
|---|-------------------------|----------------|--------|-------------|----------------|
| 0 | 240367.0 | None | NE | US/Central | 1,961,504 |
| 1 | 450792.0 | None | LA | US/Central | 4,657,757 |
| 2 | 892658.0 | None | GA | US/Eastern | 10,711,908 |
| 3 | 62044.0 | None | WY | US/Mountain | 576,851 |
| 4 | 662890.0 | None | CO | US/Mountain | 5,773,714 |

```
[289]: df_joined.to_sql('df_joined', conn, if_exists='replace', index=False)
```

```
[290]: with sqlite3.connect("covid19.db") as conn:
        cursor = conn.cursor()
        cursor.execute("PRAGMA foreign_keys = 1")
        df_joined = pd.read_sql_query("SELECT * FROM df_joined", conn)
        stacked_df = pd.read_sql_query("SELECT * FROM stacked_df", conn)
```

```
[291]: df_joined['Date'] = pd.to_datetime(df_joined['Date']).dt.strftime('%Y-%m-%d')
        stacked_df['Date'] = pd.to_datetime(stacked_df['Date']).dt.strftime('%Y-%m-%d')
```

```
[292]: with sqlite3.connect("covid19.db") as conn:
        df_joined.to_sql('df_joined', conn, if_exists='replace', index=False)
        stacked_df.to_sql('stacked_df', conn, if_exists='replace', index=False)
```

```
[293]: with sqlite3.connect("covid19.db") as conn:
        cursor = conn.cursor()
        cursor.execute("PRAGMA foreign_keys = 1")
        sql1 = """
        SELECT df_joined.*, stacked_df.*
        FROM stacked_df
        INNER JOIN df_joined
        ON stacked_df.State = df_joined.States
        AND stacked_df.Date = df_joined.Date
        """
        df_joined1 = pd.read_sql_query(sql1, conn)
        print(df_joined1.tail())
```

| | Date | Location | Distributed | Administered | Administered_0-18 \ |
|------|------------|----------|-------------|--------------|---------------------|
| 3523 | 2023-02-08 | MA | 23037230 | 17991517 | 34897736.0 |
| 3524 | 2023-02-15 | MA | 23096880 | 18010421 | 34930205.0 |
| 3525 | 2023-02-22 | MA | 23152420 | 18024986 | 34955069.0 |
| 3526 | 2023-03-01 | MA | 23201200 | 18039745 | 34980283.0 |
| 3527 | 2023-03-08 | MA | 23268890 | 18052941 | 35002281.0 |

| | Administered_18-65 | Administered_65Plus | Administered_Moderna \ |
|------|--------------------|---------------------|------------------------|
| 3523 | 15979588 | 4518951 | 7127045 |
| 3524 | 15993570 | 4522507 | 7133858 |
| 3525 | 16004374 | 4525512 | 7139405 |
| 3526 | 16015071 | 4527957 | 7144761 |
| 3527 | 16024486 | 4530360 | 7149461 |

| | Additional_Doses | Additional_Doses_0-18 | Additional_Doses_18-65 \ |
|------|------------------|-----------------------|--------------------------|
| 3523 | 3279811.0 | 6461762.0 | 3010402.0 |
| 3524 | 3283473.0 | 6467740.0 | 3012530.0 |
| 3525 | 3286280.0 | 6472255.0 | 3014239.0 |
| 3526 | 3289271.0 | 6477076.0 | 3015976.0 |
| 3527 | 3291942.0 | 6481288.0 | 3017489.0 |

| | Additional_Doses_65Plus | Second_Booster | States | Zone \ |
|------|-------------------------|----------------|--------|------------|
| 3523 | 920320.0 | None | MA | US/Eastern |
| 3524 | 920762.0 | None | MA | US/Eastern |
| 3525 | 921148.0 | None | MA | US/Eastern |
| 3526 | 921464.0 | None | MA | US/Eastern |
| 3527 | 921782.0 | None | MA | US/Eastern |

| | Population2020 | Date | new_case_sums | State |
|------|----------------|------------|---------------|-------|
| 3523 | 7,029,917 | 2023-02-08 | 51 | MA |
| 3524 | 7,029,917 | 2023-02-15 | 34 | MA |
| 3525 | 7,029,917 | 2023-02-22 | 0 | MA |
| 3526 | 7,029,917 | 2023-03-01 | 0 | MA |
| 3527 | 7,029,917 | 2023-03-08 | 0 | MA |

```
[294]: df_joined1.to_sql('df_joined1', con=engine, if_exists='replace', index=False)
```

```
[295]: df_joined1
```

```
[295]:
```

| | Date | Location | Distributed | Administered | Administered_0-18 \ |
|------|------------|----------|-------------|--------------|---------------------|
| 0 | 2020-12-14 | CA | 33150 | 0 | 0.0 |
| 1 | 2020-12-15 | CA | 148200 | 0 | 0.0 |
| 2 | 2020-12-16 | CA | 195000 | 4 | 0.0 |
| 3 | 2020-12-17 | CA | 326625 | 273 | 0.0 |
| 4 | 2020-12-18 | CA | 326625 | 273 | 0.0 |
| ... | ... | ... | ... | ... | ... |
| 3523 | 2023-02-08 | MA | 23037230 | 17991517 | 34897736.0 |

| | | | | | |
|------|------------|----|----------|----------|------------|
| 3524 | 2023-02-15 | MA | 23096880 | 18010421 | 34930205.0 |
| 3525 | 2023-02-22 | MA | 23152420 | 18024986 | 34955069.0 |
| 3526 | 2023-03-01 | MA | 23201200 | 18039745 | 34980283.0 |
| 3527 | 2023-03-08 | MA | 23268890 | 18052941 | 35002281.0 |

| | Administered_18-65 | Administered_65Plus | Administered_Moderna | \ |
|------|--------------------|---------------------|----------------------|---|
| 0 | 0 | 0 | 0 | |
| 1 | 0 | 0 | 0 | |
| 2 | 0 | 0 | 0 | |
| 3 | 0 | 0 | 1 | |
| 4 | 0 | 0 | 1 | |
| ... | ... | ... | ... | |
| 3523 | 15979588 | 4518951 | 7127045 | |
| 3524 | 15993570 | 4522507 | 7133858 | |
| 3525 | 16004374 | 4525512 | 7139405 | |
| 3526 | 16015071 | 4527957 | 7144761 | |
| 3527 | 16024486 | 4530360 | 7149461 | |

| | Additional_Doses | Additional_Doses_0-18 | Additional_Doses_18-65 | \ |
|------|------------------|-----------------------|------------------------|---|
| 0 | NaN | NaN | 0.0 | |
| 1 | NaN | NaN | 0.0 | |
| 2 | NaN | NaN | 0.0 | |
| 3 | NaN | NaN | 0.0 | |
| 4 | NaN | NaN | 0.0 | |
| ... | ... | ... | ... | |
| 3523 | 3279811.0 | 6461762.0 | 3010402.0 | |
| 3524 | 3283473.0 | 6467740.0 | 3012530.0 | |
| 3525 | 3286280.0 | 6472255.0 | 3014239.0 | |
| 3526 | 3289271.0 | 6477076.0 | 3015976.0 | |
| 3527 | 3291942.0 | 6481288.0 | 3017489.0 | |

| | Additional_Doses_65Plus | Second_Booster | States | Zone | \ |
|------|-------------------------|----------------|--------|------------|---|
| 0 | 0.0 | None | CA | US/Pacific | |
| 1 | 0.0 | None | CA | US/Pacific | |
| 2 | 0.0 | None | CA | US/Pacific | |
| 3 | 0.0 | None | CA | US/Pacific | |
| 4 | 0.0 | None | CA | US/Pacific | |
| ... | ... | ... | ... | ... | |
| 3523 | 920320.0 | None | MA | US/Eastern | |
| 3524 | 920762.0 | None | MA | US/Eastern | |
| 3525 | 921148.0 | None | MA | US/Eastern | |
| 3526 | 921464.0 | None | MA | US/Eastern | |
| 3527 | 921782.0 | None | MA | US/Eastern | |

| | Population2020 | Date | new_case_sums | State |
|---|----------------|------------|---------------|-------|
| 0 | 39,538,223 | 2020-12-14 | 33360 | CA |
| 1 | 39,538,223 | 2020-12-15 | 55236 | CA |

| | | | | |
|------|------------|------------|-------|-----|
| 2 | 39,538,223 | 2020-12-16 | 56122 | CA |
| 3 | 39,538,223 | 2020-12-17 | 44433 | CA |
| 4 | 39,538,223 | 2020-12-18 | 45570 | CA |
| ... | ... | ... | ... | ... |
| 3523 | 7,029,917 | 2023-02-08 | 51 | MA |
| 3524 | 7,029,917 | 2023-02-15 | 34 | MA |
| 3525 | 7,029,917 | 2023-02-22 | 0 | MA |
| 3526 | 7,029,917 | 2023-03-01 | 0 | MA |
| 3527 | 7,029,917 | 2023-03-08 | 0 | MA |

[3528 rows x 19 columns]

[]:

1.0.2 Data Visualization

[297]: *# 1. bar chart - population in 6 states*

[298]: `popu_data1 = pd.read_csv('popu_data1.csv')`

[299]: `popu_data1`

[299]:

| | States | Zone | Population2020 |
|----|--------|-------------|----------------|
| 0 | CA | US/Pacific | 39,538,223 |
| 1 | TX | US/Central | 29,145,505 |
| 2 | FL | US/Eastern | 21,538,187 |
| 3 | NY | US/Eastern | 20,201,249 |
| 4 | PA | US/Eastern | 13,002,700 |
| 5 | IL | US/Central | 12,812,508 |
| 6 | OH | US/Eastern | 11,799,448 |
| 7 | GA | US/Eastern | 10,711,908 |
| 8 | NC | US/Eastern | 10,439,388 |
| 9 | MI | US/Eastern | 10,077,331 |
| 10 | NJ | US/Eastern | 9,288,994 |
| 11 | VA | US/Eastern | 8,631,393 |
| 12 | WA | US/Pacific | 7,705,281 |
| 13 | AZ | US/Mountain | 7,151,502 |
| 14 | TN | US/Central | 6,910,840 |
| 15 | MA | US/Eastern | 7,029,917 |
| 16 | IN | US/Eastern | 6,785,528 |
| 17 | MO | US/Central | 6,154,913 |
| 18 | MD | US/Eastern | 6,177,224 |
| 19 | WI | US/Central | 5,893,718 |
| 20 | CO | US/Mountain | 5,773,714 |
| 21 | MN | US/Central | 5,706,494 |
| 22 | SC | US/Eastern | 5,118,425 |
| 23 | AL | US/Central | 5,024,279 |

| | | | |
|----|----|---------------------|-----------|
| 24 | LA | US/Central | 4,657,757 |
| 25 | KY | US/Eastern | 4,505,836 |
| 26 | OR | US/Pacific | 4,237,256 |
| 27 | OK | US/Central | 3,959,353 |
| 28 | CT | US/Eastern | 3,605,944 |
| 29 | UT | US/Mountain | 3,271,616 |
| 30 | IA | US/Central | 3,190,369 |
| 31 | PR | America/Puerto_Rico | 3,285,874 |
| 32 | NV | US/Pacific | 3,104,614 |
| 33 | AR | US/Central | 3,011,524 |
| 34 | KS | US/Central | 2,937,880 |
| 35 | MS | US/Central | 2,961,279 |
| 36 | NM | US/Mountain | 2,117,522 |
| 37 | NE | US/Central | 1,961,504 |
| 38 | ID | US/Mountain | 1,839,106 |
| 39 | WV | US/Eastern | 1,793,716 |
| 40 | HI | US/Hawaii | 1,455,271 |
| 41 | NH | US/Eastern | 1,377,529 |
| 42 | ME | US/Eastern | 1,362,359 |
| 43 | MT | US/Mountain | 1,084,225 |
| 44 | RI | US/Eastern | 1,097,379 |
| 45 | DE | US/Eastern | 989,948 |
| 46 | SD | US/Central | 886,667 |
| 47 | ND | US/Central | 779,094 |
| 48 | AK | US/Alaska | 733,391 |
| 49 | DC | US/Eastern | 689,545 |
| 50 | VT | US/Eastern | 643,077 |
| 51 | WY | US/Mountain | 576,851 |
| 52 | GU | Pacific/Guam | 153,836 |
| 53 | VI | America/Virgin | 87,146 |
| 54 | AS | US/Samoa | 49,710 |
| 55 | MP | Pacific/Guam | 47,329 |

```
[300]: states_to_select = ['CA', 'AZ', 'ID', 'MN', 'SD', 'MA']
```

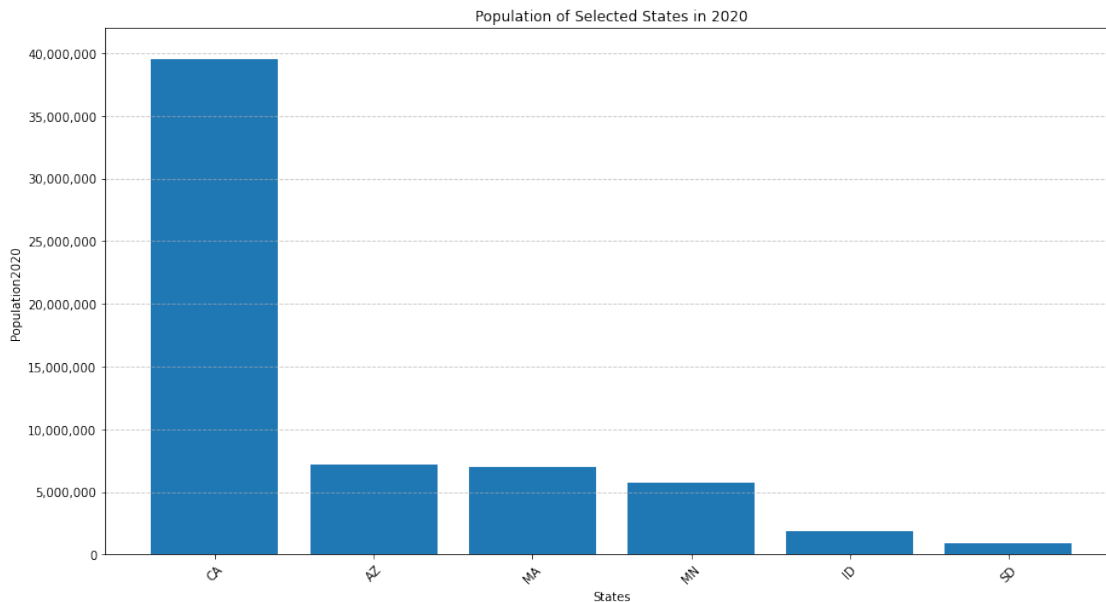
```
[301]: popu_filtered = popu_data1[popu_data1['States'].isin(states_to_select)]
```

```
[302]: popu_filtered
```

```
[302]:
```

| | States | Zone | Population2020 |
|----|--------|-------------|----------------|
| 0 | CA | US/Pacific | 39,538,223 |
| 13 | AZ | US/Mountain | 7,151,502 |
| 15 | MA | US/Eastern | 7,029,917 |
| 21 | MN | US/Central | 5,706,494 |
| 38 | ID | US/Mountain | 1,839,106 |
| 46 | SD | US/Central | 886,667 |

```
[364]: plt.figure(figsize=(15, 8))
#popu_filtered['Population2020'] = popu_filtered['Population2020'].str.
#replace(',', ' ').astype(int)
plt.bar(popu_filtered['States'], popu_filtered['Population2020'])
plt.xlabel('States')
plt.ylabel('Population2020')
plt.title('Population of Selected States in 2020')
plt.xticks(rotation=45)
plt.ylim(0, 42000000)
plt.gca().yaxis.set_major_formatter(ticker.FuncFormatter(lambda x, pos: '{:,}{}'.format(x), 0f)))
plt.grid(axis='y', linestyle='--', alpha=0.7)
#plt.yticks(range(500000, 45000001, 1000000))
plt.show()
```



```
[335]: # 2. line chart - AZ new cases
```

```
[319]: df_T = df_joined1.T
```

```
[320]: df_T = df_T[~df_T.index.duplicated(keep='first')]
```

```
[321]: df_joined1 = df_T.T
```

```
[347]: df_joined1.to_csv(r'/Users/yuhang/Desktop/DSC540/term_project/joined1.csv')
```

```
[322]: print(df_joined1)
```

| | Date | Location | Distributed | Administered | Administered_0-18 | \ |
|------|------------|----------|-------------|--------------|-------------------|---|
| 0 | 2020-12-14 | CA | 33150 | 0 | 0.0 | |
| 1 | 2020-12-15 | CA | 148200 | 0 | 0.0 | |
| 2 | 2020-12-16 | CA | 195000 | 4 | 0.0 | |
| 3 | 2020-12-17 | CA | 326625 | 273 | 0.0 | |
| 4 | 2020-12-18 | CA | 326625 | 273 | 0.0 | |
| ... | ... | ... | ... | ... | ... | |
| 3523 | 2023-02-08 | MA | 23037230 | 17991517 | 34897736.0 | |
| 3524 | 2023-02-15 | MA | 23096880 | 18010421 | 34930205.0 | |
| 3525 | 2023-02-22 | MA | 23152420 | 18024986 | 34955069.0 | |
| 3526 | 2023-03-01 | MA | 23201200 | 18039745 | 34980283.0 | |
| 3527 | 2023-03-08 | MA | 23268890 | 18052941 | 35002281.0 | |

| | Administered_18-65 | Administered_65Plus | Administered_Moderna | \ |
|------|--------------------|---------------------|----------------------|---|
| 0 | 0 | 0 | 0 | |
| 1 | 0 | 0 | 0 | |
| 2 | 0 | 0 | 0 | |
| 3 | 0 | 0 | 1 | |
| 4 | 0 | 0 | 1 | |
| ... | ... | ... | ... | |
| 3523 | 15979588 | 4518951 | 7127045 | |
| 3524 | 15993570 | 4522507 | 7133858 | |
| 3525 | 16004374 | 4525512 | 7139405 | |
| 3526 | 16015071 | 4527957 | 7144761 | |
| 3527 | 16024486 | 4530360 | 7149461 | |

| | Additional_Doses | Additional_Doses_0-18 | Additional_Doses_18-65 | \ |
|------|------------------|-----------------------|------------------------|---|
| 0 | NaN | NaN | 0.0 | |
| 1 | NaN | NaN | 0.0 | |
| 2 | NaN | NaN | 0.0 | |
| 3 | NaN | NaN | 0.0 | |
| 4 | NaN | NaN | 0.0 | |
| ... | ... | ... | ... | |
| 3523 | 3279811.0 | 6461762.0 | 3010402.0 | |
| 3524 | 3283473.0 | 6467740.0 | 3012530.0 | |
| 3525 | 3286280.0 | 6472255.0 | 3014239.0 | |
| 3526 | 3289271.0 | 6477076.0 | 3015976.0 | |
| 3527 | 3291942.0 | 6481288.0 | 3017489.0 | |

| | Additional_Doses_65Plus | Second_Booster | States | Zone | Population2020 | \ |
|------|-------------------------|----------------|--------|------------|----------------|---|
| 0 | 0.0 | None | CA | US/Pacific | 39,538,223 | |
| 1 | 0.0 | None | CA | US/Pacific | 39,538,223 | |
| 2 | 0.0 | None | CA | US/Pacific | 39,538,223 | |
| 3 | 0.0 | None | CA | US/Pacific | 39,538,223 | |
| 4 | 0.0 | None | CA | US/Pacific | 39,538,223 | |
| ... | ... | ... | ... | ... | ... | |
| 3523 | 920320.0 | None | MA | US/Eastern | 7,029,917 | |
| 3524 | 920762.0 | None | MA | US/Eastern | 7,029,917 | |

| | | | | | |
|------|----------|------|----|------------|-----------|
| 3525 | 921148.0 | None | MA | US/Eastern | 7,029,917 |
| 3526 | 921464.0 | None | MA | US/Eastern | 7,029,917 |
| 3527 | 921782.0 | None | MA | US/Eastern | 7,029,917 |

| | new_case_sums | State |
|------|---------------|-------|
| 0 | 33360 | CA |
| 1 | 55236 | CA |
| 2 | 56122 | CA |
| 3 | 44433 | CA |
| 4 | 45570 | CA |
| ... | ... | ... |
| 3523 | 51 | MA |
| 3524 | 34 | MA |
| 3525 | 0 | MA |
| 3526 | 0 | MA |
| 3527 | 0 | MA |

[3528 rows x 18 columns]

```
[348]: AZ_df = df_joined1[(df_joined1['States'] == 'AZ')]
print(AZ_df)
AZ_df.to_csv(r'/Users/yuhang/Desktop/DSC540/term_project/AZ_joined1.csv')
```

| | Date | Location | Distributed | Administered | Administered_0-18 | \ |
|------|------------|----------|-------------|--------------|-------------------|---|
| 588 | 2020-12-14 | AZ | 21450 | 0 | 0.0 | |
| 589 | 2020-12-15 | AZ | 58500 | 0 | 0.0 | |
| 590 | 2020-12-16 | AZ | 58500 | 0 | 0.0 | |
| 591 | 2020-12-17 | AZ | 58500 | 3 | 0.0 | |
| 592 | 2020-12-18 | AZ | 58500 | 3 | 0.0 | |
| ... | ... | ... | ... | ... | ... | |
| 1171 | 2023-02-08 | AZ | 19400730 | 14449773 | 28224081.0 | |
| 1172 | 2023-02-15 | AZ | 19452760 | 14465675 | 28253428.0 | |
| 1173 | 2023-02-22 | AZ | 19497420 | 14514535 | 28347206.0 | |
| 1174 | 2023-03-01 | AZ | 19541930 | 14526275 | 28368480.0 | |
| 1175 | 2023-03-08 | AZ | 19577130 | 14538315 | 28390518.0 | |

| | Administered_18-65 | Administered_65Plus | Administered_Moderna | \ |
|------|--------------------|---------------------|----------------------|---|
| 588 | 0 | 0 | 0 | |
| 589 | 0 | 0 | 0 | |
| 590 | 0 | 0 | 0 | |
| 591 | 0 | 0 | 0 | |
| 592 | 0 | 0 | 0 | |
| ... | ... | ... | ... | |
| 1171 | 12907985 | 4399726 | 5568694 | |
| 1172 | 12920946 | 4403753 | 5573103 | |
| 1173 | 12962905 | 4419485 | 5589819 | |
| 1174 | 12971967 | 4422533 | 5593345 | |
| 1175 | 12981747 | 4425839 | 5596928 | |

| | Additional_Doses | Additional_Doses_0-18 | Additional_Doses_18-65 | \ |
|------|------------------|-----------------------|------------------------|---|
| 588 | NaN | NaN | 0.0 | |
| 589 | NaN | NaN | 0.0 | |
| 590 | NaN | NaN | 0.0 | |
| 591 | NaN | NaN | 0.0 | |
| 592 | NaN | NaN | 0.0 | |
| ... | ... | ... | ... | |
| 1171 | 2394240.0 | 4742506.0 | 2235541.0 | |
| 1172 | 2397276.0 | 4748094.0 | 2237813.0 | |
| 1173 | 2400513.0 | 4754160.0 | 2240251.0 | |
| 1174 | 2402447.0 | 4757687.0 | 2241533.0 | |
| 1175 | 2404211.0 | 4760959.0 | 2242843.0 | |

| | Additional_Doses_65Plus | Second_Booster | States | Zone | \ |
|------|-------------------------|----------------|--------|-------------|---|
| 588 | 0.0 | None | AZ | US/Mountain | |
| 589 | 0.0 | None | AZ | US/Mountain | |
| 590 | 0.0 | None | AZ | US/Mountain | |
| 591 | 0.0 | None | AZ | US/Mountain | |
| 592 | 0.0 | None | AZ | US/Mountain | |
| ... | ... | ... | ... | ... | |
| 1171 | 853089.0 | None | AZ | US/Mountain | |
| 1172 | 853469.0 | None | AZ | US/Mountain | |
| 1173 | 854119.0 | None | AZ | US/Mountain | |
| 1174 | 854438.0 | None | AZ | US/Mountain | |
| 1175 | 854799.0 | None | AZ | US/Mountain | |

| | Population2020 | new_case_sums | State |
|------|----------------|---------------|-------|
| 588 | 7,151,502 | 1700 | AZ |
| 589 | 7,151,502 | 680 | AZ |
| 590 | 7,151,502 | 1530 | AZ |
| 591 | 7,151,502 | 952 | AZ |
| 592 | 7,151,502 | 1071 | AZ |
| ... | ... | ... | ... |
| 1171 | 7,151,502 | 51 | AZ |
| 1172 | 7,151,502 | 34 | AZ |
| 1173 | 7,151,502 | 0 | AZ |
| 1174 | 7,151,502 | 0 | AZ |
| 1175 | 7,151,502 | 0 | AZ |

[588 rows x 18 columns]

```
[349]: AZ_df['Date'] = pd.to_datetime(AZ_df['Date'])

# Create a line trend plot
plt.figure(figsize=(12, 8))
```

```
plt.plot(AZ_df['Date'], AZ_df['new_case_sums'], marker='o', linestyle='-', color='b')
plt.xlabel('Date')
plt.ylabel('New Case Sums')
plt.title('AZ New Case Sums Trend')
plt.grid(True)
plt.tight_layout()
```

/var/folders/6q/k8jdwbv174s78xj3x3kzvn0w0000gn/T/ipykernel_33428/456174564.py:1:

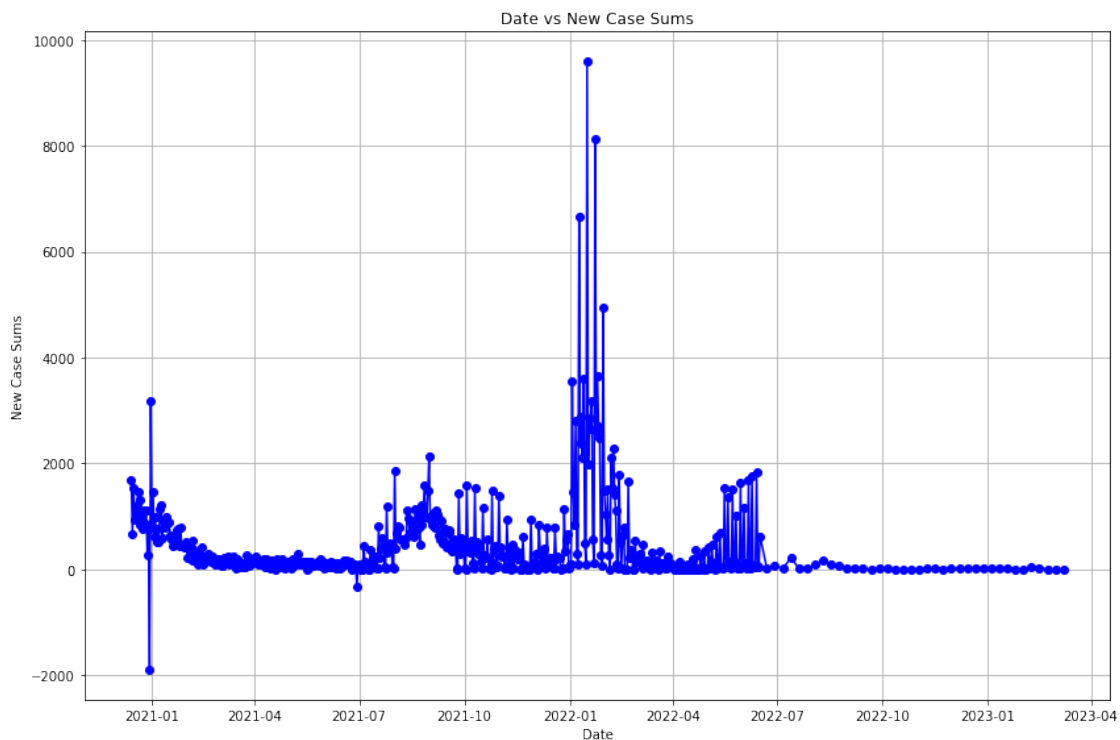
SettingWithCopyWarning:

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy

```
AZ_df['Date'] = pd.to_datetime(AZ_df['Date'])
```



```
[334]: # 3. scatter plot - ID
```

```
[350]: ID_df = df_joined1[(df_joined1['States'] == 'ID')]
print(ID_df)
ID_df.to_csv(r'/Users/yuhang/Desktop/DSC540/term_project/ID_joined1.csv')
```

Date Location Distributed Administered Administered_0-18 \

| | | | | | |
|------|------------|----|-------|---|-----|
| 1176 | 2020-12-14 | ID | 1950 | 0 | 0.0 |
| 1177 | 2020-12-15 | ID | 2925 | 0 | 0.0 |
| 1178 | 2020-12-16 | ID | 2925 | 0 | 0.0 |
| 1179 | 2020-12-17 | ID | 13650 | 0 | 0.0 |
| 1180 | 2020-12-18 | ID | 13650 | 0 | 0.0 |

| | | | | | |
|------|------------|-----|---------|---------|-----------|
| ... | ... | ... | ... | ... | ... |
| 1759 | 2023-02-08 | ID | 4637950 | 2863847 | 5625855.0 |
| 1760 | 2023-02-15 | ID | 4645980 | 2866310 | 5630460.0 |
| 1761 | 2023-02-22 | ID | 4655910 | 2868576 | 5634682.0 |
| 1762 | 2023-03-01 | ID | 4663090 | 2871087 | 5639400.0 |
| 1763 | 2023-03-08 | ID | 4671440 | 2873124 | 5643441.0 |

| | Administered_18-65 | Administered_65Plus | Administered_Moderna | \ |
|------|--------------------|---------------------|----------------------|---|
| 1176 | 0 | 0 | 0 | |
| 1177 | 0 | 0 | 0 | |
| 1178 | 0 | 0 | 0 | |
| 1179 | 0 | 0 | 0 | |
| 1180 | 0 | 0 | 0 | |

| | | | |
|------|---------|--------|---------|
| ... | ... | ... | ... |
| 1759 | 2618844 | 909701 | 1079074 |
| 1760 | 2620975 | 910376 | 1079992 |
| 1761 | 2622908 | 910989 | 1080762 |
| 1762 | 2625055 | 911746 | 1081521 |
| 1763 | 2627046 | 912386 | 1082195 |

| | Additional_Doses | Additional_Doses_0-18 | Additional_Doses_18-65 | \ |
|------|------------------|-----------------------|------------------------|---|
| 1176 | NaN | NaN | 0.0 | |
| 1177 | NaN | NaN | 0.0 | |
| 1178 | NaN | NaN | 0.0 | |
| 1179 | NaN | NaN | 0.0 | |
| 1180 | NaN | NaN | 0.0 | |

| | | | |
|------|----------|----------|----------|
| ... | ... | ... | ... |
| 1759 | 489699.0 | 971766.0 | 463297.0 |
| 1760 | 490150.0 | 972611.0 | 463654.0 |
| 1761 | 490585.0 | 973435.0 | 463997.0 |
| 1762 | 490944.0 | 974109.0 | 464261.0 |
| 1763 | 491240.0 | 974698.0 | 464548.0 |

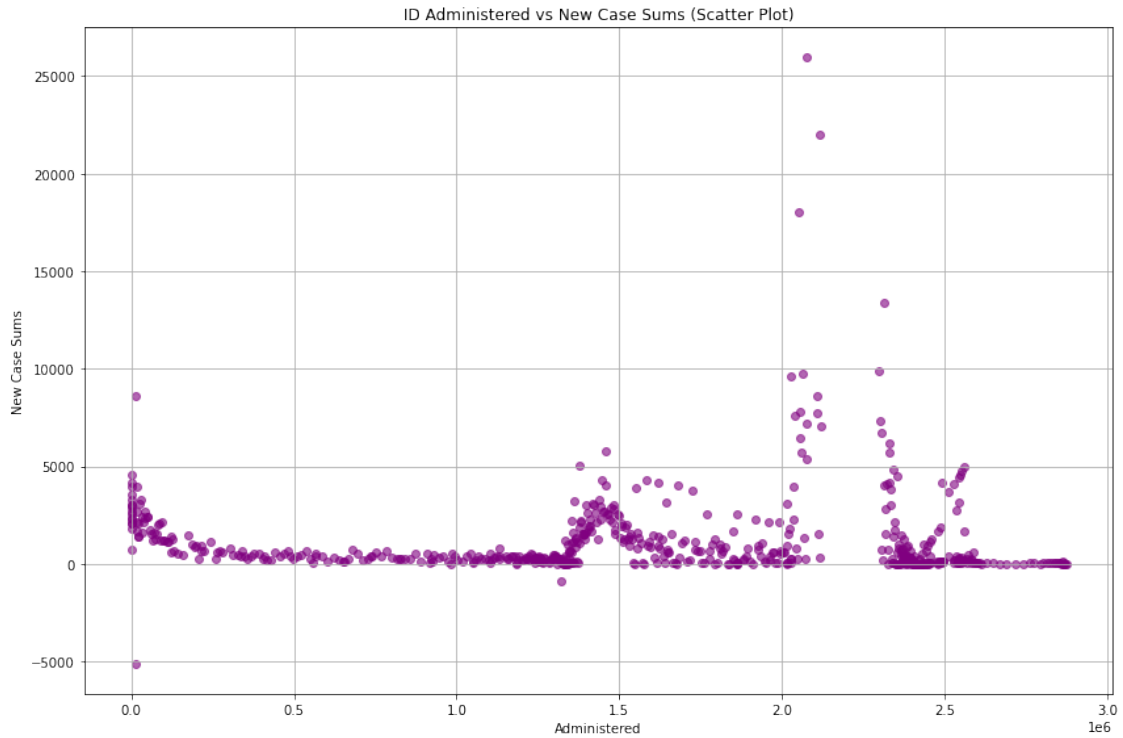
| | Additional_Doses_65Plus | Second_Booster | States | Zone | \ |
|------|-------------------------|----------------|--------|-------------|---|
| 1176 | 0.0 | None | ID | US/Mountain | |
| 1177 | 0.0 | None | ID | US/Mountain | |
| 1178 | 0.0 | None | ID | US/Mountain | |
| 1179 | 0.0 | None | ID | US/Mountain | |
| 1180 | 0.0 | None | ID | US/Mountain | |
| ... | ... | ... | ... | ... | |
| 1759 | 191446.0 | None | ID | US/Mountain | |
| 1760 | 191529.0 | None | ID | US/Mountain | |
| 1761 | 191604.0 | None | ID | US/Mountain | |

| | | | | |
|------|----------|------|----|-------------|
| 1762 | 191674.0 | None | ID | US/Mountain |
| 1763 | 191731.0 | None | ID | US/Mountain |

| | Population2020 | new_case_sums | State |
|------|----------------|---------------|-------|
| 1176 | 1,839,106 | 4600 | ID |
| 1177 | 1,839,106 | 1840 | ID |
| 1178 | 1,839,106 | 4140 | ID |
| 1179 | 1,839,106 | 2576 | ID |
| 1180 | 1,839,106 | 2898 | ID |
| ... | ... | ... | ... |
| 1759 | 1,839,106 | 138 | ID |
| 1760 | 1,839,106 | 92 | ID |
| 1761 | 1,839,106 | 0 | ID |
| 1762 | 1,839,106 | 0 | ID |
| 1763 | 1,839,106 | 0 | ID |

[588 rows x 18 columns]

```
[352]: plt.figure(figsize=(12, 8))
plt.scatter(ID_df['Administered'], ID_df['new_case_sums'], color='purple',
            alpha=0.6)
plt.xlabel('Administered')
plt.ylabel('New Case Sums')
plt.title('ID Administered vs New Case Sums (Scatter Plot)')
plt.grid(True)
plt.tight_layout()
plt.show()
```



```
[353]: # 4. box plot - MA Administered 0-18 year old
```

```
[355]: MA_df = df_joined1[(df_joined1['States'] == 'MA')]
print(MA_df)
MA_df.to_csv(r'/Users/yuhang/Desktop/DSC540/term_project/MA_joined1.csv')
```

| | Date | Location | Distributed | Administered | Administered_0-18 \ |
|------|------------|----------|-------------|--------------|---------------------|
| 2940 | 2020-12-14 | MA | 5850 | 0 | 0.0 |
| 2941 | 2020-12-15 | MA | 39975 | 0 | 0.0 |
| 2942 | 2020-12-16 | MA | 59475 | 0 | 0.0 |
| 2943 | 2020-12-17 | MA | 59475 | 69 | 0.0 |
| 2944 | 2020-12-18 | MA | 59475 | 2261 | 0.0 |
| ... | ... | ... | ... | ... | ... |
| 3523 | 2023-02-08 | MA | 23037230 | 17991517 | 34897736.0 |
| 3524 | 2023-02-15 | MA | 23096880 | 18010421 | 34930205.0 |
| 3525 | 2023-02-22 | MA | 23152420 | 18024986 | 34955069.0 |
| 3526 | 2023-03-01 | MA | 23201200 | 18039745 | 34980283.0 |
| 3527 | 2023-03-08 | MA | 23268890 | 18052941 | 35002281.0 |

| | Administered_18-65 | Administered_65Plus | Administered_Moderna \ |
|------|--------------------|---------------------|------------------------|
| 2940 | 0 | 0 | 0 |
| 2941 | 0 | 0 | 0 |
| 2942 | 0 | 0 | 0 |
| 2943 | 0 | 0 | 0 |

| | | | |
|------|----------|---------|---------|
| 2944 | 0 | 0 | 0 |
| ... | ... | ... | ... |
| 3523 | 15979588 | 4518951 | 7127045 |
| 3524 | 15993570 | 4522507 | 7133858 |
| 3525 | 16004374 | 4525512 | 7139405 |
| 3526 | 16015071 | 4527957 | 7144761 |
| 3527 | 16024486 | 4530360 | 7149461 |

| | Additional_Doses | Additional_Doses_0-18 | Additional_Doses_18-65 | \ |
|------|------------------|-----------------------|------------------------|---|
| 2940 | NaN | NaN | 0.0 | |
| 2941 | NaN | NaN | 0.0 | |
| 2942 | NaN | NaN | 0.0 | |
| 2943 | NaN | NaN | 0.0 | |
| 2944 | NaN | NaN | 0.0 | |

| | | | |
|------|-----------|-----------|-----------|
| ... | ... | ... | ... |
| 3523 | 3279811.0 | 6461762.0 | 3010402.0 |
| 3524 | 3283473.0 | 6467740.0 | 3012530.0 |
| 3525 | 3286280.0 | 6472255.0 | 3014239.0 |
| 3526 | 3289271.0 | 6477076.0 | 3015976.0 |
| 3527 | 3291942.0 | 6481288.0 | 3017489.0 |

| | Additional_Doses_65Plus | Second_Booster | States | Zone | Population2020 | \ |
|------|-------------------------|----------------|--------|------------|----------------|---|
| 2940 | 0.0 | None | MA | US/Eastern | 7,029,917 | |
| 2941 | 0.0 | None | MA | US/Eastern | 7,029,917 | |
| 2942 | 0.0 | None | MA | US/Eastern | 7,029,917 | |
| 2943 | 0.0 | None | MA | US/Eastern | 7,029,917 | |
| 2944 | 0.0 | None | MA | US/Eastern | 7,029,917 | |
| ... | ... | ... | ... | ... | ... | |
| 3523 | 920320.0 | None | MA | US/Eastern | 7,029,917 | |
| 3524 | 920762.0 | None | MA | US/Eastern | 7,029,917 | |
| 3525 | 921148.0 | None | MA | US/Eastern | 7,029,917 | |
| 3526 | 921464.0 | None | MA | US/Eastern | 7,029,917 | |
| 3527 | 921782.0 | None | MA | US/Eastern | 7,029,917 | |

| | new_case_sums | State |
|------|---------------|-------|
| 2940 | 1700 | MA |
| 2941 | 680 | MA |
| 2942 | 1530 | MA |
| 2943 | 952 | MA |
| 2944 | 1071 | MA |
| ... | ... | ... |
| 3523 | 51 | MA |
| 3524 | 34 | MA |
| 3525 | 0 | MA |
| 3526 | 0 | MA |
| 3527 | 0 | MA |

[588 rows x 18 columns]

```
[362]: intervals = range(0, 40000000, 5000000)
```

```
[375]: MA_df['Administered_0-18'].sum()
```

```
[375]: 8856466415.0
```

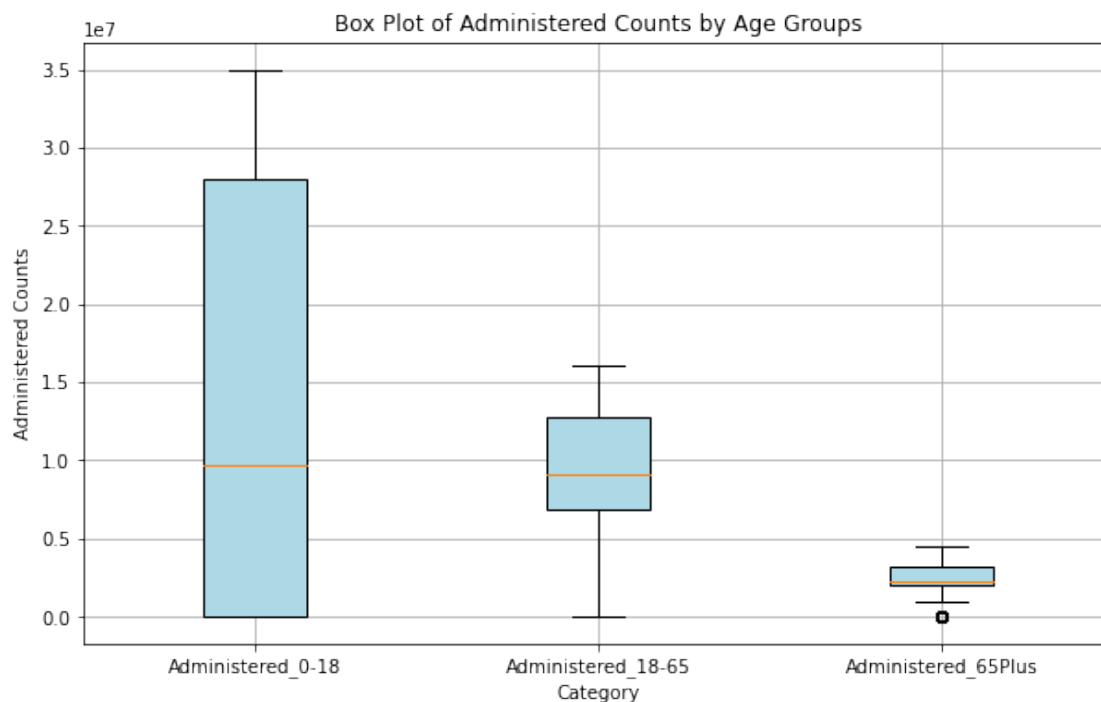
```
[376]: MA_df['Administered_18-65'].sum()
```

```
[376]: 5191936140
```

```
[377]: MA_df['Administered_65Plus'].sum()
```

```
[377]: 1356053506
```

```
[363]: plt.figure(figsize=(10, 6))
plt.boxplot([MA_df['Administered_0-18'],
             MA_df['Administered_18-65'], MA_df['Administered_65Plus']], \
            patch_artist=True, boxprops=dict(facecolor='lightblue'), \
            labels=['Administered_0-18', 'Administered_18-65',
             'Administered_65Plus'])
plt.xlabel('Category')
plt.ylabel('Administered Counts')
plt.title('Box Plot of Administered Counts by Age Groups')
plt.yticks(intervals)
plt.grid(True)
plt.show()
```




```
[385]: # 5. histogram - 'Distributed', 'Administered', 'Administered_0-18',  
      ↪ 'Administered_18-65', 'Administered_65Plus' counts frequency
```

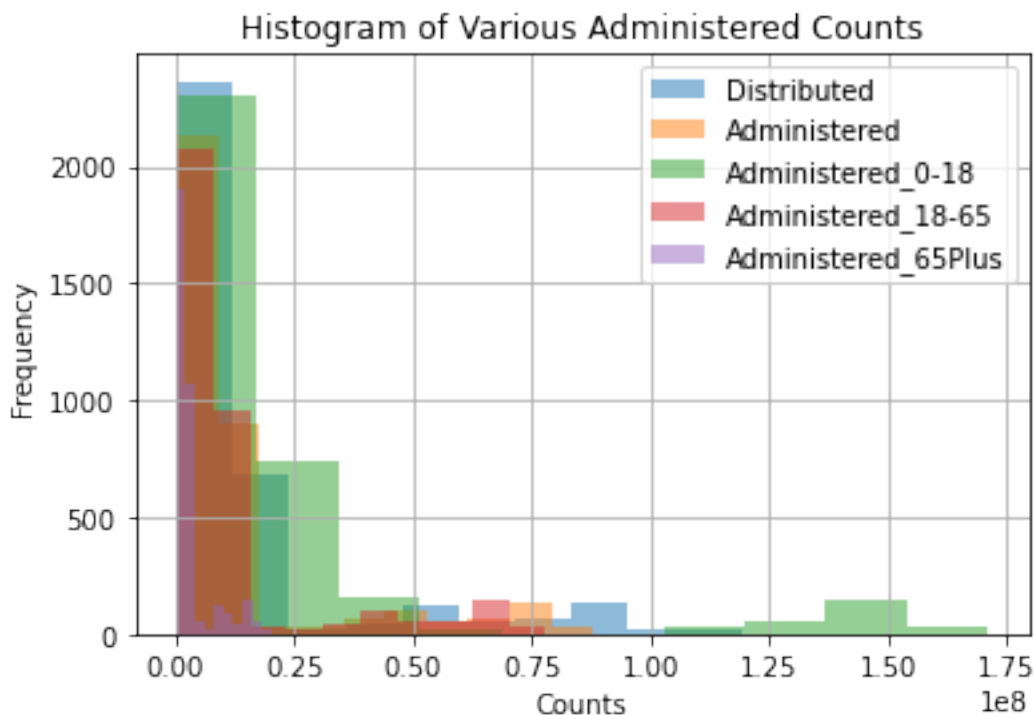
```
[386]: columns_to_plot = ['Distributed', 'Administered', 'Administered_0-18',  
      ↪ 'Administered_18-65', 'Administered_65Plus']
```

```
[387]: plt.figure(figsize=(20, 10))
```

```
[387]: <Figure size 1440x720 with 0 Axes>
```

```
<Figure size 1440x720 with 0 Axes>
```

```
[388]: for column in columns_to_plot:  
      plt.hist(df_joined1[column], bins=10, alpha=0.5, label=column)  
plt.xlabel('Counts')  
plt.ylabel('Frequency')  
plt.title('Histogram of Various Administered Counts')  
plt.legend(loc='upper right')  
plt.grid(True)
```



Throughout the data analysis process, several changes and transformations were made to the data to facilitate meaningful visualizations. Initially, load the dataframes to a database, those data files

containing information about state populations, new COVID-19 cases, and vaccine administration. This was a big challenge for me, but sqlite is a great tool to utilize. The data included various columns such as state names, population counts, dates, and administered vaccine counts segmented by age groups.

The changes I made to the data including remove commas from population figures and converted them to integer data types for accurate plotting. Ensured that date columns were in a consistent datetime format. Focused on relevant columns such as Administered_0-18, Administered_18-65, and Administered_65Plus for specific visualizations.

The data used pertains to public health information, specifically COVID-19 cases and vaccine administration. Handling such data is subject to stringent legal and regulatory guidelines, including health data privacy, data accuracy and public data use.

Transforming data, especially health-related data, carries certain risks, like loss of accuracy, misinterpretation, as well as bias introduction.

Data was assumed to be sourced from credible public health repositories and databases. However, in a real-world scenario, we have to ensure that the data is from reputable sources such as government health departments or established research institutions. Comparing data points with multiple sources to ensure consistency and accuracy is also crucial.

In summary, the process of analyzing and visualizing COVID-19 data requires meticulous attention to detail, adherence to legal standards, and a commitment to ethical practices to ensure the integrity and accuracy of the insights derived.

[]: