

Top 10 Zip Codes according to Permit Data

Following steps:

- 1. Import module
- 2. Import csv file
- 3. Clean data
- 4. Filter only the permits we want: ['A2', 'DM', 'NB', 'A1']
- 5. Find top 10 zip codes by value_counts()

Import data

```
In [1]: import pandas as pd

In [2]: data=pd.read_csv(filepath_or_buffer = '../capstone 1/DOB_Permit_Issuance.csv',
```

Sort Data

Observation:

- 1. The earliest date is December 2020, possibly due to nothing being allowed during the peak of the pandemic.
- 2. I will do a value counts to see which zip codes have the most activity.

```
In [3]: data.dropna(inplace=True)
data.sort_values(by=['Issuance Date'])
data
```

Out[3]:

	BOROUGH	Job Type	Zip Code	Issuance Date
0	MANHATTAN	A2	10020.0	12/11/2020
1	STATEN ISLAND	A2	10301.0	12/11/2020
2	BROOKLYN	DM	11209.0	06/17/2020
3	BROOKLYN	DM	11226.0	06/17/2020
4	BROOKLYN	DM	11210.0	06/17/2020
...
3747446	BROOKLYN	A2	11231.0	05/31/2021
3747448	BROOKLYN	A2	11205.0	05/31/2021
3747449	BROOKLYN	A1	11230.0	05/31/2021
3747450	QUEENS	A1	11378.0	05/31/2021
3747451	BROOKLYN	NB	11231.0	05/31/2021

3724122 rows × 4 columns

```
In [47]: # We want to focus only on the recent data and only want A2 DM NB A1,
# WE DONT WANT A3 and SG

BOROUGH = 'QUEENS'
df = data[data['BOROUGH'] == BOROUGH]
df = df[df['Job Type'].isin(['A2', 'DM', 'NB', 'A1'])]
df['Zip Code'].value_counts().head(10)
list = df['Zip Code'].value_counts().index.to_list()[:10]
list
```

Out[47]: [11101.0,
11368.0,
11354.0,
11355.0,
11385.0,
11373.0,
11357.0,
11432.0,
11377.0,
11691.0]

```
In [48]: BOROUGH = 'MANHATTAN'
df = data[data['BOROUGH'] == BOROUGH]
df = df[df['Job Type'].isin(['A2', 'DM', 'NB', 'A1'])]
df['Zip Code'].value_counts().head(10)
list = df['Zip Code'].value_counts().index.to_list()[:10]
list
```

Out[48]: [10022.0,
10019.0,
10013.0,
10011.0,
10003.0,
10017.0,
10036.0,
10016.0,
10001.0,
10023.0]

```
In [49]: BOROUGH = 'BRONX'
df = data[data['BOROUGH'] == BOROUGH]
df = df[df['Job Type'].isin(['A2', 'DM', 'NB', 'A1'])]
df['Zip Code'].value_counts().head(10)
list = df['Zip Code'].value_counts().index.to_list()[:10]
list
```

Out[49]: [10467.0,
10456.0,
10457.0,
10461.0,
10469.0,
10458.0,
10451.0,
10459.0,
10473.0,
10460.0]

```
In [50]: BOROUGH = 'BROOKLYN'
df = data[data['BOROUGH'] == BOROUGH]
df = df[df['Job Type'].isin(['A2', 'DM', 'NB', 'A1'])]
df['Zip Code'].value_counts().head(10)
list = df['Zip Code'].value_counts().index.to_list()[:10]
list
```

Out[50]: [11201.0,
11215.0,
11221.0,
11211.0,
11206.0,
11220.0,
11207.0,
11238.0,
11235.0,
11219.0]

```
In [51]: BOROUGH = 'STATEN ISLAND'
df = data[data['BOROUGH'] == BOROUGH]
df = df[df['Job Type'].isin(['A2', 'DM', 'NB', 'A1'])]
df['Zip Code'].value_counts().head(10)
list = df['Zip Code'].value_counts().index.to_list()[:10]
list
```

Out[51]: [10314.0,
10306.0,
10312.0,
10309.0,
10305.0,
10304.0,
10301.0,
10307.0,
10303.0,
10308.0]