

```
In [1]: # importing libraries
import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
%matplotlib inline
```

```
Import dataset
df = pd.read_csv('311_dataset.csv', low_memory=False)
```

```
In [2]: df.head()
```

```
Out[3]:
```

	Unique Key	Created Date	Closed Date	Agency	Agency Name	Complaint Type	Descriptor	Location Type	Incident Zip	Incident Address	Bridge Highway Name	Bridge Highway Direct
0	32310363	12/31/2015 11:59:44 PM	01-01-16 0:55	NYPD	New York City Police Department	Noise - Street/Sidewalk	Loud Music/Party	Street/Sidewalk	10034.0	71 VERMILYEA AVENUE	NaN	NaN
1	32309934	12/31/2015 11:59:44 PM	01-01-16 1:26	NYPD	New York City Police Department	Blocked Driveway	No Access	Street/Sidewalk	11105.0	27-07 23 AVENUE	NaN	NaN
2	32309159	12/31/2015 11:59:29 PM	01-01-16 4:51	NYPD	New York City Police Department	Blocked Driveway	No Access	Street/Sidewalk	10458.0	VALENTINE AVENUE	NaN	NaN
3	32305098	12/31/2015 11:57:46 PM	01-01-16 7:43	NYPD	New York City Police Department	Illegal Parking	Commercial Overnight Parking	Street/Sidewalk	10461.0	2940 BAISLEY AVENUE	NaN	NaN
4	32306529	12/31/2015 11:56:58 PM	01-01-16 3:24	NYPD	New York City Police Department	Illegal Parking	Blocked Sidewalk	Street/Sidewalk	11373.0	87-14 57 ROAD	NaN	NaN

5 rows x 53 columns

```
In [4]: # shape of the dataframe
df.shape
```

```
Out[4]: (300698, 53)
```

```
In [5]: # columns in df
df.columns
```

```
Out[5]: Index(['Unique Key', 'Created Date', 'Closed Date', 'Agency', 'Agency Name', 'Complaint Type', 'Descriptor', 'Location Type', 'Incident Zip', 'Incident Address', 'Intersection Street 1', 'Intersection Street 2', 'Address Type', 'City', 'Landmark', 'Facility Type', 'Status', 'Due Date', 'Resolution Description', 'Resolution Action Updated Date', 'Community Board', 'Borough', 'X Coordinate (State Plane)', 'Y Coordinate (State Plane)', 'Park Facility Name', 'Park Borough', 'School Name', 'School Number', 'School Region', 'School Code', 'School Phone Number', 'School Address', 'School City', 'School State', 'School Zip', 'School Not Found', 'School or Citywide Complaint', 'Vehicle Type', 'Taxi Company Borough', 'Taxi Pick Up Location', 'Bridge Highway Name', 'Bridge Highway Direction', 'Road Ramp', 'Bridge Highway Segment', 'Garage Lot Name', 'Ferry Direction', 'Ferry Terminal Name', 'Latitude', 'Longitude', 'Location', 'dtype: object']
df.columns = df.columns.str.lower().str.replace(' ', '_')
```

```
In [6]: # checking for NaN or null values in df
df.isna().sum()
```

Out[7]:	unique_key	0
	created_date	2164
	closed_date	0
	agency	0
	agency_name	0
	complaint_type	0
	descriptor	5914
	location_type	131
	incident_zip	2615
	incident_address	44410
	street_name	44410
	cross_street_1	49279
	cross_street_2	49779
	intersection_street_1	256840
	intersection_street_2	257336
	address_type	2
	city	2614
	landmark	300349
	facility_type	2171
	status	0
	due_date	3
	resolution_description	0
	resolution_action_updated_date	2187
	community_board	0
	borough	0
	x_coordinate (state_plane)	3540
	y_coordinate (state_plane)	3540
	park_facility_name	0
	park_borough	0
	school_name	0
	school_number	2
	school_region	1
	school_code	0
	school_phone_number	0
	school_address	0
	school_city	0
	school_state	0
	school_zip	1
	school_not_found	0
	school_or_citywide_complaint	300698
	vehicle_type	300698
	taxi_company_borough	300698
	taxi_pick_up_location	300698
	bridge_highway_name	300455
	bridge_highway_direction	300455
	road_ramp	300485
	bridge_highway_segment	300485
	garage_lot_name	300698
	ferry_direction	300697
	ferry_terminal_name	300696
	latitude	3540
	longitude	3540
	location	3540
	dtype: int64	

```
In [8]: df.unique()
```

Out[8]:	unique_key	300698
	created_date	259493
	closed_date	237165
	agency	3
	agency_name	3
	complaint_type	24
	descriptor	45
	location_type	18
	incident_zip	201
	incident_address	107652
	street_name	7320
	cross_street_1	5982
	cross_street_2	5823
	intersection_street_1	4413
	intersection_street_2	4172
	address_type	5
	city	116
	landmark	1
	facility_type	4
	status	25981
	due_date	18
	resolution_description	237895
	resolution_action_updated_date	15
	community_board	6
	borough	63226
	x_coordinate (state_plane)	76394
	y_coordinate (state_plane)	6
	park_facility_name	2
	park_borough	2
	school_name	1
	school_number	2
	school_region	1
	school_code	1
	school_phone_number	2
	school_address	2
	school_city	2
	school_state	2
	school_zip	1
	school_not_found	0
	school_or_citywide_complaint	0
	vehicle_type	0
	taxi_company_borough	0
	taxi_pick_up_location	0
	bridge_highway_name	2
	bridge_highway_direction	24
	road_ramp	160
	bridge_highway_segment	0
	garage_lot_name	1
	ferry_direction	2
	ferry_terminal_name	12512
	latitude	125216
	longitude	126048
	location	dtype: int64

- Read or convert the columns 'Created Date' and 'Closed Date' to datetime datatype

```
create a new column 'Request_Closing_Time' to the time elapsed between request creation and request closing
```

```
In [9]: df['closed_date'] = pd.to_datetime(df['closed_date'])
```

```
In [10]: df['created_date'] = pd.to_datetime(df['created_date'])
```

```
In [11]: requested_closing_time = df['closed_date'] - df['created_date']
```

```
In [12]: df['requested_closing_time'] = requested_closing_time
```

```
In [13]: # converting the date difference into minutes
requested_closing_time_min = df['requested_closing_time']/np.timedelta64(1, 'm')
```

```
In [14]: df['requested_closing_time_min'] = requested_closing_time_min
```

```
df.head()
```

	unique_key	created_date	closed_date	agency	agency_name	complaint_type	descriptor	location_type	incident_zip	incident_address
0	32310363	2015-12-31 23:59:45	2016-01-01 00:55:00	NYPD	New York City Police Department	Noise - Street/Sidewalk	Loud Music/Party	Street/Sidewalk	10034.0	71 VERMILYEA AVENUE
1	32309934	2015-12-31 23:59:44	2016-01-01 01:26:00	NYPD	New York City Police Department	Blocked Driveway	No Access	Street/Sidewalk	11105.0	27-07 23 AVENUE
2	32309159	2015-12-31 23:59:29	2016-01-01 04:51:00	NYPD	New York City Police Department	Blocked Driveway	No Access	Street/Sidewalk	10458.0	2897 VALENTINE AVENUE
3	32305098	2015-12-31 23:57:46	2016-01-01 07:43:00	NYPD	New York City Police Department	Illegal Parking	Commercial Overnight Parking	Street/Sidewalk	10461.0	2940 BAISLEY AVENUE
4	32306529	2015-12-31 23:56:58	2016-01-01 03:24:00	NYPD	New York City Police Department	Illegal Parking	Blocked Sidewalk	Street/Sidewalk	11373.0	87-14 57 ROAD

5 rows x 55 columns

```
In [16]: # creating new dataframe
new_df = df[['unique_key', 'created_date', 'closed_date', 'agency', 'agency_name', 'complaint_type', 'descriptor', 'location_type', 'incident_zip', 'incident_address', 'requested_closing_time', 'requested_closing_time_min']]
new_df.head()
```

```
Out[17]:
```

	unique_key	created_date	closed_date	agency	agency_name	complaint_type	descriptor	location_type	address_type	city	faci
0	32310363	2015-12-31 23:59:45	2016-01-01 00:55:00	NYPD	New York City Police Department	Noise - Street/Sidewalk	Loud Music/Party	Street/Sidewalk	ADDRESS	NEW YORK	
1	32309934	2015-12-31 23:59:44	2016-01-01 01:26:00	NYPD	New York City Police Department	Blocked Driveway	No Access	Street/Sidewalk	ADDRESS	ASTORIA	
2	32309159	2015-12-31 23:59:29	2016-01-01 04:51:00	NYPD	New York City Police Department	Blocked Driveway	No Access	Street/Sidewalk	ADDRESS	BRONX	
3	32305098	2015-12-31 23:57:46	2016-01-01 07:43:00	NYPD	New York City Police Department	Illegal Parking	Commercial Overnight Parking	Street/Sidewalk	ADDRESS	BRONX	
4	32306529	2015-12-31 23:56:58	2016-01-01 03:24:00	NYPD	New York City Police Department	Illegal Parking	Blocked Sidewalk	Street/Sidewalk	ADDRESS	ELMHURST	

Converting the series city and borough into lower case to avoid redundancies

```
In [18]: new_df['city'] = new_df['city'].str.lower()
pd.options.mode.chained_assignment = None
C:\Users\Naveen\AppData\Roaming\Python\Python37\site-packages\seaborn\_decorators.py:143: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only valid positional argument will be 'data', and passing other arguments without an explicit keyword will result in an error or misinterpretation.
See the following view-versus-a-copy warning: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
**kwargs argument for launching an IPython kernel.
```

```
In [19]: new_df['borough'] = new_df['borough'].str.lower()
pd.options.mode.chained_assignment = None
```

```
In [20]: new_df.head()
```

```
Out[20]: (300698, 17)
```

```
In [21]: new_df.duplicated().sum()
```

```
Out[21]: 0
```

```
In [22]: new_df.isnull().sum()
```

Out[22]:	unique_key	0
	created_date	0
	closed_date	2164
	agency	0
	agency_name	0
	complaint_type	0
	descriptor	5914
	location_type	131
	address_type	2815
	city	2614
	facility_type	2171
	status	0
	due_date	3
	borough	3540
	location	3540
	requested_closing_time	2164
	requested_closing_time_min	2164
	dtype:	int64

```
In [23]: pd.set_option('mode.chained_assignment', None)
new_df.dropna(inplace=True)
```

```
In [24]: new_df.isnull().sum()
```

Out[24]:	unique_key	0
	created_date	0
	closed_date	0
	agency	0
	agency_name	0
	complaint_type	0
	descriptor	0
	location_type	0
	address_type	0
	city	0
	facility_type	0
	status	0
	due_date	0
	borough	0
	location	0
	requested_closing_time	0
	requested_closing_time_min	0
	dtype:	int64

```
In [25]: new_df.dtypes
```

Out[25]:	unique_key	int64
	created_date	datetime64[ns]
	closed_date	datetime64[ns]
	agency	object
	agency_name	object
	complaint_type	object
	descriptor	object
	location_type	object
	address_type	object
	city	object
	facility_type	object
	status	object
	due_date	object
	borough	object
	location	object
	requested_closing_time	timedelta64[ns]
	requested_closing_time_min	timedelta64[ns]
	dtype:	object

Provide major insights/patterns that you can offer in a visual format; at least 4 major conclusions that you can come up with after generic data mining.

1)

```
In [26]: df['location_type'].value_counts()
plt.figure(figsize=(12,4))
plt.sns.countplot(df['location_type'])
plt.title('Counts based on the Location Type')
plt.show()
```

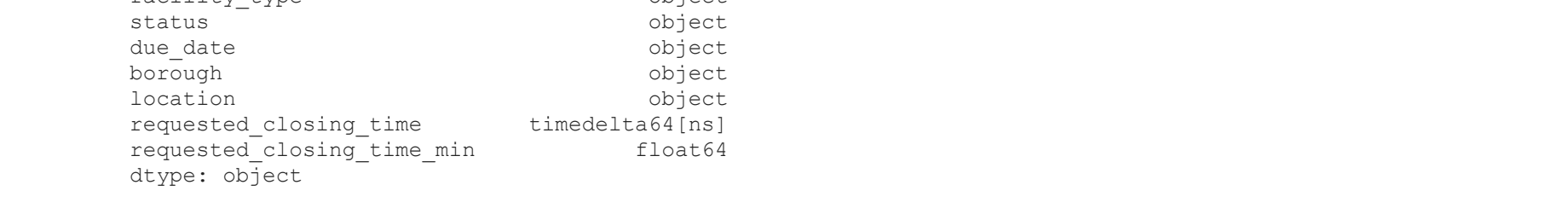


Insight:

- Street/Sidewalk is the most used Location Type by New York people. From the plot, we can see it out-comes most other types

2)

```
In [27]: plt.figure(figsize=(12,4))
plt.sns.countplot(df['descriptor'])
plt.title('Counts based on the Descriptor')
plt.show()
```

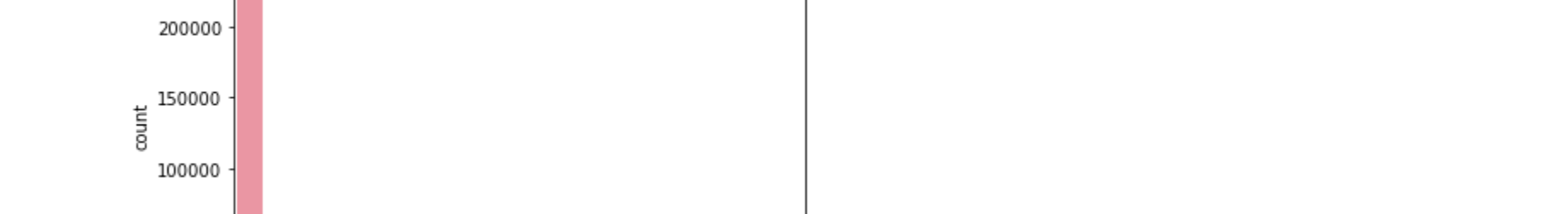


Insights:

- 'Descriptor' variable plotted here is based on the complaint type
- From the above, it is seen that Loud Music/Party is highest registered count by the people against others.
- It comes under the "Noise" Complaint type.

3)

```
In [28]: plt.figure(figsize=(10,6))
sns.countplot(df.loc[df['location_type'].isin(['Street/Sidewalk', 'Store/Commercial', 'Club/Bar/Restaurant'])])
plt.title('Counts based on the Location Type and Borough')
plt.show()
```

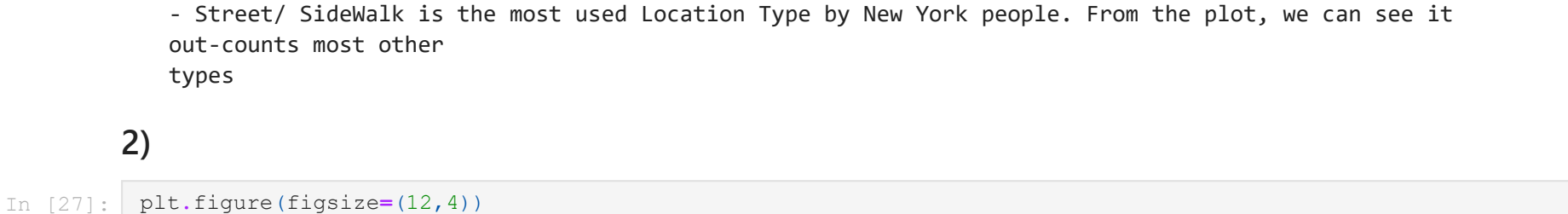


Conclusion:

- The plot is used to measure of usage count of location type's in the Cities of Newyork
- From above, we can infer that, Street/Sidewalks of BROOKLYN is most used by the people of Newyork
- Footfall in Sidewalks is higher than another complaint in overall.

4)

```
In [29]: plt.figure(figsize=(10,4))
series=df['complaint_type'].value_counts()
series.nlargest(5).index
plt4=sns.barplot(x=series.nlargest(5).index,y=series.nlargest(5).values)
plt4.set_xticklabels(plt4.get_xticklabels(),rotation=90)
plt.show()
```



Insights:

- The above graph is used to find out which complaint, it has been registered high in count.
- As visualised, since Driveway Block which has high count, it is the problem faced most, by the people around.

Order the complaint types based 'Request_Closing_Time', grouping them for different locations.

```
In [30]: df.pivot_table(index = 'complaint_type',
columns='city',
values='requested_closing_time_min',
aggfunc= lambda x: x.mean(),
fill_value='-')
```

```
Out[30]:
```

	city	ARVERNE	ASTORIA	Astoria	BAYSIDE	BELLEROSE	BREEZY POINT	BRONX	BROOKLYN	CAMBRIA HEIGHTS	CENTRAL PARK	SAINT ALBANS	SOI P
complaint_type													
Animal Abuse		129218	300.01	-	196.471	763.481	156.808	440.13	289.95	681.35	-	442.305	20
Animal in a Park		-	-	-	-	-	-	-	-	-	-	-	-
Bike/Roller/Skate Chronic		-	104.359	-	-	294	-	207.538	300.282	-	-	-	2
Blocked Driveway		151.558	288.967	294.878	153.784	605.965	79.6611	375.706	264.647	461.759	-	281.207	265
Derelict Vehicle		178.093	581.355	374.169	201.587	1030.09	428.711	553.654	356.849	966.647	-	354.03	623
Disorderly Youth		215.475	174.156	-	178.383	111	-	254.304	249.031	-	-	105.55	160
Drinking		14.3167	283.345	-	114	235.083	158	347.615	212.434	-	-	57.6833	292
Graffiti		92	845.704	-	273.094	-	533.943	494.592	-	-	-	-	-
Homeless Encampment		108.888	295.055	-	172.533	2348	-	446.514	281.689	1367.37	-	454.242	110
Illegal Fireworks		-	166.408	-	-	400	-	336.492	140.375	91.8333	-	-	3
Illegal Parking		138.982	290.003	282.677	153.76	492.188	236.533	394.851	256.334	674.606	-	251.058	28
Noise - Commercial		137.223	187.982	212.513	134.02	404.446	152.371	281.841	179.166	228.601	-	186.015	2
Noise - House of Worship		93.7318	121.333	-	212.092	131.817	-	273.573	184.192	158.458	-	278.75	129
Noise - Park		77	179.707	-	196.354	84.85	-	281.912	189.032	-	-	49.2167	342
Noise - Street/Sidewalk		119.544	207.07	222.794	91.86	544.094	60	313.579	197.76	276.483	196.016	201.971	219
Noise - Vehicle		111.593	210.551	-	102.505	154.99	79.4667	333.648	200.005	276.483	196.016	201.971	219
Other		100	100	100	100	100	100	100	100	100	100	100	100
Public Safety		100	100	100	100	100	100	100	100	100	100	100	100
Public Safety - Chronic		100	100	100	100	100	100	100	100	100	100	100	100
Public Safety - Chronic - Speeding		100	100	100	100	100	100	100	100	100	100	100	100
Public Safety - Chronic - Speeding - Chronic		100	100	100	100	100	100	100	100	100	100	100	100
Public Safety - Chronic - Speeding - Chronic - Speeding		100	100	100	100	100	100	100	100	100	100	100	100
Public Safety - Chronic - Speeding - Chronic - Speeding - Chronic		100	100	100	100	100	100	100	100	100	100	100	100
Public Safety - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding		100	100	100	100	100	100	100	100	100	100	100	100
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Public Safety - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic		100	100	100	100	100	100	100	100	100	100	100	100
Public Safety - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding		100	100	100	100	100	100	100	100	100	100	100	100
Public Safety - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic		100	100	100	100	100	100	100	100	100	100	100	100
Public Safety - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding		100	100	100	100	100	100	100	100	100	100	100	100
Public Safety - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic		100	100	100	100	100	100	100	100	100	100	100	100
Public Safety - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding		100	100	100	100	100	100	100	100	100	100	100	100
Public Safety - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic		100	100	100	100	100	100	100	100	100	100	100	100
Public Safety - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding		100	100	100	100	100	100	100	100	100	100	100	100
Public Safety - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic		100	100	100	100	100	100	100	100	100	100	100	100
Public Safety - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding		100	100	100	100	100	100	100	100	100	100	100	100
Public Safety - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic		100	100	100	100	100	100	100	100	100	100	100	100
Public Safety - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding		100	100	100	100	100	100	100	100	100	100	100	100
Public Safety - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic - Speeding - Chronic		100	100	100	100	100	100	100	100	100	100	100	100
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