27.	<pre>import pandas as pd import numpy as np import matplotlib.pyplot as plt %matplotlib inline df = pd.read_csv(r"C:\Users\HP\Desktop\project\311_Service_Requests_from_2010_to_Present.csv") C:\ANACONDA\lib\site-packages\IPython\core\interactiveshell.py:3165: DtypeWarning: Columns (48,49) have mixed types.Specify dtype option on import or set low_memory=False.</pre>
3]:	Unique Created Date Didge Created Date Da
	3 32305098 12/31/2015 07:43:13 NYPD City Police Department Parking Par
	0 2015-12-31 23:59:45 1 2015-12-31 23:59:44 2 2015-12-31 23:59:29 3 2015-12-31 23:57:46 4 2015-12-31 23:56:58 364553 2015-01-01 00:04:44 364554 2015-01-01 00:04:28 364555 2015-01-01 00:01:30 364556 2015-01-01 00:01:29 364557 2015-01-01 00:00:50 Name: Created Date, Length: 364558, dtype: datetime64[ns]
	Created Date 0 2015-12-31 23:59:45 1 2015-12-31 23:59:44 2 2015-12-31 23:59:29 3 2015-12-31 23:57:46 4 2015-12-31 23:56:58
	364553 2015-01-01 00:04:44 364554 2015-01-01 00:04:28 364555 2015-01-01 00:01:30 364556 2015-01-01 00:01:29 364557 2015-01-01 00:00:50 364558 rows × 1 columns df2['year'] = df2['Created Date'].dt.year
	<pre>df2['month'] = df2['Created Date'].dt.month df2['day'] = df2['Created Date'].dt.day df2['hour'] = df2['Created Date'].dt.hour df2['minute'] = df2['Created Date'].dt.minute df2['second'] = df2['Created Date'].dt.second df2 </pre> <pre><ipython-input-9-49bc007256e3>: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</ipython-input-9-49bc007256e3></pre> See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy df2['year'] = df2['Created Date'].dt.year
	<pre><ipython-input-9-49bc007256e3>:2: 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</ipython-input-9-49bc007256e3></pre>
	See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy df2['hour'] = df2['Created Date'].dt.hour <ipython-input-9-49bc007256e3>:5: 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 df2['minute'] = df2['Created Date'].dt.minute <ipython-input-9-49bc007256e3>:6: 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 df2['second'] = df2['Created Date'].dt.second</ipython-input-9-49bc007256e3></ipython-input-9-49bc007256e3>
: _	
3	364554 2015-01-01 00:01:28 2015
	1 False 2 False 3 False 4 False 4 False 364553 False 364555 False 364555 False 364555 False 364556 False 364557 False Name: year, Length: 364558, dtype: bool yf= (df2['year'] != 2015) df[yf]
	Unique Key Date Date Agency Agency Name Complaint Type Descriptor Location Type Descriptor Location Type Descriptor Location Type Descriptor Location Incident Address Ferry Terminal Name Latitude Longitude Location year month day hour minute second of the second o
	yf= (df2['day'] > 31) df[yf] Unique Key Date Date Agency Name Type Descriptor Location Type Zip Address Ferry Terminal Name Latitude Longitude Location year month day hour minute second Prows × 59 columns
- C	yf= (df2['hour'] > 23) df[yf] Unique Created Date Date Agency Agency Name Type Descriptor Location Type Zip Incident Address Ferry Terminal Name Latitude Longitude Location year month day hour minute second rows × 59 columns yf= (df2['minute'] > 60)
. [Unique Created Date Agency Agency Name Cmplaint Type Descriptor Location Type Location Incident Zip Address Ferry Terminal Name Latitude Longitude Location year month day hour minute second of the control of the
	Name Date
	3 2016-01-01 07:43:13
	0 2016-01-01 00:55:15 1 2016-01-01 01:26:57 2 2016-01-01 04:51:03 3 2016-01-01 07:43:13 4 2016-01-01 03:24:42 36453 2015-01-01 10:22:31 36454 2015-01-01 02:25:02
	364555 2015-01-01 00:20:33 364556 2015-01-01 02:42:22 364557 2015-01-01 02:47:50 364558 rows × 1 columns df3['year'] = df3['Closed Date'].dt.year df3['month'] = df3['Closed Date'].dt.month df3['day'] = df3['Closed Date'].dt.day df3['hour'] = df3['Closed Date'].dt.hour
	<pre>df3['hour'] = df3['Closed Date'].dt.hour df3['minute'] = df3['Closed Date'].dt.minute df3['second'] = df3['Closed Date'].dt.second df3 </pre> <pre><ipython-input-58-37b376a16e11>: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 df3['year'] = df3['Closed Date'].dt.year 'apython-input-58-37b376a16e11>:2: 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</ipython-input-58-37b376a16e11></pre>
	See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy df3['month'] = df3['Closed Date'].dt.month <ipython-input-58-37b376a16e11>:3: 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 df3['day'] = df3['Closed Date'].dt.day <ipython-input-58-37b376a16e11>:4: 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 df3['bay'] = df3['Closed Date'].dt.buys. ##\$2[Indexed Date'].dt.buys. ##\$2[Indexed Date'].dt.buys. ##\$2[Indexed Date'].dt.buys. ##\$2[Indexed Date'].dt.buys.</ipython-input-58-37b376a16e11></ipython-input-58-37b376a16e11>
	df3['hour'] = df3['Closed Date'].dt.hour <ipython-input-58-37b376a16e11>:5: 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</ipython-input-58-37b376a16e11>
	0 2016-01-01 00:55:15 2016.0 1.0 1.0 0.0 55.0 15.0 1 2016-01-01 01:26:57 2016.0 1.0 1.0 26.0 57.0 2 2016-01-01 04:51:03 2016.0 1.0 1.0 4.0 51.0 3.0 3 2016-01-01 07:43:13 2016.0 1.0 1.0 43.0 13.0 4 2016-01-01 03:24:42 2016.0 1.0 1.0 3.0 42.0 364553 2015-01-01 10:22:31 2015.0 1.0 1.0 22.0 31.0
3	364554 2015-01-01 02:25:02 2015.0 1.0 1.0 2.0 25.0 2.0 364555 2015-01-01 00:20:33 2015.0 1.0 1.0 0.0 20.0 33.0 364556 2015-01-01 02:42:22 2015.0 1.0 1.0 2.0 42.0 22.0 364557 2015-01-01 02:47:50 2015.0 1.0 1.0 2.0 47.0 50.0 364558 rows × 7 columns xf= (df3['year'] < 2015) df[xf] Unique Greated Glosed - Agency Complaint - Agency Com
: [Unique Key Date Date Agency Agency Name Complaint Type Descriptor Location Type Location Type Location Type Location Type Location Location Location Name Latitude Longitude Location year month day hour minute second of the control
:	xf= (df3['day'] > 31) df[xf] Unique Created Date Date Date Agency Name Type Descriptor Location Type Zip Address Ferry Terminal Name Latitude Longitude Location year month day hour minute second crows × 59 columns
: - 0	xf= (df3['hour'] > 23) Unique Key Created Date Closed Date
:	Unique Key Date Date Date Agency Name Complaint Type Descriptor Descriptor Type Descriptor Type Descriptor De
: [import seaborn as sns df['Agency Name'] 0
:	4 Brooklyn 364553 Brooklyn 364554 Brooklyn 364555 Brooklyn 364556 Brooklyn 364556 Brooklyn Name: Agency Name, Length: 364558, dtype: object plt.figure(figsize=(10,5)) sns.countplot(x="Agency Name", hue= "Complaint Type", data=df) <a "="" href="https://documes.com/super/Agency Name"> , hue= "Complaint Type", data=df) <a "="" href="https://documes.com/super/Agency Name"> , ylabel='count'>
	Complaint Type Noise - Street/Sidewalk Blocked Driveway Illegal Parking Derelict Vehicle Noise - Commercial Noise - House of Worship Posting Advertisement Noise - Vehicle Animal Abuse Vending Taffic Drinking Bike/Roller/Skate Chronic
	BlickRoller/Skate Chronic Panhandling Noise - Park Homeless Encampment Urinating in Public Graffiti Disorderly Youth Illegal Fireworks Ferry Complaint Agency Issues Squeegee Animal in a Park Brooklyn Agency Name
	sns.scatterplot(data=df, x="Agency Name", y= "Complaint Type") <axessubplot:xlabel='agency name',="" ylabel="Complaint Type"> Noise-Street/Sidewalk Blocked Driveway Blocked Driveway Degral Parting Noise-Industrial Noise-Industri</axessubplot:xlabel='agency>
	Bike/Roller/Skate Chronic Panhandling Homeless Encarpment Urinating in Public Disorder With Homeless Encarpment Homeless Encar
	<pre></pre> <pre></pre> <pre></pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> </pre> <pre> <pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>
purnos	
3	Top_complaints = df['Complaint Type'].value_counts()
8	Blocked Driveway 100881 Illegal Parking 92679 Noise - Street/Sidewalk 51692 Noise - Commercial 44109 Derelict Vehicle 21661 Noise - Vehicle 19352 Animal Abuse 10541 Traffic 5198 Homeless Encampment 4879 Vending 4192 Noise - Park 4109 Drinking 1409
9	top_complaints.head(10) Blocked Driveway 100881 Tllegal Parking 92679 Noise - Street/Sidewalk 51692 Noise - Commercial 44109 Derelict Vehicle 21661 Noise - Vehicle 19352 Animal Abuse 10541 Traffic 5198 Homeless Encampment 4879 Vending 4192 Name: Complaint Type, dtype: int64
2	
7	Brooklyn 364558 Name: Agency Name, dtype: int64 y=np.arange(0,24) y array([0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23]) plt.hexbin(x,y,gridsize=20)
	<pre> <pre> <pre></pre></pre></pre>
))	Description
	Brooklyn Blocked Driveway Brooklyn Illegal Parking Illegal Parking Illegal Parking Illegal Parking Illegal Parking Noise - Street/Sidewalk Brooklyn Noise - Street/Sidewalk Brooklyn Noise - Street/Sidewalk
3	Brooklyn Blocked Driveway top_complaints Blocked Driveway 100881 Illegal Parking 92679 Noise - Street/Sidewalk 51692 Noise - Commercial 44109 Derelict Vehicle 21661
	Noise - Commercial 44109 Derelict Vehicle 21661 Noise - Vehicle 19352 Animal Abuse 10541 Traffic 5198 Homeless Encampment 4879 Vending 4192 Noise - Park 4109 Drinking 1409 Noise - House of Worship 1070 Posting Advertisement 681 Urinating in Public 641 Bike/Roller/Skate Chronic 478 Panhandling 327 Disorderly Youth 315
3	Disorderly Youth 315 Illegal Fireworks 172 Graffiti 157 Agency Issues 8 Squeegee 4 Ferry Complaint 2 Animal in a Park 1 Name: Complaint Type, dtype: int64 x=np.array(top_complaints) x array([100881, 92679, 51692, 44109, 21661, 19352, 10541, 5198,
6	4879, 4192, 4109, 1409, 1070, 681, 641, 478, 327, 315, 172, 157, 8, 4, 2, 1], p=df['Complaint Type'] p Noise - Street/Sidewalk Blocked Driveway Blocked Driveway Illegal Parking
7	364553 Illegal Parking 364554 Noise - Vehicle 364555 Noise - Street/Sidewalk 364556 Blocked Driveway 364557 Blocked Driveway Name: Complaint Type, Length: 364558, dtype: object z=np.array(p) z array(['Noise - Street/Sidewalk', 'Blocked Driveway', 'Blocked Driveway',, 'Noise - Street/Sidewalk', 'Blocked Driveway',
]: []: []: [", 'Noise - Street/Sidewalk', 'Blocked Driveway', 'Blocked Driveway'], dtype=object)
:	
,	