



Project 03: NYC 311 Service Request Analysis

You don't need to limit yourself to the number of rows/cells provided. You can add additional rows in each section to add more lines of code.

Happy coding!

```
In [21]: import pandas as pd
import numpy as np

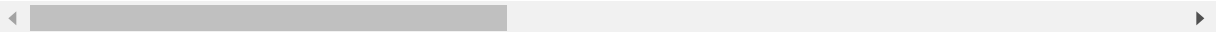
#Import a 311 NYC service request
nyc=pd.read_csv("C:\\Users\\LIFE\\Downloads\\311_Service_Requests_from_2010_to_Present.csv",low_memory=False)

#Basic data exploratory analysis
#Explore data
nyc.head()
```

Out[21]:

	Unique Key	Created Date	Closed Date	Agency	Agency Name	Complaint Type	Descriptor	Location Type
0	32310363	12/31/2015 11:59:45 PM	01-01-16 0:55	NYPD	New York City Police Department	Noise - Street/Sidewalk	Loud Music/Party	Street/Sidewalk
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
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
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
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

5 rows × 53 columns



In [19]: *#Find Pattern*
nyc

Out[19]:

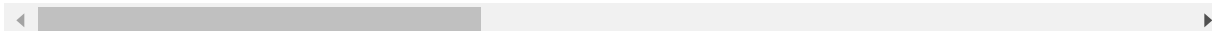
	Unique Key	Created Date	Closed Date	Agency	Agency Name	Complaint Type	Descriptor
0	32310363	12/31/2015 11:59:45 PM	01-01-16 0:55	NYPD	New York City Police Department	Noise - Street/Sidewalk	Loud Music/Party
1	32309934	12/31/2015 11:59:44 PM	01-01-16 1:26	NYPD	New York City Police Department	Blocked Driveway	No Access
2	32309159	12/31/2015 11:59:29 PM	01-01-16 4:51	NYPD	New York City Police Department	Blocked Driveway	No Access
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
4	32306529	12/31/2015 11:56:58 PM	01-01-16 3:24	NYPD	New York City Police Department	Illegal Parking	Blocked Sidewalk
5	32306554	12/31/2015 11:56:30 PM	01-01-16 1:50	NYPD	New York City Police Department	Illegal Parking	Posted Parking Sign Violation
6	32306559	12/31/2015 11:55:32 PM	01-01-16 1:53	NYPD	New York City Police Department	Illegal Parking	Blocked Hydrant
7	32307009	12/31/2015 11:54:05 PM	01-01-16 1:42	NYPD	New York City Police Department	Blocked Driveway	No Access
8	32308581	12/31/2015 11:53:58 PM	01-01-16 8:27	NYPD	New York City Police Department	Illegal Parking	Posted Parking Sign Violation
9	32308391	12/31/2015 11:53:58 PM	01-01-16 1:17	NYPD	New York City Police Department	Blocked Driveway	No Access
10	32305071	12/31/2015 11:52:58 PM	01-01-16 7:41	NYPD	New York City Police Department	Blocked Driveway	No Access
11	32306260	12/31/2015 11:50:57 PM	01-01-16 10:58	NYPD	New York City Police Department	Blocked Driveway	No Access
12	32306612	12/31/2015 11:48:03 PM	01-01-16 2:17	NYPD	New York City Police Department	Noise - Street/Sidewalk	Loud Music/Party
13	32305074	12/31/2015 11:47:58 PM	01-01-16 8:18	NYPD	New York City Police Department	Illegal Parking	Posted Parking Sign Violation
14	32309424	12/31/2015 11:47:37 PM	01-01-16 10:17	NYPD	New York City Police Department	Derelict Vehicle	With License Plate
15	32309853	12/31/2015 11:47:30 PM	01-01-16 15:20	NYPD	New York City Police Department	Blocked Driveway	Partial Access

	Unique Key	Created Date	Closed Date	Agency	Agency Name	Complaint Type	Descriptor	
16	32305538	12/31/2015 11:47:02 PM	01-01-16 4:39	NYPD	New York City Police Department	Blocked Driveway	No Access	
17	32310273	12/31/2015 11:44:52 PM	01-01-16 0:36	NYPD	New York City Police Department	Noise - Commercial	Loud Music/Party	Clut
18	32306617	12/31/2015 11:40:59 PM	01-01-16 2:37	NYPD	New York City Police Department	Noise - Commercial	Loud Music/Party	Clut
19	32308195	12/31/2015 11:40:55 PM	01-01-16 0:28	NYPD	New York City Police Department	Noise - Street/Sidewalk	Loud Music/Party	
20	32310127	12/31/2015 11:40:43 PM	01-01-16 4:12	NYPD	New York City Police Department	Illegal Parking	Unauthorized Bus Layover	
21	32307994	12/31/2015 11:38:51 PM	01-01-16 9:11	NYPD	New York City Police Department	Illegal Parking	Posted Parking Sign Violation	
22	32307233	12/31/2015 11:34:18 PM	01-01-16 0:50	NYPD	New York City Police Department	Noise - Commercial	Loud Music/Party	Si
23	32308765	12/31/2015 11:32:46 PM	01-01-16 0:25	NYPD	New York City Police Department	Illegal Parking	Double Parked Blocking Vehicle	
24	32308423	12/31/2015 11:31:40 PM	01-03-16 16:22	NYPD	New York City Police Department	Blocked Driveway	No Access	
25	32308426	12/31/2015 11:30:28 PM	01-01-16 2:47	NYPD	New York City Police Department	Blocked Driveway	No Access	
26	32305916	12/31/2015 11:26:41 PM	12/31/2015 11:53:31 PM	NYPD	New York City Police Department	Noise - House of Worship	Loud Music/Party	H
27	32308379	12/31/2015 11:26:35 PM	01-01-16 5:07	NYPD	New York City Police Department	Blocked Driveway	No Access	
28	32309402	12/31/2015 11:25:56 PM	01-01-16 1:12	NYPD	New York City Police Department	Illegal Parking	Posted Parking Sign Violation	
29	32308850	12/31/2015 11:25:01 PM	01-01-16 1:55	NYPD	New York City Police Department	Noise - Commercial	Loud Music/Party	Clut
...	
300668	30282107	03/29/2015 01:03:20 AM	03/29/2015 03:40:19 AM	NYPD	New York City Police Department	Noise - Commercial	Loud Music/Party	Clut
300669	30283741	03/29/2015 01:02:05 AM	03/29/2015 05:26:38 AM	NYPD	New York City Police Department	Noise - Street/Sidewalk	Loud Music/Party	

	Unique Key	Created Date	Closed Date	Agency	Agency Name	Complaint Type	Descriptor	
300670	30284125	03/29/2015 01:01:25 AM	03/29/2015 09:26:52 AM	NYPD	New York City Police Department	Illegal Parking	Blocked Hydrant	
300671	30283901	03/29/2015 12:58:08 AM	03/29/2015 04:44:02 AM	NYPD	New York City Police Department	Illegal Parking	Blocked Hydrant	
300672	30282374	03/29/2015 12:57:27 AM	03/29/2015 04:39:53 PM	NYPD	New York City Police Department	Blocked Driveway	No Access	
300673	30280817	03/29/2015 12:57:25 AM	03/29/2015 02:25:31 AM	NYPD	New York City Police Department	Noise - Commercial	Loud Music/Party	Clut
300674	30283364	03/29/2015 12:57:19 AM	03/29/2015 03:17:59 AM	NYPD	New York City Police Department	Noise - Street/Sidewalk	Loud Music/Party	
300675	30280353	03/29/2015 12:56:22 AM	03/29/2015 01:57:52 AM	NYPD	New York City Police Department	Noise - Street/Sidewalk	Loud Music/Party	
300676	30280974	03/29/2015 12:55:56 AM	03/29/2015 08:08:27 AM	NYPD	New York City Police Department	Noise - Commercial	Loud Music/Party	Si
300677	30280622	03/29/2015 12:55:33 AM	03/29/2015 07:12:39 AM	NYPD	New York City Police Department	Noise - Commercial	Loud Music/Party	Clut
300678	30282979	03/29/2015 12:50:12 AM	03/29/2015 07:06:29 AM	NYPD	New York City Police Department	Noise - Vehicle	Car/Truck Music	
300679	30281254	03/29/2015 12:49:51 AM	03/29/2015 02:02:21 AM	NYPD	New York City Police Department	Blocked Driveway	No Access	
300680	30281090	03/29/2015 12:49:27 AM	03/29/2015 04:25:53 AM	NYPD	New York City Police Department	Noise - Vehicle	Car/Truck Music	
300681	30283933	03/29/2015 12:48:23 AM	03/29/2015 03:42:33 AM	NYPD	New York City Police Department	Noise - Street/Sidewalk	Loud Music/Party	
300682	30283186	03/29/2015 12:46:26 AM	03/29/2015 07:12:20 AM	NYPD	New York City Police Department	Noise - Commercial	Loud Music/Party	Clut
300683	30284534	03/29/2015 12:44:36 AM	03/29/2015 03:40:20 AM	NYPD	New York City Police Department	Noise - Street/Sidewalk	Loud Talking	
300684	30281081	03/29/2015 12:43:20 AM	03/29/2015 01:10:55 AM	NYPD	New York City Police Department	Noise - Commercial	Loud Music/Party	Si
300685	30280506	03/29/2015 12:43:16 AM	03/29/2015 04:25:50 AM	NYPD	New York City Police Department	Noise - Vehicle	Car/Truck Music	
300686	30281145	03/29/2015 12:43:06 AM	03/29/2015 12:57:23 AM	NYPD	New York City Police Department	Noise - Commercial	Loud Music/Party	Si

	Unique Key	Created Date	Closed Date	Agency	Agency Name	Complaint Type	Descriptor	
300687	30282599	03/29/2015 12:42:48 AM	03/29/2015 02:57:41 AM	NYPD	New York City Police Department	Blocked Driveway	No Access	
300688	30280732	03/29/2015 12:37:15 AM	03/29/2015 01:02:39 AM	NYPD	New York City Police Department	Noise - Commercial	Loud Music/Party	Clut
300689	30283432	03/29/2015 12:35:28 AM	03/29/2015 04:14:27 AM	NYPD	New York City Police Department	Noise - Street/Sidewalk	Loud Music/Party	
300690	30280538	03/29/2015 12:35:23 AM	03/29/2015 08:41:24 AM	NYPD	New York City Police Department	Illegal Parking	Commercial Overnight Parking	
300691	30279999	03/29/2015 12:35:04 AM	03/29/2015 02:52:28 AM	NYPD	New York City Police Department	Noise - Commercial	Loud Music/Party	Si
300692	30281370	03/29/2015 12:34:32 AM	03/29/2015 01:13:01 AM	NYPD	New York City Police Department	Noise - Commercial	Loud Music/Party	Si
300693	30281872	03/29/2015 12:33:41 AM	NaN	NYPD	New York City Police Department	Noise - Commercial	Loud Music/Party	Clut
300694	30281230	03/29/2015 12:33:28 AM	03/29/2015 02:33:59 AM	NYPD	New York City Police Department	Blocked Driveway	Partial Access	
300695	30283424	03/29/2015 12:33:03 AM	03/29/2015 03:40:20 AM	NYPD	New York City Police Department	Noise - Commercial	Loud Music/Party	Clut
300696	30280004	03/29/2015 12:33:02 AM	03/29/2015 04:38:35 AM	NYPD	New York City Police Department	Noise - Commercial	Loud Music/Party	Clut
300697	30281825	03/29/2015 12:33:01 AM	03/29/2015 04:41:50 AM	NYPD	New York City Police Department	Noise - Commercial	Loud Music/Party	Si

300698 rows × 53 columns



In [22]: `nyc.info()`


```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 300698 entries, 0 to 300697
Data columns (total 53 columns):
Unique Key                300698 non-null int64
Created Date              300698 non-null object
Closed Date              298534 non-null object
Agency                  300698 non-null object
Agency Name             300698 non-null object
Complaint Type           300698 non-null object
Descriptor               294784 non-null object
Location Type            300567 non-null object
Incident Zip             298083 non-null float64
Incident Address         256288 non-null object
Street Name              256288 non-null object
Cross Street 1           251419 non-null object
Cross Street 2           250919 non-null object
Intersection Street 1    43858 non-null object
Intersection Street 2    43362 non-null object
Address Type             297883 non-null object
City                     298084 non-null object
Landmark                 349 non-null object
Facility Type            298527 non-null object
Status                   300698 non-null object
Due Date                 300695 non-null object
Resolution Description    300698 non-null object
Resolution Action Updated Date 298511 non-null object
Community Board          300698 non-null object
Borough                  300698 non-null object
X Coordinate (State Plane) 297158 non-null float64
Y Coordinate (State Plane) 297158 non-null float64
Park Facility Name       300698 non-null object
Park Borough             300698 non-null object
School Name              300698 non-null object
School Number            300698 non-null object
School Region            300697 non-null object
School Code              300697 non-null object
School Phone Number      300698 non-null object
School Address           300698 non-null object
School City              300698 non-null object
School State             300698 non-null object
School Zip               300697 non-null object
School Not Found         300698 non-null object
School or Citywide Complaint 0 non-null float64
Vehicle Type             0 non-null float64
Taxi Company Borough     0 non-null float64
Taxi Pick Up Location     0 non-null float64
Bridge Highway Name       243 non-null object
Bridge Highway Direction  243 non-null object
Road Ramp                213 non-null object
Bridge Highway Segment    213 non-null object
Garage Lot Name           0 non-null float64
Ferry Direction          1 non-null object
Ferry Terminal Name       2 non-null object
Latitude                 297158 non-null float64
Longitude                297158 non-null float64
Location                 297158 non-null object

```

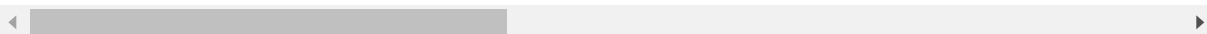
dtypes: float64(10), int64(1), object(42)
memory usage: 121.6+ MB

```
In [4]: #dropping all null columns to make it easy !
nyc1=nyc.drop(["Garage Lot Name","Taxi Pick Up Location","Taxi Company Borough",
"Vehicle Type","School or Citywide Complaint"],axis=1)
nyc1.head()
```

Out[4]:

	Unique Key	Created Date	Closed Date	Agency	Agency Name	Complaint Type	Descriptor	Location Type
0	32310363	12/31/2015 11:59:45 PM	01-01-16 0:55	NYPD	New York City Police Department	Noise - Street/Sidewalk	Loud Music/Party	Street/Sidewalk
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
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
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
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

5 rows × 48 columns



```
In [5]: nyc1.describe()
```

Out[5]:

	Unique Key	Incident Zip	X Coordinate (State Plane)	Y Coordinate (State Plane)	Latitude	Longitude
count	3.006980e+05	298083.000000	2.971580e+05	297158.000000	297158.000000	297158.000000
mean	3.130054e+07	10848.888645	1.004854e+06	203754.534416	40.725885	-73.925630
std	5.738547e+05	583.182081	2.175338e+04	29880.183529	0.082012	0.078454
min	3.027948e+07	83.000000	9.133570e+05	121219.000000	40.499135	-74.254937
25%	3.080118e+07	10310.000000	9.919752e+05	183343.000000	40.669796	-73.972142
50%	3.130436e+07	11208.000000	1.003158e+06	201110.500000	40.718661	-73.931781
75%	3.178446e+07	11238.000000	1.018372e+06	224125.250000	40.781840	-73.876805
max	3.231065e+07	11697.000000	1.067173e+06	271876.000000	40.912869	-73.700760



```
In [6]: nyc1.index.values
```

Out[6]: array([0, 1, 2, ..., 300695, 300696, 300697], dtype=int64)

```
In [7]: nyc1.columns.values
```

```
Out[7]: array(['Unique Key', 'Created Date', 'Closed Date', 'Agency',  
              'Agency Name', 'Complaint Type', 'Descriptor', 'Location Type',  
              'Incident Zip', 'Incident Address', 'Street Name',  
              'Cross Street 1', 'Cross Street 2', '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',  
              'Bridge Highway Name', 'Bridge Highway Direction', 'Road Ramp',  
              'Bridge Highway Segment', 'Ferry Direction', 'Ferry Terminal Name',  
              'Latitude', 'Longitude', 'Location'], dtype=object)
```

In [8]: nyc1.info

```

Out[8]: <bound method DataFrame.info of          Unique Key          Created Date
Closed Date Agency \
0      32310363 12/31/2015 11:59:45 PM          01-01-16 0:55      NYPD
1      32309934 12/31/2015 11:59:44 PM          01-01-16 1:26      NYPD
2      32309159 12/31/2015 11:59:29 PM          01-01-16 4:51      NYPD
3      32305098 12/31/2015 11:57:46 PM          01-01-16 7:43      NYPD
4      32306529 12/31/2015 11:56:58 PM          01-01-16 3:24      NYPD
5      32306554 12/31/2015 11:56:30 PM          01-01-16 1:50      NYPD
6      32306559 12/31/2015 11:55:32 PM          01-01-16 1:53      NYPD
7      32307009 12/31/2015 11:54:05 PM          01-01-16 1:42      NYPD
8      32308581 12/31/2015 11:53:58 PM          01-01-16 8:27      NYPD
9      32308391 12/31/2015 11:53:58 PM          01-01-16 1:17      NYPD
10     32305071 12/31/2015 11:52:58 PM          01-01-16 7:41      NYPD
11     32306260 12/31/2015 11:50:57 PM          01-01-16 10:58     NYPD
12     32306612 12/31/2015 11:48:03 PM          01-01-16 2:17      NYPD
13     32305074 12/31/2015 11:47:58 PM          01-01-16 8:18      NYPD
14     32309424 12/31/2015 11:47:37 PM          01-01-16 10:17     NYPD
15     32309853 12/31/2015 11:47:30 PM          01-01-16 15:20     NYPD
16     32305538 12/31/2015 11:47:02 PM          01-01-16 4:39      NYPD
17     32310273 12/31/2015 11:44:52 PM          01-01-16 0:36      NYPD
18     32306617 12/31/2015 11:40:59 PM          01-01-16 2:37      NYPD
19     32308195 12/31/2015 11:40:55 PM          01-01-16 0:28      NYPD
20     32310127 12/31/2015 11:40:43 PM          01-01-16 4:12      NYPD
21     32307994 12/31/2015 11:38:51 PM          01-01-16 9:11      NYPD
22     32307233 12/31/2015 11:34:18 PM          01-01-16 0:50      NYPD
23     32308765 12/31/2015 11:32:46 PM          01-01-16 0:25      NYPD
24     32308423 12/31/2015 11:31:40 PM          01-03-16 16:22     NYPD
25     32308426 12/31/2015 11:30:28 PM          01-01-16 2:47      NYPD
26     32305916 12/31/2015 11:26:41 PM 12/31/2015 11:53:31 PM NYPD
27     32308379 12/31/2015 11:26:35 PM          01-01-16 5:07      NYPD
28     32309402 12/31/2015 11:25:56 PM          01-01-16 1:12      NYPD
29     32308850 12/31/2015 11:25:01 PM          01-01-16 1:55      NYPD
...
300668 30282107 03/29/2015 01:03:20 AM 03/29/2015 03:40:19 AM NYPD
300669 30283741 03/29/2015 01:02:05 AM 03/29/2015 05:26:38 AM NYPD
300670 30284125 03/29/2015 01:01:25 AM 03/29/2015 09:26:52 AM NYPD
300671 30283901 03/29/2015 12:58:08 AM 03/29/2015 04:44:02 AM NYPD
300672 30282374 03/29/2015 12:57:27 AM 03/29/2015 04:39:53 PM NYPD
300673 30280817 03/29/2015 12:57:25 AM 03/29/2015 02:25:31 AM NYPD
300674 30283364 03/29/2015 12:57:19 AM 03/29/2015 03:17:59 AM NYPD
300675 30280353 03/29/2015 12:56:22 AM 03/29/2015 01:57:52 AM NYPD
300676 30280974 03/29/2015 12:55:56 AM 03/29/2015 08:08:27 AM NYPD
300677 30280622 03/29/2015 12:55:33 AM 03/29/2015 07:12:39 AM NYPD
300678 30282979 03/29/2015 12:50:12 AM 03/29/2015 07:06:29 AM NYPD
300679 30281254 03/29/2015 12:49:51 AM 03/29/2015 02:02:21 AM NYPD
300680 30281090 03/29/2015 12:49:27 AM 03/29/2015 04:25:53 AM NYPD
300681 30283933 03/29/2015 12:48:23 AM 03/29/2015 03:42:33 AM NYPD
300682 30283186 03/29/2015 12:46:26 AM 03/29/2015 07:12:20 AM NYPD
300683 30284534 03/29/2015 12:44:36 AM 03/29/2015 03:40:20 AM NYPD
300684 30281081 03/29/2015 12:43:20 AM 03/29/2015 01:10:55 AM NYPD
300685 30280506 03/29/2015 12:43:16 AM 03/29/2015 04:25:50 AM NYPD
300686 30281145 03/29/2015 12:43:06 AM 03/29/2015 12:57:23 AM NYPD
300687 30282599 03/29/2015 12:42:48 AM 03/29/2015 02:57:41 AM NYPD
300688 30280732 03/29/2015 12:37:15 AM 03/29/2015 01:02:39 AM NYPD
300689 30283432 03/29/2015 12:35:28 AM 03/29/2015 04:14:27 AM NYPD
300690 30280538 03/29/2015 12:35:23 AM 03/29/2015 08:41:24 AM NYPD
300691 30279999 03/29/2015 12:35:04 AM 03/29/2015 02:52:28 AM NYPD

```

300692	30281370	03/29/2015	12:34:32 AM	03/29/2015	01:13:01 AM	NYPD
300693	30281872	03/29/2015	12:33:41 AM		NaN	NYPD
300694	30281230	03/29/2015	12:33:28 AM	03/29/2015	02:33:59 AM	NYPD
300695	30283424	03/29/2015	12:33:03 AM	03/29/2015	03:40:20 AM	NYPD
300696	30280004	03/29/2015	12:33:02 AM	03/29/2015	04:38:35 AM	NYPD
300697	30281825	03/29/2015	12:33:01 AM	03/29/2015	04:41:50 AM	NYPD

	Agency Name	Complaint Type \
0	New York City Police Department	Noise - Street/Sidewalk
1	New York City Police Department	Blocked Driveway
2	New York City Police Department	Blocked Driveway
3	New York City Police Department	Illegal Parking
4	New York City Police Department	Illegal Parking
5	New York City Police Department	Illegal Parking
6	New York City Police Department	Illegal Parking
7	New York City Police Department	Blocked Driveway
8	New York City Police Department	Illegal Parking
9	New York City Police Department	Blocked Driveway
10	New York City Police Department	Blocked Driveway
11	New York City Police Department	Blocked Driveway
12	New York City Police Department	Noise - Street/Sidewalk
13	New York City Police Department	Illegal Parking
14	New York City Police Department	Derelict Vehicle
15	New York City Police Department	Blocked Driveway
16	New York City Police Department	Blocked Driveway
17	New York City Police Department	Noise - Commercial
18	New York City Police Department	Noise - Commercial
19	New York City Police Department	Noise - Street/Sidewalk
20	New York City Police Department	Illegal Parking
21	New York City Police Department	Illegal Parking
22	New York City Police Department	Noise - Commercial
23	New York City Police Department	Illegal Parking
24	New York City Police Department	Blocked Driveway
25	New York City Police Department	Blocked Driveway
26	New York City Police Department	Noise - House of Worship
27	New York City Police Department	Blocked Driveway
28	New York City Police Department	Illegal Parking
29	New York City Police Department	Noise - Commercial
...
300668	New York City Police Department	Noise - Commercial
300669	New York City Police Department	Noise - Street/Sidewalk
300670	New York City Police Department	Illegal Parking
300671	New York City Police Department	Illegal Parking
300672	New York City Police Department	Blocked Driveway
300673	New York City Police Department	Noise - Commercial
300674	New York City Police Department	Noise - Street/Sidewalk
300675	New York City Police Department	Noise - Street/Sidewalk
300676	New York City Police Department	Noise - Commercial
300677	New York City Police Department	Noise - Commercial
300678	New York City Police Department	Noise - Vehicle
300679	New York City Police Department	Blocked Driveway
300680	New York City Police Department	Noise - Vehicle
300681	New York City Police Department	Noise - Street/Sidewalk
300682	New York City Police Department	Noise - Commercial
300683	New York City Police Department	Noise - Street/Sidewalk
300684	New York City Police Department	Noise - Commercial
300685	New York City Police Department	Noise - Vehicle

300686	New York City Police Department	Noise - Commercial
300687	New York City Police Department	Blocked Driveway
300688	New York City Police Department	Noise - Commercial
300689	New York City Police Department	Noise - Street/Sidewalk
300690	New York City Police Department	Illegal Parking
300691	New York City Police Department	Noise - Commercial
300692	New York City Police Department	Noise - Commercial
300693	New York City Police Department	Noise - Commercial
300694	New York City Police Department	Blocked Driveway
300695	New York City Police Department	Noise - Commercial
300696	New York City Police Department	Noise - Commercial
300697	New York City Police Department	Noise - Commercial

	Descriptor	Location Type	Incident Zip \
0	Loud Music/Party	Street/Sidewalk	10034.0
1	No Access	Street/Sidewalk	11105.0
2	No Access	Street/Sidewalk	10458.0
3	Commercial Overnight Parking	Street/Sidewalk	10461.0
4	Blocked Sidewalk	Street/Sidewalk	11373.0
5	Posted Parking Sign Violation	Street/Sidewalk	11215.0
6	Blocked Hydrant	Street/Sidewalk	10032.0
7	No Access	Street/Sidewalk	10457.0
8	Posted Parking Sign Violation	Street/Sidewalk	11415.0
9	No Access	Street/Sidewalk	11219.0
10	No Access	Street/Sidewalk	11372.0
11	No Access	Street/Sidewalk	10453.0
12	Loud Music/Party	Street/Sidewalk	10461.0
13	Posted Parking Sign Violation	Street/Sidewalk	11208.0
14	With License Plate	Street/Sidewalk	11379.0
15	Partial Access	Street/Sidewalk	11374.0
16	No Access	Street/Sidewalk	11412.0
17	Loud Music/Party	Club/Bar/Restaurant	11217.0
18	Loud Music/Party	Club/Bar/Restaurant	11234.0
19	Loud Music/Party	Street/Sidewalk	10026.0
20	Unauthorized Bus Layover	Street/Sidewalk	10456.0
21	Posted Parking Sign Violation	Street/Sidewalk	11379.0
22	Loud Music/Party	Store/Commercial	11234.0
23	Double Parked Blocking Vehicle	Street/Sidewalk	10030.0
24	No Access	Street/Sidewalk	10467.0
25	No Access	Street/Sidewalk	11432.0
26	Loud Music/Party	House of Worship	10031.0
27	No Access	Street/Sidewalk	11419.0
28	Posted Parking Sign Violation	Street/Sidewalk	10024.0
29	Loud Music/Party	Club/Bar/Restaurant	11201.0
...
300668	Loud Music/Party	Club/Bar/Restaurant	11216.0
300669	Loud Music/Party	Street/Sidewalk	10031.0
300670	Blocked Hydrant	Street/Sidewalk	11354.0
300671	Blocked Hydrant	Street/Sidewalk	10019.0
300672	No Access	Street/Sidewalk	11208.0
300673	Loud Music/Party	Club/Bar/Restaurant	11203.0
300674	Loud Music/Party	Street/Sidewalk	10025.0
300675	Loud Music/Party	Street/Sidewalk	10031.0
300676	Loud Music/Party	Store/Commercial	11377.0
300677	Loud Music/Party	Club/Bar/Restaurant	11237.0
300678	Car/Truck Music	Street/Sidewalk	11206.0
300679	No Access	Street/Sidewalk	11385.0

300680	Car/Truck Music	Street/Sidewalk	10028.0
300681	Loud Music/Party	Street/Sidewalk	11238.0
300682	Loud Music/Party	Club/Bar/Restaurant	11249.0
300683	Loud Talking	Street/Sidewalk	11238.0
300684	Loud Music/Party	Store/Commercial	10002.0
300685	Car/Truck Music	Street/Sidewalk	10028.0
300686	Loud Music/Party	Store/Commercial	10014.0
300687	No Access	Street/Sidewalk	11385.0
300688	Loud Music/Party	Club/Bar/Restaurant	10014.0
300689	Loud Music/Party	Street/Sidewalk	11233.0
300690	Commercial Overnight Parking	Street/Sidewalk	10466.0
300691	Loud Music/Party	Store/Commercial	10034.0
300692	Loud Music/Party	Store/Commercial	10002.0
300693	Loud Music/Party	Club/Bar/Restaurant	NaN
300694	Partial Access	Street/Sidewalk	11418.0
300695	Loud Music/Party	Club/Bar/Restaurant	11206.0
300696	Loud Music/Party	Club/Bar/Restaurant	10461.0
300697	Loud Music/Party	Store/Commercial	10036.0

	Incident Address	...	School Not Found	Bridge Highway Name
\				
0	71 VERMILYEA AVENUE	...	N	NaN
1	27-07 23 AVENUE	...	N	NaN
2	2897 VALENTINE AVENUE	...	N	NaN
3	2940 BAISLEY AVENUE	...	N	NaN
4	87-14 57 ROAD	...	N	NaN
5	260 21 STREET	...	N	NaN
6	524 WEST 169 STREET	...	N	NaN
7	501 EAST 171 STREET	...	N	NaN
8	83-44 LEFFERTS BOULEVARD	...	N	NaN
9	1408 66 STREET	...	N	NaN
10	34-06 73 STREET	...	N	NaN
11	1770 UNDERCLIFF AVENUE	...	N	NaN
12	1701 PILGRIM AVENUE	...	N	NaN
13	38 COX PLACE	...	N	NaN
14	62-13 62 AVENUE	...	N	NaN
15	61-34 AUSTIN STREET	...	N	NaN
16	192-05 LINDEN BOULEVARD	...	N	NaN
17	622 DEGRAW STREET	...	N	NaN
18	2192 FLATBUSH AVENUE	...	N	NaN
19	264 WEST 118 STREET	...	N	NaN
20	1417 WEBSTER AVENUE	...	N	NaN
21	78-42 METROPOLITAN AVENUE	...	N	NaN
22	3622 QUENTIN ROAD	...	N	NaN
23	133 WEST 134 STREET	...	N	NaN
24	3025 WALLACE AVENUE	...	N	NaN
25	175-18 90 AVENUE	...	N	NaN
26	452 WEST 147 STREET	...	N	NaN
27	103-28 118 STREET	...	N	NaN
28	131 WEST 86 STREET	...	N	NaN
29	216 DUFFIELD STREET	...	N	NaN
...
300668	305 HALSEY STREET	...	N	NaN
300669	NaN	...	N	NaN
300670	33-16 143 STREET	...	N	NaN
300671	446 WEST 49 STREET	...	N	NaN
300672	326 MCKINLEY AVENUE	...	N	NaN

300673	196 EAST 51 STREET	...	N	NaN
300674	220 WEST 107 STREET	...	N	NaN
300675	501 WEST 139 STREET	...	N	NaN
300676	50 STREET	...	N	NaN
300677	302 IRVING AVENUE	...	N	NaN
300678	29 LOCUST STREET	...	N	NaN
300679	1912 GROVE STREET	...	N	NaN
300680	420 EAST 86 STREET	...	N	NaN
300681	799 DEAN STREET	...	N	NaN
300682	98A SOUTH 4 STREET	...	N	NaN
300683	801 DEAN STREET	...	N	NaN
300684	9 STANTON STREET	...	N	NaN
300685	415 EAST 86 STREET	...	N	NaN
300686	185 CHRISTOPHER STREET	...	N	NaN
300687	77-03 79 PLACE	...	N	NaN
300688	22 9 AVENUE	...	N	NaN
300689	120 CHAUNCEY STREET	...	N	NaN
300690	NaN	...	N	NaN
300691	97 SHERMAN AVENUE	...	N	NaN
300692	81 HESTER STREET	...	N	NaN
300693	CRESCENT AVENUE	...	N	NaN
300694	100-17 87 AVENUE	...	N	NaN
300695	162 THROOP AVENUE	...	N	NaN
300696	3151 EAST TREMONT AVENUE	...	N	NaN
300697	251 WEST 48 STREET	...	N	NaN

	Bridge Highway Direction	Road Ramp	Bridge Highway Segment \
0	NaN	NaN	NaN
1	NaN	NaN	NaN
2	NaN	NaN	NaN
3	NaN	NaN	NaN
4	NaN	NaN	NaN
5	NaN	NaN	NaN
6	NaN	NaN	NaN
7	NaN	NaN	NaN
8	NaN	NaN	NaN
9	NaN	NaN	NaN
10	NaN	NaN	NaN
11	NaN	NaN	NaN
12	NaN	NaN	NaN
13	NaN	NaN	NaN
14	NaN	NaN	NaN
15	NaN	NaN	NaN
16	NaN	NaN	NaN
17	NaN	NaN	NaN
18	NaN	NaN	NaN
19	NaN	NaN	NaN
20	NaN	NaN	NaN
21	NaN	NaN	NaN
22	NaN	NaN	NaN
23	NaN	NaN	NaN
24	NaN	NaN	NaN
25	NaN	NaN	NaN
26	NaN	NaN	NaN
27	NaN	NaN	NaN
28	NaN	NaN	NaN
29	NaN	NaN	NaN

...
300668	NaN	NaN	NaN
300669	NaN	NaN	NaN
300670	NaN	NaN	NaN
300671	NaN	NaN	NaN
300672	NaN	NaN	NaN
300673	NaN	NaN	NaN
300674	NaN	NaN	NaN
300675	NaN	NaN	NaN
300676	NaN	NaN	NaN
300677	NaN	NaN	NaN
300678	NaN	NaN	NaN
300679	NaN	NaN	NaN
300680	NaN	NaN	NaN
300681	NaN	NaN	NaN
300682	NaN	NaN	NaN
300683	NaN	NaN	NaN
300684	NaN	NaN	NaN
300685	NaN	NaN	NaN
300686	NaN	NaN	NaN
300687	NaN	NaN	NaN
300688	NaN	NaN	NaN
300689	NaN	NaN	NaN
300690	NaN	NaN	NaN
300691	NaN	NaN	NaN
300692	NaN	NaN	NaN
300693	NaN	NaN	NaN
300694	NaN	NaN	NaN
300695	NaN	NaN	NaN
300696	NaN	NaN	NaN
300697	NaN	NaN	NaN

	Ferry Direction	Ferry Terminal	Name	Latitude	Longitude	\
0	NaN		NaN	40.865682	-73.923501	
1	NaN		NaN	40.775945	-73.915094	
2	NaN		NaN	40.870325	-73.888525	
3	NaN		NaN	40.835994	-73.828379	
4	NaN		NaN	40.733060	-73.874170	
5	NaN		NaN	40.660823	-73.992568	
6	NaN		NaN	40.840848	-73.937375	
7	NaN		NaN	40.837503	-73.902905	
8	NaN		NaN	40.704977	-73.832605	
9	NaN		NaN	40.623793	-73.999539	
10	NaN		NaN	40.752600	-73.893363	
11	NaN		NaN	40.851555	-73.919997	
12	NaN		NaN	40.845545	-73.833585	
13	NaN		NaN	40.687511	-73.874505	
14	NaN		NaN	40.714093	-73.899384	
15	NaN		NaN	40.729679	-73.870417	
16	NaN		NaN	40.692520	-73.759264	
17	NaN		NaN	40.679154	-73.983430	
18	NaN		NaN	40.616550	-73.930202	
19	NaN		NaN	40.805267	-73.953353	
20	NaN		NaN	40.836727	-73.907106	
21	NaN		NaN	40.713198	-73.874139	
22	NaN		NaN	40.614784	-73.936568	
23	NaN		NaN	40.814002	-73.942664	

24	NaN	NaN	40.870063	-73.864322
25	NaN	NaN	40.709827	-73.786257
26	NaN	NaN	40.826102	-73.945663
27	NaN	NaN	40.687117	-73.825597
28	NaN	NaN	40.786930	-73.973202
29	NaN	NaN	40.691599	-73.984379
...
300668	NaN	NaN	40.682906	-73.940357
300669	NaN	NaN	40.821446	-73.950379
300670	NaN	NaN	40.767869	-73.826216
300671	NaN	NaN	40.763425	-73.990766
300672	NaN	NaN	40.681068	-73.863917
300673	NaN	NaN	40.657327	-73.929979
300674	NaN	NaN	40.801410	-73.965947
300675	NaN	NaN	40.821561	-73.950631
300676	NaN	NaN	40.743181	-73.914894
300677	NaN	NaN	40.698976	-73.914319
300678	NaN	NaN	40.699334	-73.937486
300679	NaN	NaN	40.706475	-73.907504
300680	NaN	NaN	40.776591	-73.948719
300681	NaN	NaN	40.679237	-73.963355
300682	NaN	NaN	40.712285	-73.964001
300683	NaN	NaN	40.679226	-73.963309
300684	NaN	NaN	40.722621	-73.992435
300685	NaN	NaN	40.776646	-73.948805
300686	NaN	NaN	40.732486	-74.009688
300687	NaN	NaN	40.706353	-73.871245
300688	NaN	NaN	40.740361	-74.005781
300689	NaN	NaN	40.680399	-73.929417
300690	NaN	NaN	40.900403	-73.840809
300691	NaN	NaN	40.863805	-73.925358
300692	NaN	NaN	40.716053	-73.991378
300693	NaN	NaN	NaN	NaN
300694	NaN	NaN	40.694077	-73.846087
300695	NaN	NaN	40.699590	-73.944234
300696	NaN	NaN	40.837708	-73.834587
300697	NaN	NaN	40.760583	-73.985922

Location

0	(40.86568153633767, -73.92350095571744)
1	(40.775945312321085, -73.91509393898605)
2	(40.870324522111424, -73.88852464418646)
3	(40.83599404683083, -73.82837939584206)
4	(40.733059618956815, -73.87416975810375)
5	(40.66082272389114, -73.99256786342693)
6	(40.840847591440415, -73.9373750864581)
7	(40.83750262540012, -73.90290517326568)
8	(40.704977164399935, -73.8326047502584)
9	(40.623793065806524, -73.99953890121567)
10	(40.752599671969676, -73.8933632141368)
11	(40.85155492779258, -73.91999651358469)
12	(40.845545043640215, -73.83358471831198)
13	(40.68751060232221, -73.87450451131276)
14	(40.71409341858147, -73.89938394187791)
15	(40.72967940444622, -73.87041654016662)
16	(40.69252034680599, -73.75926357603389)
17	(40.679154133157326, -73.98342992763081)

```
18      (40.61655032892211, -73.93020153359745)
19      (40.80526715877265, -73.9533526205901)
20      (40.83672658684552, -73.90710561784778)
21      (40.713198496024376, -73.87413871579652)
22      (40.61478362623815, -73.93656784825214)
23      (40.814001537165495, -73.94266395083876)
24      (40.87006255915965, -73.86432172842636)
25      (40.70982729683097, -73.78625714739626)
26      (40.826101709196, -73.94566339279595)
27      (40.68711749970851, -73.8255967145633)
28      (40.78693045941381, -73.9732015755585)
29      (40.691599059545375, -73.98437881826075)
...
300668 (40.68290569745191, -73.94035735919954)
300669 (40.82144605015569, -73.95037859121894)
300670 (40.767869319511156, -73.82621558171721)
300671 (40.76342452850363, -73.99076591082245)
300672 (40.68106756068015, -73.8639166657132)
300673 (40.65732675940293, -73.92997866259482)
300674 (40.80140973782622, -73.96594656979163)
300675 (40.82156143682672, -73.95063141802162)
300676 (40.74318114209432, -73.91489390486979)
300677 (40.698976356744375, -73.91431921502723)
300678 (40.699334367421585, -73.93748637968389)
300679 (40.70647527382003, -73.90750353701854)
300680 (40.776590982604596, -73.94871864443712)
300681 (40.679237323783724, -73.96335543308066)
300682 (40.712284534374824, -73.96400097454304)
300683 (40.67922632975442, -73.96330856984594)
300684 (40.722621191327846, -73.99243470311887)
300685 (40.77664591586459, -73.94880525662063)
300686 (40.73248568650513, -74.00968804444769)
300687 (40.70635259429073, -73.8712445609601)
300688 (40.74036064515079, -74.00578103597579)
300689 (40.6803990181202, -73.92941723335176)
300690 (40.90040252667784, -73.84080863767632)
300691 (40.863805379005, -73.92535778152539)
300692 (40.71605290789855, -73.99137850370803)
300693                                     NaN
300694 (40.69407728322387, -73.8460866160573)
300695 (40.69959035300927, -73.94423377144169)
300696 (40.8377075854206, -73.83458731019586)
300697 (40.76058322950115, -73.98592204392392)
```

```
[300698 rows x 48 columns]>
```



```
In [9]: # Display the complaint type and city together  
nyc1.loc[:, ['Complaint Type', 'City']]
```

Out[9]:

	Complaint Type	City
0	Noise - Street/Sidewalk	NEW YORK
1	Blocked Driveway	ASTORIA
2	Blocked Driveway	BRONX
3	Illegal Parking	BRONX
4	Illegal Parking	ELMHURST
5	Illegal Parking	BROOKLYN
6	Illegal Parking	NEW YORK
7	Blocked Driveway	BRONX
8	Illegal Parking	KEW GARDENS
9	Blocked Driveway	BROOKLYN
10	Blocked Driveway	JACKSON HEIGHTS
11	Blocked Driveway	BRONX
12	Noise - Street/Sidewalk	BRONX
13	Illegal Parking	BROOKLYN
14	Derelict Vehicle	MIDDLE VILLAGE
15	Blocked Driveway	REGO PARK
16	Blocked Driveway	SAINT ALBANS
17	Noise - Commercial	BROOKLYN
18	Noise - Commercial	BROOKLYN
19	Noise - Street/Sidewalk	NEW YORK
20	Illegal Parking	BRONX
21	Illegal Parking	MIDDLE VILLAGE
22	Noise - Commercial	BROOKLYN
23	Illegal Parking	NEW YORK
24	Blocked Driveway	BRONX
25	Blocked Driveway	JAMAICA
26	Noise - House of Worship	NEW YORK
27	Blocked Driveway	SOUTH RICHMOND HILL
28	Illegal Parking	NEW YORK
29	Noise - Commercial	BROOKLYN
...
300668	Noise - Commercial	BROOKLYN
300669	Noise - Street/Sidewalk	NEW YORK
300670	Illegal Parking	FLUSHING
300671	Illegal Parking	NEW YORK

	Complaint Type	City
300672	Blocked Driveway	BROOKLYN
300673	Noise - Commercial	BROOKLYN
300674	Noise - Street/Sidewalk	NEW YORK
300675	Noise - Street/Sidewalk	NEW YORK
300676	Noise - Commercial	WOODSIDE
300677	Noise - Commercial	BROOKLYN
300678	Noise - Vehicle	BROOKLYN
300679	Blocked Driveway	RIDGEWOOD
300680	Noise - Vehicle	NEW YORK
300681	Noise - Street/Sidewalk	BROOKLYN
300682	Noise - Commercial	BROOKLYN
300683	Noise - Street/Sidewalk	BROOKLYN
300684	Noise - Commercial	NEW YORK
300685	Noise - Vehicle	NEW YORK
300686	Noise - Commercial	NEW YORK
300687	Blocked Driveway	RIDGEWOOD
300688	Noise - Commercial	NEW YORK
300689	Noise - Street/Sidewalk	BROOKLYN
300690	Illegal Parking	BRONX
300691	Noise - Commercial	NEW YORK
300692	Noise - Commercial	NEW YORK
300693	Noise - Commercial	NaN
300694	Blocked Driveway	RICHMOND HILL
300695	Noise - Commercial	BROOKLYN
300696	Noise - Commercial	BRONX
300697	Noise - Commercial	NEW YORK

300698 rows × 2 columns

```
In [10]: # Find major complaint types  
major=nyc1.loc[:, "Complaint Type"]  
major
```



```
Out[10]: 0      Noise - Street/Sidewalk
        1      Blocked Driveway
        2      Blocked Driveway
        3      Illegal Parking
        4      Illegal Parking
        5      Illegal Parking
        6      Illegal Parking
        7      Blocked Driveway
        8      Illegal Parking
        9      Blocked Driveway
       10      Blocked Driveway
       11      Blocked Driveway
       12      Noise - Street/Sidewalk
       13      Illegal Parking
       14      Derelict Vehicle
       15      Blocked Driveway
       16      Blocked Driveway
       17      Noise - Commercial
       18      Noise - Commercial
       19      Noise - Street/Sidewalk
       20      Illegal Parking
       21      Illegal Parking
       22      Noise - Commercial
       23      Illegal Parking
       24      Blocked Driveway
       25      Blocked Driveway
       26      Noise - House of Worship
       27      Blocked Driveway
       28      Illegal Parking
       29      Noise - Commercial
          ...
    300668      Noise - Commercial
    300669      Noise - Street/Sidewalk
    300670      Illegal Parking
    300671      Illegal Parking
    300672      Blocked Driveway
    300673      Noise - Commercial
    300674      Noise - Street/Sidewalk
    300675      Noise - Street/Sidewalk
    300676      Noise - Commercial
    300677      Noise - Commercial
    300678      Noise - Vehicle
    300679      Blocked Driveway
    300680      Noise - Vehicle
    300681      Noise - Street/Sidewalk
    300682      Noise - Commercial
    300683      Noise - Street/Sidewalk
    300684      Noise - Commercial
    300685      Noise - Vehicle
    300686      Noise - Commercial
    300687      Blocked Driveway
    300688      Noise - Commercial
    300689      Noise - Street/Sidewalk
    300690      Illegal Parking
    300691      Noise - Commercial
    300692      Noise - Commercial
    300693      Noise - Commercial
```

```

300694          Blocked Driveway
300695          Noise - Commercial
300696          Noise - Commercial
300697          Noise - Commercial
Name: Complaint Type, Length: 300698, dtype: object

```

```
In [11]: major.unique()
```

```

Out[11]: array(['Noise - Street/Sidewalk', 'Blocked Driveway', 'Illegal Parking',
               'Derelict Vehicle', 'Noise - Commercial',
               'Noise - House of Worship', 'Posting Advertisement',
               'Noise - Vehicle', 'Animal Abuse', 'Vending', 'Traffic',
               'Drinking', 'Bike/Roller/Skate Chronic', 'Panhandling',
               'Noise - Park', 'Homeless Encampment', 'Urinating in Public',
               'Graffiti', 'Disorderly Youth', 'Illegal Fireworks',
               'Ferry Complaint', 'Agency Issues', 'Squeegee', 'Animal in a Park'],
              dtype=object)

```

```
In [12]: major.nunique()
```

```
Out[12]: 24
```

```

In [13]: # major complaints are Blocked Driveway
         top=major.value_counts()
         top

```

```

Out[13]: Blocked Driveway          77044
         Illegal Parking          75361
         Noise - Street/Sidewalk  48612
         Noise - Commercial      35577
         Derelict Vehicle        17718
         Noise - Vehicle         17083
         Animal Abuse            7778
         Traffic                 4498
         Homeless Encampment     4416
         Noise - Park            4042
         Vending                 3802
         Drinking                1280
         Noise - House of Worship  931
         Posting Advertisement    650
         Urinating in Public     592
         Bike/Roller/Skate Chronic 427
         Panhandling             307
         Disorderly Youth        286
         Illegal Fireworks       168
         Graffiti               113
         Agency Issues           6
         Squeegee                4
         Ferry Complaint          2
         Animal in a Park         1
         Name: Complaint Type, dtype: int64

```

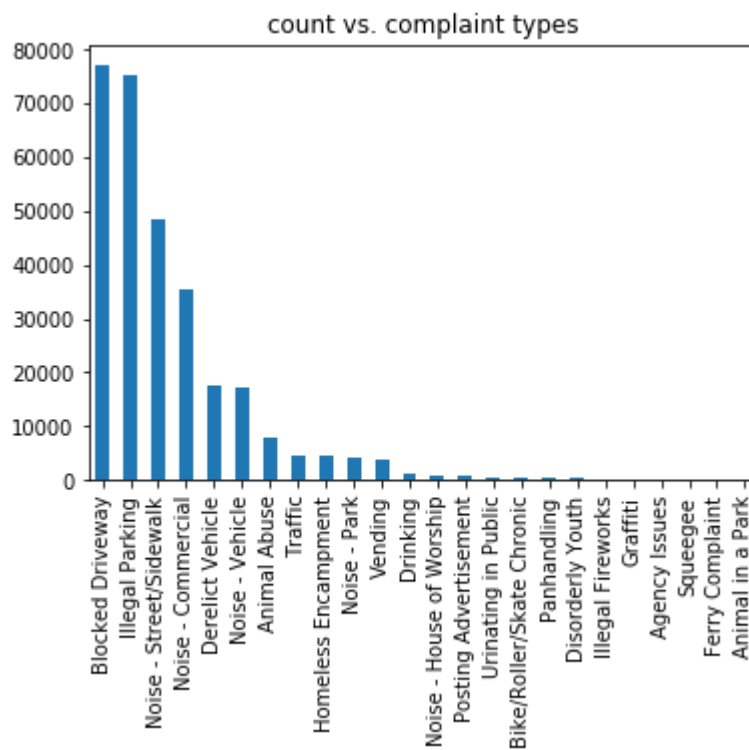
```
In [14]: # Find the top 10 complaint types
top.head(10)
```

```
Out[14]: Blocked Driveway          77044
Illegal Parking          75361
Noise - Street/Sidewalk  48612
Noise - Commercial      35577
Derelict Vehicle        17718
Noise - Vehicle         17083
Animal Abuse            7778
Traffic                 4498
Homeless Encampment     4416
Noise - Park            4042
Name: Complaint Type, dtype: int64
```

```
In [15]: # Plot a bar graph of count vs. complaint types
%matplotlib inline
```

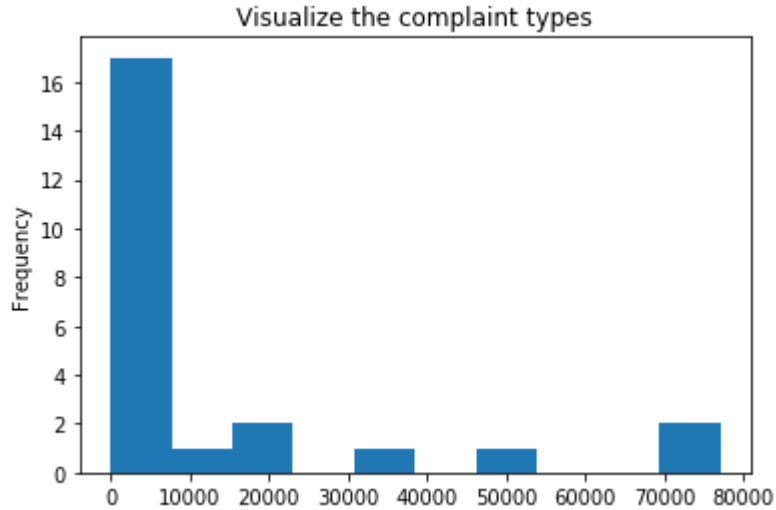
```
In [16]: major.value_counts().plot(kind='bar',title='count vs. complaint types')
```

```
Out[16]: <matplotlib.axes._subplots.AxesSubplot at 0x11667860>
```



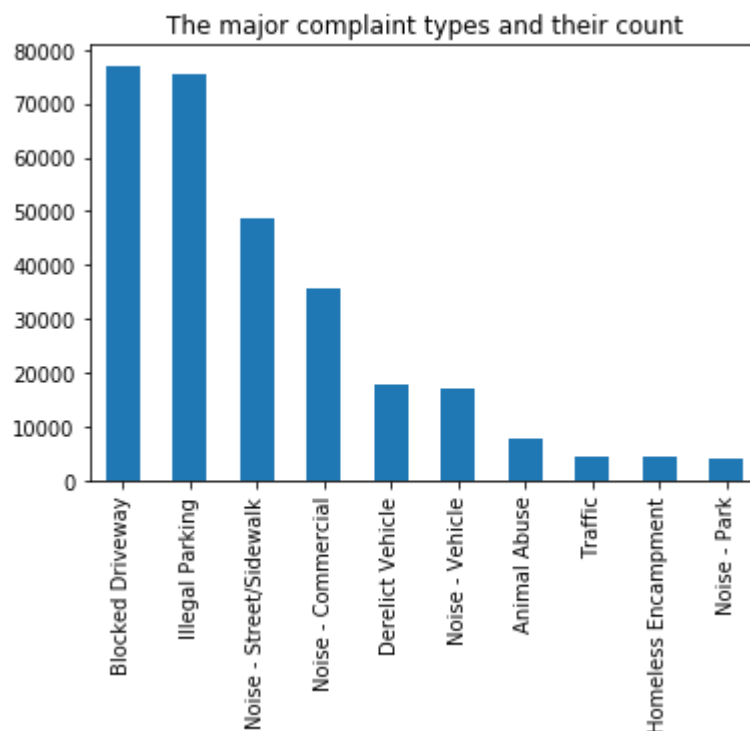
```
In [17]: # Visualize the complaint types
top.plot(kind='hist',title='Visualize the complaint types')
```

Out[17]: <matplotlib.axes._subplots.AxesSubplot at 0x1178c908>



```
In [18]: # Display the major complaint types and their count
top.head(10).plot(kind='bar',title='The major complaint types and their count'
)
```

Out[18]: <matplotlib.axes._subplots.AxesSubplot at 0x118090f0>



In []:

In []: