

This notebook explores Chicago Crime public dataset (bigquery-public-data.chicago_crime.crime)

```
query = """
SELECT count(arrest) FROM `bigquery-public-data.chicago_crime.crime` where arrest IS true
"""
```

Call BigQuery and examine in dataframe

```
import google.datalab.bigquery as bq
df = bq.Query(query + " LIMIT 100").execute().result().to_dataframe()
```

```
print("There were " + str(df.at[0,"f0_"]) + " arrests in Chicago")
```

There were 1874936 arrests in Chicago

Chicago coordinates are: latitude 41.8781° N, longitude 87.6298° W

#example row

I create a table with ~ 1/5 of data : SELECT * FROM bigquery-public-data.chicago_crime.crime where MOD(unique_key, 5) = 0

```
query = """
SELECT * FROM `ml-sme-223918.bqml_tutorial_us.chicago_crime_subset`
"""
```

```
import google.datalab.bigquery as bq
df = bq.Query(query + " LIMIT 10000").execute().result().to_dataframe()
```

```
df.describe()
```

	unique_key	beat	district	ward	community_area	x_coordinate	y_coordi
count	1.000000e+04	10000.000000	10000.000000	9094.000000	9093.000000	9.880000e+03	9.880000e+03
mean	6.019879e+06	957.668400	8.809300	25.222784	37.324645	1.169884e+06	1.862125e+06
std	2.959119e+06	624.775001	5.129304	12.797437	17.621808	1.009025e+04	3.898737e+04
min	6.400000e+02	512.000000	5.000000	2.000000	3.000000	1.145015e+06	1.818775e+06
25%	3.354052e+06	522.000000	5.000000	9.000000	30.000000	1.162321e+06	1.828462e+06
50%	5.864905e+06	531.000000	5.000000	25.000000	49.000000	1.173140e+06	1.835508e+06
75%	8.407878e+06	1033.000000	10.000000	34.000000	53.000000	1.178061e+06	1.888487e+06
max	1.152740e+07	2323.000000	19.000000	48.000000	56.000000	1.188194e+06	1.932093e+06

I observe that latitude is between (41.658132, 41.969159) and longitude is between (-87.743523, -87.586439)

Also I see that year is between 2001 and 2018

```
df.head()
```

	unique_key	case_number	date	block	iucr	primary_type	description	location_descript
0	3045	HL177967	2005-02-12 20:47:00	007XX E 103RD ST	0110	HOMICIDE	FIRST DEGREE MURDER	RETAIL STORE
1	3205	HL435664	2005-06-21 21:28:00	103XX S INDIANA AVE	0110	HOMICIDE	FIRST DEGREE MURDER	STREET
2	20900	HW295447	2013-05-29 15:11:00	000XX W 107TH ST	0110	HOMICIDE	FIRST DEGREE MURDER	STREET
3	1710710	G513455	2001-08-27 23:55:00	104XX S STATE ST	0265	CRIM SEXUAL ASSAULT	AGGRAVATED: OTHER	RESIDENCE
4	11363170	JB327133	2018-06-29 00:44:13	002XX W 104TH ST	0281	CRIM SEXUAL ASSAULT	NON-AGGRAVATED	RESIDENCE

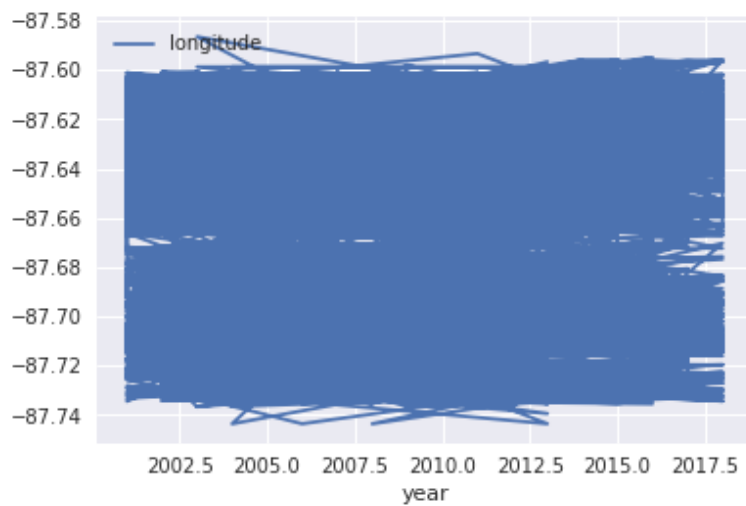
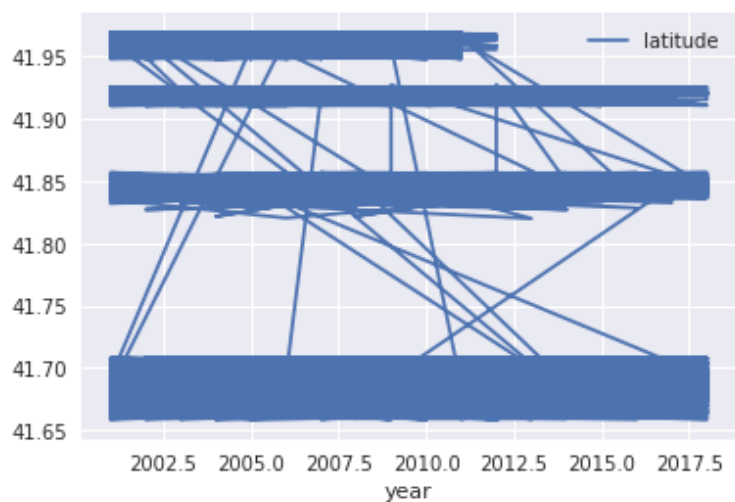
5 rows × 22 columns

I see in BigQuery: Table size 271.74 MB

Number of rows 1,353,959

```
df.plot(x='year', y='latitude')  
df.plot(x='year', y='longitude')
```

<matplotlib.axes._subplots.AxesSubplot at 0x7f8bfc245250>



I see a lot of crime activity happening between 41.66 : 41.71 latitude in Chicago.

```
print(df['location'][0])
```

(41.707455731, -87.605637491)

```
print(df['location'])
```

0 (41.707455731, -87.605637491)
1 (41.705920727, -87.618607847)
2 (41.699851294, -87.624977038)
3 (41.70459139, -87.623302709)
4 (41.705271529, -87.629026445)
5 (41.707464272, -87.605252859)
6 (41.706936355, -87.623514952)
7 (41.707139627, -87.625325518)
8 (41.707203646, -87.606566877)
9 (41.703514283, -87.619985783)
10 (41.707455731, -87.605637491)
11 (41.702612409, -87.624584199)
12 (41.70252359, -87.622201235)
13 (41.70732639, -87.612985394)
14 (41.702798418, -87.616082701)
15 (41.702741406, -87.614863897)
16 (41.707180296, -87.620362752)
17 (41.7030247, -87.620694297)
18 (41.706094197, -87.627135112)
19 (41.70344512, -87.629240464)
20 (41.701346427, -87.616043909)
21 (41.703449284, -87.629024359)
22 (41.699862158, -87.624068789)
23 (41.703511834, -87.620033416)
24 (41.707455731, -87.605637491)
25 (41.703745084, -87.608191486)
26 (41.7030247, -87.620694297)
27 None
28 (41.706765871, -87.613753389)
29 (41.700368023, -87.6233272)
...
9970 (41.682162, -87.62064632)
9971 (41.670309601, -87.620268309)
9972 (41.678642633, -87.622680184)
9973 (41.684569436, -87.616779421)
9974 (41.682162, -87.62064632)
9975 (41.67624381, -87.619536603)
9976 (41.6796504, -87.620560552)
9977 (41.681623279, -87.61654121)
9978 (41.681569005, -87.619726687)
9979 (41.682329096, -87.617946453)
9980 (41.683977738, -87.61519349)
9981 (41.682553462, -87.621374167)
9982 (41.67894606, -87.622043557)
9983 (41.675551926, -87.62258607)
9984 (41.683226562, -87.622823773)
9985 (41.677794878, -87.620504155)
9986 (41.679304154, -87.622702191)
9987 (41.684962029, -87.620776503)

```
9988 (41.681571674, -87.619272722)
9989 (41.6796504, -87.620560552)
9990 (41.685379492, -87.617736935)
9991 (41.671328, -87.620308312)
9992 (41.675301988, -87.621666393)
9993 (41.685380845, -87.617513599)
9994 (41.681357737, -87.620618587)
9995 (41.673548279, -87.616795523)
9996 (41.662960707, -87.617692438)
9997 (41.677690578, -87.620501646)
9998 (41.676313309, -87.617914244)
9999 (41.67574971, -87.617752105)
```

Name: location, Length: 10000, dtype: object

```
for x in df['location'][0]:
    print(x)
```

```
(
4
1
.
7
0
7
4
5
5
7
3
1
,
-
8
7
.
6
0
5
6
3
9
3
7
4
9
1
)
```

```
print(df['location'][0].find(","))
```

13

so it's a string

```
import copy
df2=copy.deepcopy(df)
```

<https://docs.python.org/2/library/copy.html> (<https://docs.python.org/2/library/copy.html>).

Now, considering first element is (41.707455731, -87.605637491)

```
print(df2['location'][0][8:13])
```

55731

```
print(len(df2['location'][0]))
```

29

```
print(df2['location'][0][23:28])
```

37491

```
df2['location'][0][8:13]="00000"
print(df2['location'][0])
```

TypeErrorTraceback (most recent call last)

<ipython-input-25-6dbf6f697f44> in <module>()

----> 1 df2['location'][0][8:13]="00000"

2 print(df2['location'][0])

TypeError: 'newstr' object does not support item assignment

```
for index, row in df2.iterrows():
```

```
    print(row)
```

```
    print(row['location'])
```

```
    break
```

```

unique_key          3045
case_number         HL177967
date               2005-02-12 20:47:00
block              007XX E 103RD ST
iucr                0110
primary_type        HOMICIDE
description         FIRST DEGREE MURDER
location_description RETAIL STORE
arrest              True
domestic            False
beat               512
district            5
ward                9
community_area      50
fbi_code            01A
x_coordinate         1.18295e+06
y_coordinate         1.83683e+06
year                2005
updated_on          2015-08-17 15:03:40
latitude            41.7075
longitude           -87.6056
location            (41.707455731, -87.605637491)
Name: 0, dtype: object
(41.707455731, -87.605637491)
```

```
for index, row in df2.iterrows():
```

```
    print(row['location'])
```

```
    tmp = row['location'][0:8] + "00000" + row['location'][13:23] + "00000"
```

```
    print(tmp)
```

```
    print(row['location'])
```

```
    row['location'] = tmp
```

```
    print(row['location'])
```

```
    break
```

```

(41.707455731, -87.605637491)
(41.707400000, -87.605600000)
(41.707455731, -87.605637491)
(41.707400000, -87.605600000)
```



```
for index, row in df2.iterrows():  
    try:  
        tmp = row['location'][0:8] + "00000" + row['location'][13:23] + "00000"  
        row['location'] = tmp  
    except TypeError:  
        print(row)  
print(df2.head())
```

```

unique_key          1997070
case_number         HH199377
date               2002-02-20 23:19:53
block              0000X E 105 ST
iucr                0320
primary_type        ROBBERY
description          STRONGARM - NO WEAPON
location_description STREET
arrest              False
domestic             False
beat                512
district            5
ward                NaN
community_area      NaN
fbi_code            03
x_coordinate         NaN
y_coordinate         NaN
year                2002
updated_on          2016-02-04 06:33:39
latitude            NaN
longitude            NaN
location            None
Name: 27, dtype: object
unique_key          1933395
case_number         HH113100
date               2002-01-07 12:00:00
block              008XX E 103 ST
iucr                0460
primary_type        BATTERY
description          SIMPLE
location_description SCHOOL, PUBLIC, BUILDING
arrest              False
domestic             False
beat                512
district            5
ward                NaN
community_area      NaN
fbi_code            08B
x_coordinate         NaN
y_coordinate         NaN
year                2002
updated_on          2016-02-04 06:33:39
latitude            NaN
longitude            NaN
location            None
Name: 71, dtype: object
unique_key          1970125
case_number         HH163088
date               2002-02-02 12:13:28

```

```

block          105XX S KING DR
iucr           0460
primary_type   BATTERY
description    SIMPLE
location_description STREET
arrest         True
domestic       False
beat           512
district       5
ward           NaN
community_area NaN
fbi_code       08B
x_coordinate   NaN
y_coordinate   NaN
year           2002
updated_on     2016-02-04 06:33:39
latitude       NaN
longitude      NaN
location       None
Name: 73, dtype: object
unique_key     10391420
case_number    HZ128203
date           2015-10-30 08:00:00
block          002XX W 106TH ST
iucr           0610
primary_type   BURGLARY
description    FORCIBLE ENTRY
location_description RESIDENCE
arrest         False
domestic       False
beat           512
district       5
ward           34
community_area 49
fbi_code       05
x_coordinate   NaN
y_coordinate   NaN
year           2015
updated_on     2018-02-09 15:44:29
latitude       NaN
longitude      NaN
location       None
Name: 393, dtype: object
unique_key     2543820
case_number    HJ122674
date           2003-01-12 23:15:00
block          104XX S PRAIRIE AVE
iucr           0620
primary_type   BURGLARY
description    UNLAWFUL ENTRY

```

```

location_description RESIDENCE-GARAGE
arrest False
domestic False
beat 512
district 5
ward 9
community_area 49
fbi_code 05
x_coordinate NaN
y_coordinate NaN
year 2003
updated_on 2015-08-17 15:03:40
latitude NaN
longitude NaN
location None
Name: 429, dtype: object
unique_key 6540535
case_number HP613550
date 2008-10-06 07:00:00
block 103XX S WOODLAWN AVE
iucr 0810
primary_type THEFT
description OVER $500
location_description POLICE FACILITY/VEH PARKING LOT
arrest False
domestic False
beat 512
district 5
ward 9
community_area 50
fbi_code 06
x_coordinate NaN
y_coordinate NaN
year 2008
updated_on 2015-08-17 15:03:40
latitude NaN
longitude NaN
location None
Name: 440, dtype: object
unique_key 2043435
case_number HH254774
date 2002-03-20 14:50:00
block 108XX S KING DR
iucr 0820
primary_type THEFT
description $500 AND UNDER
location_description SCHOOL, PUBLIC, GROUNDS
arrest False
domestic False
beat 512

```

```

district          5
ward              NaN
community_area    NaN
fbi_code          06
x_coordinate      NaN
y_coordinate      NaN
year             2002
updated_on        2016-02-04 06:33:39
latitude          NaN
longitude         NaN
location          None
Name: 484, dtype: object
unique_key        9307415
case_number       HW451801
date             2004-12-01 12:00:00
block            105XX S INDIANA AVE
iucr             0840
primary_type      THEFT
description       FINANCIAL ID THEFT: OVER $300
location_description RESIDENCE
arrest           False
domestic         False
beat            512
district         5
ward            9
community_area   49
fbi_code         06
x_coordinate      NaN
y_coordinate      NaN
year             2004
updated_on        2015-08-17 15:03:40
latitude          NaN
longitude         NaN
location          None
Name: 503, dtype: object
unique_key        2085015
case_number       HH302559
date             2002-03-18 12:00:00
block            005XX E 107 ST
iucr             0840
primary_type      THEFT
description       FINANCIAL ID THEFT: OVER $300
location_description RESIDENCE
arrest           False
domestic         False
beat            512
district         5
ward            NaN
community_area   NaN
fbi_code         06

```

x_coordinate	NaN
y_coordinate	NaN
year	2002
updated_on	2016-02-04 06:33:39
latitude	NaN
longitude	NaN
location	None
Name: 504, dtype: object	
unique_key	6516835
case_number	HP590489
date	2006-01-01 09:00:00
block	105XX S EBERHART AVE
iucr	0842
primary_type	THEFT
description	AGG: FINANCIAL ID THEFT
location_description	RESIDENCE
arrest	False
domestic	False
beat	512
district	5
ward	9
community_area	49
fbi_code	06
x_coordinate	NaN
y_coordinate	NaN
year	2006
updated_on	2015-08-17 15:03:40
latitude	NaN
longitude	NaN
location	None
Name: 514, dtype: object	
unique_key	7914320
case_number	HR254579
date	2009-04-06 15:35:17
block	002XX E 103RD ST
iucr	0860
primary_type	THEFT
description	RETAIL THEFT
location_description	GROCERY FOOD STORE
arrest	False
domestic	False
beat	512
district	5
ward	9
community_area	49
fbi_code	06
x_coordinate	NaN
y_coordinate	NaN
year	2009
updated_on	2015-08-17 15:03:40

```
latitude      NaN
longitude     NaN
location      None
Name: 527, dtype: object
unique_key    2837630
case_number   HJ497461
date          2003-06-12 07:00:00
block         007XX E 105TH PL
iucr          0890
primary_type  THEFT
description   FROM BUILDING
location_description RESIDENCE
arrest        False
domestic      False
beat          512
district      5
ward          9
community_area 50
fbi_code      06
x_coordinate  NaN
y_coordinate  NaN
year          2003
updated_on    2015-08-17 15:03:40
latitude      NaN
longitude     NaN
location      None
Name: 559, dtype: object
unique_key    7278195
case_number   HR693363
date          2008-12-24 09:00:00
block         104XX S PRAIRIE AVE
iucr          1130
primary_type  DECEPTIVE PRACTICE
description   FRAUD OR CONFIDENCE GAME
location_description RESIDENCE
arrest        False
domestic      False
beat          512
district      5
ward          9
community_area 49
fbi_code      11
x_coordinate  NaN
y_coordinate  NaN
year          2008
updated_on    2015-08-17 15:03:40
latitude      NaN
longitude     NaN
location      None
Name: 631, dtype: object
```

unique_key	9737505
case_number	HX387218
date	2003-08-01 06:00:00
block	003XX W 104TH PL
iucr	1153
primary_type	DECEPTIVE PRACTICE
description	FINANCIAL IDENTITY THEFT OVER \$ 300
location_description	RESIDENCE
arrest	False
domestic	False
beat	512
district	5
ward	34
community_area	49
fbi_code	11
x_coordinate	NaN
y_coordinate	NaN
year	2003
updated_on	2015-08-17 15:03:40
latitude	NaN
longitude	NaN
location	None

Name: 642, dtype: object

unique_key	10899600
case_number	JA211003
date	2012-12-01 09:00:00
block	006XX E 103RD PL
iucr	1153
primary_type	DECEPTIVE PRACTICE
description	FINANCIAL IDENTITY THEFT OVER \$ 300
location_description	RESIDENCE
arrest	False
domestic	False
beat	512
district	5
ward	9
community_area	49
fbi_code	11
x_coordinate	NaN
y_coordinate	NaN
year	2012
updated_on	2017-04-04 15:54:55
latitude	NaN
longitude	NaN
location	None

Name: 648, dtype: object

unique_key	10448970
case_number	HZ187952
date	2015-04-15 16:00:00
block	104XX S VERNON AVE


```

iucr              1153
primary_type      DECEPTIVE PRACTICE
description        FINANCIAL IDENTITY THEFT OVER $ 300
location_description  APARTMENT
arrest            False
domestic          False
beat              512
district          5
ward              9
community_area    49
fbi_code          11
x_coordinate       NaN
y_coordinate       NaN
year              2015
updated_on        2018-02-09 15:44:29
latitude          NaN
longitude         NaN
location          None

```

Name: 649, dtype: object

```

unique_key        2027940
case_number       HH237408
date              2002-03-12 03:50:00
block             007XX E 105 ST
iucr              1320
primary_type      CRIMINAL DAMAGE
description        TO VEHICLE
location_description  STREET
arrest            False
domestic          False
beat              512
district          5
ward              NaN
community_area    NaN
fbi_code          14
x_coordinate       NaN
y_coordinate       NaN
year              2002
updated_on        2016-02-04 06:33:39
latitude          NaN
longitude         NaN
location          None

```

Name: 713, dtype: object

```

unique_key        7279575
case_number       HR638637
date              2009-11-11 22:10:00
block             106XX S COTTAGE GROVE AVE
iucr              1811
primary_type      NARCOTICS
description        POSS: CANNABIS 30GMS OR LESS
location_description  STREET

```

```

arrest                False
domestic              False
beat                 512
district              5
ward                  9
community_area        50
fbi_code              18
x_coordinate          NaN
y_coordinate          NaN
year                  2009
updated_on            2015-08-17 15:03:40
latitude              NaN
longitude             NaN
location              None

```

Name: 863, dtype: object

```

unique_key            6560575
case_number           HP616643
date                  2008-10-08 23:34:49
block                 103XX S VERNON AVE
iucr                  2027
primary_type          NARCOTICS
description            POSS: CRACK
location_description   RESIDENCE

```

```

arrest                False
domestic              False
beat                 512
district              5
ward                  9
community_area        49
fbi_code              18
x_coordinate          NaN
y_coordinate          NaN
year                  2008
updated_on            2015-08-17 15:03:40
latitude              NaN
longitude             NaN
location              None

```

Name: 893, dtype: object

```

unique_key            1982025
case_number           HH169593
date                  2002-02-05 20:54:38
block                 002XX W 104 PL
iucr                  2027
primary_type          NARCOTICS
description            POSS: CRACK
location_description   STREET
arrest                True
domestic              False
beat                 512
district              5

```

ward	NaN
community_area	NaN
fbi_code	18
x_coordinate	NaN
y_coordinate	NaN
year	2002
updated_on	2016-02-04 06:33:39
latitude	NaN
longitude	NaN
location	None
Name: 894, dtype: object	
unique_key	2910545
case_number	HJ578327
date	2003-08-21 21:10:00
block	106XX S STATE ST
iucr	2092
primary_type	NARCOTICS
description	SOLICIT NARCOTICS ON PUBLICWAY
location_description	STREET
arrest	True
domestic	False
beat	512
district	5
ward	34
community_area	49
fbi_code	26
x_coordinate	NaN
y_coordinate	NaN
year	2003
updated_on	2015-08-17 15:03:40
latitude	NaN
longitude	NaN
location	None
Name: 927, dtype: object	
unique_key	2992220
case_number	HJ692947
date	2003-10-14 08:00:00
block	025XX S ST LOUIS AVE
iucr	0610
primary_type	BURGLARY
description	FORCIBLE ENTRY
location_description	RESIDENCE
arrest	False
domestic	False
beat	1024
district	10
ward	22
community_area	30
fbi_code	05
x_coordinate	NaN

```

y_coordinate      NaN
year              2003
updated_on        2015-08-17 15:03:40
latitude          NaN
longitude         NaN
location          None
Name: 1243, dtype: object
unique_key        6924910
case_number       HR329794
date              2008-01-01 00:01:00
block             019XX S HOMAN AVE
iucr              0840
primary_type      THEFT
description        FINANCIAL ID THEFT: OVER $300
location_description APARTMENT
arrest            False
domestic          False
beat              1024
district          10
ward              24
community_area    29
fbi_code          06
x_coordinate      NaN
y_coordinate      NaN
year              2008
updated_on        2015-08-17 15:03:40
latitude          NaN
longitude         NaN
location          None
Name: 1323, dtype: object
unique_key        6155530
case_number       HP241499
date              2006-06-01 00:01:00
block             022XX S HOMAN AVE
iucr              0840
primary_type      THEFT
description        FINANCIAL ID THEFT: OVER $300
location_description RESIDENCE
arrest            False
domestic          False
beat              1024
district          10
ward              22
community_area    30
fbi_code          06
x_coordinate      NaN
y_coordinate      NaN
year              2006
updated_on        2015-08-17 15:03:40
latitude          NaN

```

```

longitude           NaN
location            None
Name: 1324, dtype: object
unique_key          5120145
case_number         HM720234
date               2002-07-17 12:00:00
block              022XX S KEDZIE AVE
iucr               0841
primary_type        THEFT
description         FINANCIAL ID THEFT:$300 &UNDER
location_description RESIDENCE
arrest             False
domestic           False
beat              1024
district           10
ward              24
community_area     30
fbi_code           06
x_coordinate        NaN
y_coordinate        NaN
year              2002
updated_on         2015-08-17 15:03:40
latitude           NaN
longitude           NaN
location            None
Name: 1327, dtype: object
unique_key          7065565
case_number         HR472787
date               2009-08-08 18:09:00
block              023XX S ST LOUIS AVE
iucr               1370
primary_type        CRIMINAL DAMAGE
description         TO FIRE FIGHT.APP.EQUIP
location_description SIDEWALK
arrest             True
domestic           False
beat              1024
district           10
ward              22
community_area     30
fbi_code           14
x_coordinate        NaN
y_coordinate        NaN
year              2009
updated_on         2015-08-17 15:03:40
latitude           NaN
longitude           NaN
location            None
Name: 1460, dtype: object
unique_key          5994215

```

```

case_number      HP101365
date              2008-01-01 18:00:00
block            019XX S CHRISTIANA AVE
iucr              2820
primary_type      OTHER OFFENSE
description       TELEPHONE THREAT
location_description RESIDENCE
arrest            False
domestic          True
beat             1024
district          10
ward              24
community_area    29
fbi_code          26
x_coordinate      NaN
y_coordinate      NaN
year              2008
updated_on        2015-08-17 15:03:40
latitude          NaN
longitude         NaN
location          None
Name: 1589, dtype: object
unique_key        3276950
case_number       HK306465
date              2004-04-17 00:35:00
block            001XX E 107TH ST
iucr              0430
primary_type      BATTERY
description       AGGRAVATED: OTHER DANG WEAPON
location_description STREET
arrest            False
domestic          False
beat             513
district          5
ward              9
community_area    49
fbi_code          04B
x_coordinate      NaN
y_coordinate      NaN
year              2004
updated_on        2015-08-17 15:03:40
latitude          NaN
longitude         NaN
location          None
Name: 1682, dtype: object
unique_key        1989925
case_number       HH188832
date              2002-02-15 17:10:16
block            002XX W 107 ST
iucr              0460

```

```

primary_type      BATTERY
description       SIMPLE
location_description RESIDENCE
arrest           True
domestic         False
beat            513
district         5
ward            NaN
community_area   NaN
fbi_code         08B
x_coordinate     NaN
y_coordinate     NaN
year            2002
updated_on       2016-02-04 06:33:39
latitude        NaN
longitude        NaN
location         None
Name: 1709, dtype: object
unique_key       7661430
case_number      HR286205
date            2009-04-25 01:43:49
block           004XX E 107TH ST
iucr            0486
primary_type      BATTERY
description       DOMESTIC BATTERY SIMPLE
location_description APARTMENT
arrest           False
domestic         False
beat            513
district         5
ward            9
community_area   49
fbi_code         08B
x_coordinate     NaN
y_coordinate     NaN
year            2009
updated_on       2015-08-17 15:03:40
latitude        NaN
longitude        NaN
location         None
Name: 1780, dtype: object
unique_key       1999045
case_number      HH201575
date            2002-02-22 04:59:39
block           002XX W 108 ST
iucr            0610
primary_type      BURGLARY
description       FORCIBLE ENTRY
location_description RESIDENCE
arrest           False

```

```

domestic          False
beat              513
district          5
ward              NaN
community_area    NaN
fbi_code          05
x_coordinate      NaN
y_coordinate      NaN
year              2002
updated_on        2016-02-04 06:33:39
latitude          NaN
longitude         NaN
location          None
Name: 1942, dtype: object
unique_key        5001420
case_number       HL782055
date              2005-12-10 14:40:00
block             107XX S LAFAYETTE AVE
iucr              0610
primary_type      BURGLARY
description        FORCIBLE ENTRY
location_description RESIDENCE
arrest            False
domestic          False
beat              513
district          5
ward              34
community_area    49
fbi_code          05
x_coordinate      NaN
y_coordinate      NaN
year              2005
updated_on        2015-08-17 15:03:40
latitude          NaN
longitude         NaN
location          None
Name: 1964, dtype: object
unique_key        10964415
case_number       JA286993
date              2017-03-20 21:05:00
block             110XX S DR MARTIN LUTHER KING JR DR
iucr              0820
primary_type      THEFT
description        $500 AND UNDER
location_description APARTMENT
arrest            False
domestic          False
beat              513
district          5
ward              9

```


community_area	49
fbi_code	06
x_coordinate	NaN
y_coordinate	NaN
year	2017
updated_on	2017-06-01 15:53:40
latitude	NaN
longitude	NaN
location	None

Name: 2063, dtype: object

unique_key	1979355
case_number	HH175201
date	2002-02-08 16:49:58
block	001XX W 110 ST
iucr	0820
primary_type	THEFT
description	\$500 AND UNDER
location_description	STREET
arrest	False
domestic	False
beat	513
district	5
ward	NaN

community_area NaN

fbi_code	06
x_coordinate	NaN
y_coordinate	NaN
year	2002
updated_on	2016-02-04 06:33:39
latitude	NaN
longitude	NaN
location	None

Name: 2090, dtype: object

unique_key	8562805
case_number	HV237479
date	2007-01-01 00:01:00
block	107XX S LAFAYETTE AVE
iucr	0840
primary_type	THEFT
description	FINANCIAL ID THEFT: OVER \$300
location_description	RESIDENCE
arrest	False
domestic	False
beat	513
district	5
ward	34

community_area 49

fbi_code	06
x_coordinate	NaN
y_coordinate	NaN

```

year                2007
updated_on          2015-08-17 15:03:40
latitude            NaN
longitude           NaN
location            None
Name: 2097, dtype: object
unique_key          7673490
case_number         HS478456
date                2006-03-02 12:00:00
block               110XX S EDBROOKE AVE
iucr                0840
primary_type        THEFT
description         FINANCIAL ID THEFT: OVER $300
location_description RESIDENCE
arrest              False
domestic            False
beat               513
district            5
ward                9
community_area      49
fbi_code            06
x_coordinate         NaN
y_coordinate         NaN
year                2006
updated_on          2015-08-17 15:03:40
latitude            NaN
longitude           NaN
location            None
Name: 2098, dtype: object
unique_key          10391675
case_number         HZ127998
date                2015-11-14 09:20:00
block               010XX E 111TH ST
iucr                1122
primary_type        DECEPTIVE PRACTICE
description         COUNTERFEIT CHECK
location_description BANK
arrest              True
domestic            False
beat               513
district            5
ward                9
community_area      50
fbi_code            10
x_coordinate         NaN
y_coordinate         NaN
year                2015
updated_on          2018-02-09 15:44:29
latitude            NaN
longitude           NaN

```

location	None
Name: 2191, dtype: object	
unique_key	2063205
case_number	HH270183
date	2002-03-28 08:15:00
block	002XX E 111 ST
iucr	141C
primary_type	WEAPONS VIOLATION
description	UNLAWFUL USE OTHER DANG WEAPON
location_description	SCHOOL, PUBLIC, BUILDING
arrest	True
domestic	False
beat	513
district	5
ward	NaN
community_area	NaN
fbi_code	15
x_coordinate	NaN
y_coordinate	NaN
year	2002
updated_on	2016-02-04 06:33:39
latitude	NaN
longitude	NaN
location	None
Name: 2319, dtype: object	
unique_key	1941290
case_number	HH116563
date	2002-01-09 19:30:00
block	001XX W 109 PL
iucr	1811
primary_type	NARCOTICS
description	POSS: CANNABIS 30GMS OR LESS
location_description	STREET
arrest	True
domestic	False
beat	513
district	5
ward	NaN
community_area	NaN
fbi_code	18
x_coordinate	NaN
y_coordinate	NaN
year	2002
updated_on	2016-02-04 06:33:39
latitude	NaN
longitude	NaN
location	None
Name: 2358, dtype: object	
unique_key	2034375
case_number	HH248192

```

date                2002-03-17 15:10:00
block               003XX W 109 PL
iucr                2825
primary_type        OTHER OFFENSE
description          HARASSMENT BY TELEPHONE
location_description RESIDENCE
arrest              False
domestic             False
beat                513
district            5
ward                NaN
community_area      NaN
fbi_code             26
x_coordinate         NaN
y_coordinate         NaN
year                2002
updated_on           2016-02-04 06:33:39
latitude            NaN
longitude            NaN
location            None
Name: 2482, dtype: object
unique_key           1920670
case_number          HH102618
date                2002-01-02 13:00:00
block               001XX W 110 ST
iucr                4255
primary_type        KIDNAPPING
description          UNLAWFUL INTERFERE/VISITATION
location_description STREET
arrest              False
domestic             True
beat                513
district            5
ward                NaN
community_area      NaN
fbi_code             26
x_coordinate         NaN
y_coordinate         NaN
year                2002
updated_on           2016-02-04 06:33:39
latitude            NaN
longitude            NaN
location            None
Name: 2495, dtype: object
unique_key           2273235
case_number          HH553977
date                2002-08-02 22:01:07
block               041XX W 31ST ST
iucr                0560
primary_type        ASSAULT

```

```

description          SIMPLE
location_description  STREET
arrest               False
domestic              False
beat                 1031
district              10
ward                  22
community_area        30
fbi_code              08A
x_coordinate          NaN
y_coordinate          NaN
year                  2002
updated_on            2015-08-17 15:03:40
latitude              NaN
longitude             NaN
location              None
Name: 2691, dtype: object
unique_key            9159225
case_number           HW304146
date                  2009-04-01 00:01:00
block                 040XX W 31ST ST
iucr                  0840
primary_type          THEFT
description           FINANCIAL ID THEFT: OVER $300
location_description  RESIDENCE
arrest                False
domestic              False
beat                 1031
district              10
ward                  22
community_area        30
fbi_code              06
x_coordinate          NaN
y_coordinate          NaN
year                  2009
updated_on            2015-08-17 15:03:40
latitude              NaN
longitude             NaN
location              None
Name: 2805, dtype: object
unique_key            2163305
case_number           HH413658
date                  2002-06-02 12:01:18
block                 039XX W 31ST ST
iucr                  1320
primary_type          CRIMINAL DAMAGE
description           TO VEHICLE
location_description  STREET
arrest                False
domestic              False

```

```

beat                1031
district            10
ward                22
community_area      30
fbi_code             14
x_coordinate         NaN
y_coordinate         NaN
year                2002
updated_on           2015-08-17 15:03:40
latitude            NaN
longitude            NaN
location             None
Name: 2949, dtype: object
unique_key           11257090
case_number          JB179110
date                 2010-01-10 00:00:00
block                026XX S TRIPP AVE
iucr                 1754
primary_type         OFFENSE INVOLVING CHILDREN
description           AGG SEX ASSLT OF CHILD FAM MBR
location_description RESIDENCE
arrest               False
domestic              False
beat                1031
district            10
ward                22
community_area      30
fbi_code             02
x_coordinate         NaN
y_coordinate         NaN
year                2010
updated_on           2018-03-16 15:52:53
latitude            NaN
longitude            NaN
location             None
Name: 3014, dtype: object
unique_key           6356545
case_number          HP416051
date                 2008-06-25 17:10:00
block                031XX S PULASKI RD
iucr                 2012
primary_type         NARCOTICS
description           MANU/DELIVER:COCAINE
location_description PARKING LOT/GARAGE(NON.RESID.)
arrest               True
domestic              False
beat                1031
district            10
ward                22
community_area      30

```

```

fbi_code          18
x_coordinate      NaN
y_coordinate      NaN
year             2008
updated_on       2015-08-17 15:03:40
latitude         NaN
longitude        NaN
location         None
Name: 3040, dtype: object
unique_key       7341420
case_number      HS134941
date            2008-07-19 08:00:00
block           044XX N MAGNOLIA AVE
iucr            0820
primary_type     THEFT
description      $500 AND UNDER
location_description RESIDENCE
arrest          False
domestic        False
beat           2311
district        19
ward            46
community_area   3
fbi_code         06
x_coordinate      NaN
y_coordinate      NaN
year             2008
updated_on       2015-08-17 15:03:40
latitude         NaN
longitude        NaN
location         None
Name: 3259, dtype: object
unique_key       8072335
case_number      HT304334
date            2008-07-14 00:01:00
block           027XX S CHRISTIANA AVE
iucr            1562
primary_type     SEX OFFENSE
description      AGG CRIMINAL SEXUAL ABUSE
location_description RESIDENCE
arrest          False
domestic        False
beat           1032
district        10
ward            22
community_area   30
fbi_code         17
x_coordinate      NaN
y_coordinate      NaN
year             2008

```

```
updated_on      2015-08-17 15:03:40
latitude        NaN
longitude       NaN
location        None
Name: 3820, dtype: object
unique_key      10384585
case_number     HY556319
date            2015-02-20 00:00:00
block           026XX S TRUMBULL AVE
iucr            1752
primary_type    OFFENSE INVOLVING CHILDREN
description     AGG CRIM SEX ABUSE FAM MEMBER
location_description APARTMENT
arrest          False
domestic        False
beat            1032
district        10
ward            22
community_area  30
fbi_code        20
x_coordinate    NaN
y_coordinate    NaN
year            2015
updated_on      2018-02-09 15:44:29
latitude        NaN
longitude       NaN
location        None
Name: 3824, dtype: object
unique_key      2834410
case_number     HJ492494
date            2003-07-14 02:15:00
block           009XX W LAKESIDE PL
iucr            0630
primary_type    BURGLARY
description     ATTEMPT FORCIBLE ENTRY
location_description RESIDENCE
arrest          False
domestic        False
beat            2312
district        19
ward            46
community_area  3
fbi_code        05
x_coordinate    NaN
y_coordinate    NaN
year            2003
updated_on      2015-08-17 15:03:40
latitude        NaN
longitude       NaN
location        None
```


Name: 3970, dtype: object
unique_key 2443500
case_number HH764045
date 2002-11-07 08:15:00
block 011XX W LAWRENCE AVE
iucr 3710
primary_type INTERFERENCE WITH PUBLIC OFFICER
description RESIST/OBSTRUCT/DISARM OFFICER
location_description STREET
arrest True
domestic False
beat 2312
district 19
ward 48
community_area 3
fbi_code 24
x_coordinate NaN
y_coordinate NaN
year 2002
updated_on 2015-08-17 15:03:40
latitude NaN
longitude NaN
location None

Name: 4138, dtype: object
unique_key 6563900
case_number HP637924
date 2008-10-20 12:13:00
block 024XX S WHIPPLE ST
iucr 0620
primary_type BURGLARY
description UNLAWFUL ENTRY
location_description SIDEWALK
arrest True
domestic False
beat 1033
district 10
ward 12
community_area 30
fbi_code 05
x_coordinate NaN
y_coordinate NaN
year 2008
updated_on 2015-08-17 15:03:40
latitude NaN
longitude NaN
location None

Name: 4313, dtype: object
unique_key 7547260
case_number HR506126
date 2009-08-27 08:39:00

```

block          026XX S CALIFORNIA AVE
iucr           1812
primary_type   NARCOTICS
description    POSS: CANNABIS MORE THAN 30GMS
location_description OTHER
arrest        True
domestic      False
beat         1033
district      10
ward         12
community_area 30
fbi_code      18
x_coordinate  NaN
y_coordinate  NaN
year          2009
updated_on    2015-08-17 15:03:40
latitude      NaN
longitude     NaN
location      None
Name: 4573, dtype: object
unique_key    6925425
case_number   HP748709
date          2008-12-24 10:55:28
block         045XX N MARINE DR
iucr          0930
primary_type   MOTOR VEHICLE THEFT
description    THEFT/RECOVERY: AUTOMOBILE
location_description STREET
arrest        False
domestic      False
beat         2313
district      19
ward         46
community_area 3
fbi_code      07
x_coordinate  NaN
y_coordinate  NaN
year          2008
updated_on    2015-08-17 15:03:40
latitude      NaN
longitude     NaN
location      None
Name: 4778, dtype: object
unique_key    2393840
case_number   HH695227
date          2002-10-05 23:23:04
block         044XX N HAZEL ST
iucr          2022
primary_type   NARCOTICS
description    POSS: COCAINE

```

```

location_description    OTHER
arrest                  True
domestic                False
beat                   2313
district                19
ward                   46
community_area          3
fbi_code                18
x_coordinate            NaN
y_coordinate            NaN
year                   2002
updated_on              2015-08-17 15:03:40
latitude                NaN
longitude               NaN
location                None
Name: 4865, dtype: object
unique_key              1947360
case_number             HH134922
date                   2002-01-18 21:37:48
block                  0000X W 114 PL
iucr                   0460
primary_type            BATTERY
description             SIMPLE
location_description    RESIDENCE
arrest                  False
domestic                True
beat                   522
district                5
ward                   NaN
community_area          NaN
fbi_code                08B
x_coordinate            NaN
y_coordinate            NaN
year                   2002
updated_on              2016-02-04 06:33:39
latitude                NaN
longitude               NaN
location                None
Name: 4980, dtype: object
unique_key              1966860
case_number             HH157495
date                   2002-01-30 11:30:00
block                  0000X W 112 ST
iucr                   0560
primary_type            ASSAULT
description             SIMPLE
location_description    RESIDENCE
arrest                  False
domestic                True
beat                   522

```

```

district      5
ward          NaN
community_area      NaN
fbi_code      08A
x_coordinate    NaN
y_coordinate    NaN
year          2002
updated_on    2016-02-04 06:33:39
latitude      NaN
longitude     NaN
location      None
Name: 5195, dtype: object
unique_key    7762025
case_number   HR426975
date          2009-07-13 15:33:00
block         113XX S STEWART AVE
iucr          0610
primary_type   BURGLARY
description    FORCIBLE ENTRY
location_description  RESIDENCE
arrest        False
domestic      False
beat          522
district      5
ward          34
community_area      49
fbi_code      05
x_coordinate    NaN
y_coordinate    NaN
year          2009
updated_on    2015-08-17 15:03:40
latitude      NaN
longitude     NaN
location      None
Name: 5252, dtype: object
unique_key    1990765
case_number   HH191033
date          2002-02-16 18:34:55
block         001XX W 117 ST
iucr          0610
primary_type   BURGLARY
description    FORCIBLE ENTRY
location_description  RESIDENCE
arrest        False
domestic      False
beat          522
district      5
ward          NaN
community_area      NaN
fbi_code      05

```

```

x_coordinate      NaN
y_coordinate      NaN
year             2002
updated_on       2016-02-04 06:33:39
latitude         NaN
longitude        NaN
location         None
Name: 5266, dtype: object
unique_key       5524375
case_number      HN322127
date            2004-11-01 00:01:00
block           003XX W 111TH PL
iucr            0840
primary_type     THEFT
description      FINANCIAL ID THEFT: OVER $300
location_description RESIDENCE
arrest          False
domestic        False
beat           522
district        5
ward           34
community_area  49
fbi_code        06
x_coordinate     NaN
y_coordinate     NaN
year            2004
updated_on       2015-08-17 15:03:40
latitude         NaN
longitude        NaN
location         None
Name: 5398, dtype: object
unique_key       6037305
case_number      HP138821
date            2006-04-01 00:01:00
block           115XX S LAFAYETTE AVE
iucr            0840
primary_type     THEFT
description      FINANCIAL ID THEFT: OVER $300
location_description RESIDENCE
arrest          False
domestic        False
beat           522
district        5
ward           34
community_area  53
fbi_code        06
x_coordinate     NaN
y_coordinate     NaN
year            2006
updated_on       2015-08-17 15:03:40

```

```

latitude           NaN
longitude          NaN
location           None
Name: 5399, dtype: object
unique_key         1997365
case_number        HH198223
date               2002-02-19 21:00:00
block              0000X W 112 PL
iucr               0910
primary_type       MOTOR VEHICLE THEFT
description         AUTOMOBILE
location_description STREET
arrest             False
domestic           False
beat              522
district           5
ward              NaN
community_area     NaN
fbi_code           07
x_coordinate        NaN
y_coordinate        NaN
year               2002
updated_on         2016-02-04 06:33:39
latitude           NaN
longitude          NaN
location           None
Name: 5436, dtype: object
unique_key         11027485
case_number        JA358748
date               2007-11-15 00:00:00
block              115XX S WENTWORTH AVE
iucr               1153
primary_type       DECEPTIVE PRACTICE
description         FINANCIAL IDENTITY THEFT OVER $ 300
location_description RESIDENCE
arrest             False
domestic           False
beat              522
district           5
ward              34
community_area     53
fbi_code           11
x_coordinate        NaN
y_coordinate        NaN
year               2007
updated_on         2017-07-29 15:56:00
latitude           NaN
longitude          NaN
location           None
Name: 5476, dtype: object

```

unique_key 5011465
case_number HL445723
date 2005-06-25 19:00:00
block 001XX W 112TH ST
iucr 1320
primary_type CRIMINAL DAMAGE
description TO VEHICLE
location_description RESIDENCE
arrest False
domestic False
beat 522
district 5
ward 34
community_area 49
fbi_code 14
x_coordinate NaN
y_coordinate NaN
year 2005
updated_on 2015-08-17 15:03:40
latitude NaN
longitude NaN
location None
Name: 5561, dtype: object

unique_key 6736125
case_number HR121131
date 2009-01-14 13:53:00
block 118XX S LAFAYETTE AVE
iucr 2024
primary_type NARCOTICS
description POSS: HEROIN(WHITE)
location_description RESIDENCE
arrest True
domestic False
beat 522
district 5
ward 34
community_area 53
fbi_code 18
x_coordinate NaN
y_coordinate NaN
year 2009
updated_on 2015-08-17 15:03:40
latitude NaN
longitude NaN
location None
Name: 5747, dtype: object

unique_key 1981535
case_number HH168303
date 2002-02-05 10:49:11
block 002XX W 117 ST

```

iucr                2024
primary_type        NARCOTICS
description          POSS: HEROIN(WHITE)
location_description ALLEY
arrest              True
domestic             False
beat                522
district            5
ward                NaN
community_area      NaN
fbi_code            18
x_coordinate         NaN
y_coordinate         NaN
year                2002
updated_on          2016-02-04 06:33:39
latitude            NaN
longitude           NaN
location            None
Name: 5748, dtype: object
unique_key          1995945
case_number         HH185691
date                2002-02-14 02:05:42
block               002XX W 117 ST
iucr                2027
primary_type        NARCOTICS
description          POSS: CRACK
location_description STREET
arrest              True
domestic             False
beat                522
district            5
ward                NaN
community_area      NaN
fbi_code            18
x_coordinate         NaN
y_coordinate         NaN
year                2002
updated_on          2016-02-04 06:33:39
latitude            NaN
longitude           NaN
location            None
Name: 5763, dtype: object
unique_key          5492840
case_number         HK257391
date                2004-03-23 15:23:56
block               002XX W 119TH ST
iucr                2093
primary_type        NARCOTICS
description          FOUND SUSPECT NARCOTICS
location_description STREET

```



```

arrest                False
domestic              False
beat                 522
district              5
ward                 34
community_area        53
fbi_code              26
x_coordinate          NaN
y_coordinate          NaN
year                 2004
updated_on            2015-08-17 15:03:40
latitude              NaN
longitude             NaN
location              None
Name: 5811, dtype: object
unique_key            1978990
case_number           HH175773
date                  2002-02-06 10:00:00
block                 002XX W 117 ST
iucr                  5002
primary_type          OTHER OFFENSE
description            OTHER VEHICLE OFFENSE
location_description   STREET
arrest                False
domestic              False
beat                 522
district              5
ward                 NaN
community_area        NaN
fbi_code              26
x_coordinate          NaN
y_coordinate          NaN
year                 2002
updated_on            2016-02-04 06:33:39
latitude              NaN
longitude             NaN
location              None
Name: 5864, dtype: object
unique_key            10560540
case_number           HZ307721
date                  2015-12-01 00:00:00
block                 025XX S WESTERN AVE
iucr                  0460
primary_type          BATTERY
description            SIMPLE
location_description   SCHOOL, PUBLIC, BUILDING
arrest                False
domestic              False
beat                 1034
district              10

```

```

ward                25
community_area      31
fbi_code            08B
x_coordinate        NaN
y_coordinate        NaN
year               2015
updated_on          2016-10-11 15:51:41
latitude            NaN
longitude           NaN
location            None
Name: 5974, dtype: object
unique_key          10415435
case_number         HZ153420
date               2015-12-15 12:00:00
block              025XX S ASHLAND AVE
iucr               1110
primary_type        DECEPTIVE PRACTICE
description          BOGUS CHECK
location_description WAREHOUSE
arrest              False
domestic            False
beat               1034
district           10
ward               25
community_area      31
fbi_code            11
x_coordinate        NaN
y_coordinate        NaN
year               2015
updated_on          2018-02-09 15:44:29
latitude            NaN
longitude           NaN
location            None
Name: 6256, dtype: object
unique_key          11021175
case_number         JA350183
date               2015-01-01 00:00:00
block              026XX W 24TH ST
iucr               1562
primary_type        SEX OFFENSE
description          AGG CRIMINAL SEXUAL ABUSE
location_description RESIDENCE
arrest              False
domestic            False
beat               1034
district           10
ward               12
community_area      30
fbi_code            17
x_coordinate        NaN

```

```

y_coordinate      NaN
year              2015
updated_on        2017-07-18 15:52:43
latitude          NaN
longitude         NaN
location          None
Name: 6364, dtype: object
unique_key        7225975
case_number       HR600576
date              2009-10-21 14:49:00
block             023XX W CERMAK RD
iucr              2012
primary_type      NARCOTICS
description        MANU/DELIVER:COCAINE
location_description PARKING LOT/GARAGE(NON.RESID.)
arrest            True
domestic          False
beat             1034
district          10
ward              25
community_area    31
fbi_code          18
x_coordinate      NaN
y_coordinate      NaN
year              2009
updated_on        2015-08-17 15:03:40
latitude          NaN
longitude         NaN
location          None
Name: 6392, dtype: object
unique_key        7300640
case_number       HR691080
date              2009-12-15 15:40:00
block             021XX W CERMAK RD
iucr              2012
primary_type      NARCOTICS
description        MANU/DELIVER:COCAINE
location_description PARKING LOT/GARAGE(NON.RESID.)
arrest            True
domestic          False
beat             1034
district          10
ward              25
community_area    31
fbi_code          18
x_coordinate      NaN
y_coordinate      NaN
year              2009
updated_on        2015-08-17 15:03:40
latitude          NaN

```

longitude	NaN
location	None
Name: 6393, dtype: object	
unique_key	7099395
case_number	HR492829
date	2009-08-19 17:40:00
block	023XX S CALIFORNIA AVE
iucr	2014
primary_type	NARCOTICS
description	MANU/DELIVER: HEROIN (WHITE)
location_description	BAR OR TAVERN
arrest	True
domestic	False
beat	1034
district	10
ward	12
community_area	30
fbi_code	18
x_coordinate	NaN
y_coordinate	NaN
year	2009
updated_on	2015-08-17 15:03:40
latitude	NaN
longitude	NaN
location	None
Name: 6394, dtype: object	
unique_key	10422305
case_number	HZ160770
date	2009-02-22 08:00:00
block	024XX W 24TH PL
iucr	5093
primary_type	NON-CRIMINAL
description	LOST PASSPORT
location_description	OTHER
arrest	False
domestic	False
beat	1034
district	10
ward	25
community_area	31
fbi_code	26
x_coordinate	NaN
y_coordinate	NaN
year	2009
updated_on	2016-02-22 16:09:04
latitude	NaN
longitude	NaN
location	None
Name: 6459, dtype: object	
unique_key	2992410

```

case_number      HJ665213
date             2003-10-01 11:48:38
block            122XX S PRINCETON AVE
iucr             0281
primary_type     CRIM SEXUAL ASSAULT
description      NON-AGGRAVATED
location_description STREET
arrest           False
domestic         False
beat            523
district         5
ward            34
community_area   53
fbi_code         02
x_coordinate     NaN
y_coordinate     NaN
year            2003
updated_on       2015-08-17 15:03:40
latitude         NaN
longitude        NaN
location         None
Name: 6464, dtype: object
unique_key       1947520
case_number      HH135256
date            2002-01-19 00:05:00
block            004XX W 127 ST
iucr             0560
primary_type     ASSAULT
description      SIMPLE
location_description OTHER
arrest           False
domestic         False
beat            523
district         5
ward            NaN
community_area   NaN
fbi_code         08A
x_coordinate     NaN
y_coordinate     NaN
year            2002
updated_on       2016-02-04 06:33:39
latitude         NaN
longitude        NaN
location         None
Name: 6698, dtype: object
unique_key       8780930
case_number      HV453564
date            2009-06-30 00:00:00
block            001XX W 125TH ST
iucr             0840

```

```

primary_type      THEFT
description       FINANCIAL ID THEFT: OVER $300
location_description RESIDENCE
arrest            False
domestic          False
beat             523
district          5
ward              9
community_area    53
fbi_code          06
x_coordinate      NaN
y_coordinate      NaN
year             2009
updated_on        2015-08-17 15:03:40
latitude          NaN
longitude         NaN
location          None
Name: 6873, dtype: object
unique_key        6137635
case_number       HP230573
date              2005-02-25 09:00:00
block             126XX S WENTWORTH AVE
iucr              0840
primary_type      THEFT
description       FINANCIAL ID THEFT: OVER $300
location_description DEPARTMENT STORE
arrest            False
domestic          False
beat             523
district          5
ward              9
community_area    53
fbi_code          06
x_coordinate      NaN
y_coordinate      NaN
year             2005
updated_on        2015-08-17 15:03:40
latitude          NaN
longitude         NaN
location          None
Name: 6875, dtype: object
unique_key        10407025
case_number       HZ144103
date              2015-08-01 00:01:00
block             121XX S PRINCETON AVE
iucr              0890
primary_type      THEFT
description       FROM BUILDING
location_description RESIDENCE
arrest            False

```

```

domestic                False
beat                   523
district                5
ward                   34
community_area          53
fbi_code                06
x_coordinate            NaN
y_coordinate            NaN
year                   2015
updated_on              2018-02-09 15:44:29
latitude               NaN
longitude              NaN
location               None
Name: 6891, dtype: object
unique_key              2466495
case_number             HH796756
date                   2002-11-23 03:15:00
block                  120XX S HARVARD AVE
iucr                   0910
primary_type            MOTOR VEHICLE THEFT
description             AUTOMOBILE
location_description    STREET
arrest                 False
domestic               False
beat                   523
district                5
ward                   34
community_area          53
fbi_code                07
x_coordinate            NaN
y_coordinate            NaN
year                   2002
updated_on              2015-08-17 15:03:40
latitude               NaN
longitude              NaN
location               None
Name: 6934, dtype: object
unique_key              2066175
case_number             HH285227
date                   2002-04-04 14:30:00
block                  004XX W 126 ST
iucr                   1310
primary_type            CRIMINAL DAMAGE
description             TO PROPERTY
location_description    RESIDENCE
arrest                 True
domestic               True
beat                   523
district                5
ward                   NaN

```

```

community_area      NaN
fbi_code             14
x_coordinate         NaN
y_coordinate         NaN
year                 2002
updated_on           2016-02-04 06:33:39
latitude            NaN
longitude            NaN
location             None
Name: 7003, dtype: object
unique_key           11430910
case_number          JB414910
date                 2015-06-01 00:00:00
block                120XX S YALE AVE
iucr                 1564
primary_type         SEX OFFENSE
description           CRIMINAL TRANSMISSION OF HIV
location_description  RESIDENCE
arrest               False
domestic              True
beat                 523
district              5
ward                  9
community_area       53
fbi_code             17
x_coordinate         NaN
y_coordinate         NaN
year                 2015
updated_on           2018-08-31 16:01:52
latitude            NaN
longitude            NaN
location             None
Name: 7123, dtype: object
unique_key           7127310
case_number          HR536863
date                 2009-09-14 18:00:00
block                122XX S STEWART AVE
iucr                 1811
primary_type         NARCOTICS
description           POSS: CANNABIS 30GMS OR LESS
location_description  RESIDENCE PORCH/HALLWAY
arrest               True
domestic              False
beat                 523
district              5
ward                  34
community_area       53
fbi_code             18
x_coordinate         NaN
y_coordinate         NaN

```



```

year                2009
updated_on          2015-08-17 15:03:40
latitude            NaN
longitude           NaN
location            None
Name: 7146, dtype: object
unique_key          6350610
case_number         HP436838
date                2008-07-06 20:40:00
block               116XX S PEORIA ST
iucr                0486
primary_type        BATTERY
description         DOMESTIC BATTERY SIMPLE
location_description STREET
arrest              False
domestic            True
beat               524
district            5
ward                34
community_area      53
fbi_code            08B
x_coordinate         NaN
y_coordinate         NaN
year                2008
updated_on          2015-08-17 15:03:40
latitude            NaN
longitude           NaN
location            None
Name: 7412, dtype: object
unique_key          10387650
case_number         HZ123870
date                2015-12-15 19:00:00
block               115XX S HALSTED ST
iucr                0560
primary_type        ASSAULT
description         SIMPLE
location_description PARKING LOT/GARAGE(NON.RESID.)
arrest              False
domestic            False
beat               524
district            5
ward                34
community_area      53
fbi_code            08A
x_coordinate         NaN
y_coordinate         NaN
year                2015
updated_on          2018-02-09 15:44:29
latitude            NaN
longitude           NaN

```

location None
Name: 7535, dtype: object
unique_key 7711495
case_number HS518563
date 2009-04-04 12:00:00
block 119XX S HALSTED ST
iucr 1120
primary_type DECEPTIVE PRACTICE
description FORGERY
location_description CURRENCY EXCHANGE
arrest False
domestic False
beat 524
district 5
ward 34
community_area 53
fbi_code 10
x_coordinate NaN
y_coordinate NaN
year 2009
updated_on 2015-08-17 15:03:40
latitude NaN
longitude NaN
location None

Name: 7723, dtype: object
unique_key 6621990
case_number HP694329
date 2008-11-17 12:00:00
block 015XX W 120TH ST
iucr 1152
primary_type DECEPTIVE PRACTICE
description ILLEGAL USE CASH CARD
location_description RESIDENCE
arrest False
domestic False
beat 524
district 5
ward 34
community_area 53
fbi_code 11
x_coordinate NaN
y_coordinate NaN
year 2008
updated_on 2015-08-17 15:03:40
latitude NaN
longitude NaN
location None
Name: 7734, dtype: object
unique_key 6215440
case_number HP303901

```

date                2008-04-26 12:00:00
block               008XX W 117TH ST
iucr                1320
primary_type        CRIMINAL DAMAGE
description          TO VEHICLE
location_description VEHICLE NON-COMMERCIAL
arrest              False
domestic             True
beat                524
district            5
ward                34
community_area      53
fbi_code             14
x_coordinate         NaN
y_coordinate         NaN
year                2008
updated_on          2015-08-17 15:03:40
latitude            NaN
longitude            NaN
location            None
Name: 7805, dtype: object
unique_key          1954800
case_number          HH142792
date                2002-01-23 03:00:00
block               012XX W 115 ST
iucr                1320
primary_type        CRIMINAL DAMAGE
description          TO VEHICLE
location_description ALLEY
arrest              True
domestic             False
beat                524
district            5
ward                NaN
community_area      NaN
fbi_code             14
x_coordinate         NaN
y_coordinate         NaN
year                2002
updated_on          2016-02-04 06:33:39
latitude            NaN
longitude            NaN
location            None
Name: 7814, dtype: object
unique_key          9783580
case_number          HX417047
date                2014-09-05 18:22:00
block               006XX W 117TH PL
iucr                2014
primary_type        NARCOTICS

```

```

description      MANU/DELIVER: HEROIN (WHITE)
location_description  VEHICLE NON-COMMERCIAL
arrest           True
domestic         False
beat            524
district         5
ward            34
community_area   53
fbi_code         18
x_coordinate     NaN
y_coordinate     NaN
year            2014
updated_on       2016-09-24 15:48:48
latitude         NaN
longitude        NaN
location         None

```

Name: 7930, dtype: object

```

unique_key       2051960
case_number      HH259196
date            2002-03-22 19:30:00
block           005XX W 119 ST
iucr            2024
primary_type     NARCOTICS
description      POSS: HEROIN(WHITE)
location_description  STREET
arrest           True
domestic         False
beat            524
district         5
ward            NaN
community_area   NaN
fbi_code         18
x_coordinate     NaN
y_coordinate     NaN
year            2002
updated_on       2016-02-04 06:33:39
latitude         NaN
longitude        NaN
location         None

```

Name: 7942, dtype: object

```

unique_key       6187195
case_number      HP273364
date            2008-04-11 05:53:01
block           139XX S ATLANTIC
iucr            2027
primary_type     NARCOTICS
description      POSS: CRACK
location_description  RESIDENCE
arrest           False
domestic         False

```

```

beat                524
district            5
ward               34
community_area      NaN
fbi_code            18
x_coordinate         NaN
y_coordinate         NaN
year               2008
updated_on          2015-08-17 15:03:40
latitude            NaN
longitude           NaN
location            None
Name: 7946, dtype: object
unique_key          6294755
case_number          HP384333
date                2003-08-19 00:05:00
block               042XX N BROADWAY
iucr                0840
primary_type         THEFT
description          FINANCIAL ID THEFT: OVER $300
location_description RESIDENCE
arrest              False
domestic             False
beat               2322
district            19
ward               46
community_area      3
fbi_code            06
x_coordinate         NaN
y_coordinate         NaN
year               2003
updated_on          2015-08-17 15:03:40
latitude            NaN
longitude           NaN
location            None
Name: 8112, dtype: object
unique_key          2279615
case_number          HH554069
date                2002-08-02 19:00:00
block               043XX N BROADWAY
iucr                1210
primary_type         DECEPTIVE PRACTICE
description          THEFT OF LABOR/SERVICES
location_description STREET
arrest              False
domestic             False
beat               2322
district            19
ward               46
community_area      3

```

```

fbi_code          11
x_coordinate      NaN
y_coordinate      NaN
year             2002
updated_on       2015-08-17 15:03:40
latitude         NaN
longitude        NaN
location         None
Name: 8155, dtype: object
unique_key       1993460
case_number      HH194926
date            2002-02-18 20:55:00
block           111XX S KING DR
iucr            0265
primary_type     CRIM SEXUAL ASSAULT
description      AGGRAVATED: OTHER
location_description RESIDENCE
arrest          False
domestic        False
beat           531
district        5
ward           NaN
community_area  NaN
fbi_code        02
x_coordinate     NaN
y_coordinate     NaN
year            2002
updated_on       2016-02-04 06:33:39
latitude         NaN
longitude        NaN
location         None
Name: 8225, dtype: object
unique_key       2048090
case_number      HH256472
date            2002-03-21 13:15:00
block           0000X E 115 ST
iucr            0460
primary_type     BATTERY
description      SIMPLE
location_description SCHOOL, PUBLIC, BUILDING
arrest          False
domestic        False
beat           531
district        5
ward           NaN
community_area  NaN
fbi_code        08B
x_coordinate     NaN
y_coordinate     NaN
year            2002

```

```
updated_on      2016-02-04 06:33:39
latitude        NaN
longitude        NaN
location        None
Name: 8317, dtype: object
unique_key      2092165
case_number     HH322754
date            2002-04-22 00:15:00
block           111XX S MICHIGAN AV
iucr            0610
primary_type     BURGLARY
description      FORCIBLE ENTRY
location_description  SMALL RETAIL STORE
arrest          False
domestic        False
beat            531
district         5
ward            NaN
community_area   NaN
fbi_code         05
x_coordinate     NaN
y_coordinate     NaN
year            2002
updated_on      2015-08-17 15:03:40
latitude        NaN
longitude        NaN
location        None
Name: 8449, dtype: object
unique_key      2094495
case_number     HH315919
date            2002-04-18 17:00:00
block           113XX S KING DR
iucr            0820
primary_type     THEFT
description      $500 AND UNDER
location_description  RESIDENCE
arrest          False
domestic        False
beat            531
district         5
ward            NaN
community_area   NaN
fbi_code         06
x_coordinate     NaN
y_coordinate     NaN
year            2002
updated_on      2016-02-04 06:33:39
latitude        NaN
longitude        NaN
location        None
```

Name: 8507, dtype: object
unique_key 1956400
case_number HH145486
date 2002-01-24 13:30:00
block 008XX E 111 ST
iucr 0820
primary_type THEFT
description \$500 AND UNDER
location_description GAS STATION
arrest False
domestic False
beat 531
district 5
ward NaN
community_area NaN
fbi_code 06
x_coordinate NaN
y_coordinate NaN
year 2002
updated_on 2016-02-04 06:33:39
latitude NaN
longitude NaN
location None
Name: 8545, dtype: object
unique_key 11361620
case_number JB325159
date 2017-09-01 00:01:00
block 113XX S FORRESTVILLE AVE
iucr 0890
primary_type THEFT
description FROM BUILDING
location_description SCHOOL, PUBLIC, BUILDING
arrest False
domestic False
beat 531
district 5
ward 9
community_area 50
fbi_code 06
x_coordinate NaN
y_coordinate NaN
year 2017
updated_on 2018-06-28 15:59:19
latitude NaN
longitude NaN
location None
Name: 8571, dtype: object
unique_key 10486370
case_number HZ224571
date 2015-12-01 00:01:00


```

block      111XX S DR MARTIN LUTHER KING JR DR
iucr      1150
primary_type  DECEPTIVE PRACTICE
description CREDIT CARD FRAUD
location_description OTHER
arrest      False
domestic     False
beat      531
district     5
ward        9
community_area  49
fbi_code     11
x_coordinate NaN
y_coordinate NaN
year      2015
updated_on  2018-02-09 15:44:29
latitude     NaN
longitude     NaN
location     None
Name: 8619, dtype: object
unique_key  10807045
case_number JA105934
date      2005-01-01 00:01:00
block      114XX S FOREST AVE
iucr      1153
primary_type  DECEPTIVE PRACTICE
description  FINANCIAL IDENTITY THEFT OVER $ 300
location_description RESIDENCE
arrest      False
domestic     False
beat      531
district     5
ward        9
community_area  49
fbi_code     11
x_coordinate NaN
y_coordinate NaN
year      2005
updated_on  2017-01-07 15:56:13
latitude     NaN
longitude     NaN
location     None
Name: 8625, dtype: object
unique_key  5016860
case_number HL679575
date      2005-10-17 22:00:00
block      005XX E 114TH PL
iucr      1320
primary_type  CRIMINAL DAMAGE
description  TO VEHICLE

```

```

location_description    STREET
arrest                  False
domestic                False
beat                   531
district                5
ward                    9
community_area          50
fbi_code                14
x_coordinate            NaN
y_coordinate            NaN
year                   2005
updated_on              2015-08-17 15:03:40
latitude                NaN
longitude               NaN
location                None
Name: 8676, dtype: object
unique_key              6611470
case_number             HP678755
date                   2008-11-12 07:40:06
block                  007XX E 111TH ST
iucr                    2022
primary_type            NARCOTICS
description             POSS: COCAINE
location_description    JAIL / LOCK-UP FACILITY
arrest                  False
domestic                False
beat                   531
district                5
ward                    9
community_area          50
fbi_code                18
x_coordinate            NaN
y_coordinate            NaN
year                   2008
updated_on              2015-08-17 15:03:40
latitude                NaN
longitude               NaN
location                None
Name: 8799, dtype: object
unique_key              7677125
case_number             HR368622
date                   2009-06-10 20:28:59
block                  007XX E 111TH ST
iucr                    2027
primary_type            NARCOTICS
description             POSS: CRACK
location_description    OTHER
arrest                  False
domestic                False
beat                   531

```

```

district          5
ward              9
community_area    50
fbi_code          18
x_coordinate      NaN
y_coordinate      NaN
year             2009
updated_on        2015-08-17 15:03:40
latitude          NaN
longitude         NaN
location          None
Name: 8801, dtype: object
unique_key        1602485
case_number       G364521
date              2001-06-22 20:13:22
block             017XX W FULLERTON AV
iucr              0820
primary_type      THEFT
description        $500 AND UNDER
location_description  SMALL RETAIL STORE
arrest            True
domestic          False
beat             1811
district          18
ward              NaN
community_area    NaN
fbi_code          06
x_coordinate      NaN
y_coordinate      NaN
year             2001
updated_on        2015-08-17 15:03:40
latitude          NaN
longitude         NaN
location          None
Name: 9050, dtype: object
unique_key        8172210
case_number       HT406313
date              2009-12-20 01:00:00
block             020XX N CLIFTON AVE
iucr              0840
primary_type      THEFT
description        FINANCIAL ID THEFT: OVER $300
location_description  RESIDENCE
arrest            False
domestic          False
beat             1811
district          18
ward              43
community_area    7
fbi_code          06

```

x_coordinate	NaN
y_coordinate	NaN
year	2009
updated_on	2015-08-17 15:03:40
latitude	NaN
longitude	NaN
location	None
Name: 9069, dtype: object	
unique_key	2041490
case_number	HH250258
date	2002-03-18 15:31:10
block	019XX N MAGNOLIA AV
iucr	1811
primary_type	NARCOTICS
description	POSS: CANNABIS 30GMS OR LESS
location_description	STREET
arrest	True
domestic	False
beat	1811
district	18
ward	NaN
community_area	NaN
fbi_code	18
x_coordinate	NaN
y_coordinate	NaN
year	2002
updated_on	2015-08-17 15:03:40
latitude	NaN
longitude	NaN
location	None
Name: 9278, dtype: object	
unique_key	2781120
case_number	HJ428751
date	2003-06-14 10:30:00
block	037XX N LAKE SHORE DR
iucr	0820
primary_type	THEFT
description	\$500 AND UNDER
location_description	PARK PROPERTY
arrest	False
domestic	False
beat	2323
district	19
ward	46
community_area	6
fbi_code	06
x_coordinate	NaN
y_coordinate	NaN
year	2003
updated_on	2015-08-17 15:03:40

```
latitude           NaN
longitude          NaN
location           None
Name: 9378, dtype: object
unique_key         1948255
case_number        HH135649
date               2002-01-18 21:00:00
block              043XX N MARINE DR
iucr               0820
primary_type       THEFT
description        $500 AND UNDER
location_description STREET
arrest             False
domestic           False
beat              2323
district           19
ward              NaN
community_area     NaN
fbi_code           06
x_coordinate       NaN
y_coordinate       NaN
year              2002
updated_on         2015-08-17 15:03:40
latitude           NaN
longitude          NaN
location           None
Name: 9385, dtype: object
unique_key         6663910
case_number        HP737455
date               2005-09-01 00:00:00
block              039XX N PINE GROVE AVE
iucr               0840
primary_type       THEFT
description        FINANCIAL ID THEFT: OVER $300
location_description RESIDENCE
arrest             False
domestic           False
beat              2323
district           19
ward              46
community_area     6
fbi_code           06
x_coordinate       NaN
y_coordinate       NaN
year              2005
updated_on         2015-08-17 15:03:40
latitude           NaN
longitude          NaN
location           None
Name: 9401, dtype: object
```

```

unique_key          2712285
case_number         HJ341248
date               2003-04-28 17:00:00
block              039XX N LAKE SHORE DR
iucr               0890
primary_type        THEFT
description         FROM BUILDING
location_description RESIDENCE
arrest             False
domestic           False
beat              2323
district           19
ward              46
community_area      6
fbi_code           06
x_coordinate        NaN
y_coordinate        NaN
year               2003
updated_on         2015-08-17 15:03:40
latitude           NaN
longitude          NaN
location           None
Name: 9406, dtype: object
unique_key          7845345
case_number         HS658281
date               2005-01-01 00:00:00
block              124XX S STATE ST
iucr               0266
primary_type        CRIM SEXUAL ASSAULT
description         PREDATORY
location_description RESIDENCE
arrest             False
domestic           False
beat              532
district           5
ward              9
community_area      53
fbi_code           02
x_coordinate        NaN
y_coordinate        NaN
year               2005
updated_on         2015-08-17 15:03:40
latitude           NaN
longitude          NaN
location           None
Name: 9505, dtype: object
unique_key          2082425
case_number         HH306385
date               2002-04-14 10:40:00
block              003XX E 115 ST

```

iucr	031A
primary_type	ROBBERY
description	ARMED: HANDGUN
location_description	STREET
arrest	False
domestic	False
beat	532
district	5
ward	NaN
community_area	NaN
fbi_code	03
x_coordinate	NaN
y_coordinate	NaN
year	2002
updated_on	2016-02-04 06:33:39
latitude	NaN
longitude	NaN
location	None
Name: 9522, dtype: object	
unique_key	2000765
case_number	HH202659
date	2002-02-22 14:30:00
block	0000X E 121 PL
iucr	0460
primary_type	BATTERY
description	SIMPLE
location_description	RESIDENCE
arrest	False
domestic	True
beat	532
district	5
ward	NaN
community_area	NaN
fbi_code	08B
x_coordinate	NaN
y_coordinate	NaN
year	2002
updated_on	2016-02-04 06:33:39
latitude	NaN
longitude	NaN
location	None
Name: 9560, dtype: object	
unique_key	1981510
case_number	HH178313
date	2002-02-10 06:40:03
block	002XX E 121 PL
iucr	0460
primary_type	BATTERY
description	SIMPLE
location_description	RESIDENCE

```

arrest                False
domestic              True
beat                 532
district              5
ward                 NaN
community_area        NaN
fbi_code              08B
x_coordinate           NaN
y_coordinate           NaN
year                 2002
updated_on            2016-02-04 06:33:39
latitude              NaN
longitude             NaN
location              None
Name: 9589, dtype: object
unique_key            10456035
case_number           HZ195502
date                  2014-10-01 00:01:00
block                 118XX S STATE ST
iucr                  1153
primary_type          DECEPTIVE PRACTICE
description            FINANCIAL IDENTITY THEFT OVER $ 300
location_description   RESIDENCE
arrest                False
domestic              False
beat                 532
district              5
ward                 9
community_area        53
fbi_code              11
x_coordinate           NaN
y_coordinate           NaN
year                 2014
updated_on            2016-03-22 15:52:15
latitude              NaN
longitude             NaN
location              None
Name: 9839, dtype: object
unique_key            2028715
case_number           HH239811
date                  2002-03-08 22:00:00
block                 001XX E 115 ST
iucr                  1320
primary_type          CRIMINAL DAMAGE
description            TO VEHICLE
location_description   STREET
arrest                False
domestic              False
beat                 532
district              5

```



```

ward                NaN
community_area      NaN
fbi_code            14
x_coordinate        NaN
y_coordinate        NaN
year               2002
updated_on         2016-02-04 06:33:39
latitude           NaN
longitude          NaN
location           None

```

Name: 9886, dtype: object

```

unique_key case_number      date      block iucr \
0    3045  HL177967 2005-02-12 20:47:00  007XX E 103RD ST 0110
1    3205  HL435664 2005-06-21 21:28:00  103XX S INDIANA AVE 0110
2    20900 HW295447 2013-05-29 15:11:00  000XX W 107TH ST 0110
3    1710710 G513455 2001-08-27 23:55:00  104XX S STATE ST 0265
4    11363170 JB327133 2018-06-29 00:44:13  002XX W 104TH ST 0281

```

```

primary_type      description location_description arrest \
0      HOMICIDE FIRST DEGREE MURDER      RETAIL STORE  True
1      HOMICIDE FIRST DEGREE MURDER      STREET      True
2      HOMICIDE FIRST DEGREE MURDER      STREET      True
3 CRIM SEXUAL ASSAULT  AGGRAVATED: OTHER      RESIDENCE False
4 CRIM SEXUAL ASSAULT  NON-AGGRAVATED      RESIDENCE False

```

```

domestic      ...      ward community_area fbi_code \
0  False      ...      9.0      50.0  01A
1  False      ...      9.0      49.0  01A
2  False      ...      34.0      49.0  01A
3  False      ...      NaN      NaN   02
4  False      ...      34.0      49.0  02

```

```

x_coordinate y_coordinate year      updated_on latitude longitude \
0    1182951.0  1836828.0 2005 2015-08-17 15:03:40  41.707456 -87.605637
1    1179414.0  1836239.0 2005 2015-08-17 15:03:40  41.705921 -87.618608
2    1177693.0  1834013.0 2013 2015-08-17 15:03:40  41.699851 -87.624977
3    1178136.0  1835744.0 2001 2015-08-17 15:03:40  41.704591 -87.623303
4    1176571.0  1835979.0 2018 2018-07-06 15:55:18  41.705272 -87.629026

```

```

location
0 (41.707455731, -87.605637491)
1 (41.705920727, -87.618607847)
2 (41.699851294, -87.624977038)
3 (41.70459139, -87.623302709)
4 (41.705271529, -87.629026445)

```

[5 rows x 22 columns]

So there are rows for which there is no location set. Need to clean it up.

```
(df2[df2["location"] != False]).head()
#df2.head()
```

```
NameErrorTraceback (most recent call last)
<ipython-input-1-74cf8e19ee0e> in <module>()
----> 1 (df2[df2["location"] != False]).head()
      2 #df2.head()
```

NameError: name 'df2' is not defined

```
#checking if there still are any rows with no location data set
for index, row in df2.iterrows():
    try:
        tmp = row['location'][0:8]
    except TypeError:
        print(row['location'])
```

No rows with empty coordinates left (good) but also no change in location (bad).

```
#df2.head()
df3=copy.deepcopy(df)
df3.head()
```

	unique_key	case_number	date	block	iucr	primary_type	description	location_descript
0	3045	HL177967	2005-02-12 20:47:00	007XX E 103RD ST	0110	HOMICIDE	FIRST DEGREE MURDER	RETAIL STORE
1	3205	HL435664	2005-06-21 21:28:00	103XX S INDIANA AVE	0110	HOMICIDE	FIRST DEGREE MURDER	STREET
2	20900	HW295447	2013-05-29 15:11:00	000XX W 107TH ST	0110	HOMICIDE	FIRST DEGREE MURDER	STREET
3	1710710	G513455	2001-08-27 23:55:00	104XX S STATE ST	0265	CRIM SEXUAL ASSAULT	AGGRAVATED: OTHER	RESIDENCE
4	11363170	JB327133	2018-06-29 00:44:13	002XX W 104TH ST	0281	CRIM SEXUAL ASSAULT	NON-AGGRAVATED	RESIDENCE

5 rows × 22 columns

```
print((df3[df3["location"] != False]).shape[0])  
print((df3[df3["location"] == False]).shape[0])  
print((df3[df3["location"].notnull()]).shape[0])
```

10000

0

9880

```
#this is how to filter rows with None in location  
df3 = df3[df3["location"].notnull()]  
print(df3.shape[0])
```

9880

```
#let's really change the location
for index, row in df3.iterrows():
    try:
        #print("index="+index)
        tmp = row['location'][0:7] + "000000" + row['location'][12:23] + "000000)"
        print("tmp="+tmp)
        df3.set_value(index, 'location', tmp)
        #break
    except TypeError:
        print("TypeError in:" + row)
#print(df3.head())
```

```
tmp=(41.7070000000,-87.6056000000)
tmp=(41.7050000000,-87.6186000000)
tmp=(41.6990000000,-87.6249000000)
tmp=(41.7040000000,-87.6233000000)
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/usr/local/envs/py2env/lib/python2.7/site-packages/ipykernel/__main__.py:7: FutureWarning: set_value is deprecated and will be removed in a future release. Please use .at[] or .iat[] accessors instead
```

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```

```
print(df3.head())
```

```

unique_key case_number      date      block iucr \
0    3045  HL177967 2005-02-12 20:47:00  007XX E 103RD ST 0110
1    3205  HL435664 2005-06-21 21:28:00  103XX S INDIANA AVE 0110
2    20900  HW295447 2013-05-29 15:11:00  000XX W 107TH ST 0110
3    1710710  G513455 2001-08-27 23:55:00  104XX S STATE ST 0265
4    11363170  JB327133 2018-06-29 00:44:13  002XX W 104TH ST 0281

primary_type      description location_description arrest \
0      HOMICIDE FIRST DEGREE MURDER      RETAIL STORE  True
1      HOMICIDE FIRST DEGREE MURDER      STREET  True
2      HOMICIDE FIRST DEGREE MURDER      STREET  True
3  CRIM SEXUAL ASSAULT  AGGRAVATED: OTHER      RESIDENCE  False
4  CRIM SEXUAL ASSAULT  NON-AGGRAVATED      RESIDENCE  False

domestic      ...      ward community_area fbi_code \
0  False      ...      9.0      50.0      01A
1  False      ...      9.0      49.0      01A
2  False      ...      34.0      49.0      01A
3  False      ...      NaN      NaN      02
4  False      ...      34.0      49.0      02

x_coordinate y_coordinate year      updated_on latitude longitude \
0  1182951.0  1836828.0 2005 2015-08-17 15:03:40  41.707456 -87.605637
1  1179414.0  1836239.0 2005 2015-08-17 15:03:40  41.705921 -87.618608
2  1177693.0  1834013.0 2013 2015-08-17 15:03:40  41.699851 -87.624977
3  1178136.0  1835744.0 2001 2015-08-17 15:03:40  41.704591 -87.623303
4  1176571.0  1835979.0 2018 2018-07-06 15:55:18  41.705272 -87.629026

location
0 (41.7070000000, -87.6056000000)
1 (41.7050000000, -87.6186000000)
2 (41.6990000000, -87.6249000000)
3 (41.7040000000, -87.6233000000)
4 (41.7050000000, -87.6290000000)

```

```
[5 rows x 22 columns]
```

```
#let's plot the crime area
#first, sum up crime # in same location
df4 = df3.groupby('location').count()
df4.head()
#df4.plot(x='location', y='count', logy=True, kind='bar');
```

	unique_key	case_number	date	block	iucr	primary_type	description	location_descrip
location								
(41.6580000000, -87.6340000000)	2	2	2	2	2	2	2	2
(41.6580000000, -87.6357000000)	1	1	1	1	1	1	1	1
(41.6580000000, -87.6380000000)	1	1	1	1	1	1	1	1
(41.6580000000, -87.6393000000)	1	1	1	1	1	1	1	1
(41.6580000000, -87.6404000000)	3	3	3	3	3	3	3	3

5 rows × 21 columns

```
df5=df4.sort_values(by='case_number', ascending=False)
df5.head()
```

	unique_key	case_number	date	block	iucr	primary_type	description	location_descrip
location								
(41.7050000000, -87.6009000000)	40	40	40	40	40	40	40	40
(41.6920000000, -87.6043000000)	39	39	39	39	39	39	39	39
(41.7070000000, -87.6018000000)	39	39	39	39	39	39	39	39
(41.9640000000, -87.6547000000)	33	33	33	33	33	33	33	33
(41.8490000000, -87.7088000000)	33	33	33	33	33	33	33	33

5 rows × 21 columns

```
df5.plot(x='location', y='case_number', kind='bar')
```

KeyErrorTraceback (most recent call last)

<ipython-input-39-58b3f5d49b01> in <module>()

----> 1 df5.plot(x='location', y='case_number', kind='bar')

/usr/local/envs/py2env/lib/python2.7/site-packages/pandas/plotting/_core.pyc in __call__(self, x, y, kind, ax, subplots, sharex, sharey, layout, figsize, use_index, title, grid, legend, style, logx, logy, loglog, xticks, yticks, xlim, ylim, rot, fontsize, colormap, table, yerr, xerr, secondary_y, sort_columns, **kwds)

2675 fontsize=fontsize, colormap=colormap, table=table,
2676 yerr=yerr, xerr=xerr, secondary_y=secondary_y,
-> 2677 sort_columns=sort_columns, **kwds)

2678 __call__.__doc__ = plot_frame.__doc__

2679

/usr/local/envs/py2env/lib/python2.7/site-packages/pandas/plotting/_core.pyc in plot_frame(data, x, y, kind, ax, subplots, sharex, sharey, layout, figsize, use_index, title, grid, legend, style, logx, logy, loglog, xticks, yticks, xlim, ylim, rot, fontsize, colormap, table, yerr, xerr, secondary_y, sort_columns, **kwds)

1900 yerr=yerr, xerr=xerr,
1901 secondary_y=secondary_y, sort_columns=sort_columns,
-> 1902 **kwds)

1903

1904

/usr/local/envs/py2env/lib/python2.7/site-packages/pandas/plotting/_core.pyc in _plot(data, x, y, subplots, ax, kind, **kwds)

1707 if is_integer(x) and not data.columns.holds_integer():
1708 x = data.columns[x]
-> 1709 data = data.set_index(x)

1710

1711 if y is not None:

/usr/local/envs/py2env/lib/python2.7/site-packages/pandas/core/frame.pyc in set_index(self, keys, drop, append, inplace, verify_integrity)

3144 names.append(None)
3145 else:
-> 3146 level = frame[col]._values
3147 names.append(col)
3148 if drop:

/usr/local/envs/py2env/lib/python2.7/site-packages/pandas/core/frame.pyc in __getitem__(self, key)

2137 return self._getitem_multilevel(key)
2138 else:
-> 2139 return self._getitem_column(key)

2140

2141 def _getitem_column(self, key):

/usr/local/envs/py2env/lib/python2.7/site-packages/pandas/core/frame.pyc in _getitem_column(self, key)

```

2144     # get column
2145     if self.columns.is_unique:
-> 2146         return self._get_item_cache(key)
2147
2148     # duplicate columns & possible reduce dimensionality

/usr/local/envs/py2env/lib/python2.7/site-packages/pandas/core/generic.pyc in _get_item_cache(self, item)
1840     res = cache.get(item)
1841     if res is None:
-> 1842         values = self._data.get(item)
1843         res = self._box_item_values(item, values)
1844         cache[item] = res

/usr/local/envs/py2env/lib/python2.7/site-packages/pandas/core/internals.pyc in get(self, item, fastpath)
3841
3842     if not isna(item):
-> 3843         loc = self.items.get_loc(item)
3844     else:
3845         indexer = np.arange(len(self.items))[isna(self.items)]

/usr/local/envs/py2env/lib/python2.7/site-packages/pandas/core/indexes/base.pyc in get_loc(self, key, method, tolerance)
2525         return self._engine.get_loc(key)
2526     except KeyError:
-> 2527         return self._engine.get_loc(self._maybe_cast_indexer(key))
2528
2529     indexer = self.get_indexer([key], method=method, tolerance=tolerance)

pandas/_libs/index.pyx in pandas._libs.index.IndexEngine.get_loc()

pandas/_libs/index.pyx in pandas._libs.index.IndexEngine.get_loc()

pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashTable.get_item()

pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashTable.get_item()

KeyError: 'location'

```

The above is because index was set to location , need to be reset
<https://stackoverflow.com/questions/31167896/keyerror-in-dataframe>
 (<https://stackoverflow.com/questions/31167896/keyerror-in-dataframe>).


```
df5 = df5.reset_index()
df5.head(1)
```

	index	location	unique_key	case_number	date	block	iucr	primary_type	description	location
0	0	(41.7050000000, -87.6009000000)	40	40	40	40	40	40	40	40

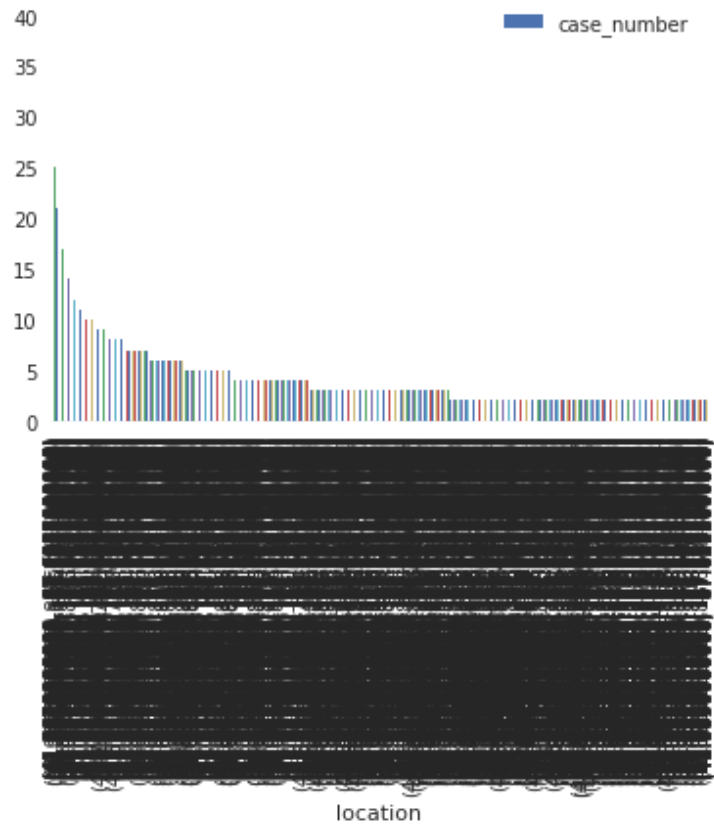
1 rows × 23 columns

```
print(df5.shape[0])
df5 = df5[df5['case_number']>1]
print(df5.shape[0])
```

4174
1784

```
df5.plot(x='location', y='case_number', kind='bar')
```

<matplotlib.axes._subplots.AxesSubplot at 0x7f9538462f90>



Cant' see much from the chart.

Anyway, this is the area with most crimes: <https://goo.gl/maps/sG6bqFV9Xcm>
(<https://goo.gl/maps/sG6bqFV9Xcm>).

in my dataframe (**not** in Chicago - since I only took 10,000 rows from the > 1 M rows)
(after removing 6xzeros from both latitude and longitude)