Notebook

May 4, 2019

Contents

0.1 Crime dataset exploration				4
Collecting package metadata: done Solving environment: - The environment is inconsistent, please check the package plan carefully The following packages are causing the inconsistency:				ı
- conda-forge/linux-64::opencv==3.4.4=py37_blas_openblash85ad109_1203 - conda-forge/linux-64::matplotlib==3.0.3=py37_1 done			d109_1203	
## Package Plan ##				
environment location: /opt/c	onda			
added / updated specs: - geopy				
The following packages will be	downloa	ided:		
package 	1	build		
blas-2.8		openblas	6	KB
conda-forge geographiclib-1.49	1	py_0	32	КВ
conda-forge geopy-1.19.0	1	py_0	53	КВ
conda-forge libblas-3.8.0	1	8_openblas	6	KB
conda-forge libcblas-3.8.0	1	8_openblas	6	KB
conda-forge liblapack-3.8.0	1	8_openblas	6	KB
<pre>conda-forge liblapacke-3.8.0</pre>	I	8_openblas	6	KB
conda-forge numpy-1.15.4	lpv37h8	b7e671_1002		MB
conda-forge openblas-0.3.6		h6e990d7_1		

```
conda-forge
   scikit-learn-0.20.3
                       | py37ha8026db_1
                                            5.7 MB conda
-forge
   scipy-1.2.1
                        | py37h09a28d5_1
conda-forge
                                  Total:
                                         43.9 MB
The following NEW packages will be INSTALLED:
 geographiclib
                conda-forge/noarch::geographiclib-1.49-py_0
                conda-forge/noarch::geopy-1.19.0-py_0
 geopy
 libblas
                conda-forge/linux-64::libblas-3.8.0-8_openblas
 libcblas
                conda-forge/linux-64::libcblas-3.8.0-8_openblas
 liblapack
                conda-forge/linux-64::liblapack-3.8.0-8_openblas
 liblapacke
                conda-forge/linux-64::liblapacke-3.8.0-8_openblas
The following packages will be UPDATED:
 blas
                                     1.1-openblas --> 2.8-
openblas
                1.15.4-py37_blas_openblash1522bff_1000 --> 1.15.4-
 numpy
py37h8b7e671_1002
 openblas
                               0.3.3-h9ac9557 1001 --> 0.3.6-
h6e990d7_1
                0.20.3-py37_blas_openblashebff5e3_0 --> 0.20.3-
scikit-learn
py37ha8026db 1
                   1.2.1-py37_blas_openblash1522bff_0 --> 1.2.1-
 scipy
py37h09a28d5_1
Downloading and Extracting Packages
blas-2.8 | 6 KB
########### | 100%
scipy-1.2.1 | 18.1 MB
########### | 100%
geographiclib-1.49 | 32 KB |
########### | 100%
openblas-0.3.6 | 15.8 MB |
########### | 100%
numpy-1.15.4 | 4.2 MB |
########### | 100%
liblapacke-3.8.0 | 6 KB
########### | 100%
liblapack-3.8.0 | 6 KB
########### | 100%
scikit-learn-0.20.3 | 5.7 MB
########### | 100%
libblas-3.8.0 | 6 KB
########### | 100%
geopy-1.19.0 | 53 KB |
########### | 100%
libcblas-3.8.0 | 6 KB
########## | 100%
Preparing transaction: done
Verifying transaction: done
```

2

```
Executing transaction: done
Collecting package metadata: done
Solving environment: \
The environment is inconsistent, please check the package plan
carefully
The following packages are causing the inconsistency:
 - conda-forge/linux-64::opencv==3.4.4=py37_blas_openblash85ad109_1203
 - conda-forge/linux-64::matplotlib==3.0.3=py37_1
done
## Package Plan ##
 environment location: /opt/conda
 added / updated specs:
   - folium = 0.5.0
The following packages will be downloaded:
                                      build
   package
                          py37_0
   altair-3.0.1
                                             727 KB
conda-forge
   branca-0.3.1
                          py_0
                                                   25 KB
conda-forge
   folium-0.5.0
                                                   45 KB
                                       py_0
conda-forge
             _____
                                                  797 KB
                                      Total:
The following NEW packages will be INSTALLED:
                  conda-forge/linux-64::altair-3.0.1-py37_0
 altair
                  conda-forge/noarch::branca-0.3.1-py_0
 branca
 folium
                  conda-forge/noarch::folium-0.5.0-py_0
Downloading and Extracting Packages
                  | 727 KB |
altair-3.0.1
########### | 100%
folium-0.5.0 | 45 KB
########### | 100%
branca-0.3.1 | 25 KB
########### | 100%
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
Folium installed
Libraries imported.
```

Your credentails:

CLIENT_ID: R3IASVU5PXYSX2RCMNB3KJTEKMUSRXIOZKQX1NMB0V1LY4W0 CLIENT_SECRET:RHZYEXWQ5AUX3D1VFFGPR4QXKLZP0EJJZFMPZX5UHOMV32HP

0.1 Crime dataset exploration

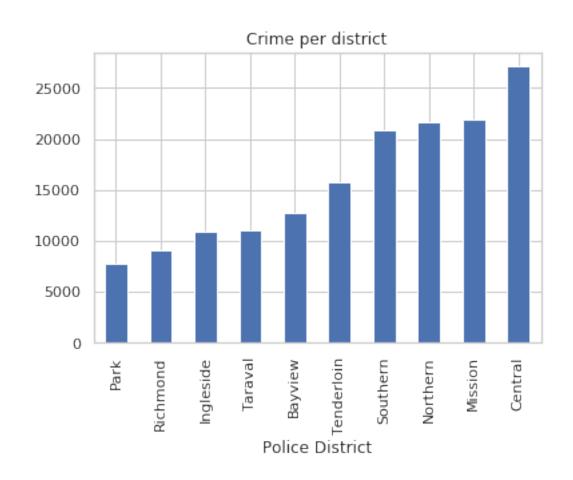
```
Incident Datetime Incident Date Incident Time Incident Year
0 2018/12/02 12:45:00 AM
                              2018/12/02
                                                  00:45
                                                                   2018
1 2018/12/01 08:30:00 PM
                              2018/12/01
                                                 20:30
                                                                   2018
2 2019/03/18 02:01:00 PM
                              2019/03/18
                                                 14:01
                                                                   2019
3 2019/03/20 08:00:00 AM
                                                  08:00
                              2019/03/20
                                                                   2019
4 2019/03/12 01:30:00 PM
                              2019/03/12
                                                  13:30
                                                                   2019
 Incident Day of Week
                               Report Datetime
                                                     Row ID Incident
ID \
0
                Sunday 2018/12/02 01:56:00 AM 74374327130
743743
              Saturday 2018/12/01 09:18:00 PM 74370071000
1
743700
                Monday 2019/03/18 02:21:00 PM 78164004134
2
781640
             Wednesday 2019/03/20 02:06:00 PM 78169706244
3
781697
4
               Tuesday 2019/03/15 06:02:00 PM 78154706372
781547
   Incident Number CAD Number ...
                                       Longitude
         180908554 183360210.0
                                 ... -122.404795
0
                                 ... -122.408036
         180908112 183353564.0
1
         190194129 190772267.0 ... -122.406699
2
         190199583 190792201.0 ... -122.404865
3
4
         196055103
                            NaN ...
                                              {\tt NaN}
                                   point SF Find Neighborhoods
    (37.78490829943, -122.40479506276)
0
                                                           32.0
  (37.786409612811, -122.408036237445)
(37.756833733806, -122.406699002688)
1
                                                           19.0
                                                           53.0
2
  (37.78400661242, -122.404864795177)
                                                           32.0
3
                                     NaN
                                                            NaN
   Current Police Districts Current Supervisor Districts \
0
                         5.0
                                                      10.0
                         6.0
1
                                                       3.0
2
                         3.0
                                                       2.0
3
                         1.0
                                                      10.0
                         {\tt NaN}
                                                       NaN
  Analysis Neighborhoods HSOC Zones as of 2018-06-05 OWED Public Spaces
0
                     8.0
                                                   NaN
NaN
1
                     36.0
                                                   NaN
NaN
2
                    20.0
                                                   3.0
NaN
                     34.0
                                                   NaN
NaN
                                                   NaN
4
                     NaN
```

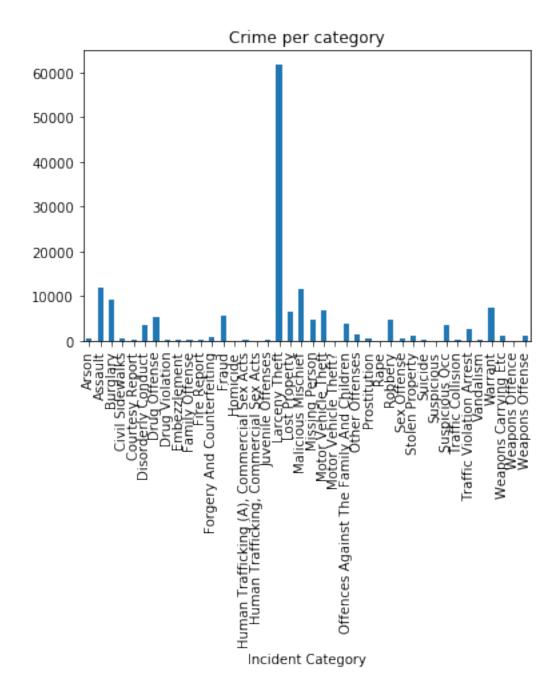
```
NaN
  Central Market/Tenderloin Boundary Polygon - Updated \
                                                  NaN
1
                                                  1.0
2
                                                  NaN
                                                  NaN
3
4
                                                  NaN
   Parks Alliance CPSI (27+TL sites)
0
                                  NaN
1
                                  NaN
2
                                  NaN
3
                                  NaN
4
                                  NaN
[5 rows x 34 columns]
  Police District Latitude Longitude
                                             Incident Category
         Southern 37.784908 -122.404795
                                          Other Miscellaneous
1
          Central 37.786410 -122.408036
                                                Lost Property
         Mission 37.756834 -122.406699
2
                                                       Assault
         Southern 37.784007 -122.404865
                                                 Larceny Theft
3
                                                 Larceny Theft
          Central
                         NaN
                                      NaN
         Police District Latitude Longitude Incident Category
0 60407
                Bayview 37.728051 -122.382126
                                                             Assault
1 192597
                 Central 37.791716 -122.398264
                                                       Larceny Theft
                                                       Larceny Theft
2 109345
              Ingleside
                          37.709540 -122.457670
3 62767
                Mission 37.765606 -122.410487 Disorderly Conduct
4 70315
                Northern 37.785373 -122.431366
                                                       Larceny Theft
5 122448
                    Park 37.767462 -122.433408
                                                       Lost Property
6 47072
                Richmond 37.768157 -122.500460
                                                         Fire Report
7 173837
                Southern 37.789369 -122.391858
                                                        Non-Criminal
8 194798
                 Taraval 37.763943 -122.468451
                                                             Assault
9 29790
              Tenderloin 37.786520 -122.414807
                                                               Fraud
                              Incident Category
                                                 Count
        Human Trafficking, Commercial Sex Acts
0
                                                     5
1
                                Weapons Offence
                                                     6
2
                                       Gambling
                                                    17
3
                                       Homicide
                                                    30
4
                                     Suspicious
                                                    32
5
                          Motor Vehicle Theft?
                                                    37
6
                                    Liquor Laws
                                                    42
                                                   56
7
                                           Rape
8
                                 Drug Violation
                                                    61
9
                                        Suicide
                                                    81
10
                              Vehicle Misplaced
                                                    82
    Human Trafficking (A), Commercial Sex Acts
                                                    85
11
12
                              Vehicle Impounded
                                                   130
13
                                Courtesy Report
                                                  131
14
                                    Fire Report
                                                   189
15
                                      Vandalism
                                                   235
```

```
16
                                    Embezzlement
                                                     236
17
                                  Family Offense
                                                     255
18
                               Juvenile Offenses
                                                     263
19
                               Traffic Collision
                                                     354
20
                                     Sex Offense
                                                    402
21
                                            Arson
                                                    453
22
                                                    569
                                    Prostitution
23
                                 Civil Sidewalks
                                                     640
24
                                    Case Closure
                                                     773
25
                     Forgery And Counterfeiting
                                                     882
26
                                 Stolen Property
                                                    1037
27
                                 Weapons Offense
                                                    1047
28
                            Weapons Carrying Etc
                                                    1082
29
                                                    1239
                                            Other
30
                                  Other Offenses
                                                    1360
31
                    Miscellaneous Investigation
                                                    1731
32
                       Traffic Violation Arrest
                                                    2721
33
                              Disorderly Conduct
                                                    3430
34
                                  Suspicious Occ
                                                    3578
      Offences Against The Family And Children
35
                                                    3886
36
                               Recovered Vehicle
                                                    4218
37
                                  Missing Person
                                                    4648
38
                                                    4718
                                          Robbery
39
                                    Drug Offense
                                                    5361
40
                                                    5628
                                            Fraud
41
                                   Lost Property
                                                    6590
42
                             Motor Vehicle Theft
                                                    6820
43
                                          Warrant
                                                    7423
44
                                                    9077
                                         Burglary
                              Malicious Mischief 11589
45
                                                  11813
46
                                          Assault
47
                                    Non-Criminal
                                                  12347
48
                             Other Miscellaneous
                                                  15545
49
                                   Larceny Theft
                                                   61902
Cleaned 36124 records, number of incidents left is 158729
                               Incident Category
                                                   Count
0
        Human Trafficking, Commercial Sex Acts
                                                       5
1
                                 Weapons Offence
                                                       6
2
                                         Homicide
                                                      30
3
                                       Suspicious
                                                      32
                            Motor Vehicle Theft?
4
                                                      37
5
                                             Rape
                                                      56
6
                                  Drug Violation
                                                      81
7
                                          Suicide
    Human Trafficking (A), Commercial Sex Acts
8
                                                      85
9
                                 Courtesy Report
                                                     131
10
                                     Fire Report
                                                     189
                                        Vandalism
11
                                                     235
12
                                    Embezzlement
                                                     236
13
                                  Family Offense
                                                     255
                               Juvenile Offenses
14
                                                     263
15
                               Traffic Collision
                                                     354
16
                                     Sex Offense
                                                     402
17
                                            Arson
                                                     453
18
                                    Prostitution
                                                     569
```

19	Civil Sidewalks	640	
20	Forgery And Counterfeiting	882	
21	Stolen Property	1037	
22	Weapons Offense	1047	
23	Weapons Carrying Etc	1082	
24	Other Offenses	1360	
25	Traffic Violation Arrest	2721	
26	Disorderly Conduct	3430	
27	Suspicious Occ	3578	
28	Offences Against The Family And Children	3886	
29	Missing Person	4648	
30	Robbery	4718	
31	Drug Offense	5361	
32	Fraud	5628	
33	Lost Property	6590	
34	Motor Vehicle Theft	6820	
35	Warrant	7423	
36	Burglary	9077	
37	Malicious Mischief	11589	
38	Assault	11813	
39	Larceny Theft	61902	

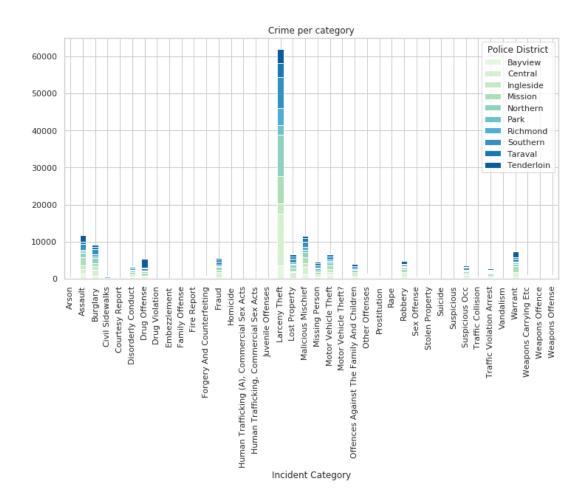
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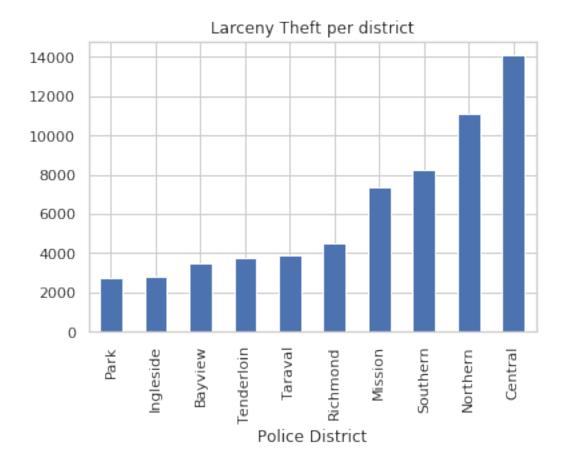


	Incident Category	Police District	count
0	Larceny Theft	Central	14091
1	Larceny Theft	Northern	11128
2	Larceny Theft	Southern	8234
3	Larceny Theft	Mission	7334
4	Larceny Theft	Richmond	4533
5	Larceny Theft	Taraval	3866
6	Larceny Theft	Tenderloin	3734
7	Larceny Theft	Bayview	3487

```
8
                                                                      2792
                                    Larceny Theft
                                                        Ingleside
9
                                                                      2703
                                    Larceny Theft
                                                              Park
                                     Drug Offense
                                                        Tenderloin
10
                                                                      2402
                                                          Mission 2054
11
                                          Assault
                              Malicious Mischief
12
                                                           Central
                                                                   1915
13
                                          Assault
                                                        Tenderloin 1815
14
                                          Warrant
                                                        Tenderloin
                                                                     1729
15
                                         Burglary
                                                           Central
                                                                      1590
16
                                          Assault
                                                          Southern
                                                                      1586
17
                              Malicious Mischief
                                                         Southern
                                                                      1570
18
                                                          Mission 1540
                              Malicious Mischief
19
                              Malicious Mischief
                                                          Northern 1512
20
                                          Warrant
                                                          Mission 1462
21
                                    Lost Property
                                                           Central
                                                                     1461
22
                                                                      1407
                                         Burglary
                                                          Southern
23
                                          Assault
                                                           Central
                                                                      1363
24
                                         Burglary
                                                          Northern
                                                                      1358
25
                                          Assault
                                                                      1311
                                                          Bayview
26
                              Malicious Mischief
                                                          Bayview
                                                                      1275
27
                                                                     1253
                                          Assault
                                                          Northern
28
                              Motor Vehicle Theft
                                                          Bayview
                                                                      1118
29
                                                                      1032
                                    Lost Property
                                                          Southern
. .
                                                               . . .
                                                                       . . .
344
         Human Trafficking, Commercial Sex Acts
                                                          Southern
                                                                         3
345
                                 Civil Sidewalks
                                                        Tenderloin
                                                                         3
346
                                                                         3
                                         Homicide
                                                         Southern
347
                                         Homicide
                                                          Central
                                                                         3
348
                                  Weapons Offence
                                                          Mission
                                                                         2
349
                                     Prostitution
                                                        Ingleside
                                                                         2
350
                                                                         2
                                             Rape
                                                          Central
                                                                         2
351
                                   Drug Violation
                                                          Northern
                                  Weapons Offence
352
                                                           Central
                                                                         2
353
                            Motor Vehicle Theft?
                                                                         2
                                                        Tenderloin
354
                                                                         2
                                                          Richmond
                                             Rape
355
                                         Homicide
                                                          Northern
                                                                         2
356
                                             Rape
                                                              Park
                                                                         2
357
                                       Suspicious
                                                          Northern
                                                                         1
358
         Human Trafficking, Commercial Sex Acts
                                                          Mission
                                                                         1
359
                                   Drug Violation
                                                                         1
                                                              Park
                                                         Ingleside
360
     Human Trafficking (A), Commercial Sex Acts
                                                                         1
361
                                         Homicide
                                                          Richmond
                                                                         1
362
                            Motor Vehicle Theft?
                                                              Park
                                                                         1
363
                            Motor Vehicle Theft?
                                                         Richmond
364
         Human Trafficking, Commercial Sex Acts
                                                         Ingleside
                                                                         1
365
                                Juvenile Offenses
                                                          Central
                                                                         1
366
                                       Suspicious
                                                           Mission
                                                                         1
367
                                         Homicide
                                                         Ingleside
                                                                         1
                                       Suspicious
368
                                                          Taraval
                                                                         1
369
                                       Suspicious
                                                              Park
                                                                         1
370
                                  Weapons Offence
                                                        Tenderloin
                                                                         1
                                  Weapons Offence
371
                                                          Taraval
                                                                         1
372
                                       Suspicious
                                                           Bayview
                                                                         1
     Human Trafficking (A), Commercial Sex Acts
                                                           Bayview
                                                                         1
[374 rows x 3 columns]
```



<matplotlib.axes._subplots.AxesSubplot at 0x7f50897540b8>



```
/opt/conda/lib/python3.7/site-packages/numpy/core/_methods.py:32:
RuntimeWarning: invalid value encountered in reduce
  return umr_minimum(a, axis, None, out, keepdims, initial)
/opt/conda/lib/python3.7/site-packages/numpy/core/_methods.py:28:
RuntimeWarning: invalid value encountered in reduce
  return umr_maximum(a, axis, None, out, keepdims, initial)
/opt/conda/lib/python3.7/site-packages/matplotlib/colors.py:512:
RuntimeWarning: invalid value encountered in less
  xa[xa < 0] = -1</pre>
```

<pandas.io.formats.style.Styler at 0x7f50896f2940>

https://api.foursquare.com/v2/venues/explore?client_id=
R3IASVU5PXYSX2RCMNB3KJTEKMUSRXIOZKQX1NMB0V1LY4W0&client_secret=
RHZYEXWQ5AUX3D1VFFGPR4QXKLZP0EJJZFMPZX5UHOMV32HP&11
=37.728051442991145,-122.38212570745505&v=20180604&radius=1000&limit
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https://api.foursquare.com/v2/venues/explore?client_id=
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=3000
https://api.foursquare.com/v2/venues/explore?client_id=
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122.43340825880185\&v=20180604\&radius=1000\&limit=3000
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122.50045983043844&v=20180604&radius=1000&limit=3000
https://api.foursquare.com/v2/venues/explore?client_id=
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122.39185829145077&v=20180604&radius=1000&limit=3000
https://api.foursquare.com/v2/venues/explore?client_id=
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122.41480664938405&v=20180604&radius=1000&limit=3000
```

```
Police District reasons.count
0
          Bayview
                               0
1
          Bayview
                               0
                               0
2
          Bayview
                               Λ
3
          Bayview
          Bayview
                                       reasons.items
  [{'summary': 'This spot is popular', 'type': '...
0
   [{'summary': 'This spot is popular', 'type': '...
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2
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1
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2
                                         NaN
                                         NaN
3
  /delivery_provider_grubhub_20180129.png
        venue.delivery.provider.icon.prefix
0
1
                                          {\tt NaN}
2
                                          NaN
3
  https://fastly.4sqi.net/img/general/cap/
  venue.delivery.provider.icon.sizes venue.delivery.provider.name
  \
0
                                  NaN
                                                                 NaN
1
                                  NaN
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                                                                      . . .
2
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                                  NaN
3
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                                                             grubhub
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1
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94124
         -122.391536
                                           Bayview
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94124
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94124
  venue.location.state
                                              venue.name venue.photos.
count \
```

0	CA	The San Francisco Mead Company
	0	
1	CA	Archimedes Banya
2	O CA	Craftsman and Wolves Den
2	0 CA	Claitsman and wolves ben
3		Bayview Hunters Point YMCA
	0	•
4	CA	JJ Fish & Chicken
	0	
	wonue photog groups v	ronue wonueDago id
	venue.photos.groups v	_
0	LJ	NaN
1	[]	NaN
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3		NaN
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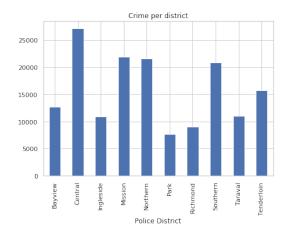
Empty DataFrame

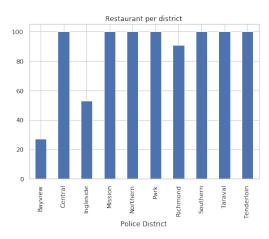
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Index: []

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${\tt <matplotlib.axes._subplots.AxesSubplot}$ at ${\tt 0x7f52d6dbaeb8>}$





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GeoJSON file downloaded!

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