SIMPLICATION **Assignment 02: Evaluate the FDNY Dataset** The comments/sections provided are your cues to perform the assignment. You don't need to limit yourself to the number of rows/cells provided. You can add additional rows in each section to add more lines of code. If at any point in time you need help on solving this assignment, view our demo video to understand the different steps of the code. Happy coding! 1: View and import the dataset #Import the required libraries import pandas as pd import numpy as np #Import the Fire Department of New York City (FDNY) file fire department = pd.read csv('../FDNY/FDNY.csv')

In [2]: 2: Analyze the dataset In [3]: #View the content of the data

FacilityAddress

FacilityAddress

42 South Street

124 Liberty Street

49 Beekman Street

256 Nelson Avenue

345 Annadale Road

1100 Rossville Avenue

7219 Amboy Road

Borough

Borough

Manhattan

Manhattan

Manhattan

Borough

Manhattan

Manhattan

Manhattan

Manhattan

1560 Drumgoole Road West

FacilityAddress

FacilityAddress

42 South Street

124 Liberty Street

49 Beekman Street

FacilityAddress

42 South Street

124 Liberty Street

49 Beekman Street

100-104 Duane Street

Ladder 8 14 North Moore Street Manhattan

218

5

66

FacilityAddress Borough

218

218

1

100-104 Duane Street

Borough

Borough

Manhattan

Manhattan

Manhattan

Manhattan

Staten Island

Staten Island

Staten Island

Staten Island

Staten Island

FacilityName

FacilityName

Engine 6

Engine 4/Ladder 15

Engine 10/Ladder 10

Engine 167/Ladder 87

Engine 164/Ladder 84

Engine 151/Ladder 76

FacilityName

FacilityName

Engine 6

Engine 7/Ladder 1/Battalion 1/Manhattan Boroug... 100-104 Duane Street Manhattan

FacilityName

Engine 6

Engine 4/Ladder 15

Engine 10/Ladder 10

#View the data statistics (Hint: use describe() method)

218

218

1

Out[16]: Index(['FacilityName', 'FacilityAddress', 'Borough'], dtype='object')

['Engine 6', '49 Beekman Street', 'Manhattan'],

['Ladder 8', '14 North Moore Street', 'Manhattan'], ['Engine 9/Ladder 6', '75 Canal Street', 'Manhattan'],

['Engine 5', '340 East 14th Street', 'Manhattan'], ['Engine 55', '363 Broome Street', 'Manhattan'],

['Squad 18', '132 West 10th Street', 'Manhattan'],

['Engine 26', '220 West 37th Street', 'Manhattan'],

['Engine 14', '14 East 18th Street', 'Manhattan'],

['Engine 21', '238 East 40th Street', 'Manhattan'],

['Engine 23', '215 West 58th Street', 'Manhattan'], ['Rescue 1', '530 West 43rd Street', 'Manhattan'],

['Engine 74', '120 West 83rd Street ', 'Manhattan'], ['Engine 65', '33 West 43rd Street', 'Manhattan'],

['Engine 44', '221 East 75th Street', 'Manhattan'],

['Engine 91', '242 East 111th Street', 'Manhattan'], ['Engine 35/Ladder 14', '2282 3rd Avenue', 'Manhattan'],

['Engine 47', '502 West 113th Street', 'Manhattan'],

['Engine 67', '518 West 170th Street', 'Manhattan'],

['Squad 41', '330 East 150th Street', 'Bronx'],

['EMS Station 17', '1080 Ogden Avenue', 'Bronx'],

['EMS Station 26', '1264 Boston Road', 'Bronx'],

['Engine 42', '1781 Monroe Avenue', 'Bronx'],

'451 East 176th Street', 'Bronx'],

['Engine 64/Ladder 47/District Office 7', '1214 Castle Hill Avenue', 'Bronx'],

['Engine 97', '1454 Astor Avenue', 'Bronx'],

'172 Tillary Street', 'Brooklyn'],

['Rescue 3', '1655 Washington Avenue', 'Bronx'],

['Bronx Borough Command, District Office 6 & 7 ',

['Engine 68/Ladder 49', '1160 Ogden Avenue ', 'Bronx'],

['Ladder 25/District Office 4/Division 3', '205-207 West 77th Street', 'Manhattan'],

['Engine 24/Ladder 5/Battalion 2', '227-29 6th Avenue',

Out[19]: array([['Engine 4/Ladder 15', '42 South Street', 'Manhattan'],

'100-104 Duane Street', 'Manhattan'],

#View the attributes of the dataset (Hint: view the column names)

['Engine 10/Ladder 10', '124 Liberty Street', 'Manhattan'],

['Engine 7/Ladder 1/Battalion 1/Manhattan Borough Command',

['Engine 28/Ladder 11', '222 East 2nd Street', 'Manhattan'],

['Ladder 20/Division 1', '253 Lafayette Street', 'Manhattan'],

['Engine 33/Ladder 9', '42 Great Jones Street', 'Manhattan'], ['Ladder 3/Battalion 6', '108 East 13th Street', 'Manhattan'],

['Engine 34/Ladder 21', '440 West 38th Street', 'Manhattan'],

['Engine 1/Ladder 24', '142-46 West 31st Street', 'Manhattan'],

['Engine 16 / Ladder 7 ', '234 East 29th Street', 'Manhattan'],

['Engine 40/Ladder 35', '131 Amsterdam Avenue ', 'Manhattan'],

['Engine 8 / Ladder 2 / Battalion 8', '167 East 51st Street',

['Engine 22/Ladder 13/Battalion 10', '159 East 85th Street',

['Engine 58/Ladder 26', '1367 5th Avenue', 'Manhattan'], ['Engine 53/Ladder 43', '1836-46 3rd Avenue', 'Manhattan'],

['Engine 39/Ladder 16', '157-59 East 67th Street', 'Manhattan'],

['Engine 76/Ladder 22/Battalion 11', '145-51 West 100th Street',

['Engine 59/Ladder 30', '111 West 133rd Street', 'Manhattan'], ['Engine 37/Ladder 40', '415 West 125th Street', 'Manhattan'], ['Engine 69/Ladder 28/Battalion 16', '248 West 143rd Street',

['Engine 80/Ladder 23', '503 West 139th Street', 'Manhattan'], ['Engine 84/Ladder 34', '513 West 161st Street', 'Manhattan'],

['Engine 93/Ladder 45/Battalion 13', '515 West 181st Street',

['Engine 95/Ladder 36', '29 Vermilyea Avenue', 'Manhattan'],

['Engine 60/Ladder 17/Battalion 14', '341 East 143rd Street',

['Engine 50/Ladder 19', '1155 Washington Avenue', 'Bronx'], ['Engine 92/Ladder 44/Battalion 17', '1259 Morris Avenue',

['Engine 73/Ladder 42/Battalion 26', '655 Prospect Avenue',

['Engine 43/Ladder 59', '1901 Sedgwick Avenue', 'Bronx'],

['Engine 82/Ladder 31', '1213 Intervale Avenue', 'Bronx'],

['Engine 75/Ladder 33/Battalion 19', '2175 Walton Avenue',

['Engine 81/Ladder 46', '3025 Bailey Avenue', 'Bronx'], ['Engine 79/Ladder 37/Battalion 27', '2928 Briggs Avenue',

[' Engine 96/Ladder 54', '1689 Story Avenue', 'Bronx'],

['Engine 90/Ladder 41', '1843 White Plains Road', 'Bronx'], ['Squad 61/Battalion 20', '1518 Williamsbridge Road', 'Bronx'],

['Engine 62/Ladder 32', '3431 White Plains Road', 'Bronx'], ['Engine 38/Ladder 51', '3446 Eastchester Road', 'Bronx'], ['Engine 63/Ladder 39/Battalion 15', '755 East 233rd Street',

['Engine 89/Ladder 50', '2924 Bruckner Boulevard', 'Bronx'],

['Engine 207/Ladder 110/Battalion 31/Division 11/Brooklyn Borough Command',

['Engine 70/Ladder 53', '169 Schofield Street', 'Bronx'],

['Engine 205/Ladder 118', '74 Middagh Street', 'Brooklyn'],

['Engine 279/Ladder 131', '252 Lorraine Street', 'Brooklyn'], ['Engine 202/Ladder 101/Battalion 32', '31 Richards Street',

['Engine 201/Ladder 114/Battalion 40', '5113-5117 4th Avenue',

['Engine 220/Ladder 122', '530-532 11th Street', 'Brooklyn'],

['Engine 233/Ladder 176', '25 Rockaway Avenue', 'Brooklyn'],

['Engine 222/Battalion 37', '32 Ralph Avenue', 'Brooklyn'], ['Engine 214/Ladder 111', '495 Hancock Street', 'Brooklyn'],

['Engine 235/Battalion 57', '206 Monroe Street', 'Brooklyn'],

['Marine 6', 'Building 292 Brooklyn Navy Yard', 'Brooklyn'],

['Engine 238/Ladder 106', '205 Greenpoint Avenue', 'Brooklyn'], ['Engine 229/Ladder 146', '75-77 Richardson Street', 'Brooklyn'],

['Engine 277/Ladder 112', '582 Knickerbocker Avenue', 'Brooklyn'],

['Engine 271/Ladder 124/Battalion 28', '392 Himrod Street',

['Engine 231/Ladder 120/Battalion 44', '107 Watkins Street',

['Engine 283/Division 15', '885 Howard Avenue', 'Brooklyn'], ['Engine 332/Ladder 175', '165 Bradford Street', 'Brooklyn'], ['Engine 290/Ladder 103', '480 Sheffield Avenue', 'Brooklyn'],

['Engine 225/Ladder 107/Battalion 39', '799 Lincoln Avenue',

['Engine 310/Ladder 174/Battalion 58', '5105 Snyder Avenue',

['Engine 249/Ladder 113', '491 Rogers Avenue', 'Brooklyn'],

['Engine 241/Ladder 109', '6630 3rd Avenue', 'Brooklyn'],

['Engine 284/Ladder 149', '1157 79th Street', 'Brooklyn'], ['Engine 243/Ladder 168/Battalion 42', '8653 18th Avenue',

['Engine 330/Ladder 172 ', '2312 65th Street', 'Brooklyn'], ['Engine 276/Ladder 156/Battalion 33', '1635 East 14th Street',

['Engine 318/Ladder 166', '2510-14 Neptune Avenue', 'Brooklyn'],

['Engine 245/Ladder 161/Battalion 43', '2929 West 8th Street',

['Engine 257/Ladder 170', '1361 Rockaway Parkway', 'Brooklyn'],

['Engine 309/Ladder 159', '1851 East 48th Street', 'Brooklyn'], ['Engine 246/Ladder 169', '2732 East 11th Street', 'Brooklyn'],

['Engine 259/Ladder 128/Battalion 45', '33-51 Greenpoint Avenue',

['Engine 263/Ladder 117/Battalion 49', '42-06 Astoria Boulevard',

['Engine 281/Ladder 147', '1210 Cortelyou Road', 'Brooklyn'], ['Engine 255/Ladder 157', '1367 Rogers Avenue', 'Brooklyn'], ['Engine 240/Battalion 48', '1307 Prospect Avenue', 'Brooklyn'], ['Engine 282/Ladder 148', '4210-12 12th Avenue', 'Brooklyn'],

['Engine 211/Ladder 119', '26 Hooper Street', 'Brooklyn'], ['Engine 221/Ladder 104', '161 South 2nd Street', 'Brooklyn'], ['Engine 216/Ladder 108/Battalion 35', '187 Union Avenue',

['Engine 280/Ladder 132', '489-91 Saint John s Place', 'Brooklyn'],

['Engine 234/Ladder 123/Battalion 38', '1352 Saint John s Place',

['Engine 66/Ladder 61', '21 Asch Loop West', 'Bronx'],

['Engine 72', '3929 East Tremont Avenue', 'Bronx'],

['Engine 226', '409 State Street', 'Brooklyn'],

['Engine 224', '274 Hicks Street', 'Brooklyn'],

['Engine 228', '436 39th Street', 'Brooklyn'],

['Squad 1', '788 Union Street', 'Brooklyn'], ['Engine 239', '395 4th Avenue', 'Brooklyn'],

['Ladder 105', '494 Dean Street', 'Brooklyn'],

['Rescue 2', '1472 Bergen Street', 'Brooklyn'],

['Engine 227', '423-25 Ralph Avenue', 'Brooklyn'],

['Ladder 102', '850-56 Bedford Avenue', 'Brooklyn'],

['Engine 210', '160 Carlton Avenue', 'Brooklyn'],

['Engine 206', '1201 Grand Street', 'Brooklyn'], ['Engine 237', '43 Morgan Avenue', 'Brooklyn'], ['Engine 218', '650 Hart Street', 'Brooklyn'],

['Squad 252', '617 Central Avenue', 'Brooklyn'],

['Engine 236', '998 Liberty Avenue', 'Brooklyn'],

['Engine 248', '2900 Snyder Avenue', 'Brooklyn'],

['Engine 247', '1336 60th Street', 'Brooklyn'],

['Engine 242', '9219 5th Avenue', 'Brooklyn'],

['Engine 250', '126 Foster Avenue', 'Brooklyn'],

['Engine 253', '2429 86th Street', 'Brooklyn'],

['Engine 323', '6405 Avenue N', 'Brooklyn'],

['Engine 260', '11-15 37th Avenue', 'Queens'],

['Engine 262', '30-89 21st Street', 'Queens'],

['Engine 312', '22-63 35th Street', 'Queens'],

['Engine 319', '78-11 67th Road', 'Queens'],

['Engine 316', '27-12 Kearney Street', 'Queens'],

['Engine 254/Ladder 153', '901 Avenue U', 'Brooklyn'],

['Engine 321', '2165 Gerritsen Avenue', 'Brooklyn'],

['Engine 258/Ladder 115', '10-40 47th Avenue', 'Queens'], ['Engine 325/Ladder 163', '41-24 51st Street', 'Queens'],

['Engine 261/Ladder 116', '3720-22 29th Street', 'Queens'],

['Engine 307/Ladder 154', '81-17 North Boulevard', 'Queens'], ['Engine 289/Ladder 138', '97-28 43rd Avenue', 'Queens'],

['Engine 324/Division 14', '108-01 Horace Harding Blvd.',

['Eng 292/Rescue 4', '64-18 Queens Boulevard', 'Queens'], ['Squad 288/Hazmat 1', '56-29 68th Street', 'Queens'],

['Engine 297/Ladder 130', '119-11 14th Road', 'Queens'], ['Engine 295/Ladder 144', '12-49 149th Street', 'Queens'], ['Engine 273/Ladder 129', '40-18 Union Street', 'Queens'], ['Engine 274/Battalion 52', '41-20 Murray Street', 'Queens'], ['Engine 320/Ladder 167', '36-18 Francis Lewis Boulevard',

['Engine 306/Battalion 53', '40-18 214th Place', 'Queens'], ['Engine 315/Ladder 125', '159-06 Union Turnpike', 'Queens'], ['Engine 299/Ladder 152', '61-20 Utopia Parkway', 'Queens'],

['Engine 313/Ladder 164', '44-01 244th Street', 'Queens'],

['Engine 285/Ladder 142', '103-17 98th Street', 'Queens'],

['Squad 270/Division 13', '91-45 121st Street', 'Queens'],

['Engine 251', '254-20 Union Turnpike', 'Queens'], ['Engine 293', '89-40 87th Street', 'Queens'],

['Ladder 143', '101-02 Jamaica Avenue', 'Queens'],

['Engine 275', '111-36 Merrick Boulevard', 'Queens'], ['Engine 301/Ladder 150', '91-04 197th Street', 'Queens'], ['Engine 304/Ladder 162', '218-44 97th Avenue', 'Queens'],

['Engine 311/Ladder 158', '145-50 Springfield Boulevard',

['Engine 314', '142-04 Brookville Boulevard', 'Queens'],

['Engine 265/Ladder 121/Battalion 47 EMS Station 47',

['Engine 329', '402 Beach 169th Street', 'Queens'],

['Ladder 79/Battalion 22', '1189 Castleton Avenue',

['Engine 156', '412 Broadway', 'Staten Island'],

['Engine 158', '65 Harbor Road', 'Staten Island'],

['Engine 152/Battalion 21', '256 Hylan Boulevard',

['Engine 160/Rescue 5/Division 8', '1850 Clove Road',

['Engine 159', '1592 Richmond Road', 'Staten Island'], ['Engine 162/Ladder 82/Battalion 23', '256 Nelson Avenue',

['Engine 164/Ladder 84', '1560 Drumgoole Road West',

3: Find the total number of fire department facilities in New York city

218 non-null object

4: Find the total number of fire department facilities in each borough

FacilityName

Engine 6

Engine 4/Ladder 15

Engine 10/Ladder 10

Engine 60/Ladder 17/Battalion 14

Engine 71/Ladder 55/Division 6

Engine 92/Ladder 44/Battalion 17

Engine 50/Ladder 19

Engine 205/Ladder 118

Engine 279/Ladder 131

Engine 258/Ladder 115

Engine 325/Ladder 163

Engine 261/Ladder 116

Engine 155/Ladder 78

Ladder 79/Battalion 22

Engine 163/Ladder 83

FacilityName

Ladder 8

Engine 5

Engine 55

Squad 18

Engine 26

Engine 14

Engine 21

Engine 23

Rescue 1

Engine 74

Engine 65

Engine 44

Engine 91

Engine 47

Engine 67

Engine 4/Ladder 15

Engine 10/Ladder 10

Engine 9/Ladder 6

Engine 28/Ladder 11

Ladder 20/Division 1

Engine 33/Ladder 9

Ladder 3/Battalion 6

Engine 34/Ladder 21

Engine 1/Ladder 24

Engine 16 / Ladder 7

Engine 40/Ladder 35

Engine 39/Ladder 16

Engine 58/Ladder 26

Engine 53/Ladder 43

Engine 35/Ladder 14

Engine 59/Ladder 30

Engine 37/Ladder 40

Engine 80/Ladder 23

Engine 84/Ladder 34

Engine 95/Ladder 36

Engine 15/Ladder 18/Battalion 4

Engine 24/Ladder 5/Battalion 2

Engine 3/Ladder 12/Battalion 7

Engine 54/Ladder 4/Battalion 9

Ladder 25/District Office 4/Division 3

Engine 8 / Ladder 2 / Battalion 8

Engine 22/Ladder 13/Battalion 10

Engine 76/Ladder 22/Battalion 11

Engine 69/Ladder 28/Battalion 16

Engine 93/Ladder 45/Battalion 13

5: Find the total number of fire department facilities in Manhattan

#Select FDNY information for Manhattan

#View FDNY information for Manhattan

Engine 7/Ladder 1/Battalion 1/Manhattan Boroug...

manhattan.get group('Manhattan')

manhattan=fire department.groupby('Borough')

Engine 259/Ladder 128/Battalion 45

Engine 226

Engine 224

Engine 260

Engine 156

FacilityAddress

42 South Street

124 Liberty Street

49 Beekman Street

100-104 Duane Street

14 North Moore Street

341 East 143rd Street

330 East 150th Street

720 Melrose Avenue

1259 Morris Avenue

172 Tillary Street

409 State Street

74 Middagh Street

252 Lorraine Street

10-40 47th Avenue

41-24 51st Street

11-15 37th Avenue

3720-22 29th Street

14 Brighton Avenue

412 Broadway

875 Jewett Avenue Staten Island

FacilityAddress

42 South Street

124 Liberty Street

49 Beekman Street

100-104 Duane Street

14 North Moore Street

222 East 2nd Street

340 East 14th Street

363 Broome Street

253 Lafayette Street

227-29 6th Avenue

42 Great Jones Street

108 East 13th Street

132 West 10th Street

440 West 38th Street

220 West 37th Street

150 West 19th Street

14 East 18th Street

234 East 29th Street

238 East 40th Street

215 West 58th Street

530 West 43rd Street

120 West 83rd Street

33 West 43rd Street

167 East 51st Street

221 East 75th Street

159 East 85th Street

1836-46 3rd Avenue

242 East 111th Street

145-51 West 100th Street

502 West 113th Street

111 West 133rd Street

415 West 125th Street

248 West 143rd Street

503 West 139th Street

513 West 161st Street

518 West 170th Street

515 West 181st Street

29 Vermilyea Avenue

Little West 12th Street/Hudson River

1367 5th Avenue

2282 3rd Avenue

157-59 East 67th Street

131 Amsterdam Avenue

205-207 West 77th Street

782 8th Avenue

142-46 West 31st Street

1189 Castleton Avenue

33-51 Greenpoint Avenue

Saint George Ferry Terminal

274 Hicks Street

1155 Washington Avenue

Borough

Manhattan

Manhattan

Manhattan

Manhattan

Manhattan

Bronx

Bronx

Bronx

Bronx

Bronx

Brooklyn

Brooklyn

Brooklyn

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Brooklyn

Queens

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Staten Island

Staten Island Staten Island

Staten Island

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75 Canal Street Manhattan

25 Pitt Street

218 non-null object

#Count number of records for each attribute

['Engine 168/EMS Station 23', '1100 Rossville Avenue',

'3730 Victory Boulevard', 'Staten Island'],

'48-06 Rockaway Beach Boulevard', 'Queens'],

['Engine 264/Engine 328/Ladder 134', '16-15 Central Avenue',

['Engine 266/Battalion 47', '92-20 Rockaway Beach Boulevard',

['Engine 268/Ladder 137', '257 Beach 116th Street', 'Queens'],

['Marine 9', 'Saint George Ferry Terminal', 'Staten Island'], ['Engine 155/Ladder 78', '14 Brighton Avenue', 'Staten Island'],

['Engine 163/Ladder 83', '875 Jewett Avenue', 'Staten Island'], ['Engine 153/Ladder 77', '74 Broad Street', 'Staten Island'], ['Engine 165/Ladder 85', '3067 Richmond Road', 'Staten Island'], ['Engine 157/Ladder 80', '1573 Castleton Avenue', 'Staten Island'],

['Engine 166/Ladder 86', '1400 Richmond Avenue', 'Staten Island'], ['Engine 154/District Office 8/ Staten Island Borough Command',

['Engine 161/Ladder 81', '278 Mc Clean Avenue', 'Staten Island'],

['Engine 167/Ladder 87', '345 Annadale Road', 'Staten Island'],

['Engine 151/Ladder 76', '7219 Amboy Road', 'Staten Island']],

['Engine 326/Ladder 160', '64-04 Springfield Boulevard', 'Queens'],

['Engine 308/Battalion 51', '107-12 Lefferts Boulevard', 'Queens'], ['Engine 298/Ladder 127/Battalion 50', '153-11 Hillside Avenue',

['Engine 303/Ladder 126', '104-12 Princeton Street', 'Queens'],

['Engine 302/Ladder 155', '143-15 Rockaway Boulevard', 'Queens'], ['Engine 317/Ladder 165/Battalion 54', '117-11 196th Street',

['Engine 331/Ladder 173', '158-57 Cross Bay Boulevard', 'Queens'],

['Engine 287/Ladder 136/Battalion 46', '86-53 Grand Avenue',

['Engine 291/Ladder 140', '56-07 Metropolitan Avenue', 'Queens'], ['Engine 305/Ladder 151', '111-02 Queens Boulevard', 'Queens'], ['Engine 286/Ladder 135', '66-44 Myrtle Avenue', 'Queens'],

['Engine 217', '940 Dekalb Avenue', 'Brooklyn'],

['Engine 230', '701 Park Avenue', 'Brooklyn'],

['Engine 88/Ladder 38', '2225 Belmont Avenue', 'Bronx'],

['Marine 1', 'Little West 12th Street/Hudson River', 'Manhattan'],

['Engine 71/Ladder 55/Division 6', '720 Melrose Avenue', 'Bronx'],

['Engine 94/Ladder 48/Battalion 3', '1226 Seneca Avenue', 'Bronx'],

['Engine 46, Ladder 27', '460 Cross Bronx Expressway', 'Bronx'],

['Engine 48/Ladder 56/Division 7', '2417 Webster Avenue', 'Bronx'],

['Engine 45/Ladder 58/Battalion 18', '925 East Tremont Avenue',

['Engine 54/Ladder 4/Battalion 9', '782 8th Avenue', 'Manhattan'],

['Engine 3/Ladder 12/Battalion 7', '150 West 19th Street',

['Engine 15/Ladder 18/Battalion 4', '25 Pitt Street', 'Manhattan'],

FacilityName

Engine 287/Ladder 136/Battalion 46 126 Foster Avenue

Engine 4/Ladder 15

Engine 10/Ladder 10

Engine 168/EMS Station 23

Engine 7/Ladder 1/Battalion 1/Manhattan Boroug...

Engine 162/Ladder 82/Battalion 23

fire department

1

3

214

215

216

217

218

0

1

2

3

2

3

5

count

unique

freq

Out[5]:

In [13]:

In [14]:

Out[14]:

In [15]:

Out[15]:

In [16]:

In [19]:

219 rows × 3 columns

#View the first five records

#Skip the duplicate header row

#Verify if the dataset is fixed

fire department.head()

fire_department.describe()

fire department.columns

fire_department.values

#View the index of the dataset

'Manhattan'],

'Manhattan'],

'Manhattan'],

'Manhattan'],

'Manhattan'],

'Manhattan'],

'Manhattan'],

'Bronx'],

'Bronx'],

'Bronx'],

'Bronx'],

'Bronx'],

'Bronx'],

'Brooklyn'],

'Queens'],

'Staten Island'],

'Staten Island'],

'Staten Island'],

'Staten Island'],

'Staten Island'],

'Staten Island'],

fire_department.Borough.count()

In [34]: | #view the datatypes of all three attributes

<class 'pandas.core.frame.DataFrame'> Int64Index: 218 entries, 1 to 218 Data columns (total 3 columns):

FacilityAddress 218 non-null object

fire_department.Borough.value_counts()

66

50

48 34

#View FDNY informationn for each borough fire_department.groupby('Borough').head()

Engine 7/Ladder 1/Battalion 1/Manhattan Boroug...

Engine 207/Ladder 110/Battalion 31/Division 11...

dtype=object)

fire_department.info()

FacilityName

dtypes: object(3) memory usage: 6.8+ KB

In [36]: | #Select FDNY information boroughwise

Name: Borough, dtype: int64

Borough

Out[36]: Brooklyn

In [72]:

Out[72]:

Oueens

Bronx

2

3

5

49

50

51

52

53

83 84

86 87

149

150

151

152 153

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203

1 2

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44

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48

In []:

In [46]:

In [47]:

Out[47]:

Manhattan

Staten Island

In [31]:

Out[31]: 218

fire department.drop(0,inplace=True)

Engine 7/Ladder 1/Battalion 1/Manhattan Boroug...

fire department.head()

Out[3]:

In [1]: