

PART 1

Imporyting required libraries

```
In [1]: import pandas as pd
import numpy as np
import requests
```

Installing required libraries for retriving and processing data from web

```
In [2]: !pip install beautifulsoup4
from bs4 import BeautifulSoup
!pip install lxml
```

Requirement already satisfied: beautifulsoup4 in /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (4.9.1)
Requirement already satisfied: soupsieve>1.2 in /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from beautifulsoup4) (2.0.1)
Requirement already satisfied: lxml in /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (4.5.2)

```
In [3]: import numpy as np
import pandas
import seaborn # library to handle data in a vectorized manner
import pandas as pd # library for data analysis
pd.set_option('display.max_columns', None)
pd.set_option('display.max_rows', None)

import json # library to handle JSON files

!conda install -c conda-forge geopy --yes # uncomment this line if you
haven't completed the Foursquare API lab
```

```

from geopy.geocoders import Nominatim # convert an address into latitude
and longitude values

import requests # library to handle requests
from pandas.io.json import json_normalize # transform JSON file into a p
andas dataframe

# Matplotlib and associated plotting modules
import matplotlib.cm as cm
import matplotlib.colors as colors

# import k-means from clustering stage
from sklearn.cluster import KMeans

#!conda install -c conda-forge folium=0.5.0 --yes # uncomment this line
if you haven't completed the Foursquare API lab
import folium # map rendering library

print('Libraries imported.')

```

```

Collecting package metadata (current_repodata.json): done
Solving environment: done

```

```

==> WARNING: A newer version of conda exists. <==
  current version: 4.8.3
  latest version: 4.8.4

```

Please update conda by running

```
$ conda update -n base -c defaults conda
```

```
# All requested packages already installed.
```

```
Libraries imported.
```

```
In [4]: wiki = 'https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_'
```

```
M'
wiki_page = requests.get(wiki)

wiki_raw = pd.read_html(wiki_page.content, header = 0)[0]
df = wiki_raw[wiki_raw.District != 'Not assigned']
df.reset_index(inplace = True)
df.head()
```

Out[4]:

	index	Postal Code	District	Neighbourhood
0	2	M3A	North York	Parkwoods
1	3	M4A	North York	Victoria Village
2	4	M5A	Downtown Toronto	Regent Park, Harbourfront
3	5	M6A	North York	Lawrence Manor, Lawrence Heights
4	6	M7A	Downtown Toronto	Queen's Park, Ontario Provincial Government

In [5]: df.groupby(['Postal Code']).first()

Out[5]:

	index	District	Neighbourhood
Postal Code			
M1B	9	Scarborough	Malvern, Rouge
M1C	18	Scarborough	Rouge Hill, Port Union, Highland Creek
M1E	27	Scarborough	Guildwood, Morningside, West Hill
M1G	36	Scarborough	Woburn
M1H	45	Scarborough	Cedarbrae
M1J	54	Scarborough	Scarborough Village
M1K	63	Scarborough	Kennedy Park, Ionview, East Birchmount Park
M1L	72	Scarborough	Golden Mile, Clairlea, Oakridge
M1M	81	Scarborough	Cliffside, Cliffcrest, Scarborough Village West
M1N	90	Scarborough	Birch Cliff, Cliffside West

index		District	Neighbourhood
Postal Code			
M1P	99	Scarborough	Dorset Park, Wexford Heights, Scarborough Town...
M1R	108	Scarborough	Wexford, Maryvale
M1S	117	Scarborough	Agincourt
M1T	126	Scarborough	Clarks Corners, Tam O'Shanter, Sullivan
M1V	135	Scarborough	Milliken, Agincourt North, Steeles East, L'Amo...
M1W	144	Scarborough	Steeles West, L'Amoreaux West
M1X	153	Scarborough	Upper Rouge
M2H	46	North York	Hillcrest Village
M2J	55	North York	Fairview, Henry Farm, Oriole
M2K	64	North York	Bayview Village
M2L	73	North York	York Mills, Silver Hills
M2M	82	North York	Willowdale, Newtonbrook
M2N	91	North York	Willowdale, Willowdale East
M2P	100	North York	York Mills West
M2R	109	North York	Willowdale, Willowdale West
M3A	2	North York	Parkwoods
M3B	11	North York	Don Mills
M3C	20	North York	Don Mills
M3H	47	North York	Bathurst Manor, Wilson Heights, Downsview North
M3J	56	North York	Northwood Park, York University
M3K	65	North York	Downsview
M3L	74	North York	Downsview
M3M	83	North York	Downsview
M3N	92	North York	Downsview

index		District	Neighbourhood
Postal Code			
M4A	3	North York	Victoria Village
M4B	12	East York	Parkview Hill, Woodbine Gardens
M4C	21	East York	Woodbine Heights
M4E	30	East Toronto	The Beaches
M4G	39	East York	Leaside
M4H	48	East York	Thorncliffe Park
M4J	57	East York	East Toronto, Broadview North (Old East York)
M4K	66	East Toronto	The Danforth West, Riverdale
M4L	75	East Toronto	India Bazaar, The Beaches West
M4M	84	East Toronto	Studio District
M4N	93	Central Toronto	Lawrence Park
M4P	102	Central Toronto	Davisville North
M4R	111	Central Toronto	North Toronto West, Lawrence Park
M4S	120	Central Toronto	Davisville
M4T	129	Central Toronto	Moore Park, Summerhill East
M4V	138	Central Toronto	Summerhill West, Rathnelly, South Hill, Forest...
M4W	147	Downtown Toronto	Rosedale
M4X	156	Downtown Toronto	St. James Town, Cabbagetown
M4Y	165	Downtown Toronto	Church and Wellesley
M5A	4	Downtown Toronto	Regent Park, Harbourfront
M5B	13	Downtown Toronto	Garden District, Ryerson
M5C	22	Downtown Toronto	St. James Town
M5E	31	Downtown Toronto	Berczy Park
M5G	40	Downtown Toronto	Central Bay Street

	index	District	Neighbourhood
Postal Code			
M5H	49	Downtown Toronto	Richmond, Adelaide, King
M5J	58	Downtown Toronto	Harbourfront East, Union Station, Toronto Islands
M5K	67	Downtown Toronto	Toronto Dominion Centre, Design Exchange
M5L	76	Downtown Toronto	Commerce Court, Victoria Hotel
M5M	85	North York	Bedford Park, Lawrence Manor East
M5N	94	Central Toronto	Roselawn
M5P	103	Central Toronto	Forest Hill North & West, Forest Hill Road Park
M5R	112	Central Toronto	The Annex, North Midtown, Yorkville
M5S	121	Downtown Toronto	University of Toronto, Harbord
M5T	130	Downtown Toronto	Kensington Market, Chinatown, Grange Park
M5V	139	Downtown Toronto	CN Tower, King and Spadina, Railway Lands, Har...
M5W	148	Downtown Toronto	Stn A PO Boxes
M5X	157	Downtown Toronto	First Canadian Place, Underground city
M6A	5	North York	Lawrence Manor, Lawrence Heights
M6B	14	North York	Glencairn
M6C	23	York	Humewood-Cedarvale
M6E	32	York	Caledonia-Fairbanks
M6G	41	Downtown Toronto	Christie
M6H	50	West Toronto	Dufferin, Dovercourt Village
M6J	59	West Toronto	Little Portugal, Trinity
M6K	68	West Toronto	Brockton, Parkdale Village, Exhibition Place
M6L	77	North York	North Park, Maple Leaf Park, Upwood Park
M6M	86	York	Del Ray, Mount Dennis, Keelsdale and Silverthorn
M6N	95	York	Runnymede, The Junction North

	index	District	Neighbourhood
Postal Code			
M6P	104	West Toronto	High Park, The Junction South
M6R	113	West Toronto	Parkdale, Roncesvalles
M6S	122	West Toronto	Runnymede, Swansea
M7A	6	Downtown Toronto	Queen's Park, Ontario Provincial Government
M7R	114	Mississauga	Canada Post Gateway Processing Centre
M7Y	168	East Toronto	Business reply mail Processing Centre, South C...
M8V	142	Etobicoke	New Toronto, Mimico South, Humber Bay Shores
M8W	151	Etobicoke	Alderwood, Long Branch
M8X	160	Etobicoke	The Kingsway, Montgomery Road, Old Mill North
M8Y	169	Etobicoke	Old Mill South, King's Mill Park, Sunnylea, Hu...
M8Z	178	Etobicoke	Mimico NW, The Queensway West, South of Bloor,...
M9A	8	Etobicoke	Islington Avenue, Humber Valley Village
M9B	17	Etobicoke	West Deane Park, Princess Gardens, Martin Grov...
M9C	26	Etobicoke	Eringate, Bloordale Gardens, Old Burnhamthorpe...
M9L	80	North York	Humber Summit
M9M	89	North York	Humberlea, Emery
M9N	98	York	Weston
M9P	107	Etobicoke	Westmount
M9R	116	Etobicoke	Kingsview Village, St. Phillips, Martin Grove ...
M9V	143	Etobicoke	South Steeles, Silverstone, Humbergate, Jamest...
M9W	152	Etobicoke	Northwest, West Humber - Clairville

```
In [6]: len(df['Postal Code'].unique())
```

```
Out[6]: 103
```

removing columns which contains "Not assigned"

```
In [7]: df[df.District!= 'Not assigned']
```

```
Out[7]:
```

	index	Postal Code	District	Neighbourhood
0	2	M3A	North York	Parkwoods
1	3	M4A	North York	Victoria Village
2	4	M5A	Downtown Toronto	Regent Park, Harbourfront
3	5	M6A	North York	Lawrence Manor, Lawrence Heights
4	6	M7A	Downtown Toronto	Queen's Park, Ontario Provincial Government
5	8	M9A	Etobicoke	Islington Avenue, Humber Valley Village
6	9	M1B	Scarborough	Malvern, Rouge
7	11	M3B	North York	Don Mills
8	12	M4B	East York	Parkview Hill, Woodbine Gardens
9	13	M5B	Downtown Toronto	Garden District, Ryerson
10	14	M6B	North York	Glencairn
11	17	M9B	Etobicoke	West Deane Park, Princess Gardens, Martin Grov...
12	18	M1C	Scarborough	Rouge Hill, Port Union, Highland Creek
13	20	M3C	North York	Don Mills
14	21	M4C	East York	Woodbine Heights
15	22	M5C	Downtown Toronto	St. James Town
16	23	M6C	York	Humewood-Cedarvale
17	26	M9C	Etobicoke	Eringate, Bloordale Gardens, Old Burnhamthorpe...
18	27	M1E	Scarborough	Guildwood, Morningside, West Hill
19	30	M4E	East Toronto	The Beaches
20	31	M5E	Downtown Toronto	Berczy Park

	index	Postal Code	District	Neighbourhood
21	32	M6E	York	Caledonia-Fairbanks
22	36	M1G	Scarborough	Woburn
23	39	M4G	East York	Leaside
24	40	M5G	Downtown Toronto	Central Bay Street
25	41	M6G	Downtown Toronto	Christie
26	45	M1H	Scarborough	Cedarbrae
27	46	M2H	North York	Hillcrest Village
28	47	M3H	North York	Bathurst Manor, Wilson Heights, Downsview North
29	48	M4H	East York	Thorncliffe Park
30	49	M5H	Downtown Toronto	Richmond, Adelaide, King
31	50	M6H	West Toronto	Dufferin, Dovercourt Village
32	54	M1J	Scarborough	Scarborough Village
33	55	M2J	North York	Fairview, Henry Farm, Oriole
34	56	M3J	North York	Northwood Park, York University
35	57	M4J	East York	East Toronto, Broadview North (Old East York)
36	58	M5J	Downtown Toronto	Harbourfront East, Union Station, Toronto Islands
37	59	M6J	West Toronto	Little Portugal, Trinity
38	63	M1K	Scarborough	Kennedy Park, Ionview, East Birchmount Park
39	64	M2K	North York	Bayview Village
40	65	M3K	North York	Downsview
41	66	M4K	East Toronto	The Danforth West, Riverdale
42	67	M5K	Downtown Toronto	Toronto Dominion Centre, Design Exchange
43	68	M6K	West Toronto	Brockton, Parkdale Village, Exhibition Place
44	72	M1L	Scarborough	Golden Mile, Clairlea, Oakridge
45	73	M2L	North York	York Mills, Silver Hills

	index	Postal Code	District	Neighbourhood
46	74	M3L	North York	Downsview
47	75	M4L	East Toronto	India Bazaar, The Beaches West
48	76	M5L	Downtown Toronto	Commerce Court, Victoria Hotel
49	77	M6L	North York	North Park, Maple Leaf Park, Upwood Park
50	80	M9L	North York	Humber Summit
51	81	M1M	Scarborough	Cliffside, Cliffcrest, Scarborough Village West
52	82	M2M	North York	Willowdale, Newtonbrook
53	83	M3M	North York	Downsview
54	84	M4M	East Toronto	Studio District
55	85	M5M	North York	Bedford Park, Lawrence Manor East
56	86	M6M	York	Del Ray, Mount Dennis, Keelsdale and Silverthorn
57	89	M9M	North York	Humberlea, Emery
58	90	M1N	Scarborough	Birch Cliff, Cliffside West
59	91	M2N	North York	Willowdale, Willowdale East
60	92	M3N	North York	Downsview
61	93	M4N	Central Toronto	Lawrence Park
62	94	M5N	Central Toronto	Roselawn
63	95	M6N	York	Runnymede, The Junction North
64	98	M9N	York	Weston
65	99	M1P	Scarborough	Dorset Park, Wexford Heights, Scarborough Town...
66	100	M2P	North York	York Mills West
67	102	M4P	Central Toronto	Davisville North
68	103	M5P	Central Toronto	Forest Hill North & West, Forest Hill Road Park
69	104	M6P	West Toronto	High Park, The Junction South
70	107	M9P	Etobicoke	Westmount

	index	Postal Code	District	Neighbourhood
71	108	M1R	Scarborough	Wexford, Maryvale
72	109	M2R	North York	Willowdale, Willowdale West
73	111	M4R	Central Toronto	North Toronto West, Lawrence Park
74	112	M5R	Central Toronto	The Annex, North Midtown, Yorkville
75	113	M6R	West Toronto	Parkdale, Roncesvalles
76	114	M7R	Mississauga	Canada Post Gateway Processing Centre
77	116	M9R	Etobicoke	Kingsview Village, St. Phillips, Martin Grove ...
78	117	M1S	Scarborough	Agincourt
79	120	M4S	Central Toronto	Davisville
80	121	M5S	Downtown Toronto	University of Toronto, Harbord
81	122	M6S	West Toronto	Runnymede, Swansea
82	126	M1T	Scarborough	Clarks Corners, Tam O'Shanter, Sullivan
83	129	M4T	Central Toronto	Moore Park, Summerhill East
84	130	M5T	Downtown Toronto	Kensington Market, Chinatown, Grange Park
85	135	M1V	Scarborough	Milliken, Agincourt North, Steeles East, L'Amo...
86	138	M4V	Central Toronto	Summerhill West, Rathnelly, South Hill, Forest...
87	139	M5V	Downtown Toronto	CN Tower, King and Spadina, Railway Lands, Har...
88	142	M8V	Etobicoke	New Toronto, Mimico South, Humber Bay Shores
89	143	M9V	Etobicoke	South Steeles, Silverstone, Humbergate, Jamest...
90	144	M1W	Scarborough	Steeles West, L'Amoreaux West
91	147	M4W	Downtown Toronto	Rosedale
92	148	M5W	Downtown Toronto	Stn A PO Boxes
93	151	M8W	Etobicoke	Alderwood, Long Branch
94	152	M9W	Etobicoke	Northwest, West Humber - Clairville
95	153	M1X	Scarborough	Upper Rouge

	index	Postal Code	District	Neighbourhood
96	156	M4X	Downtown Toronto	St. James Town, Cabbagetown
97	157	M5X	Downtown Toronto	First Canadian Place, Underground city
98	160	M8X	Etobicoke	The Kingsway, Montgomery Road, Old Mill North
99	165	M4Y	Downtown Toronto	Church and Wellesley
100	168	M7Y	East Toronto	Business reply mail Processing Centre, South C...
101	169	M8Y	Etobicoke	Old Mill South, King's Mill Park, Sunnylea, Hu...
102	178	M8Z	Etobicoke	Mimico NW, The Queensway West, South of Bloor,...

In []:

In [8]: `df.shape`

Out[8]: (103, 4)

In []:

PART 2

In [9]: `pip install geocoder`

```
Requirement already satisfied: geocoder in /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (1.38.1)
Requirement already satisfied: ratelim in /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from geocoder) (0.1.6)
Requirement already satisfied: six in /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from geocoder) (1.15.0)
Requirement already satisfied: future in /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from geocoder) (0.18.2)
Requirement already satisfied: click in /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from geocoder) (7.1.2)
Requirement already satisfied: requests in /home/jupyterlab/conda/envs/
```

```
python/lib/python3.6/site-packages (from geocoder) (2.24.0)
Requirement already satisfied: decorator in /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from ratelim->geocoder) (4.4.2)
Requirement already satisfied: idna<3,>=2.5 in /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from requests->geocoder) (2.10)
Requirement already satisfied: certifi>=2017.4.17 in /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from requests->geocoder) (2020.6.20)
Requirement already satisfied: urllib3!=1.25.0,!1.25.1,<1.26,>=1.21.1 in /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from requests->geocoder) (1.25.10)
Requirement already satisfied: chardet<4,>=3.0.2 in /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from requests->geocoder) (3.0.4)
Note: you may need to restart the kernel to use updated packages.
```

```
In [10]: import geocoder
```

```
In [11]: url = 'http://cocl.us/Geospatial_data'
```

```
In [12]: df_geo = pd.read_csv(url)
df_geo.head()
```

Out[12]:

	Postal Code	Latitude	Longitude
0	M1B	43.806686	-79.194353
1	M1C	43.784535	-79.160497
2	M1E	43.763573	-79.188711
3	M1G	43.770992	-79.216917
4	M1H	43.773136	-79.239476

```
In [13]: df = pd.concat([df,df_geo], axis=1)
df.head()
df = df.loc[:,~df.columns.duplicated()]
df
```

```
df.drop('Postal Code',axis = 1, inplace = True)
df
```

Out[13]:

	index	District	Neighbourhood	Latitude	Longitude
0	2	North York	Parkwoods	43.806686	-79.194353
1	3	North York	Victoria Village	43.784535	-79.160497
2	4	Downtown Toronto	Regent Park, Harbourfront	43.763573	-79.188711
3	5	North York	Lawrence Manor, Lawrence Heights	43.770992	-79.216917
4	6	Downtown Toronto	Queen's Park, Ontario Provincial Government	43.773136	-79.239476
5	8	Etobicoke	Islington Avenue, Humber Valley Village	43.744734	-79.239476
6	9	Scarborough	Malvern, Rouge	43.727929	-79.262029
7	11	North York	Don Mills	43.711112	-79.284577
8	12	East York	Parkview Hill, Woodbine Gardens	43.716316	-79.239476
9	13	Downtown Toronto	Garden District, Ryerson	43.692657	-79.264848
10	14	North York	Glencairn	43.757410	-79.273304
11	17	Etobicoke	West Deane Park, Princess Gardens, Martin Grov...	43.750072	-79.295849
12	18	Scarborough	Rouge Hill, Port Union, Highland Creek	43.794200	-79.262029
13	20	North York	Don Mills	43.781638	-79.304302
14	21	East York	Woodbine Heights	43.815252	-79.284577
15	22	Downtown Toronto	St. James Town	43.799525	-79.318389
16	23	York	Humewood-Cedarvale	43.836125	-79.205636
17	26	Etobicoke	Eringate, Bloordale Gardens, Old Burnhamthorpe...	43.803762	-79.363452
18	27	Scarborough	Guildwood, Morningside, West Hill	43.778517	-79.346556

	index	District	Neighbourhood	Latitude	Longitude
19	30	East Toronto	The Beaches	43.786947	-79.385975
20	31	Downtown Toronto	Berczy Park	43.757490	-79.374714
21	32	York	Caledonia-Fairbanks	43.789053	-79.408493
22	36	Scarborough	Woburn	43.770120	-79.408493
23	39	East York	Leaside	43.752758	-79.400049
24	40	Downtown Toronto	Central Bay Street	43.782736	-79.442259
25	41	Downtown Toronto	Christie	43.753259	-79.329656
26	45	Scarborough	Cedarbrae	43.745906	-79.352188
27	46	North York	Hillcrest Village	43.725900	-79.340923
28	47	North York	Bathurst Manor, Wilson Heights, Downsview North	43.754328	-79.442259
29	48	East York	Thornccliffe Park	43.767980	-79.487262
30	49	Downtown Toronto	Richmond, Adelaide, King	43.737473	-79.464763
31	50	West Toronto	Dufferin, Dovercourt Village	43.739015	-79.506944
32	54	Scarborough	Scarborough Village	43.728496	-79.495697
33	55	North York	Fairview, Henry Farm, Oriole	43.761631	-79.520999
34	56	North York	Northwood Park, York University	43.725882	-79.315572
35	57	East York	East Toronto, Broadview North (Old East York)	43.706397	-79.309937
36	58	Downtown Toronto	Harbourfront East, Union Station, Toronto Islands	43.695344	-79.318389
37	59	West Toronto	Little Portugal, Trinity	43.676357	-79.293031
38	63	Scarborough	Kennedy Park, Ionview, East Birchmount Park	43.709060	-79.363452
39	64	North York	Bayview Village	43.705369	-79.349372

	index	District	Neighbourhood	Latitude	Longitude
40	65	North York	Downsview	43.685347	-79.338106
41	66	East Toronto	The Danforth West, Riverdale	43.679557	-79.352188
42	67	Downtown Toronto	Toronto Dominion Centre, Design Exchange	43.668999	-79.315572
43	68	West Toronto	Brockton, Parkdale Village, Exhibition Place	43.659526	-79.340923
44	72	Scarborough	Golden Mile, Clairlea, Oakridge	43.728020	-79.388790
45	73	North York	York Mills, Silver Hills	43.712751	-79.390197
46	74	North York	Downsview	43.715383	-79.405678
47	75	East Toronto	India Bazaar, The Beaches West	43.704324	-79.388790
48	76	Downtown Toronto	Commerce Court, Victoria Hotel	43.689574	-79.383160
49	77	North York	North Park, Maple Leaf Park, Upwood Park	43.686412	-79.400049
50	80	North York	Humber Summit	43.679563	-79.377529
51	81	Scarborough	Cliffside, Cliffcrest, Scarborough Village West	43.667967	-79.367675
52	82	North York	Willowdale, Newtonbrook	43.665860	-79.383160
53	83	North York	Downsview	43.654260	-79.360636
54	84	East Toronto	Studio District	43.657162	-79.378937
55	85	North York	Bedford Park, Lawrence Manor East	43.651494	-79.375418
56	86	York	Del Ray, Mount Dennis, Keelsdale and Silverthorn	43.644771	-79.373306
57	89	North York	Humberlea, Emery	43.657952	-79.387383
58	90	Scarborough	Birch Cliff, Cliffside West	43.650571	-79.384568
59	91	North York	Willowdale, Willowdale East	43.640816	-79.381752
60	92	North York	Downsview	43.647177	-79.381576
61	93	Central Toronto	Lawrence Park	43.648198	-79.379817
62	94	Central Toronto	Roselawn	43.733283	-79.419750

	index	District	Neighbourhood	Latitude	Longitude
63	95	York	Runnymede, The Junction North	43.711695	-79.416936
64	98	York	Weston	43.696948	-79.411307
65	99	Scarborough	Dorset Park, Wexford Heights, Scarborough Town...	43.672710	-79.405678
66	100	North York	York Mills West	43.662696	-79.400049
67	102	Central Toronto	Davisville North	43.653206	-79.400049
68	103	Central Toronto	Forest Hill North & West, Forest Hill Road Park	43.628947	-79.394420
69	104	West Toronto	High Park, The Junction South	43.646435	-79.374846
70	107	Etobicoke	Westmount	43.648429	-79.382280
71	108	Scarborough	Wexford, Maryvale	43.718518	-79.464763
72	109	North York	Willowdale, Willowdale West	43.709577	-79.445073
73	111	Central Toronto	North Toronto West, Lawrence Park	43.693781	-79.428191
74	112	Central Toronto	The Annex, North Midtown, Yorkville	43.689026	-79.453512
75	113	West Toronto	Parkdale, Roncesvalles	43.669542	-79.422564
76	114	Mississauga	Canada Post Gateway Processing Centre	43.669005	-79.442259
77	116	Etobicoke	Kingsview Village, St. Phillips, Martin Grove ...	43.647927	-79.419750
78	117	Scarborough	Agincourt	43.636847	-79.428191
79	120	Central Toronto	Davisville	43.713756	-79.490074
80	121	Downtown Toronto	University of Toronto, Harbord	43.691116	-79.476013
81	122	West Toronto	Runnymede, Swansea	43.673185	-79.487262
82	126	Scarborough	Clarks Corners, Tam O'Shanter, Sullivan	43.661608	-79.464763
83	129	Central Toronto	Moore Park, Summerhill East	43.648960	-79.456325
84	130	Downtown Toronto	Kensington Market, Chinatown, Grange Park	43.651571	-79.484450
85	135	Scarborough	Milliken, Agincourt North, Steeles East, L'Amo...	43.662301	-79.389494

	index	District	Neighbourhood	Latitude	Longitude
86	138	Central Toronto	Summerhill West, Rathnelly, South Hill, Forest...	43.636966	-79.615819
87	139	Downtown Toronto	CN Tower, King and Spadina, Railway Lands, Har...	43.662744	-79.321558
88	142	Etobicoke	New Toronto, Mimico South, Humber Bay Shores	43.605647	-79.501321
89	143	Etobicoke	South Steeles, Silverstone, Humbergate, Jamest...	43.602414	-79.543484
90	144	Scarborough	Steeles West, L'Amoreaux West	43.653654	-79.506944
91	147	Downtown Toronto	Rosedale	43.636258	-79.498509
92	148	Downtown Toronto	Stn A PO Boxes	43.628841	-79.520999
93	151	Etobicoke	Alderwood, Long Branch	43.667856	-79.532242
94	152	Etobicoke	Northwest, West Humber - Clairville	43.650943	-79.554724
95	153	Scarborough	Upper Rouge	43.643515	-79.577201
96	156	Downtown Toronto	St. James Town, Cabbagetown	43.756303	-79.565963
97	157	Downtown Toronto	First Canadian Place, Underground city	43.724766	-79.532242
98	160	Etobicoke	The Kingsway, Montgomery Road, Old Mill North	43.706876	-79.518188
99	165	Downtown Toronto	Church and Wellesley	43.696319	-79.532242
100	168	East Toronto	Business reply mail Processing Centre, South C...	43.688905	-79.554724
101	169	Etobicoke	Old Mill South, King's Mill Park, Sunnylea, Hu...	43.739416	-79.588437
102	178	Etobicoke	Mimico NW, The Queensway West, South of Bloor,...	43.706748	-79.594054

In [14]: df.shape

Out[14]: (103, 5)

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