IBM- Capstone project

A program for the participants of a conference.

Introduction:

I am an Indian and i frequently visit conferences all over the world to learn new things. So please like me who are students, faculties, organizers, researchers who visit the conferences, tend to visit new places in different parts of the world. So the conferences purposes is to make a list of places which are of the interest of the participants from all over the world. I have choosen the location as Toronto, Canada. Because it is one of the main cities in the North American Continent.

Data Description and Questions to be answered:

We will use the data provided by the FourSquare API, to fetch all the data that is needed by the conference organizers to be provided by the organizers. We will provide information regarding the **best hotels, parks and restaurants stores** in the area of Toronto.

```
import numpy as np
import pandas as pd
pd.set option('display.max columns', None)
pd.set option('display.max rows', None)
import json
from geopy.geocoders import Nominatim
import requests
from pandas.io.json import json normalize
import matplotlib.cm as cm
import matplotlib.colors as colors
from sklearn.cluster import KMeans
import folium
CLIENT ID = '2VJSZMEZBVCII3HYWBCNGEDFTEI3JAVBB3BU0X1XRGN4LGM1'
CLIENT SECRET = '0JYZ0FESUQ02YKG3WUKAA0IHTIMVKHM1TYXYBW1ML3PF4QGB'
VERSION = '20200417'
LIMIT= 50
city = 'Toronto'
geolocator = Nominatim(user agent="foursquare agent")
location = geolocator.geocode(city)
latitude = location.latitude
longitude = location.longitude
print(latitude, longitude)
43.6534817 -79.3839347
search query = 'Hotel'
radius = 500
url = 'https://api.foursquare.com/v2/venues/search?client id={}&client secret={}&l`
.format(CLIENT ID, CLIENT SECRET, latitude, longitude, VERSION, search query, radio
result hotel = requests.get(url).json()
result hotel
venue hotel = result hotel['response']['venues']
df = json_normalize(venue_hotel)
df.head()
```

/usr/local/lib/python3.6/dist-packages/ipykernel_launcher.py:12: FutureWarning
if sys.path[0] == '':

	id	name	categories	referralId	hasPe
0	4ab2d511f964a5209b6c20e3	Sheraton Centre Toronto Hotel	[{'id': '4bf58dd8d48988d1fa931735', 'name': 'H	v- 1587139133	Fa
1	51d212c3498ebf27dc469bc9	Chelsea Hotel	[{'id': '4bf58dd8d48988d1fa931735', 'name': 'H	V- 1587139133	Fa
2	4af96fbbf964a520c01122e3	One King West Hotel & Residence	[{'id': '4bf58dd8d48988d1fa931735', 'name': 'H	v- 1587139133	Fa
3	4ae61cf6f964a520caa421e3	Pantages Hotel & Spa	[{'id': '4bf58dd8d48988d1fa931735', 'name': 'H	V- 1587139133	Fa
4	51e48697498eded9073c6c17	Crew Room Eaton Chelsea Hotel	[{'id': '4bf58dd8d48988d1fa931735', 'name': 'H	v- 1587139133	Fa
co1	umns - [ˈnəməˈ ˈcətəgər	iec'l + [/	col for col in df columns	e if col star	rtswit!

```
new_columns = ['name', 'categories'] + [col for col in df.columns if col.startswitl
new_df = df.loc[:,new_columns]

def get_category_type(row):
    try:
        categories_list = row['categories']
    except:
        categories_list = row['venue.categories']

    if len(categories_list) == 0:
        return None
    else:
        return categories_list[0]['name']

new_df['categories'] = new_df.apply(get_category_type, axis=1)

new_df.columns = [column.split('.')[-1] for column in new_df.columns]

new_df.head()
```

```
name categories address crossStreet lat lng labeledLa
```

Sheraton

		Timal_capstonenpying conductatory					
0	Centre Toronto Hotel	Hotel	Queen Street West	at York St.	43.650594	-79.384530	[{'label': 'displa 43.6505944
1	Chelsea Hotel	Hotel	33 Gerrard Street West	at Yonge St	43.658498	-79.383097	[{'label': 'displa 43.6584975915
2	One King West Hotel & Residence	Hotel	1 King St W	at Yonge St.	43.649139	-79.377876	[{'label': 'displa 43.6491395
3	Pantages Hotel & Spa	Hotel	200 Victoria St	at Shuter St	43.654498	-79.379035	[{'label': 'displa 43.6544979703
4	Crew Room Eaton Chelsea Hotel	Hotel	33 Gerrard Street West	NaN	43.658094	-79.382711	[{'label': 'displa 43.6580943558

new_df

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name categories

4		I I a de la	00.0
1	Chelsea Hotel	Hotel	33 Gerra
2	One King West Hotel & Residence	Hotel	
3	Pantages Hotel & Spa	Hotel	
4	Crew Room Eaton Chelsea Hotel	Hotel	33 Gerra
5	The Rex Hotel Jazz & Blues Bar	Jazz Club	1
6	VFM Test Hotel	Hotel	
7	Cosmopolitan Toronto Centre Hotel & Spa	Hotel	
8	Sheraton Centre Hotel Club Lounge	Lounge	
9	Sheraton Centre Toronto Hotel - Grand Ballroom	Ballroom	123 Que
10	Stathcona Hotel	Hotel	
11	Pentagos hotel	Residential Building (Apartment / Condo)	
12	Shizen Spa at the Pantages Hotel	Spa	
13	Pantages Hotel Gym	Gym	
14	Pantages Hotel Toronto Centre	Residential Building (Apartment / Condo)	200
15	650 Hotel	Hotel	
16	Be SixFifty Hotel	Hotel	
17	The Spa At The Adelaide Hotel	Spa	
18	The Adelaide Hotel Toronto	Hotel	
19	Smoldering remains of the Empress Hotel	Hotel	
20	Bond Place Hotel Parking Lot	Miscellaneous Shop	Во
21	Chelsea Hotel, Toronto Meetings & Events Venue	Convention Center	33 Gerra
22	St Regis Hotel	Hotel	
23	Suites at One King West Hotel Toronto	Hotel	1 King S
24	Henri's Bar at One King West hotel	American Restaurant	
25	89 Chestnut Residence	College Residence Hall	
26	DoubleTree by Hilton	Hotel	108
27	Marriott Downtown at CF Toronto Eaton Centre	Hotel	
28	Grand Ballroom	Event Space	12
29	Fitness Centre	Gym	
30	Kumar For Men	Men's Store	S

17/04/2020	Final_Capsto	ne.ipynb - Colaboratory				
31	Hilton	Hotel	145			
32	Pool	Pool				
33	Cambridge Suites Toronto	Hotel	15			
34	Lobby Lounge at the Shangri-La Toronto	Lounge	188			
35	Bistro on Two	Breakfast Spot	12			
36	Fitness Centre	Gym	S			
37	Op mijn hotelkamer In Toronto	Hotel				
38	Zipcar	Rental Car Location	200			
39	Shangri-La Toronto	Hotel	188			
40	Bosk at Shangri-La	Asian Restaurant	188			
41	Delta Hotels & Resorts Corporate Office	Office	77 King Stree			
42	Bistro	Restaurant	1			
<pre>array= ['Hotel'] df_hotel= new_df.loc[new_df['categories'].isin(array)] df_hotel</pre>						

 \Box

name categories

address

1	Chelsea Hotel	Hotel	33 Gerrard Street West
2	One King West Hotel & Residence	Hotel	1 King St W
3	Pantages Hotel & Spa	Hotel	200 Victoria St
4	Crew Room Eaton Chelsea Hotel	Hotel	33 Gerrard Street West
6	VFM Test Hotel	Hotel	123 Test Drive
7	Cosmopolitan Toronto Centre Hotel & Spa	Hotel	8 Colborne St
10	Stathcona Hotel	Hotel	NaN
15	650 Hotel	Hotel	650 Bay Street
16	Be SixFifty Hotel	Hotel	650 Bay Street
18	The Adelaide Hotel Toronto	Hotel	325 Bay St
19	Smoldering remains of the Empress Hotel	Hotel	335 Yonge St
22	St Regis Hotel	Hotel	325 Bay St
23	Suites at One King West Hotel Toronto	Hotel	1 King St W Toronto ON Canada
26	DoubleTree by Hilton	Hotel	108 Chestnut Street
27	Marriott Downtown at CF Toronto Eaton Centre	Hotel	525 Bay Street
31	Hilton	Hotel	145 Richmond St W
33	Cambridge Suites Toronto	Hotel	15 Richmond ST E
37	Op mijn hotelkamer In Toronto	Hotel	NaN
39	Shangri-La Toronto	Hotel	188 University Ave.

```
search_query = 'Park'
radius = 10000
```

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url = 'https://api.foursquare.com/v2/venues/search?client_id={}&client_secret={}&l
.format(CLIENT_ID, CLIENT_SECRET, latitude, longitude, VERSION, search_query, radiu
url

'https://api.foursquare.com/v2/venues/search?client_id=2VJSZMEZBVCII3HYWBCNGEL

```
result_park = requests.get(url).json()
venue_park = result_park['response']['venues']
park_df = json_normalize(venue_park)
park_df.head()
```

/usr/local/lib/python3.6/dist-packages/ipykernel_launcher.py:4: FutureWarning:

after removing the cwd from sys.path.

name

categories referralId hasF

```
Queen's
                                                                       [{'id':
                                          Park
         4b170e47f964a5208cc123e3
                                                 '4bf58dd8d48988d1fd931735',
                                                                              1587139172
                                       Subway
                                                                 'name': 'M...
                                        Station
                                                                       [{'id':
                                        Grange
      1 4b54deadf964a520a3d027e3
                                                 '4bf58dd8d48988d163941735',
                                                                                              F
                                          Park
                                                                              1587139172
                                                                 'name': 'P...
                                          TTC
                                      Streetcar
                                                                       [{'id':
      2 4b9177e4f964a520d2be33e3
                                         #403 -
                                                 '4bf58dd8d48988d1fc931735'.
                                                                              1587139172
                                                                 'name': 'L...
                                        Victoria
                                          park
                                    Residences
                                                                       [{'id':
                                     at College
         4d3a1d23325ff04db2dd1845
                                                '4d954b06a243a5684965b473',
                                                                              1587139172
                                     Park North
                                                                 'name': 'R...
                                            St.
                                                                       [{'id':
                                       Andrews
      4
          4bfc5019da7120a132df49fd
                                                 '4bf58dd8d48988d163941735',
                                                                                              F
                                    Playground
                                                                              1587139172
                                                                 'name': 'P...
                                     / Dog Park
new_column_park = ['name', 'categories'] + [col for col in park_df.columns if col.:
new df park = park df.loc[:,new column park]
def get_category_type(row):
    try:
         categories list1 = row['categories']
    except:
         categories list1 = row['venue.categories']
    if len(categories list1) == 0:
         return None
    else:
         return categories_list1[0]['name']
new_df_park['categories'] = new_df_park.apply(get_category_type, axis=1)
new_df_park.columns = [column.split('.')[-1] for column in new_df_park.columns]
new_df_park.head()
 \Box
```

name categories address crossStreet lat lng labeledL

0	Park Subway Station	Metro Station	University Ave	at College St	43.660006	-79.390272	[{'label': 'disp 43.660006357
1	Grange Park	Park	NaN	NaN	43.652488	-79.392053	[{'label': 'disp 43.652487552
2	TTC Streetcar #403 - Victoria park	Light Rail Station	NaN	NaN	43.650735	-79.386921	[{'label': 'disp 43.65073
3	Residences at College Park North	Residential Building (Apartment / Condo)	763 Bay St.	btwn. College St. and Gerrard St.	43.659822	-79.385159	[{'label': 'disp 43.659821577
4	St. Andrews Playground / Dog Park	Park	450 Adelaide Street West	Brant St & Adelaide St W	43.647388	-79.398752	[{'label': 'disp 43.647387593

new_df_park

name categories

1	Grange Park	Park	
2	TTC Streetcar #403 - Victoria park	Light Rail Station	
3	Residences at College Park North	Residential Building (Apartment / Condo)	
4	St. Andrews Playground / Dog Park	Park	45
5	Queen's Park	Park	
6	One Park Lane	Residential Building (Apartment / Condo)	
7	Physiomed College Park	Medical Center	
8	Berczy Park	Park	
9	Moss Park Tennis Courts	Tennis Court	
10	Crunch Fitness - College Park	Gym / Fitness Center	
11	Clarence Square Park	Park	
12	Toothworks - College Park Dental	Dentist's Office	4
13	St Lawrence on the Park	Building	
14	Riverdale Park West	Park	
15	Regent Park Community Centre	Community Center	
16	Regent Park	Neighborhood	
17	Trinity Bellwoods Park	Park	
18	Riverdale Park East	Park	
19	Tommy Thompson Park	Park	
20	Bellevue Square Park	Park	btwn B
21	Barbara Hall Park	Park	
22	HTO Park	Park	
23	High Park	Park	
24	Cawthra Square Dog Park	Dog Run	
25	Parliament Square Park	Park	
26	RBC WaterPark Place	Office	
27	Barbara Hall Park	Park	
28	Park Hyatt Bridal Suite	Hotel	
29	Wilfrid Park	Office	
30	Larry Sefton Park	Plaza	
31	Regent Park Community Health Centre	Community Center	
32	Winchester Park	Playground	
33	Dog Park - Canoe Landing Park	Park	
3.1 lah researc	Regent Park	Park	9/23

17/04/2020	Final_Capstone.i	pynb - Colaboratory	
35	Canoe Landing Park	Park	
36	College Park	Shopping Mall	
37	Village of Yorkville Park	Park	
38	Coronation Park	Park	7
39	Orphan's Greenspace Dog Park	Dog Run	
40	Trinity Park And Labyrinth	Garden	
41	GoodLife Fitness Toronto Bloor and Park	Gym	
42	Stanley Park	Park	
43	Trinity Square Park	Plaza	
44	Club UNO - One Park Place - Amenities Space	Recreation Center	
45	Park Stage	Theater	
46	Stanley Park (Dog Park)	Dog Run	
47	Osgoode Hall Park	Park	
48	Macgregor Park	Park	
49	Vinci Park	General Travel	
new_df_ new_df_	oark = new_df_park.dropna(axis=0, how= oark	='any', thresh=None, subset=None,	inpl

 \Box

name categories

10/23

df_park
df park

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Osgoode Hall Park

	Residential Building (Apartment / Condo)	Residences at College Park North	3
	Park	Queen's Park	5
	Residential Building (Apartment / Condo)	One Park Lane	6
	Medical Center	Physiomed College Park	7
4	Gym / Fitness Center	Crunch Fitness - College Park	10
	Park	Riverdale Park West	14
	Community Center	Regent Park Community Centre	15
10	Park	Trinity Bellwoods Park	17
55	Park	Riverdale Park East	18
btwn Bellevue	Park	Bellevue Square Park	20
	Park	Barbara Hall Park	21
	Park	High Park	23
!	Park	Canoe Landing Park	35
	Shopping Mall	College Park	36
711 Lal	Park	Coronation Park	38
	Gym	GoodLife Fitness Toronto Bloor and Park	41
	Plaza	Trinity Square Park	43
	Park	Osgoode Hall Park	47
	ries == 'Park']	= new_df_park[new_df_park.catego	oark :

categories address lat lng name 5 Queen's Park Park University Ave. 43.663946 -79.392180 14 Riverdale Park West Park 500 Gerrard St. 43.666048 -79.360941 17 Trinity Bellwoods Park Park 1053 Dundas St. W. 43.647072 -79.413756 Riverdale Park East 550 Broadview Ave 43.669951 -79.355493 18 Park Bellevue Square Park btwn Bellevue & Augusta Ave. 20 Park 43.653610 -79.402199 21 Barbara Hall Park 519 Church St 43.666879 -79.381068 Park 23 High Park 1873 Bloor St. W 43.646479 -79.463425 Park Canoe Landing Park 50 Fort York Blvd 43.638762 -79.397067 35 Park 38 **Coronation Park** Park 711 Lake Shore Blvd. W 43.634553 -79.405403

Park

130 Queen St W 43.651105 -79.386269

'https://api.foursquare.com/v2/venues/search?client_id=2VJSZMEZBVCII3HYWBCNGEL

```
result_restaurant = requests.get(url).json()

venue_restaurant = result_restaurant['response']['venues']

Restaurant_df = json_normalize(venue_restaurant)

Restaurant_df.head()
```

/usr/local/lib/python3.6/dist-packages/ipykernel_launcher.py:5: FutureWarning:

```
Hemispheres
                                                                         [{'id':
      0
          4ad4c05ff964a52048f720e3
                                    Restaurant &
                                                  '4bf58dd8d48988d14e941735',
                                                                                1587139370
                                                                   'name': 'A...
                                           Bistro
                                                                         [{'id':
                                        Victoria's
          4ad4c05cf964a52006f620e3
                                                  '4bf58dd8d48988d1c4941735',
                                      Restaurant
                                                                                1587139370
                                                                  'name': 'R...
                                       Goldstone
                                                                         [{'id':
                                          Noodle
         4b266f05f964a520657b24e3
                                                  '4bf58dd8d48988d1d1941735',
                                       Restaurant
                                                                                1587139370
                                                                  'name': 'N...
                                            金石
                                         The Hot
                                                                         [{'id':
                                          House
                                                  '4bf58dd8d48988d14e941735',
        4ada5d5bf964a520e92121e3
                                     Restaurant &
                                                                                1587139370
                                                                  'name': 'A...
                                             Bar
                                         Swatow
                                                                         [{'id':
         4ae29812f964a520288f21e3
                                      Restaurant
                                                  '4bf58dd8d48988d145941735'.
                                                                                1587139370
                                      汕頭小食家
                                                                  'name': 'C...
Restaurant new columns = ['name', 'categories'] + [col for col in Restaurant df.co'
new df restaurant = Restaurant df.loc[:,Restaurant new columns]
def get category type(row):
    trv:
         categories list3 = row['categories']
    except:
         categories list3 = row['venue.categories']
    if len(categories list3) == 0:
         return None
    else:
         return categories list3[0]['name']
```

new_df_restaurant['categories'] = new_df_restaurant.apply(get_category_type, axis=) new_df_restaurant.columns = [column.split('.')[-1] for column in new_df_restaurant new df restaurant.head()

name	categories	address	lat	lng	labeledLatLngs	dist
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110

			Final_Ca	pstone.ipynb -	Colaboratory	
0	Restaurant & Bistro	Restaurant	Chestnut Street	43.654884	-79.385931	43.65488413420439
1	Victoria's Restaurant	Restaurant	37 King Street East	43.649298	-79.376431	[{'label': 'display', 'lat': 43.64929834396347
2	Goldstone Noodle Restaurant 金石	Noodle House	266 Spadina Ave	43.652278	-79.398039	[{'label': 'display', 'lat': 43.6522783893466,
3	The Hot House Restaurant & Bar	American Restaurant	35 Church St	43.648824	-79.373702	[{'label': 'display', 'lat': 43.64882370529773
4	Swatow Restaurant 汕頭小食家	Chinese Restaurant	309 Spadina Ave.	43.653866	-79.398334	[{'label': 'display', 'lat': 43.65386562507761

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17/04/2020

name categories address lat lng postalCode sta

110

17/04/2020	Final_Capstone.ipynb - Colaboratory							
	0	Restaurant & Bistro	Restaurant	Chestnut Street	43.654884	-79.385931	M5G 1R3	C
	1	Victoria's Restaurant	Restaurant	37 King Street East	43.649298	-79.376431	M5C 1E9	C
	2	Goldstone Noodle Restaurant 金石	Noodle House	266 Spadina Ave	43.652278	-79.398039	M5T 2E4	C
	3	The Hot House Restaurant & Bar	American Restaurant	35 Church St	43.648824	-79.373702	M5E 1T3	C
	4	Swatow Restaurant 汕頭小 食家	Chinese Restaurant	309 Spadina Ave.	43.653866	-79.398334	M5T 2E6	C
	5	New Sky Restaurant 小沙田 食家	Chinese Restaurant	353 Spadina Ave.	43.655337	-79.398897	M5T 2G3	C
	6	Sky Dragon Chinese Restaurant 龍翔酒 樓	Dim Sum Restaurant	280 Spadina Ave.	43.652783	-79.398174	NaN	C
	7	Aroma Fine Indian Restaurant	Indian Restaurant	287 King St. W	43.646463	-79.389644	M5V 1J5	C
	8	Some Time BBQ Grill Restaurant 碳 烤屋	Szechuan Restaurant	988 Baldwin Street	43.655874	-79.393826	NaN	C
	9	360 Restaurant	Wine Bar	301 Front St W	43.642537	-79.387042	M5V 2T6	C
	10	Studio Restaurant	Breakfast Spot	389 Church St.	43.661500	-79.379319	M5B	C
	11	Azure Restaurant & Bar	Restaurant	225 Front St W	43.644749	-79.385113	M5V 2X3	C
	12	Rol San Restaurant 龍笙棧	Dim Sum Restaurant	323 Spadina Ave.	43.654318	-79.398650	M5T 2E9	C
	13	North-East Chinese Restaurant 華北美 食	Chinese Restaurant	476 Dundas St.	43.653185	-79.396677	NaN	C
	14	Green Tea Restaurant Downtown	Chinese Restaurant	261 Spadina Avenue. Upper level	43.652488	-79.397501	M5T 2E3	C
	15	Cottage Restaurant & Lounge	Thai Restaurant	338 Jarvis St.	43.662770	-79.376894	M4Y 2G6	C
	16	Victor Restaurant & Bar	Bar	30 Mercer Street	43.645634	-79.391125	M5V 1H3	C
https://colab.	17 .resea	Ka Chi Korean Restaurant rch.google.com/drive/100	Korean Restaurant 6ITbl43IRVPcTh6C	8 St Andrew St 1nTcWoNAO_TcNr	43.654307 nl#scrollTo=xke		M5T 1K6	(15/23

	Nostaurant	Nostaurant	υι.				
18	Tasty's Caribbean Restaurant & Catering	Caribbean Restaurant	405 Spadina Ave	43.656794	-79.399251	M5T 2G6	C
19	Kensington Cornerstone Restaurant	Breakfast Spot	2A Kensington Ave.	43.652803	-79.399958	M5T 2J7	C
20	Sassafraz Cafe Restaurant Private Events	Event Space	100 Cumberland Street	43.670342	-79.391041	M5R 1A6	C
21	Arriba Restaurant	Restaurant	1 Blue Jays Way	43.641479	-79.389074	M5V 1J4	C
22	Sightlines Restaurant	American Restaurant	Rogers Centre	43.641635	-79.389365	NaN	C
23	Kyoto House Japanese Restaurant	Sushi Restaurant	143 Dundas St. West	43.655381	-79.385270	NaN	C
24	Osgoode Hall Restaurant	New American Restaurant	130 Queen St W	43.651979	-79.385049	M5H 2N6	Né
25	Restaurant Adelaide	Restaurant	325 Bay St (31st floor)	43.649563	-79.380590	М5Н	C

 $\label{lem:constraint} \begin{array}{ll} df_Restaurant = new_df_restaurant.dropna(axis=0, how='any', thresh=None, subset=None, df_Restaurant) \\ \end{array}$

E

name categories

16/23

1	Victoria's Restaurant	Restaurant	37 King
2	Goldstone Noodle Restaurant 金石	Noodle House	266 S
3	The Hot House Restaurant & Bar	American Restaurant	35
4	Swatow Restaurant 汕頭小食家	Chinese Restaurant	309 St
5	New Sky Restaurant 小沙田食家	Chinese Restaurant	353 Sr
7	Aroma Fine Indian Restaurant	Indian Restaurant	287
9	360 Restaurant	Wine Bar	301
10	Studio Restaurant	Breakfast Spot	389
11	Azure Restaurant & Bar	Restaurant	225
12	Rol San Restaurant 龍笙棧	Dim Sum Restaurant	323 Sr
14	Green Tea Restaurant Downtown	Chinese Restaurant	261 Spadina Avenue.
15	Cottage Restaurant & Lounge	Thai Restaurant	33
16	Victor Restaurant & Bar	Bar	30 M€
17	Ka Chi Korean Restaurant	Korean Restaurant	8 St
18	Tasty's Caribbean Restaurant & Catering	Caribbean Restaurant	405 S
19	Kensington Cornerstone Restaurant	Breakfast Spot	2A Kens
20	Sassafraz Cafe Restaurant Private Events	Event Space	100 Cumber
21	Arriba Restaurant	Restaurant	1 Blu
25	Restaurant Adelaide	Restaurant	325 Bay St
26	Hong Shing Chinese Restaurant	Chinese Restaurant	195 Dı
27	Richtree Natural Market Restaurants	Restaurant	14 ζ
30	Insomnia Restaurant and Lounge	Restaurant	563 Blc
31	Matisse Restaurant And Bar	Restaurant	(
33	Little India Restaurant	Indian Restaurant	255 Q
34	Cali Restaurant	Vietnamese Restaurant	179 Dui
35	Wah Too Seafood Restaurant	Chinese Restaurant	56 (
36	Hendricks Restaurant & Bar	Restaurant	Yonge .
37	Maezo Restaurant & Bar	Indian Restaurant	67 Richmond 5
38	Tender Trap Restaurant	Chinese Restaurant	580 Pa
41	Maezo Restaurant	Indian Restaurant	67 Richmo
43	Spring Rolls Japanese Restaurant in Toronto	Theme Restaurant	40 Dundas St
44	Woodlot Restaurant & Bakery	New American Restaurant	293 Palm
45	Donatello Restaurant	Italian Restaurant	
46	The Senator Restaurant	Diner	249 Vic

THE SCHOLOF INCSLUCIALIE

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48

Anoush Restaurant

Restaurant

250 Dt

neighbourhood_df = pd.concat([df_hotel, df_park, df_Restaurant], ignore_index=True neighbourhood_df

categories name

18/23

1	Chelsea Hotel	Hotel	33 Gerrard
2	One King West Hotel & Residence	Hotel	
3	Pantages Hotel & Spa	Hotel	20
4	Crew Room Eaton Chelsea Hotel	Hotel	33 Gerrard
5	VFM Test Hotel	Hotel	12
6	Cosmopolitan Toronto Centre Hotel & Spa	Hotel	8
7	Stathcona Hotel	Hotel	
8	650 Hotel	Hotel	65
9	Be SixFifty Hotel	Hotel	65
10	The Adelaide Hotel Toronto	Hotel	
11	Smoldering remains of the Empress Hotel	Hotel	3
12	St Regis Hotel	Hotel	
13	Suites at One King West Hotel Toronto	Hotel	1 King St W Toronto
14	DoubleTree by Hilton	Hotel	108 Che
15	Marriott Downtown at CF Toronto Eaton Centre	Hotel	52!
16	Hilton	Hotel	145 Ric
17	Cambridge Suites Toronto	Hotel	15 Ricl
18	Op mijn hotelkamer In Toronto	Hotel	
19	Shangri-La Toronto	Hotel	188 Un
20	Queen's Park	Park	Un
21	Riverdale Park West	Park	500
22	Trinity Bellwoods Park	Park	1053 Dı
23	Riverdale Park East	Park	550 Bro
24	Bellevue Square Park	Park	btwn Bellevue & A
25	Barbara Hall Park	Park	51
26	High Park	Park	1873
27	Canoe Landing Park	Park	50 Fc
28	Coronation Park	Park	711 Lake Sh
29	Osgoode Hall Park	Park	130
30	Hemispheres Restaurant & Bistro	American Restaurant	110 Che
31	Victoria's Restaurant	Restaurant	37 Kinç
32	Goldstone Noodle Restaurant 金石	Noodle House	266 \$
33	The Hot House Restaurant & Bar	American Restaurant	3
34	Swatow Restaurant 汕頭小仓家	Chinese Restaurant	309 5

17/04/2020	J-	Final_Capstone.ipynb - Colaboratory		500 C
	35	New Sky Restaurant 小沙田食家	Chinese Restaurant	353 S
	36	Aroma Fine Indian Restaurant	Indian Restaurant	28.
	37	360 Restaurant	Wine Bar	301
	38	Studio Restaurant	Breakfast Spot	38!
	39	Azure Restaurant & Bar	Restaurant	22!
	40	Rol San Restaurant 龍笙棧	Dim Sum Restaurant	323 S
	41	Green Tea Restaurant Downtown	Chinese Restaurant	261 Spadina Avenue.
	42	Cottage Restaurant & Lounge	Thai Restaurant	3:
	43	Victor Restaurant & Bar	Bar	30 N
	44	Ka Chi Korean Restaurant	Korean Restaurant	8 S
	45	Tasty's Caribbean Restaurant & Catering	Caribbean Restaurant	405 \$
	46	Kensington Cornerstone Restaurant	Breakfast Spot	2A Ken
	47	Sassafraz Cafe Restaurant Private Events	Event Space	100 Cumb€
	48	Arriba Restaurant	Restaurant	1 Blı
	49	Restaurant Adelaide	Restaurant	325 Bay S
	50	Hong Shing Chinese Restaurant	Chinese Restaurant	195 С
	51	Richtree Natural Market Restaurants	Restaurant	14
	52	Insomnia Restaurant and Lounge	Restaurant	563 B
	53	Matisse Restaurant And Bar	Restaurant	
	54	Little India Restaurant	Indian Restaurant	255 (
	55	Cali Restaurant	Vietnamese Restaurant	179 Dı
	56	Wah Too Seafood Restaurant	Chinese Restaurant	56
	57	Hendricks Restaurant & Bar	Restaurant	Yonge
	58	Maezo Restaurant & Bar	Indian Restaurant	67 Richmond
	59	Tender Trap Restaurant	Chinese Restaurant	580 P
	60	Maezo Restaurant	Indian Restaurant	67 Richm
	61	Spring Rolls Japanese Restaurant in Toronto	Theme Restaurant	40 Dundas S
	62	Woodlot Restaurant & Bakery	New American Restaurant	293 Paln
	63	Donatello Restaurant	Italian Restaurant	
	64	The Senator Restaurant	Diner	249 Vi
	65	Anoush Restaurant	Restaurant	250 Г
map_t	oron	to = folium.Map(location=[latitude,	<pre>longitude], zoom_star</pre>	t=14)

neighbourhood_df['address']):

```
label = '{}, {}'.format(name, address)
label = folium.Popup(label, parse_html=True)
folium.CircleMarker(
       [lat, lng],
       radius=5,
       popup=label,
       color='blue',
       fill=True,
       fill_color='blue',
       fill_opacity=0.7,
       parse_html=False).add_to(map_toronto)
```

□



