Capstone Project - The Battle of the Neighborhoods (Week 2)

Applied Data Science Capstone by IBM/Coursera

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Introduction: Business Problem

In this project we will try to find an optimal location for a restaurant. Specifically, this report will be targeted to stakeholders interested in opening an **restaurant** in **Toronto**, Canada.

Here we will try finding if someone wants to open a new restaurant in the city which location is best suited for it keeping in mind the competitors and which income group of people will be attracted most to it based on the **population of the neighbourhood**.

Since there are lots of restaurants in Toronto we will try to detect **locations that are not already crowded with restaurants**. We would also prefer locations **as close to city center as possible**, assuming that first two conditions are met.

We will use our data science powers to generate a few most promising neighborhoods based on this criteria. Advantages of each area will then be clearly expressed so that best possible final location can be chosen by stakeholders.

Data

Based on definition of our problem, factors that will influence our decission are:

- All existing restaurants in the neighborhood (any type of restaurant)
- Age group of people with their income
- Distance of neighborhood from city center

We decided to use regularly spaced grid of locations, centered around city center, to define our neighborhoods.

Following data sources will be needed to extract/generate the required information:

- centers of candidate areas will be generated algorithmically and approximate addresses of centers of those areas will be obtained using
  https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M (https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M)
- number of restaurants and their type and location in every neighborhood will be obtained using **Foursquare API**

```
In [1]:  import numpy as np
         import pandas as pd
         pd.set_option('display.max_columns', None)
         pd.set_option('display.max_rows', None)
         pd.set_option('display.expand_frame_repr', False)
```

```
In [2]:  # define the dataframe columns
         column_names = ['Postal_Code','Borough', 'Neighborhood']

         Nebr = pd.DataFrame(columns=column_names)
```

1. Download and Explore Dataset

In [3]:
```python
from urllib.request import urlopen
wiki = "https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M"

page = urlopen(wiki)

from bs4 import BeautifulSoup
soup = BeautifulSoup(page, "lxml")
print(soup.prettify())
```

```html
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   List of postal codes of Canada: M - Wikipedia
  </title>
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  List of postal codes of Canada: M
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   From Wikipedia, the free encyclopedia
  </div>
  <div id="contentSub">
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  </div>
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   Jump to search
  </a>
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    <p>
     This is a list of
     <a href="/wiki/Postal_codes_in_Canada" title="Postal codes in Canada">
      postal codes in Canada
     </a>
     where the first letter is M. Postal codes beginning with M are located within the city of
     <a href="/wiki/Toronto" title="Toronto">
      Toronto
     </a>
     in the province of
     <a href="/wiki/Ontario" title="Ontario">
      Ontario
     </a>
     . Only the first three characters are listed, corresponding to the Forward Sortation Area.
    </p>
    <p>
     <a href="/wiki/Canada_Post" title="Canada Post">
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     provides a free postal code look-up tool on its website,
     <sup class="reference" id="cite_ref-1">
      <a href="#cite_note-1">
       [1]
      </a>
     </sup>
     via its
     <a href="/wiki/Mobile_app" title="Mobile app">
      applications
     </a>
     for such
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     </a>
     as the
     <a href="/wiki/IPhone" title="IPhone">
      iPhone
     </a>
     and
     <a href="/wiki/BlackBerry" title="BlackBerry">
      BlackBerry
     </a>
     ,
     <sup class="reference" id="cite_ref-2">
      <a href="#cite_note-2">
       [2]
      </a>
     </sup>
     and sells hard-copy directories and
     <a href="/wiki/CD-ROM" title="CD-ROM">
      CD-ROMs
```

```
        </a>
        . Many vendors also sell validation tools, which allow customers to properly match addresses and post
al codes. Hard-copy directories can also be consulted in all post offices, and some libraries.
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        -
        <a href="/wiki/Postal_codes_in_Canada#Forward_sortation_areas" title="Postal codes in Canada">
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        </a>
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        <span class="mw-editsection-bracket">
         [
        </span>
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Edit section: Toronto - FSAs">
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       Note: There are no rural FSAs in Toronto, hence no postal codes should start with M0, however, the po
stal code M0R 8T0 is assigned to an amazon warehouse in Mississauga, suggesting that Canada Post may be allo
cating the M0 FSA for high volume addresses.
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Parsed by mw1276
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Cache expiry: 2592000
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Complications: [vary-revision]
CPU time usage: 0.228 seconds
Real time usage: 0.260 seconds
Preprocessor visited node count: 575/1000000
Preprocessor generated node count: 0/1500000
Post-expand include size: 10232/2097152 bytes
Template argument size: 13/2097152 bytes
Highest expansion depth: 4/40
Expensive parser function count: 0/500
Unstrip recursion depth: 1/20
Unstrip post-expand size: 9025/5000000 bytes
Number of Wikibase entities loaded: 0/400
Lua time usage: 0.070/10.000 seconds
Lua memory usage: 1.71 MB/50 MB
-->
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Transclusion expansion time report (%,ms,calls,template)
100.00%  119.657      1 -total
 83.66%  100.105      3 Template:Cite_web
  3.49%    4.176      1 Template:Canadian_postal_codes
  3.46%    4.146      1 Template:Col-2
  2.05%    2.449      1 Template:Col-begin
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      1.65%    1.977      2 Template:Col-end
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                Namespaces
               </h3>
               <ul>
                <li class="selected" id="ca-nstab-main">
                 <span>
                  <a accesskey="c" href="/wiki/List_of_postal_codes_of_Canada:_M" title="View the content page [c]">
                   Article
                  </a>
                 </span>
                </li>
                <li id="ca-talk">
                 <span>
                  <a accesskey="t" href="/wiki/Talk:List_of_postal_codes_of_Canada:_M" rel="discussion" title="Discus
sion about the content page [t]">
                   Talk
                  </a>
                 </span>
                </li>
               </ul>
              </div>
              <div aria-labelledby="p-variants-label" class="vectorMenu emptyPortlet" id="p-variants" role="navigatio
n">
               <input aria-labelledby="p-variants-label" class="vectorMenuCheckbox" type="checkbox"/>
               <h3 id="p-variants-label">
                <span>
                 Variants
                </span>
               </h3>
               <ul class="menu">
               </ul>
              </div>
             </div>
             <div id="right-navigation">
              <div aria-labelledby="p-views-label" class="vectorTabs" id="p-views" role="navigation">
               <h3 id="p-views-label">
                Views
               </h3>
               <ul>
                <li class="collapsible selected" id="ca-view">
                 <span>
                  <a href="/wiki/List_of_postal_codes_of_Canada:_M">
                   Read
                  </a>
                 </span>
                </li>
                <li class="collapsible" id="ca-edit">
                 <span>
                  <a accesskey="e" href="/w/index.php?title=List_of_postal_codes_of_Canada:_M&amp;action=edit" title
="Edit this page [e]">
                   Edit
                  </a>
                 </span>
                </li>
                <li class="collapsible" id="ca-history">
                 <span>
                  <a accesskey="h" href="/w/index.php?title=List_of_postal_codes_of_Canada:_M&amp;action=history" tit
le="Past revisions of this page [h]">
                   View history
                  </a>
                 </span>
                </li>
               </ul>
              </div>
              <div aria-labelledby="p-cactions-label" class="vectorMenu emptyPortlet" id="p-cactions" role="navigatio
n">
               <input aria-labelledby="p-cactions-label" class="vectorMenuCheckbox" type="checkbox"/>
               <h3 id="p-cactions-label">
```

```
      <span>
       More
      </span>
     </h3>
     <ul class="menu">
     </ul>
    </div>
    <div id="p-search" role="search">
     <h3>
      <label for="searchInput">
       Search
      </label>
     </h3>
     <form action="/w/index.php" id="searchform">
      <div id="simpleSearch">
       <input accesskey="f" id="searchInput" name="search" placeholder="Search Wikipedia" title="Search Wik
ipedia [f]" type="search"/>
       <input name="title" type="hidden" value="Special:Search"/>
       <input class="searchButton mw-fallbackSearchButton" id="mw-searchButton" name="fulltext" title="Sear
ch Wikipedia for this text" type="submit" value="Search"/>
       <input class="searchButton" id="searchButton" name="go" title="Go to a page with this exact name if
it exists" type="submit" value="Go"/>
      </div>
     </form>
    </div>
   </div>
  </div>
  <div id="mw-panel">
   <div id="p-logo" role="banner">
    <a class="mw-wiki-logo" href="/wiki/Main_Page" title="Visit the main page">
    </a>
   </div>
   <div aria-labelledby="p-navigation-label" class="portal" id="p-navigation" role="navigation">
    <h3 id="p-navigation-label">
     Navigation
    </h3>
    <div class="body">
     <ul>
      <li id="n-mainpage-description">
       <a accesskey="z" href="/wiki/Main_Page" title="Visit the main page [z]">
        Main page
       </a>
      </li>
      <li id="n-contents">
       <a href="/wiki/Portal:Contents" title="Guides to browsing Wikipedia">
        Contents
       </a>
      </li>
      <li id="n-featuredcontent">
       <a href="/wiki/Portal:Featured_content" title="Featured content – the best of Wikipedia">
        Featured content
       </a>
      </li>
      <li id="n-currentevents">
       <a href="/wiki/Portal:Current_events" title="Find background information on current events">
        Current events
       </a>
      </li>
      <li id="n-randompage">
       <a accesskey="x" href="/wiki/Special:Random" title="Load a random article [x]">
        Random article
       </a>
      </li>
      <li id="n-sitesupport">
       <a href="https://donate.wikimedia.org/wiki/Special:FundraiserRedirector?utm_source=donate&amp;utm_me
dium=sidebar&amp;utm_campaign=C13_en.wikipedia.org&amp;uselang=en" title="Support us">
        Donate to Wikipedia
       </a>
      </li>
      <li id="n-shoplink">
       <a href="//shop.wikimedia.org" title="Visit the Wikipedia store">
        Wikipedia store
       </a>
      </li>
     </ul>
    </div>
   </div>
   <div aria-labelledby="p-interaction-label" class="portal" id="p-interaction" role="navigation">
    <h3 id="p-interaction-label">
     Interaction
    </h3>
```

```html
          <div class="body">
           <ul>
            <li id="n-help">
             <a href="/wiki/Help:Contents" title="Guidance on how to use and edit Wikipedia">
              Help
             </a>
            </li>
            <li id="n-aboutsite">
             <a href="/wiki/Wikipedia:About" title="Find out about Wikipedia">
              About Wikipedia
             </a>
            </li>
            <li id="n-portal">
             <a href="/wiki/Wikipedia:Community_portal" title="About the project, what you can do, where to find
things">
              Community portal
             </a>
            </li>
            <li id="n-recentchanges">
             <a accesskey="r" href="/wiki/Special:RecentChanges" title="A list of recent changes in the wiki [r]"
>
              Recent changes
             </a>
            </li>
            <li id="n-contactpage">
             <a href="//en.wikipedia.org/wiki/Wikipedia:Contact_us" title="How to contact Wikipedia">
              Contact page
             </a>
            </li>
           </ul>
          </div>
         </div>
         <div aria-labelledby="p-tb-label" class="portal" id="p-tb" role="navigation">
          <h3 id="p-tb-label">
           Tools
          </h3>
          <div class="body">
           <ul>
            <li id="t-whatlinkshere">
             <a accesskey="j" href="/wiki/Special:WhatLinksHere/List_of_postal_codes_of_Canada:_M" title="List of
all English Wikipedia pages containing links to this page [j]">
              What links here
             </a>
            </li>
            <li id="t-recentchangeslinked">
             <a accesskey="k" href="/wiki/Special:RecentChangesLinked/List_of_postal_codes_of_Canada:_M" rel="nof
ollow" title="Recent changes in pages linked from this page [k]">
              Related changes
             </a>
            </li>
            <li id="t-upload">
             <a accesskey="u" href="/wiki/Wikipedia:File_Upload_Wizard" title="Upload files [u]">
              Upload file
             </a>
            </li>
            <li id="t-specialpages">
             <a accesskey="q" href="/wiki/Special:SpecialPages" title="A list of all special pages [q]">
              Special pages
             </a>
            </li>
            <li id="t-permalink">
             <a href="/w/index.php?title=List_of_postal_codes_of_Canada:_M&amp;oldid=906439794" title="Permanent
link to this revision of the page">
              Permanent link
             </a>
            </li>
            <li id="t-info">
             <a href="/w/index.php?title=List_of_postal_codes_of_Canada:_M&amp;action=info" title="More informati
on about this page">
              Page information
             </a>
            </li>
            <li id="t-wikibase">
             <a accesskey="g" href="https://www.wikidata.org/wiki/Special:EntityPage/Q3248240" title="Link to con
nected data repository item [g]">
              Wikidata item
             </a>
            </li>
            <li id="t-cite">
             <a href="/w/index.php?title=Special:CiteThisPage&amp;page=List_of_postal_codes_of_Canada%3A_M&amp;id
=906439794" title="Information on how to cite this page">
```

```
            Cite this page
           </a>
          </li>
         </ul>
        </div>
       </div>
       <div aria-labelledby="p-coll-print_export-label" class="portal" id="p-coll-print_export" role="navigatio
n">
        <h3 id="p-coll-print_export-label">
         Print/export
        </h3>
        <div class="body">
         <ul>
          <li id="coll-create_a_book">
           <a href="/w/index.php?title=Special:Book&amp;bookcmd=book_creator&amp;referer=List+of+postal+codes+o
f+Canada%3A+M">
            Create a book
           </a>
          </li>
          <li id="coll-download-as-rl">
           <a href="/w/index.php?title=Special:ElectronPdf&amp;page=List+of+postal+codes+of+Canada%3A+M&amp;act
ion=show-download-screen">
            Download as PDF
           </a>
          </li>
          <li id="t-print">
           <a accesskey="p" href="/w/index.php?title=List_of_postal_codes_of_Canada:_M&amp;printable=yes" title
="Printable version of this page [p]">
            Printable version
           </a>
          </li>
         </ul>
        </div>
       </div>
       <div aria-labelledby="p-lang-label" class="portal" id="p-lang" role="navigation">
        <h3 id="p-lang-label">
         Languages
        </h3>
        <div class="body">
         <ul>
          <li class="interlanguage-link interwiki-fr">
           <a class="interlanguage-link-target" href="https://fr.wikipedia.org/wiki/Liste_des_codes_postaux_can
adiens_d%C3%A9butant_par_M" hreflang="fr" lang="fr" title="Liste des codes postaux canadiens débutant par M
– French">
            Français
           </a>
          </li>
         </ul>
         <div class="after-portlet after-portlet-lang">
          <span class="wb-langlinks-edit wb-langlinks-link">
           <a class="wbc-editpage" href="https://www.wikidata.org/wiki/Special:EntityPage/Q3248240#sitelinks-wi
kipedia" title="Edit interlanguage links">
            Edit links
           </a>
          </span>
         </div>
        </div>
       </div>
      </div>
     </div>
     <div id="footer" role="contentinfo">
      <ul id="footer-info">
       <li id="footer-info-lastmod">
        This page was last edited on 15 July 2019, at 21:03
        <span class="anonymous-show">
         (UTC)
        </span>
        .
       </li>
       <li id="footer-info-copyright">
        Text is available under the
        <a href="//en.wikipedia.org/wiki/Wikipedia:Text_of_Creative_Commons_Attribution-ShareAlike_3.0_Unported
_License" rel="license">
         Creative Commons Attribution-ShareAlike License
        </a>
        <a href="//creativecommons.org/licenses/by-sa/3.0/" rel="license" style="display:none;">
        </a>
        ;
additional terms may apply.  By using this site, you agree to the
        <a href="//foundation.wikimedia.org/wiki/Terms_of_Use">
         Terms of Use
```

```html
      </a>
      and
      <a href="//foundation.wikimedia.org/wiki/Privacy_policy">
       Privacy Policy
      </a>
      . Wikipedia® is a registered trademark of the
      <a href="//www.wikimediafoundation.org/">
       Wikimedia Foundation, Inc.
      </a>
      , a non-profit organization.
     </li>
    </ul>
    <ul id="footer-places">
     <li id="footer-places-privacy">
      <a class="extiw" href="https://foundation.wikimedia.org/wiki/Privacy_policy" title="wmf:Privacy policy"
>
       Privacy policy
      </a>
     </li>
     <li id="footer-places-about">
      <a href="/wiki/Wikipedia:About" title="Wikipedia:About">
       About Wikipedia
      </a>
     </li>
     <li id="footer-places-disclaimer">
      <a href="/wiki/Wikipedia:General_disclaimer" title="Wikipedia:General disclaimer">
       Disclaimers
      </a>
     </li>
     <li id="footer-places-contact">
      <a href="//en.wikipedia.org/wiki/Wikipedia:Contact_us">
       Contact Wikipedia
      </a>
     </li>
     <li id="footer-places-developers">
      <a href="https://www.mediawiki.org/wiki/Special:MyLanguage/How_to_contribute">
       Developers
      </a>
     </li>
     <li id="footer-places-cookiestatement">
      <a href="https://foundation.wikimedia.org/wiki/Cookie_statement">
       Cookie statement
      </a>
     </li>
     <li id="footer-places-mobileview">
      <a class="noprint stopMobileRedirectToggle" href="//en.m.wikipedia.org/w/index.php?title=List_of_postal
_codes_of_Canada:_M&amp;mobileaction=toggle_view_mobile">
       Mobile view
      </a>
     </li>
    </ul>
    <ul class="noprint" id="footer-icons">
     <li id="footer-copyrightico">
      <a href="https://wikimediafoundation.org/">
       <img alt="Wikimedia Foundation" height="31" src="/static/images/wikimedia-button.png" srcset="/static/
images/wikimedia-button-1.5x.png 1.5x, /static/images/wikimedia-button-2x.png 2x" width="88"/>
      </a>
     </li>
     <li id="footer-poweredbyico">
      <a href="https://www.mediawiki.org/">
       <img alt="Powered by MediaWiki" height="31" src="/static/images/poweredby_mediawiki_88x31.png" srcset
="/static/images/poweredby_mediawiki_132x47.png 1.5x, /static/images/poweredby_mediawiki_176x62.png 2x" widt
h="88"/>
      </a>
     </li>
    </ul>
    <div style="clear: both;">
    </div>
   </div>
  <script>
   (RLQ=window.RLQ||[]).push(function(){mw.config.set({"wgPageParseReport":{"limitreport":{"cputime":"0.22
8","walltime":"0.260","ppvisitednodes":{"value":575,"limit":1000000},"ppgeneratednodes":{"value":0,"limit":1
500000},"postexpandincludesize":{"value":10232,"limit":2097152},"templateargumentsize":{"value":13,"limit":2
097152},"expansiondepth":{"value":4,"limit":40},"expensivefunctioncount":{"value":0,"limit":500},"unstrip-de
pth":{"value":1,"limit":20},"unstrip-size":{"value":9025,"limit":5000000},"entityaccesscount":{"value":0,"li
mit":400},"timingprofile":["100.00%  119.657      1 -total"," 83.66%  100.105      3 Template:Cite_web","
3.49%    4.176      1 Template:Canadian_postal_codes"," 3.46%    4.146      1 Template:Col-2","  2.05%
2.449      1 Template:Col-begin"," 1.68%    2.009      1 Template:Col-break"," 1.65%    1.977      2 Templ
ate:Col-end"]},"scribunto":{"limitreport-timeusage":{"value":"0.070","limit":"10.000"}},"limitreport-memusag
e":{"value":1788770,"limit":52428800}},"cachereport":{"origin":"mw1276","timestamp":"20190715210404","ttl":2
592000,"transientcontent":false}}});});
```

In [4]: Toronto=soup.find('table', class_='wikitable sortable')
Toronto

```
</script>
<script type="application/ld+json">
```

{"@context":"https:\/\/schema.org","@type":"Article","name":"List of postal codes of Canada: M","url":"ht
tps:\/\/en.wikipedia.org\/wiki\/List_of_postal_codes_of_Canada:_M","sameAs":"http:\/\/www.wikidata.org\/enti
ty\/Q3248240","mainEntity":"http:\/\/www.wikidata.org\/entity\/Q3248240","author":{"@type":"Organization","n
ame":"Contributors to Wikimedia projects"},"publisher":{"@type":"Organization","name":"Wikimedia Foundation,
Inc.","logo":{"@type":"ImageObject","url":"https:\/\/www.wikimedia.org\/static\/images\/wmf-hor-googpub.pn
g"}},"datePublished":"2004-03-20T10:02:13Z","dateModified":"2019-07-15T21:03:58Z","headline":"Wikimedia list
article"}

```
</script>
<script>
  (RLQ=window.RLQ||[]).push(function(){mw.config.set({"wgBackendResponseTime":88,"wgHostname":"mw131
9"});});
</script>
</body>
</html>
```

```
Out[4]: <table class="wikitable sortable">
        <tbody><tr>
        <th>Postcode</th>
        <th>Borough</th>
        <th>Neighbourhood
        </th></tr>
        <tr>
        <td>M1A</td>
        <td>Not assigned</td>
        <td>Not assigned
        </td></tr>
        <tr>
        <td>M2A</td>
        <td>Not assigned</td>
        <td>Not assigned
        </td></tr>
        <tr>
        <td>M3A</td>
        <td><a href="/wiki/North_York" title="North York">North York</a></td>
        <td><a href="/wiki/Parkwoods" title="Parkwoods">Parkwoods</a>
        </td></tr>
        <tr>
        <td>M4A</td>
        <td><a href="/wiki/North_York" title="North York">North York</a></td>
        <td><a href="/wiki/Victoria_Village" title="Victoria Village">Victoria Village</a>
        </td></tr>
        <tr>
        <td>M5A</td>
        <td><a href="/wiki/Downtown_Toronto" title="Downtown Toronto">Downtown Toronto</a></td>
        <td><a href="/wiki/Harbourfront_(Toronto)" title="Harbourfront (Toronto)">Harbourfront</a>
        </td></tr>
        <tr>
        <td>M5A</td>
        <td><a href="/wiki/Downtown_Toronto" title="Downtown Toronto">Downtown Toronto</a></td>
        <td><a href="/wiki/Regent_Park" title="Regent Park">Regent Park</a>
        </td></tr>
        <tr>
        <td>M6A</td>
        <td><a href="/wiki/North_York" title="North York">North York</a></td>
        <td><a href="/wiki/Lawrence_Heights" title="Lawrence Heights">Lawrence Heights</a>
        </td></tr>
        <tr>
        <td>M6A</td>
        <td><a href="/wiki/North_York" title="North York">North York</a></td>
        <td><a href="/wiki/Lawrence_Manor" title="Lawrence Manor">Lawrence Manor</a>
        </td></tr>
        <tr>
        <td>M7A</td>
        <td><a href="/wiki/Queen%27s_Park_(Toronto)" title="Queen's Park (Toronto)">Queen's Park</a></td>
        <td>Not assigned
        </td></tr>
        <tr>
        <td>M8A</td>
        <td>Not assigned</td>
        <td>Not assigned
        </td></tr>
        <tr>
        <td>M9A</td>
        <td><a href="/wiki/Etobicoke" title="Etobicoke">Etobicoke</a></td>
        <td><a class="mw-redirect" href="/wiki/Islington_Avenue" title="Islington Avenue">Islington Avenue</a>
        </td></tr>
        <tr>
        <td>M1B</td>
        <td><a href="/wiki/Scarborough,_Toronto" title="Scarborough, Toronto">Scarborough</a></td>
        <td><a href="/wiki/Rouge,_Toronto" title="Rouge, Toronto">Rouge</a>
        </td></tr>
        <tr>
        <td>M1B</td>
        <td><a href="/wiki/Scarborough,_Toronto" title="Scarborough, Toronto">Scarborough</a></td>
        <td><a href="/wiki/Malvern,_Toronto" title="Malvern, Toronto">Malvern</a>
        </td></tr>
        <tr>
        <td>M2B</td>
        <td>Not assigned</td>
        <td>Not assigned
        </td></tr>
        <tr>
        <td>M3B</td>
        <td><a href="/wiki/North_York" title="North York">North York</a></td>
        <td>Don Mills North
        </td></tr>
```

```
<tr>
<td>M4B</td>
<td><a href="/wiki/East_York" title="East York">East York</a></td>
<td><a class="mw-redirect" href="/wiki/Woodbine_Gardens" title="Woodbine Gardens">Woodbine Gardens</a>
</td></tr>
<tr>
<td>M4B</td>
<td><a href="/wiki/East_York" title="East York">East York</a></td>
<td><a class="mw-redirect" href="/wiki/Parkview_Hill" title="Parkview Hill">Parkview Hill</a>
</td></tr>
<tr>
<td>M5B</td>
<td><a href="/wiki/Downtown_Toronto" title="Downtown Toronto">Downtown Toronto</a></td>
<td>Ryerson
</td></tr>
<tr>
<td>M5B</td>
<td><a href="/wiki/Downtown_Toronto" title="Downtown Toronto">Downtown Toronto</a></td>
<td>Garden District
</td></tr>
<tr>
<td>M6B</td>
<td><a href="/wiki/North_York" title="North York">North York</a></td>
<td>Glencairn
</td></tr>
<tr>
<td>M7B</td>
<td>Not assigned</td>
<td>Not assigned
</td></tr>
<tr>
<td>M8B</td>
<td>Not assigned</td>
<td>Not assigned
</td></tr>
<tr>
<td>M9B</td>
<td><a href="/wiki/Etobicoke" title="Etobicoke">Etobicoke</a></td>
<td>Cloverdale
</td></tr>
<tr>
<td>M9B</td>
<td><a href="/wiki/Etobicoke" title="Etobicoke">Etobicoke</a></td>
<td><a class="mw-redirect" href="/wiki/Islington,_Toronto" title="Islington, Toronto">Islington</a>
</td></tr>
<tr>
<td>M9B</td>
<td><a href="/wiki/Etobicoke" title="Etobicoke">Etobicoke</a></td>
<td>Martin Grove
</td></tr>
<tr>
<td>M9B</td>
<td><a href="/wiki/Etobicoke" title="Etobicoke">Etobicoke</a></td>
<td><a href="/wiki/Princess_Gardens" title="Princess Gardens">Princess Gardens</a>
</td></tr>
<tr>
<td>M9B</td>
<td><a href="/wiki/Etobicoke" title="Etobicoke">Etobicoke</a></td>
<td><a class="mw-redirect" href="/wiki/West_Deane_Park" title="West Deane Park">West Deane Park</a>
</td></tr>
<tr>
<td>M1C</td>
<td><a href="/wiki/Scarborough,_Toronto" title="Scarborough, Toronto">Scarborough</a></td>
<td><a href="/wiki/Highland_Creek_(Toronto)" title="Highland Creek (Toronto)">Highland Creek</a>
</td></tr>
<tr>
<td>M1C</td>
<td><a href="/wiki/Scarborough,_Toronto" title="Scarborough, Toronto">Scarborough</a></td>
<td><a class="mw-redirect" href="/wiki/Rouge_Hill" title="Rouge Hill">Rouge Hill</a>
</td></tr>
<tr>
<td>M1C</td>
<td><a href="/wiki/Scarborough,_Toronto" title="Scarborough, Toronto">Scarborough</a></td>
<td><a href="/wiki/Port_Union,_Toronto" title="Port Union, Toronto">Port Union</a>
</td></tr>
<tr>
<td>M2C</td>
<td>Not assigned</td>
<td>Not assigned
</td></tr>
<tr>
```

```html
<td>M3C</td>
<td><a href="/wiki/North_York" title="North York">North York</a></td>
<td><a href="/wiki/Flemingdon_Park" title="Flemingdon Park">Flemingdon Park</a>
</td></tr>
<tr>
<td>M3C</td>
<td><a href="/wiki/North_York" title="North York">North York</a></td>
<td>Don Mills South
</td></tr>
<tr>
<td>M4C</td>
<td><a href="/wiki/East_York" title="East York">East York</a></td>
<td><a class="mw-redirect" href="/wiki/Woodbine_Heights" title="Woodbine Heights">Woodbine Heights</a>
</td></tr>
<tr>
<td>M5C</td>
<td><a href="/wiki/Downtown_Toronto" title="Downtown Toronto">Downtown Toronto</a></td>
<td><a href="/wiki/St._James_Town" title="St. James Town">St. James Town</a>
</td></tr>
<tr>
<td>M6C</td>
<td>York</td>
<td><a class="mw-redirect" href="/wiki/Humewood-Cedarvale" title="Humewood-Cedarvale">Humewood-Cedarvale</a>
</td></tr>
<tr>
<td>M7C</td>
<td>Not assigned</td>
<td>Not assigned
</td></tr>
<tr>
<td>M8C</td>
<td>Not assigned</td>
<td>Not assigned
</td></tr>
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        Bor=[]
        Neig=[]

        for row in Toronto.findAll("tr"):
            cells = row.findAll('td')
            if len(cells)==3:
                Pos.append(cells[0].find(text=True))
                Bor.append(cells[1].find(text=True))
                Neig.append(cells[2].find(text=True))


        #Add Data to our DataFrame
        Nebr['Postal_Code']=Pos
        Nebr['Borough']=Bor
        Nebr['Neighborhood']=Neig

        Nebr
```

Out[5]:

	Postal_Code	Borough	Neighborhood
0	M1A	Not assigned	Not assigned
1	M2A	Not assigned	Not assigned
2	M3A	North York	Parkwoods
3	M4A	North York	Victoria Village
4	M5A	Downtown Toronto	Harbourfront
5	M5A	Downtown Toronto	Regent Park
6	M6A	North York	Lawrence Heights
7	M6A	North York	Lawrence Manor
8	M7A	Queen's Park	Not assigned
9	M8A	Not assigned	Not assigned
10	M9A	Etobicoke	Islington Avenue
11	M1B	Scarborough	Rouge
12	M1B	Scarborough	Malvern
13	M2B	Not assigned	Not assigned
14	M3B	North York	Don Mills North
15	M4B	East York	Woodbine Gardens
16	M4B	East York	Parkview Hill
17	M5B	Downtown Toronto	Ryerson
18	M5B	Downtown Toronto	Garden District
19	M6B	North York	Glencairn
20	M7B	Not assigned	Not assigned
21	M8B	Not assigned	Not assigned
22	M9B	Etobicoke	Cloverdale
23	M9B	Etobicoke	Islington
24	M9B	Etobicoke	Martin Grove
25	M9B	Etobicoke	Princess Gardens
26	M9B	Etobicoke	West Deane Park
27	M1C	Scarborough	Highland Creek
28	M1C	Scarborough	Rouge Hill
29	M1C	Scarborough	Port Union
30	M2C	Not assigned	Not assigned
31	M3C	North York	Flemingdon Park
32	M3C	North York	Don Mills South
33	M4C	East York	Woodbine Heights
34	M5C	Downtown Toronto	St. James Town
35	M6C	York	Humewood-Cedarvale
36	M7C	Not assigned	Not assigned
37	M8C	Not assigned	Not assigned
38	M9C	Etobicoke	Bloordale Gardens
39	M9C	Etobicoke	Eringate
40	M9C	Etobicoke	Markland Wood
41	M9C	Etobicoke	Old Burnhamthorpe
42	M1E	Scarborough	Guildwood
43	M1E	Scarborough	Morningside
44	M1E	Scarborough	West Hill
45	M2E	Not assigned	Not assigned
46	M3E	Not assigned	Not assigned

	Postal_Code	Borough	Neighborhood
47	M4E	East Toronto	The Beaches
48	M5E	Downtown Toronto	Berczy Park
49	M6E	York	Caledonia-Fairbanks
50	M7E	Not assigned	Not assigned
51	M8E	Not assigned	Not assigned
52	M9E	Not assigned	Not assigned
53	M1G	Scarborough	Woburn
54	M2G	Not assigned	Not assigned
55	M3G	Not assigned	Not assigned
56	M4G	East York	Leaside
57	M5G	Downtown Toronto	Central Bay Street
58	M6G	Downtown Toronto	Christie
59	M7G	Not assigned	Not assigned
60	M8G	Not assigned	Not assigned
61	M9G	Not assigned	Not assigned
62	M1H	Scarborough	Cedarbrae
63	M2H	North York	Hillcrest Village
64	M3H	North York	Bathurst Manor
65	M3H	North York	Downsview North
66	M3H	North York	Wilson Heights
67	M4H	East York	Thorncliffe Park
68	M5H	Downtown Toronto	Adelaide
69	M5H	Downtown Toronto	King
70	M5H	Downtown Toronto	Richmond
71	M6H	West Toronto	Dovercourt Village
72	M6H	West Toronto	Dufferin
73	M7H	Not assigned	Not assigned
74	M8H	Not assigned	Not assigned
75	M9H	Not assigned	Not assigned
76	M1J	Scarborough	Scarborough Village
77	M2J	North York	Fairview
78	M2J	North York	Henry Farm
79	M2J	North York	Oriole
80	M3J	North York	Northwood Park
81	M3J	North York	York University
82	M4J	East York	East Toronto
83	M5J	Downtown Toronto	Harbourfront East
84	M5J	Downtown Toronto	Toronto Islands
85	M5J	Downtown Toronto	Union Station
86	M6J	West Toronto	Little Portugal
87	M6J	West Toronto	Trinity
88	M7J	Not assigned	Not assigned
89	M8J	Not assigned	Not assigned
90	M9J	Not assigned	Not assigned
91	M1K	Scarborough	East Birchmount Park
92	M1K	Scarborough	Ionview
93	M1K	Scarborough	Kennedy Park

	Postal_Code	Borough	Neighborhood
94	M2K	North York	Bayview Village
95	M3K	North York	CFB Toronto
96	M3K	North York	Downsview East
97	M4K	East Toronto	The Danforth West
98	M4K	East Toronto	Riverdale
99	M5K	Downtown Toronto	Design Exchange
100	M5K	Downtown Toronto	Toronto Dominion Centre
101	M6K	West Toronto	Brockton
102	M6K	West Toronto	Exhibition Place
103	M6K	West Toronto	Parkdale Village
104	M7K	Not assigned	Not assigned
105	M8K	Not assigned	Not assigned
106	M9K	Not assigned	Not assigned
107	M1L	Scarborough	Clairlea
108	M1L	Scarborough	Golden Mile
109	M1L	Scarborough	Oakridge
110	M2L	North York	Silver Hills
111	M2L	North York	York Mills
112	M3L	North York	Downsview West
113	M4L	East Toronto	The Beaches West
114	M4L	East Toronto	India Bazaar
115	M5L	Downtown Toronto	Commerce Court
116	M5L	Downtown Toronto	Victoria Hotel
117	M6L	North York	Downsview
118	M6L	North York	North Park
119	M6L	North York	Upwood Park
120	M7L	Not assigned	Not assigned
121	M8L	Not assigned	Not assigned
122	M9L	North York	Humber Summit
123	M1M	Scarborough	Cliffcrest
124	M1M	Scarborough	Cliffside
125	M1M	Scarborough	Scarborough Village West
126	M2M	North York	Newtonbrook
127	M2M	North York	Willowdale
128	M3M	North York	Downsview Central
129	M4M	East Toronto	Studio District
130	M5M	North York	Bedford Park
131	M5M	North York	Lawrence Manor East
132	M6M	York	Del Ray
133	M6M	York	Keelesdale
134	M6M	York	Mount Dennis
135	M6M	York	Silverthorn
136	M7M	Not assigned	Not assigned
137	M8M	Not assigned	Not assigned
138	M9M	North York	Emery
139	M9M	North York	Humberlea
140	M1N	Scarborough	Birch Cliff

	Postal_Code	Borough	Neighborhood
141	M1N	Scarborough	Cliffside West
142	M2N	North York	Willowdale South
143	M3N	North York	Downsview Northwest
144	M4N	Central Toronto	Lawrence Park
145	M5N	Central Toronto	Roselawn
146	M6N	York	The Junction North
147	M6N	York	Runnymede
148	M7N	Not assigned	Not assigned
149	M8N	Not assigned	Not assigned
150	M9N	York	Weston
151	M1P	Scarborough	Dorset Park
152	M1P	Scarborough	Scarborough Town Centre
153	M1P	Scarborough	Wexford Heights
154	M2P	North York	York Mills West
155	M3P	Not assigned	Not assigned
156	M4P	Central Toronto	Davisville North
157	M5P	Central Toronto	Forest Hill North
158	M5P	Central Toronto	Forest Hill West
159	M6P	West Toronto	High Park
160	M6P	West Toronto	The Junction South
161	M7P	Not assigned	Not assigned
162	M8P	Not assigned	Not assigned
163	M9P	Etobicoke	Westmount
164	M1R	Scarborough	Maryvale
165	M1R	Scarborough	Wexford
166	M2R	North York	Willowdale West
167	M3R	Not assigned	Not assigned
168	M4R	Central Toronto	North Toronto West
169	M5R	Central Toronto	The Annex
170	M5R	Central Toronto	North Midtown
171	M5R	Central Toronto	Yorkville
172	M6R	West Toronto	Parkdale
173	M6R	West Toronto	Roncesvalles
174	M7R	Mississauga	Canada Post Gateway Processing Centre
175	M8R	Not assigned	Not assigned
176	M9R	Etobicoke	Kingsview Village
177	M9R	Etobicoke	Martin Grove Gardens
178	M9R	Etobicoke	Richview Gardens
179	M9R	Etobicoke	St. Phillips
180	M1S	Scarborough	Agincourt
181	M2S	Not assigned	Not assigned
182	M3S	Not assigned	Not assigned
183	M4S	Central Toronto	Davisville
184	M5S	Downtown Toronto	Harbord
185	M5S	Downtown Toronto	University of Toronto
186	M6S	West Toronto	Runnymede
187	M6S	West Toronto	Swansea

	Postal_Code	Borough	Neighborhood
188	M7S	Not assigned	Not assigned
189	M8S	Not assigned	Not assigned
190	M9S	Not assigned	Not assigned
191	M1T	Scarborough	Clarks Corners
192	M1T	Scarborough	Sullivan
193	M1T	Scarborough	Tam O'Shanter
194	M2T	Not assigned	Not assigned
195	M3T	Not assigned	Not assigned
196	M4T	Central Toronto	Moore Park
197	M4T	Central Toronto	Summerhill East
198	M5T	Downtown Toronto	Chinatown
199	M5T	Downtown Toronto	Grange Park
200	M5T	Downtown Toronto	Kensington Market
201	M6T	Not assigned	Not assigned
202	M7T	Not assigned	Not assigned
203	M8T	Not assigned	Not assigned
204	M9T	Not assigned	Not assigned
205	M1V	Scarborough	Agincourt North
206	M1V	Scarborough	L'Amoreaux East
207	M1V	Scarborough	Milliken
208	M1V	Scarborough	Steeles East
209	M2V	Not assigned	Not assigned
210	M3V	Not assigned	Not assigned
211	M4V	Central Toronto	Deer Park
212	M4V	Central Toronto	Forest Hill SE
213	M4V	Central Toronto	Rathnelly
214	M4V	Central Toronto	South Hill
215	M4V	Central Toronto	Summerhill West
216	M5V	Downtown Toronto	CN Tower
217	M5V	Downtown Toronto	Bathurst Quay
218	M5V	Downtown Toronto	Island airport
219	M5V	Downtown Toronto	Harbourfront West
220	M5V	Downtown Toronto	King and Spadina
221	M5V	Downtown Toronto	Railway Lands
222	M5V	Downtown Toronto	South Niagara
223	M6V	Not assigned	Not assigned
224	M7V	Not assigned	Not assigned
225	M8V	Etobicoke	Humber Bay Shores
226	M8V	Etobicoke	Mimico South
227	M8V	Etobicoke	New Toronto
228	M9V	Etobicoke	Albion Gardens
229	M9V	Etobicoke	Beaumond Heights
230	M9V	Etobicoke	Humbergate
231	M9V	Etobicoke	Jamestown
232	M9V	Etobicoke	Mount Olive
233	M9V	Etobicoke	Silverstone
234	M9V	Etobicoke	South Steeles

	Postal_Code	Borough	Neighborhood
235	M9V	Etobicoke	Thistletown
236	M1W	Scarborough	L'Amoreaux West
237	M2W	Not assigned	Not assigned
238	M3W	Not assigned	Not assigned
239	M4W	Downtown Toronto	Rosedale
240	M5W	Downtown Toronto	Stn A PO Boxes 25 The Esplanade
241	M6W	Not assigned	Not assigned
242	M7W	Not assigned	Not assigned
243	M8W	Etobicoke	Alderwood
244	M8W	Etobicoke	Long Branch
245	M9W	Etobicoke	Northwest
246	M1X	Scarborough	Upper Rouge
247	M2X	Not assigned	Not assigned
248	M3X	Not assigned	Not assigned
249	M4X	Downtown Toronto	Cabbagetown
250	M4X	Downtown Toronto	St. James Town
251	M5X	Downtown Toronto	First Canadian Place
252	M5X	Downtown Toronto	Underground city
253	M6X	Not assigned	Not assigned
254	M7X	Not assigned	Not assigned
255	M8X	Etobicoke	The Kingsway
256	M8X	Etobicoke	Montgomery Road
257	M8X	Etobicoke	Old Mill North
258	M9X	Not assigned	Not assigned
259	M1Y	Not assigned	Not assigned
260	M2Y	Not assigned	Not assigned
261	M3Y	Not assigned	Not assigned
262	M4Y	Downtown Toronto	Church and Wellesley
263	M5Y	Not assigned	Not assigned
264	M6Y	Not assigned	Not assigned
265	M7Y	East Toronto	Business Reply Mail Processing Centre 969 East...
266	M8Y	Etobicoke	Humber Bay
267	M8Y	Etobicoke	King's Mill Park
268	M8Y	Etobicoke	Kingsway Park South East
269	M8Y	Etobicoke	Mimico NE
270	M8Y	Etobicoke	Old Mill South
271	M8Y	Etobicoke	The Queensway East
272	M8Y	Etobicoke	Royal York South East
273	M8Y	Etobicoke	Sunnylea
274	M9Y	Not assigned	Not assigned
275	M1Z	Not assigned	Not assigned
276	M2Z	Not assigned	Not assigned
277	M3Z	Not assigned	Not assigned
278	M4Z	Not assigned	Not assigned
279	M5Z	Not assigned	Not assigned
280	M6Z	Not assigned	Not assigned
281	M7Z	Not assigned	Not assigned

Data Cleaning

If Borough is Not Assigned drop row.

Reset Index

```
In [6]: Nebr = Nebr.drop(Nebr[Nebr['Borough'].str.contains("Not assigned")==True].index, axis=0, inplace=False)

        Nebr.index = pd.RangeIndex(len(Nebr.index))
        Nebr
```

Out[6]:

	Postal_Code	Borough	Neighborhood
0	M3A	North York	Parkwoods
1	M4A	North York	Victoria Village
2	M5A	Downtown Toronto	Harbourfront
3	M5A	Downtown Toronto	Regent Park
4	M6A	North York	Lawrence Heights
5	M6A	North York	Lawrence Manor
6	M7A	Queen's Park	Not assigned
7	M9A	Etobicoke	Islington Avenue
8	M1B	Scarborough	Rouge
9	M1B	Scarborough	Malvern
10	M3B	North York	Don Mills North
11	M4B	East York	Woodbine Gardens
12	M4B	East York	Parkview Hill
13	M5B	Downtown Toronto	Ryerson
14	M5B	Downtown Toronto	Garden District
15	M6B	North York	Glencairn
16	M9B	Etobicoke	Cloverdale
17	M9B	Etobicoke	Islington
18	M9B	Etobicoke	Martin Grove
19	M9B	Etobicoke	Princess Gardens
20	M9B	Etobicoke	West Deane Park
21	M1C	Scarborough	Highland Creek
22	M1C	Scarborough	Rouge Hill
23	M1C	Scarborough	Port Union
24	M3C	North York	Flemingdon Park
25	M3C	North York	Don Mills South
26	M4C	East York	Woodbine Heights
27	M5C	Downtown Toronto	St. James Town
28	M6C	York	Humewood-Cedarvale
29	M9C	Etobicoke	Bloordale Gardens
30	M9C	Etobicoke	Eringate
31	M9C	Etobicoke	Markland Wood
32	M9C	Etobicoke	Old Burnhamthorpe
33	M1E	Scarborough	Guildwood
34	M1E	Scarborough	Morningside
35	M1E	Scarborough	West Hill
36	M4E	East Toronto	The Beaches
37	M5E	Downtown Toronto	Berczy Park
38	M6E	York	Caledonia-Fairbanks
39	M1G	Scarborough	Woburn
40	M4G	East York	Leaside
41	M5G	Downtown Toronto	Central Bay Street
42	M6G	Downtown Toronto	Christie
43	M1H	Scarborough	Cedarbrae

	Postal_Code	Borough	Neighborhood
44	M2H	North York	Hillcrest Village
45	M3H	North York	Bathurst Manor
46	M3H	North York	Downsview North
47	M3H	North York	Wilson Heights
48	M4H	East York	Thorncliffe Park
49	M5H	Downtown Toronto	Adelaide
50	M5H	Downtown Toronto	King
51	M5H	Downtown Toronto	Richmond
52	M6H	West Toronto	Dovercourt Village
53	M6H	West Toronto	Dufferin
54	M1J	Scarborough	Scarborough Village
55	M2J	North York	Fairview
56	M2J	North York	Henry Farm
57	M2J	North York	Oriole
58	M3J	North York	Northwood Park
59	M3J	North York	York University
60	M4J	East York	East Toronto
61	M5J	Downtown Toronto	Harbourfront East
62	M5J	Downtown Toronto	Toronto Islands
63	M5J	Downtown Toronto	Union Station
64	M6J	West Toronto	Little Portugal
65	M6J	West Toronto	Trinity
66	M1K	Scarborough	East Birchmount Park
67	M1K	Scarborough	Ionview
68	M1K	Scarborough	Kennedy Park
69	M2K	North York	Bayview Village
70	M3K	North York	CFB Toronto
71	M3K	North York	Downsview East
72	M4K	East Toronto	The Danforth West
73	M4K	East Toronto	Riverdale
74	M5K	Downtown Toronto	Design Exchange
75	M5K	Downtown Toronto	Toronto Dominion Centre
76	M6K	West Toronto	Brockton
77	M6K	West Toronto	Exhibition Place
78	M6K	West Toronto	Parkdale Village
79	M1L	Scarborough	Clairlea
80	M1L	Scarborough	Golden Mile
81	M1L	Scarborough	Oakridge
82	M2L	North York	Silver Hills
83	M2L	North York	York Mills
84	M3L	North York	Downsview West
85	M4L	East Toronto	The Beaches West
86	M4L	East Toronto	India Bazaar
87	M5L	Downtown Toronto	Commerce Court
88	M5L	Downtown Toronto	Victoria Hotel
89	M6L	North York	Downsview
90	M6L	North York	North Park

	Postal_Code	Borough	Neighborhood
91	M6L	North York	Upwood Park
92	M9L	North York	Humber Summit
93	M1M	Scarborough	Cliffcrest
94	M1M	Scarborough	Cliffside
95	M1M	Scarborough	Scarborough Village West
96	M2M	North York	Newtonbrook
97	M2M	North York	Willowdale
98	M3M	North York	Downsview Central
99	M4M	East Toronto	Studio District
100	M5M	North York	Bedford Park
101	M5M	North York	Lawrence Manor East
102	M6M	York	Del Ray
103	M6M	York	Keelesdale
104	M6M	York	Mount Dennis
105	M6M	York	Silverthorn
106	M9M	North York	Emery
107	M9M	North York	Humberlea
108	M1N	Scarborough	Birch Cliff
109	M1N	Scarborough	Cliffside West
110	M2N	North York	Willowdale South
111	M3N	North York	Downsview Northwest
112	M4N	Central Toronto	Lawrence Park
113	M5N	Central Toronto	Roselawn
114	M6N	York	The Junction North
115	M6N	York	Runnymede
116	M9N	York	Weston
117	M1P	Scarborough	Dorset Park
118	M1P	Scarborough	Scarborough Town Centre
119	M1P	Scarborough	Wexford Heights
120	M2P	North York	York Mills West
121	M4P	Central Toronto	Davisville North
122	M5P	Central Toronto	Forest Hill North
123	M5P	Central Toronto	Forest Hill West
124	M6P	West Toronto	High Park
125	M6P	West Toronto	The Junction South
126	M9P	Etobicoke	Westmount
127	M1R	Scarborough	Maryvale
128	M1R	Scarborough	Wexford
129	M2R	North York	Willowdale West
130	M4R	Central Toronto	North Toronto West
131	M5R	Central Toronto	The Annex
132	M5R	Central Toronto	North Midtown
133	M5R	Central Toronto	Yorkville
134	M6R	West Toronto	Parkdale
135	M6R	West Toronto	Roncesvalles
136	M7R	Mississauga	Canada Post Gateway Processing Centre
137	M9R	Etobicoke	Kingsview Village

	Postal_Code	Borough	Neighborhood
138	M9R	Etobicoke	Martin Grove Gardens
139	M9R	Etobicoke	Richview Gardens
140	M9R	Etobicoke	St. Phillips
141	M1S	Scarborough	Agincourt
142	M4S	Central Toronto	Davisville
143	M5S	Downtown Toronto	Harbord
144	M5S	Downtown Toronto	University of Toronto
145	M6S	West Toronto	Runnymede
146	M6S	West Toronto	Swansea
147	M1T	Scarborough	Clarks Corners
148	M1T	Scarborough	Sullivan
149	M1T	Scarborough	Tam O'Shanter
150	M4T	Central Toronto	Moore Park
151	M4T	Central Toronto	Summerhill East
152	M5T	Downtown Toronto	Chinatown
153	M5T	Downtown Toronto	Grange Park
154	M5T	Downtown Toronto	Kensington Market
155	M1V	Scarborough	Agincourt North
156	M1V	Scarborough	L'Amoreaux East
157	M1V	Scarborough	Milliken
158	M1V	Scarborough	Steeles East
159	M4V	Central Toronto	Deer Park
160	M4V	Central Toronto	Forest Hill SE
161	M4V	Central Toronto	Rathnelly
162	M4V	Central Toronto	South Hill
163	M4V	Central Toronto	Summerhill West
164	M5V	Downtown Toronto	CN Tower
165	M5V	Downtown Toronto	Bathurst Quay
166	M5V	Downtown Toronto	Island airport
167	M5V	Downtown Toronto	Harbourfront West
168	M5V	Downtown Toronto	King and Spadina
169	M5V	Downtown Toronto	Railway Lands
170	M5V	Downtown Toronto	South Niagara
171	M8V	Etobicoke	Humber Bay Shores
172	M8V	Etobicoke	Mimico South
173	M8V	Etobicoke	New Toronto
174	M9V	Etobicoke	Albion Gardens
175	M9V	Etobicoke	Beaumond Heights
176	M9V	Etobicoke	Humbergate
177	M9V	Etobicoke	Jamestown
178	M9V	Etobicoke	Mount Olive
179	M9V	Etobicoke	Silverstone
180	M9V	Etobicoke	South Steeles
181	M9V	Etobicoke	Thistletown
182	M1W	Scarborough	L'Amoreaux West
183	M4W	Downtown Toronto	Rosedale
184	M5W	Downtown Toronto	Stn A PO Boxes 25 The Esplanade

	Postal_Code	Borough	Neighborhood
185	M8W	Etobicoke	Alderwood
186	M8W	Etobicoke	Long Branch
187	M9W	Etobicoke	Northwest
188	M1X	Scarborough	Upper Rouge
189	M4X	Downtown Toronto	Cabbagetown
190	M4X	Downtown Toronto	St. James Town
191	M5X	Downtown Toronto	First Canadian Place
192	M5X	Downtown Toronto	Underground city
193	M8X	Etobicoke	The Kingsway
194	M8X	Etobicoke	Montgomery Road
195	M8X	Etobicoke	Old Mill North
196	M4Y	Downtown Toronto	Church and Wellesley
197	M7Y	East Toronto	Business Reply Mail Processing Centre 969 East...
198	M8Y	Etobicoke	Humber Bay
199	M8Y	Etobicoke	King's Mill Park
200	M8Y	Etobicoke	Kingsway Park South East
201	M8Y	Etobicoke	Mimico NE
202	M8Y	Etobicoke	Old Mill South

```
In [7]: Nebr.shape

Out[7]: (211, 3)
```

```
In [8]: column_n = ['NEBRVAL']
        NEBR_NA = pd.DataFrame(columns=column_n)
        NA=['Not assigned']
        NEBR_NA['NEBRVAL'] = NA

        Nebr1=Nebr

        for row_index,row in Nebr.iterrows():
            if((Nebr.loc[row_index,['Neighborhood']].values.astype('str') == 'Not assigned') or (Nebr.loc[row_inde
        x,['Neighborhood']].values.astype('str') == 'Not assigned\n')):

                Nebr1.loc[row_index,['Neighborhood']] = Nebr1.loc[row_index,['Borough']].values.astype('str')

        #Reset Index
        #nbr.index = pd.RangeIndex(len(nbr.index))

        Nebr1
```

Out[8]:

	Postal_Code	Borough	Neighborhood
0	M3A	North York	Parkwoods
1	M4A	North York	Victoria Village
2	M5A	Downtown Toronto	Harbourfront
3	M5A	Downtown Toronto	Regent Park
4	M6A	North York	Lawrence Heights
5	M6A	North York	Lawrence Manor
6	M7A	Queen's Park	Queen's Park
7	M9A	Etobicoke	Islington Avenue
8	M1B	Scarborough	Rouge
9	M1B	Scarborough	Malvern
10	M3B	North York	Don Mills North
11	M4B	East York	Woodbine Gardens
12	M4B	East York	Parkview Hill
13	M5B	Downtown Toronto	Ryerson
14	M5B	Downtown Toronto	Garden District
15	M6B	North York	Glencairn
16	M9B	Etobicoke	Cloverdale
17	M9B	Etobicoke	Islington
18	M9B	Etobicoke	Martin Grove
19	M9B	Etobicoke	Princess Gardens
20	M9B	Etobicoke	West Deane Park
21	M1C	Scarborough	Highland Creek
22	M1C	Scarborough	Rouge Hill
23	M1C	Scarborough	Port Union
24	M3C	North York	Flemingdon Park
25	M3C	North York	Don Mills South
26	M4C	East York	Woodbine Heights
27	M5C	Downtown Toronto	St. James Town
28	M6C	York	Humewood-Cedarvale
29	M9C	Etobicoke	Bloordale Gardens
30	M9C	Etobicoke	Eringate
31	M9C	Etobicoke	Markland Wood
32	M9C	Etobicoke	Old Burnhamthorpe
33	M1E	Scarborough	Guildwood
34	M1E	Scarborough	Morningside
35	M1E	Scarborough	West Hill

	Postal_Code	Borough	Neighborhood
36	M4E	East Toronto	The Beaches
37	M5E	Downtown Toronto	Berczy Park
38	M6E	York	Caledonia-Fairbanks
39	M1G	Scarborough	Woburn
40	M4G	East York	Leaside
41	M5G	Downtown Toronto	Central Bay Street
42	M6G	Downtown Toronto	Christie
43	M1H	Scarborough	Cedarbrae
44	M2H	North York	Hillcrest Village
45	M3H	North York	Bathurst Manor
46	M3H	North York	Downsview North
47	M3H	North York	Wilson Heights
48	M4H	East York	Thorncliffe Park
49	M5H	Downtown Toronto	Adelaide
50	M5H	Downtown Toronto	King
51	M5H	Downtown Toronto	Richmond
52	M6H	West Toronto	Dovercourt Village
53	M6H	West Toronto	Dufferin
54	M1J	Scarborough	Scarborough Village
55	M2J	North York	Fairview
56	M2J	North York	Henry Farm
57	M2J	North York	Oriole
58	M3J	North York	Northwood Park
59	M3J	North York	York University
60	M4J	East York	East Toronto
61	M5J	Downtown Toronto	Harbourfront East
62	M5J	Downtown Toronto	Toronto Islands
63	M5J	Downtown Toronto	Union Station
64	M6J	West Toronto	Little Portugal
65	M6J	West Toronto	Trinity
66	M1K	Scarborough	East Birchmount Park
67	M1K	Scarborough	Ionview
68	M1K	Scarborough	Kennedy Park
69	M2K	North York	Bayview Village
70	M3K	North York	CFB Toronto
71	M3K	North York	Downsview East
72	M4K	East Toronto	The Danforth West
73	M4K	East Toronto	Riverdale
74	M5K	Downtown Toronto	Design Exchange
75	M5K	Downtown Toronto	Toronto Dominion Centre
76	M6K	West Toronto	Brockton
77	M6K	West Toronto	Exhibition Place
78	M6K	West Toronto	Parkdale Village
79	M1L	Scarborough	Clairlea
80	M1L	Scarborough	Golden Mile
81	M1L	Scarborough	Oakridge
82	M2L	North York	Silver Hills

	Postal_Code	Borough	Neighborhood
83	M2L	North York	York Mills
84	M3L	North York	Downsview West
85	M4L	East Toronto	The Beaches West
86	M4L	East Toronto	India Bazaar
87	M5L	Downtown Toronto	Commerce Court
88	M5L	Downtown Toronto	Victoria Hotel
89	M6L	North York	Downsview
90	M6L	North York	North Park
91	M6L	North York	Upwood Park
92	M9L	North York	Humber Summit
93	M1M	Scarborough	Cliffcrest
94	M1M	Scarborough	Cliffside
95	M1M	Scarborough	Scarborough Village West
96	M2M	North York	Newtonbrook
97	M2M	North York	Willowdale
98	M3M	North York	Downsview Central
99	M4M	East Toronto	Studio District
100	M5M	North York	Bedford Park
101	M5M	North York	Lawrence Manor East
102	M6M	York	Del Ray
103	M6M	York	Keelesdale
104	M6M	York	Mount Dennis
105	M6M	York	Silverthorn
106	M9M	North York	Emery
107	M9M	North York	Humberlea
108	M1N	Scarborough	Birch Cliff
109	M1N	Scarborough	Cliffside West
110	M2N	North York	Willowdale South
111	M3N	North York	Downsview Northwest
112	M4N	Central Toronto	Lawrence Park
113	M5N	Central Toronto	Roselawn
114	M6N	York	The Junction North
115	M6N	York	Runnymede
116	M9N	York	Weston
117	M1P	Scarborough	Dorset Park
118	M1P	Scarborough	Scarborough Town Centre
119	M1P	Scarborough	Wexford Heights
120	M2P	North York	York Mills West
121	M4P	Central Toronto	Davisville North
122	M5P	Central Toronto	Forest Hill North
123	M5P	Central Toronto	Forest Hill West
124	M6P	West Toronto	High Park
125	M6P	West Toronto	The Junction South
126	M9P	Etobicoke	Westmount
127	M1R	Scarborough	Maryvale
128	M1R	Scarborough	Wexford
129	M2R	North York	Willowdale West

	Postal_Code	Borough	Neighborhood
130	M4R	Central Toronto	North Toronto West
131	M5R	Central Toronto	The Annex
132	M5R	Central Toronto	North Midtown
133	M5R	Central Toronto	Yorkville
134	M6R	West Toronto	Parkdale
135	M6R	West Toronto	Roncesvalles
136	M7R	Mississauga	Canada Post Gateway Processing Centre
137	M9R	Etobicoke	Kingsview Village
138	M9R	Etobicoke	Martin Grove Gardens
139	M9R	Etobicoke	Richview Gardens
140	M9R	Etobicoke	St. Phillips
141	M1S	Scarborough	Agincourt
142	M4S	Central Toronto	Davisville
143	M5S	Downtown Toronto	Harbord
144	M5S	Downtown Toronto	University of Toronto
145	M6S	West Toronto	Runnymede
146	M6S	West Toronto	Swansea
147	M1T	Scarborough	Clarks Corners
148	M1T	Scarborough	Sullivan
149	M1T	Scarborough	Tam O'Shanter
150	M4T	Central Toronto	Moore Park
151	M4T	Central Toronto	Summerhill East
152	M5T	Downtown Toronto	Chinatown
153	M5T	Downtown Toronto	Grange Park
154	M5T	Downtown Toronto	Kensington Market
155	M1V	Scarborough	Agincourt North
156	M1V	Scarborough	L'Amoreaux East
157	M1V	Scarborough	Milliken
158	M1V	Scarborough	Steeles East
159	M4V	Central Toronto	Deer Park
160	M4V	Central Toronto	Forest Hill SE
161	M4V	Central Toronto	Rathnelly
162	M4V	Central Toronto	South Hill
163	M4V	Central Toronto	Summerhill West
164	M5V	Downtown Toronto	CN Tower
165	M5V	Downtown Toronto	Bathurst Quay
166	M5V	Downtown Toronto	Island airport
167	M5V	Downtown Toronto	Harbourfront West
168	M5V	Downtown Toronto	King and Spadina
169	M5V	Downtown Toronto	Railway Lands
170	M5V	Downtown Toronto	South Niagara
171	M8V	Etobicoke	Humber Bay Shores
172	M8V	Etobicoke	Mimico South
173	M8V	Etobicoke	New Toronto
174	M9V	Etobicoke	Albion Gardens
175	M9V	Etobicoke	Beaumond Heights
176	M9V	Etobicoke	Humbergate

	Postal_Code	Borough	Neighborhood
177	M9V	Etobicoke	Jamestown
178	M9V	Etobicoke	Mount Olive
179	M9V	Etobicoke	Silverstone
180	M9V	Etobicoke	South Steeles
181	M9V	Etobicoke	Thistletown
182	M1W	Scarborough	L'Amoreaux West
183	M4W	Downtown Toronto	Rosedale
184	M5W	Downtown Toronto	Stn A PO Boxes 25 The Esplanade
185	M8W	Etobicoke	Alderwood
186	M8W	Etobicoke	Long Branch
187	M9W	Etobicoke	Northwest
188	M1X	Scarborough	Upper Rouge
189	M4X	Downtown Toronto	Cabbagetown
190	M4X	Downtown Toronto	St. James Town
191	M5X	Downtown Toronto	First Canadian Place
192	M5X	Downtown Toronto	Underground city
193	M8X	Etobicoke	The Kingsway
194	M8X	Etobicoke	Montgomery Road

```
In [9]: Nebr2=Nebr1.groupby('Postal_Code').agg({'Borough':'first',
                                'Neighborhood': ', '.join}).reset_index()

        column_names = ['Postal_Code','Borough', 'Neighborhood']
        Nebr3 = pd.DataFrame(columns=column_names)

        Nebr3 = Nebr2.drop(Nebr2[Nebr2['Borough'].str.contains("Toronto")==False].index, axis=0, inplace=False)

        #Reset Index
        Nebr3.index = pd.RangeIndex(len(Nebr3.index))
        Nebr3
```

Out[9]:

	Postal_Code	Borough	Neighborhood
0	M4E	East Toronto	The Beaches
1	M4K	East Toronto	The Danforth West\n, Riverdale
2	M4L	East Toronto	The Beaches West\n, India Bazaar
3	M4M	East Toronto	Studio District\n
4	M4N	Central Toronto	Lawrence Park
5	M4P	Central Toronto	Davisville North\n
6	M4R	Central Toronto	North Toronto West\n
7	M4S	Central Toronto	Davisville\n
8	M4T	Central Toronto	Moore Park, Summerhill East\n
9	M4V	Central Toronto	Deer Park, Forest Hill SE\n, Rathnelly, South ...
10	M4W	Downtown Toronto	Rosedale
11	M4X	Downtown Toronto	Cabbagetown, St. James Town
12	M4Y	Downtown Toronto	Church and Wellesley
13	M5A	Downtown Toronto	Harbourfront, Regent Park
14	M5B	Downtown Toronto	Ryerson\n, Garden District\n
15	M5C	Downtown Toronto	St. James Town
16	M5E	Downtown Toronto	Berczy Park
17	M5G	Downtown Toronto	Central Bay Street\n
18	M5H	Downtown Toronto	Adelaide\n, King\n, Richmond\n
19	M5J	Downtown Toronto	Harbourfront East\n, Toronto Islands, Union St...
20	M5K	Downtown Toronto	Design Exchange, Toronto Dominion Centre
21	M5L	Downtown Toronto	Commerce Court, Victoria Hotel\n
22	M5N	Central Toronto	Roselawn\n
23	M5P	Central Toronto	Forest Hill North, Forest Hill West\n
24	M5R	Central Toronto	The Annex, North Midtown\n, Yorkville
25	M5S	Downtown Toronto	Harbord\n, University of Toronto
26	M5T	Downtown Toronto	Chinatown, Grange Park, Kensington Market
27	M5V	Downtown Toronto	CN Tower, Bathurst Quay\n, Island airport\n, H...
28	M5W	Downtown Toronto	Stn A PO Boxes 25 The Esplanade\n
29	M5X	Downtown Toronto	First Canadian Place, Underground city
30	M6G	Downtown Toronto	Christie\n
31	M6H	West Toronto	Dovercourt Village, Dufferin\n
32	M6J	West Toronto	Little Portugal, Trinity
33	M6K	West Toronto	Brockton\n, Exhibition Place, Parkdale Village
34	M6P	West Toronto	High Park, The Junction South\n
35	M6R	West Toronto	Parkdale, Roncesvalles
36	M6S	West Toronto	Runnymede, Swansea
37	M7Y	East Toronto	Business Reply Mail Processing Centre 969 East...

```
In [10]: column = ['Postal_Code','Borough', 'Neighborhood']
         Nebr_ungrp = pd.DataFrame(columns=column_names)

         Nebr_ungrp = Nebr1.drop(Nebr1[Nebr1['Borough'].str.contains("Toronto")==False].index, axis=0, inplace=False)


         Nebr_ungrp.index = pd.RangeIndex(len(Nebr_ungrp.index))
         Nebr_ungrp
```

Out[10]:

	Postal_Code	Borough	Neighborhood
0	M5A	Downtown Toronto	Harbourfront
1	M5A	Downtown Toronto	Regent Park
2	M5B	Downtown Toronto	Ryerson
3	M5B	Downtown Toronto	Garden District
4	M5C	Downtown Toronto	St. James Town
5	M4E	East Toronto	The Beaches
6	M5E	Downtown Toronto	Berczy Park
7	M5G	Downtown Toronto	Central Bay Street
8	M6G	Downtown Toronto	Christie
9	M5H	Downtown Toronto	Adelaide
10	M5H	Downtown Toronto	King
11	M5H	Downtown Toronto	Richmond
12	M6H	West Toronto	Dovercourt Village
13	M6H	West Toronto	Dufferin
14	M5J	Downtown Toronto	Harbourfront East
15	M5J	Downtown Toronto	Toronto Islands
16	M5J	Downtown Toronto	Union Station
17	M6J	West Toronto	Little Portugal
18	M6J	West Toronto	Trinity
19	M4K	East Toronto	The Danforth West
20	M4K	East Toronto	Riverdale
21	M5K	Downtown Toronto	Design Exchange
22	M5K	Downtown Toronto	Toronto Dominion Centre
23	M6K	West Toronto	Brockton
24	M6K	West Toronto	Exhibition Place
25	M6K	West Toronto	Parkdale Village
26	M4L	East Toronto	The Beaches West
27	M4L	East Toronto	India Bazaar
28	M5L	Downtown Toronto	Commerce Court
29	M5L	Downtown Toronto	Victoria Hotel
30	M4M	East Toronto	Studio District
31	M4N	Central Toronto	Lawrence Park
32	M5N	Central Toronto	Roselawn
33	M4P	Central Toronto	Davisville North
34	M5P	Central Toronto	Forest Hill North
35	M5P	Central Toronto	Forest Hill West
36	M6P	West Toronto	High Park
37	M6P	West Toronto	The Junction South
38	M4R	Central Toronto	North Toronto West
39	M5R	Central Toronto	The Annex
40	M5R	Central Toronto	North Midtown
41	M5R	Central Toronto	Yorkville
42	M6R	West Toronto	Parkdale
43	M6R	West Toronto	Roncesvalles
44	M4S	Central Toronto	Davisville
45	M5S	Downtown Toronto	Harbord
46	M5S	Downtown Toronto	University of Toronto

	Postal_Code	Borough	Neighborhood
47	M6S	West Toronto	Runnymede
48	M6S	West Toronto	Swansea
49	M4T	Central Toronto	Moore Park
50	M4T	Central Toronto	Summerhill East
51	M5T	Downtown Toronto	Chinatown
52	M5T	Downtown Toronto	Grange Park
53	M5T	Downtown Toronto	Kensington Market
54	M4V	Central Toronto	Deer Park
55	M4V	Central Toronto	Forest Hill SE
56	M4V	Central Toronto	Rathnelly
57	M4V	Central Toronto	South Hill
58	M4V	Central Toronto	Summerhill West
59	M5V	Downtown Toronto	CN Tower
60	M5V	Downtown Toronto	Bathurst Quay
61	M5V	Downtown Toronto	Island airport
62	M5V	Downtown Toronto	Harbourfront West
63	M5V	Downtown Toronto	King and Spadina
64	M5V	Downtown Toronto	Railway Lands
65	M5V	Downtown Toronto	South Niagara
66	M4W	Downtown Toronto	Rosedale
67	M5W	Downtown Toronto	Stn A PO Boxes 25 The Esplanade
68	M4X	Downtown Toronto	Cabbagetown
69	M4X	Downtown Toronto	St. James Town
70	M5X	Downtown Toronto	First Canadian Place
71	M5X	Downtown Toronto	Underground city
72	M4Y	Downtown Toronto	Church and Wellesley

In [11]:
```
#!conda install -c conda-forge geopy --yes
import time
from geopy.geocoders import Nominatim
```

In [12]:
```
from geopy.util import get_version
get_version()
```

Out[12]: '1.18.1'

In [13]:
```
geolocator = Nominatim(scheme='http', user_agent="ES1234")

for row_index, item in Nebr_ungrp.iterrows():

    list1 = Nebr_ungrp.loc[[row_index],['Neighborhood']].values.astype('str')
    loc = ' , Toronto, Ontario, Canada'
    list1.astype('str')
    list1 = np.append(list1, loc)
    latitude = None
    longitude = None
    location = None

    location = geolocator.geocode(list1 , limit = 15)
    time.sleep(5)
    if(location is not None):
        Nebr_ungrp.loc[Nebr_ungrp.index[row_index], 'Latitude'] = location.latitude
        Nebr_ungrp.loc[Nebr_ungrp.index[row_index], 'Longitude'] = location.longitude
```

In [14]: `print(Nebr_ungrp)`

	Postal_Code	Borough	Neighborhood	Latitude	Longitude
0	M5A	Downtown Toronto	Harbourfront	43.640080	-79.380150
1	M5A	Downtown Toronto	Regent Park	43.660706	-79.360457
2	M5B	Downtown Toronto	Ryerson	43.657474	-79.377905
3	M5B	Downtown Toronto	Garden District	43.656502	-79.377128
4	M5C	Downtown Toronto	St. James Town	43.669403	-79.372704
5	M4E	East Toronto	The Beaches	43.671024	-79.296712
6	M5E	Downtown Toronto	Berczy Park	43.647989	-79.375393
7	M5G	Downtown Toronto	Central Bay Street	NaN	NaN
8	M6G	Downtown Toronto	Christie	43.664111	-79.418405
9	M5H	Downtown Toronto	Adelaide	43.651923	-79.370879
10	M5H	Downtown Toronto	King	43.648949	-79.377754
11	M5H	Downtown Toronto	Richmond	43.652744	-79.374673
12	M6H	West Toronto	Dovercourt Village	43.665307	-79.432636
13	M6H	West Toronto	Dufferin	43.660202	-79.435719
14	M5J	Downtown Toronto	Harbourfront East	43.640080	-79.380150
15	M5J	Downtown Toronto	Toronto Islands	43.616196	-79.369358
16	M5J	Downtown Toronto	Union Station	43.644690	-79.379966
17	M6J	West Toronto	Little Portugal	43.647413	-79.431116
18	M6J	West Toronto	Trinity	43.654676	-79.381731
19	M4K	East Toronto	The Danforth West	43.686360	-79.300316
20	M4K	East Toronto	Riverdale	43.665470	-79.352594
21	M5K	Downtown Toronto	Design Exchange	43.647741	-79.380115
22	M5K	Downtown Toronto	Toronto Dominion Centre	43.647370	-79.381373
23	M6K	West Toronto	Brockton	43.650917	-79.440022
24	M6K	West Toronto	Exhibition Place	43.633813	-79.417141
25	M6K	West Toronto	Parkdale Village	43.640495	-79.436897
26	M4L	East Toronto	The Beaches West	43.671024	-79.296712
27	M4L	East Toronto	India Bazaar	43.672223	-79.323503
28	M5L	Downtown Toronto	Commerce Court	43.648095	-79.379021
29	M5L	Downtown Toronto	Victoria Hotel	NaN	NaN
30	M4M	East Toronto	Studio District	NaN	NaN
31	M4N	Central Toronto	Lawrence Park	43.729199	-79.403252
32	M5N	Central Toronto	Roselawn	43.710541	-79.401138
33	M4P	Central Toronto	Davisville North	43.704312	-79.388517
34	M5P	Central Toronto	Forest Hill North	43.693559	-79.413902
35	M5P	Central Toronto	Forest Hill West	NaN	NaN
36	M6P	West Toronto	High Park	43.646281	-79.463821
37	M6P	West Toronto	The Junction South	NaN	NaN
38	M4R	Central Toronto	North Toronto West	NaN	NaN
39	M5R	Central Toronto	The Annex	43.670338	-79.407117
40	M5R	Central Toronto	North Midtown	NaN	NaN
41	M5R	Central Toronto	Yorkville	43.671386	-79.390168
42	M6R	West Toronto	Parkdale	43.640495	-79.436897
43	M6R	West Toronto	Roncesvalles	43.651443	-79.451038
44	M4S	Central Toronto	Davisville	43.704312	-79.388517
45	M5S	Downtown Toronto	Harbord	43.663940	-79.398674
46	M5S	Downtown Toronto	University of Toronto	43.663509	-79.397778
47	M6S	West Toronto	Runnymede	43.665580	-79.482108
48	M6S	West Toronto	Swansea	43.644940	-79.478313
49	M4T	Central Toronto	Moore Park	43.690388	-79.383297
50	M4T	Central Toronto	Summerhill East	43.681678	-79.390504
51	M5T	Downtown Toronto	Chinatown	43.652924	-79.398032
52	M5T	Downtown Toronto	Grange Park	43.652192	-79.392194
53	M5T	Downtown Toronto	Kensington Market	43.655214	-79.402260
54	M4V	Central Toronto	Deer Park	43.688090	-79.394093
55	M4V	Central Toronto	Forest Hill SE	NaN	NaN

```
56      M4V   Central Toronto                                      Rathnelly  43.677472 -79.400460
57      M4V   Central Toronto                                     South Hill  43.677926 -79.405767
58      M4V   Central Toronto                                Summerhill West
    43.681678 -79.390504
59      M5V  Downtown Toronto                                        CN Tower  43.642564 -79.387087
60      M5V  Downtown Toronto                                   Bathurst Quay
    43.635790 -79.398329
61      M5V  Downtown Toronto                                    Island airport
         NaN        NaN
62      M5V  Downtown Toronto                                Harbourfront West
    43.640080 -79.380150
63      M5V  Downtown Toronto                                King and Spadina  43.645456 -79.394994
64      M5V  Downtown Toronto                                   Railway Lands        NaN        NaN
65      M5V  Downtown Toronto                                   South Niagara  43.641427 -79.404582
66      M4W  Downtown Toronto                                        Rosedale  43.678356 -79.380746
67      M5W  Downtown Toronto            Stn A PO Boxes 25 The Esplanade
         NaN        NaN
68      M4X  Downtown Toronto                                     Cabbagetown  43.664473 -79.366986
69      M4X  Downtown Toronto                                  St. James Town  43.669403 -79.372704
70      M5X  Downtown Toronto                            First Canadian Place  43.648768 -79.381692
71      M5X  Downtown Toronto                                Underground city  43.770145 -79.374863
72      M4Y  Downtown Toronto                            Church and Wellesley  43.665524 -79.383801
73      M7Y      East Toronto  Business Reply Mail Processing Centre 969 East...        NaN        NaN
```

In [16]:
```python
import json

import requests
from pandas.io.json import json_normalize

import matplotlib.cm as cm
import matplotlib.colors as colors

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

# Importing to use the Foursquare API lab
!conda install -c conda-forge folium=0.5.0 --yes  #Uncomment if not installed
import folium
```

```
Solving environment: done

## Package Plan ##

  environment location: /opt/conda/envs/Python36

  added / updated specs:
    - folium=0.5.0


The following packages will be downloaded:

    package                    |            build
    ---------------------------|-----------------
    certifi-2019.6.16          |           py36_1         149 KB  conda-forge
    branca-0.3.1               |             py_0          25 KB  conda-forge
    ca-certificates-2019.6.16  |       hecc5488_0         145 KB  conda-forge
    folium-0.5.0               |             py_0          45 KB  conda-forge
    vincent-0.4.4              |             py_1          28 KB  conda-forge
    altair-3.1.0               |           py36_0         724 KB  conda-forge
    openssl-1.1.1c             |       h516909a_0         2.1 MB  conda-forge
    ------------------------------------------------------------
                                           Total:         3.2 MB

The following NEW packages will be INSTALLED:

    altair:          3.1.0-py36_0      conda-forge
    branca:          0.3.1-py_0        conda-forge
    folium:          0.5.0-py_0        conda-forge
    vincent:         0.4.4-py_1        conda-forge

The following packages will be UPDATED:

    ca-certificates: 2019.5.15-0                      --> 2019.6.16-hecc5488_0 conda-forge
    certifi:         2019.6.16-py36_0                 --> 2019.6.16-py36_1      conda-forge

The following packages will be DOWNGRADED:

    openssl:         1.1.1c-h7b6447c_1                --> 1.1.1c-h516909a_0     conda-forge


Downloading and Extracting Packages
certifi-2019.6.16    | 149 KB    | ################################### | 100%
branca-0.3.1         | 25 KB     | ################################### | 100%
ca-certificates-2019 | 145 KB    | ################################### | 100%
folium-0.5.0         | 45 KB     | ################################### | 100%
vincent-0.4.4        | 28 KB     | ################################### | 100%
altair-3.1.0         | 724 KB    | ################################### | 100%
openssl-1.1.1c       | 2.1 MB    | ################################### | 100%
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
```

```
In [17]: print('We have {} boroughs and {} neighborhoods.'.format(
             len(Nebr_ungrp['Borough'].unique()),
             Nebr_ungrp.shape[0]
         )
         )

         Nebr_ungrp.dropna(inplace =True)
         Nebr_ungrp.index = pd.RangeIndex(len(Nebr_ungrp.index))

         address = 'Toronto, Ontario, Canada'

         geolocator = Nominatim(user_agent="ES1234")
         location = geolocator.geocode(address)
         latitude = location.latitude
         longitude = location.longitude
         print('The geograpical coordinate of Toronto are {}, {}.'.format(latitude, longitude))
```

```
We have 4 boroughs and 74 neighborhoods.
The geograpical coordinate of Toronto are 43.653963, -79.387207.
```

In [19]: `Nebr_ungrp`

Out[19]:

	Postal_Code	Borough	Neighborhood	Latitude	Longitude
0	M5A	Downtown Toronto	Harbourfront	43.640080	-79.380150
1	M5A	Downtown Toronto	Regent Park	43.660706	-79.360457
2	M5B	Downtown Toronto	Ryerson	43.657474	-79.377905
3	M5B	Downtown Toronto	Garden District	43.656502	-79.377128
4	M5C	Downtown Toronto	St. James Town	43.669403	-79.372704
5	M4E	East Toronto	The Beaches	43.671024	-79.296712
6	M5E	Downtown Toronto	Berczy Park	43.647989	-79.375393
7	M6G	Downtown Toronto	Christie	43.664111	-79.418405
8	M5H	Downtown Toronto	Adelaide	43.651923	-79.370879
9	M5H	Downtown Toronto	King	43.648949	-79.377754
10	M5H	Downtown Toronto	Richmond	43.652744	-79.374673
11	M6H	West Toronto	Dovercourt Village	43.665307	-79.432636
12	M6H	West Toronto	Dufferin	43.660202	-79.435719
13	M5J	Downtown Toronto	Harbourfront East	43.640080	-79.380150
14	M5J	Downtown Toronto	Toronto Islands	43.616196	-79.369358
15	M5J	Downtown Toronto	Union Station	43.644690	-79.379966
16	M6J	West Toronto	Little Portugal	43.647413	-79.431116
17	M6J	West Toronto	Trinity	43.654676	-79.381731
18	M4K	East Toronto	The Danforth West	43.686360	-79.300316
19	M4K	East Toronto	Riverdale	43.665470	-79.352594
20	M5K	Downtown Toronto	Design Exchange	43.647741	-79.380115
21	M5K	Downtown Toronto	Toronto Dominion Centre	43.647370	-79.381373
22	M6K	West Toronto	Brockton	43.650917	-79.440022
23	M6K	West Toronto	Exhibition Place	43.633813	-79.417141
24	M6K	West Toronto	Parkdale Village	43.640495	-79.436897
25	M4L	East Toronto	The Beaches West	43.671024	-79.296712
26	M4L	East Toronto	India Bazaar	43.672223	-79.323503
27	M5L	Downtown Toronto	Commerce Court	43.648095	-79.379021
28	M4N	Central Toronto	Lawrence Park	43.729199	-79.403252
29	M5N	Central Toronto	Roselawn	43.710541	-79.401138
30	M4P	Central Toronto	Davisville North	43.704312	-79.388517
31	M5P	Central Toronto	Forest Hill North	43.693559	-79.413902
32	M6P	West Toronto	High Park	43.646281	-79.463821
33	M5R	Central Toronto	The Annex	43.670338	-79.407117
34	M5R	Central Toronto	Yorkville	43.671386	-79.390168
35	M6R	West Toronto	Parkdale	43.640495	-79.436897
36	M6R	West Toronto	Roncesvalles	43.651443	-79.451038
37	M4S	Central Toronto	Davisville	43.704312	-79.388517
38	M5S	Downtown Toronto	Harbord	43.663940	-79.398674
39	M5S	Downtown Toronto	University of Toronto	43.663509	-79.397778
40	M6S	West Toronto	Runnymede	43.665580	-79.482108
41	M6S	West Toronto	Swansea	43.644940	-79.478313
42	M4T	Central Toronto	Moore Park	43.690388	-79.383297
43	M4T	Central Toronto	Summerhill East	43.681678	-79.390504
44	M5T	Downtown Toronto	Chinatown	43.652924	-79.398032

	Postal_Code	Borough	Neighborhood	Latitude	Longitude
45	M5T	Downtown Toronto	Grange Park	43.652192	-79.392194
46	M5T	Downtown Toronto	Kensington Market	43.655214	-79.402260
47	M4V	Central Toronto	Deer Park	43.688090	-79.394093
48	M4V	Central Toronto	Rathnelly	43.677472	-79.400460
49	M4V	Central Toronto	South Hill	43.677926	-79.405767
50	M4V	Central Toronto	Summerhill West	43.681678	-79.390504
51	M5V	Downtown Toronto	CN Tower	43.642564	-79.387087
52	M5V	Downtown Toronto	Bathurst Quay	43.635790	-79.398329
53	M5V	Downtown Toronto	Harbourfront West	43.640080	-79.380150
54	M5V	Downtown Toronto	King and Spadina	43.645456	-79.394994
55	M5V	Downtown Toronto	South Niagara	43.641427	-79.404582
56	M4W	Downtown Toronto	Rosedale	43.678356	-79.380746
57	M4X	Downtown Toronto	Cabbagetown	43.664473	-79.366986
58	M4X	Downtown Toronto	St. James Town	43.669403	-79.372704

In [20]:
```python
map_toronto = folium.Map(location=[latitude, longitude], zoom_start=10)

for lat, lng, borough, neighborhood in zip(Nebr_ungrp['Latitude'], Nebr_ungrp['Longitude'], Nebr_ungrp['Borough'], Nebr_ungrp['Neighborhood']):
    label = '{}, {}'.format(neighborhood, borough)
    label = folium.Popup(label, parse_html=True)
    folium.CircleMarker(
        [lat, lng],
        radius=5,
        popup=label,
        color='blue',
        fill=True,
        fill_color='#3186cc',
        fill_opacity=0.7,
        parse_html=False).add_to(map_toronto)

map_toronto
```

Out[20]:

Lets use FOURSQUARE API to explore the neighbourhood

In [21]:
```python
CLIENT_ID = 'QEF4SFROUUVOQKNPAFNNRDUW4ACAWSYYG312LM3BKEDDKPIZ' # your Foursquare ID
CLIENT_SECRET = 'CCBFW1WDVTUYDLPFX3SR0QBB5R2UKRYOZ3F1JDJ3PLQMPDRM' # your Foursquare Secret
VERSION = '20180605' # Foursquare API version

print('Successfully Logged-In')
```

Successfully Logged-In

In [22]:
```python
Nebr_ungrp.loc[0]
neighborhood_latitude = np.float(Nebr_ungrp.loc[0,['Latitude']].values)
neighborhood_longitude =  np.float(Nebr_ungrp.loc[0,['Longitude']].values)
```

Now, let's get the top 100 venues that are in Harbour Square Park within a radius of 500 meters.

First, let's create the GET request URL. Name the URL url.

```
In [23]: LIMIT = 100 # limit of number of venues returned by Foursquare API

         radius = 500 # define radius

         # create URL
         url = 'https://api.foursquare.com/v2/venues/explore?&client_id={}&client_secret={}&v={}&ll={},{}&radius={}&l
         imit={}'.format(
             CLIENT_ID,
             CLIENT_SECRET,
             VERSION,
             neighborhood_latitude,
             neighborhood_longitude,
             radius,
             LIMIT)
```

```
In [24]:   results = requests.get(url).json()
           results
```

```
Out[24]: {'meta': {'code': 200, 'requestId': '5d34a1ff6c0aa50023fc3639'},
          'response': {'suggestedFilters': {'header': 'Tap to show:',
            'filters': [{'name': 'Open now', 'key': 'openNow'}]},
           'headerLocation': 'Harbourfront',
           'headerFullLocation': 'Harbourfront, Toronto',
           'headerLocationGranularity': 'neighborhood',
           'totalResults': 123,
           'suggestedBounds': {'ne': {'lat': 43.6445801045, 'lng': -79.37394296546611},
            'sw': {'lat': 43.635580095499996, 'lng': -79.38635603453389}},
           'groups': [{'type': 'Recommended Places',
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             'items': [{'reasons': {'count': 0,
                'items': [{'summary': 'This spot is popular',
                  'type': 'general',
                  'reasonName': 'globalInteractionReason'}]},
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                'location': {'address': '25 Queens Quay West',
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                 'lng': -79.37839547902978,
                 'labeledLatLngs': [{'label': 'display',
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                  'shortName': 'Park',
                  'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/parks_outdoors/park_',
                   'suffix': '.png'},
                  'primary': True}],
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                 'state': 'ON',
                 'country': 'Canada',
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                  'pluralName': 'Lakes',
                  'shortName': 'Lake',
                  'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/parks_outdoors/lake_',
                   'suffix': '.png'},
                  'primary': True}],
                'photos': {'count': 0, 'groups': []}},
               'referralId': 'e-0-4d07f8041657a35d19272ae7-1'},
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                 'country': 'Canada',
                 'formattedAddress': ['Toronto ON', 'Canada']},
```

```
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          'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/parks_outdoors/neighborhood_',
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          'primary': True}],
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          'reasonName': 'globalInteractionReason'}]},
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         'lat': 43.63989909345207,
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           'lng': -79.380196784021}],
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         'state': 'ON',
         'country': 'Canada',
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          'Canada']},
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          'shortName': 'Bakery',
          'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/bakery_',
           'suffix': '.png'},
          'primary': True}],
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         'city': 'Toronto',
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          'Canada']},
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```

```
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```

```
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```
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             'state': 'ON',
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              'Toronto ON M5J 0A8',
```

```
In [25]:  # function that extracts the category of the venue
          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']
```

Now we are ready to clean the json and structure it into a *pandas* dataframe.

```
In [26]:  venues = results['response']['groups'][0]['items']

          nearby_venues = json_normalize(venues) # flatten JSON

          # filter columns
          filtered_columns = ['venue.name', 'venue.categories', 'venue.location.lat', 'venue.location.lng']
          nearby_venues =nearby_venues.loc[:, filtered_columns]

          # filter the category for each row
          nearby_venues['venue.categories'] = nearby_venues.apply(get_category_type, axis=1)

          # clean columns
          nearby_venues.columns = [col.split(".")[-1] for col in nearby_venues.columns]

          nearby_venues.head()
```

Out[26]:

	name	categories	lat	lng
0	Harbour Square Park	Park	43.639253	-79.378395
1	Lake Ontario	Lake	43.638945	-79.379665
2	Harbourfront	Neighborhood	43.639526	-79.380688
3	BeaverTails	Bakery	43.639899	-79.380197
4	Miku	Japanese Restaurant	43.641374	-79.377531

And how many venues were returned by Foursquare?

```
In [27]:  print('{} venues were returned by Foursquare.'.format(nearby_venues.shape[0]))

          100 venues were returned by Foursquare.
```

2. Explore Neighborhoods in Toronto

```
In [28]:  def getNearbyVenues(names, latitudes, longitudes, radius=500):

              venues_list=[]
              for name, lat, lng in zip(names, latitudes, longitudes):
                  print(name)

                  # create the API request URL
                  url = 'https://api.foursquare.com/v2/venues/explore?&client_id={}&client_secret={}&v={}&ll={},{}&rad
          ius={}&limit={}'.format(
                      CLIENT_ID,
                      CLIENT_SECRET,
                      VERSION,
                      lat,
                      lng,
                      radius,
                      LIMIT)

                  # make the GET request
                  results = requests.get(url).json()["response"]['groups'][0]['items']

                  # return only relevant information for each nearby venue
                  venues_list.append([(
                      name,
                      lat,
                      lng,
                      v['venue']['name'],
                      v['venue']['location']['lat'],
                      v['venue']['location']['lng'],
                      v['venue']['categories'][0]['name']) for v in results])

              nearby_venues = pd.DataFrame([item for venue_list in venues_list for item in venue_list])
              nearby_venues.columns = ['Neighborhood',
                            'Neighborhood Latitude',
                            'Neighborhood Longitude',
                            'Venue',
                            'Venue Latitude',
                            'Venue Longitude',
                            'Venue Category']

              return(nearby_venues)
```

```
In [29]: toronto_venues = getNearbyVenues(names=Nebr_ungrp['Neighborhood'],
                                           latitudes=Nebr_ungrp['Latitude'],
                                           longitudes=Nebr_ungrp['Longitude']
                                           )
```

Harbourfront
Regent Park
Ryerson

Garden District

St. James Town
The Beaches
Berczy Park
Christie

Adelaide

King

Richmond

Dovercourt Village
Dufferin

Harbourfront East

Toronto Islands
Union Station
Little Portugal
Trinity
The Danforth West

Riverdale
Design Exchange
Toronto Dominion Centre
Brockton

Exhibition Place
Parkdale Village
The Beaches West

India Bazaar
Commerce Court
Lawrence Park
Roselawn

Davisville North

Forest Hill North
High Park
The Annex
Yorkville
Parkdale
Roncesvalles
Davisville

Harbord

University of Toronto
Runnymede
Swansea
Moore Park
Summerhill East

Chinatown
Grange Park
Kensington Market
Deer Park
Rathnelly
South Hill
Summerhill West

CN Tower
Bathurst Quay

Harbourfront West

King and Spadina
South Niagara
Rosedale
Cabbagetown
St. James Town
First Canadian Place
Underground city
Church and Wellesley

In [30]:
```
print(toronto_venues.shape)
toronto_venues.head()
```

(3418, 7)

Out[30]:

	Neighborhood	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
0	Harbourfront	43.64008	-79.38015	Harbour Square Park	43.639253	-79.378395	Park
1	Harbourfront	43.64008	-79.38015	Lake Ontario	43.638945	-79.379665	Lake
2	Harbourfront	43.64008	-79.38015	Harbourfront	43.639526	-79.380688	Neighborhood
3	Harbourfront	43.64008	-79.38015	BeaverTails	43.639899	-79.380197	Bakery
4	Harbourfront	43.64008	-79.38015	Miku	43.641374	-79.377531	Japanese Restaurant

In [31]:
```python
toronto_venues.groupby('Neighborhood').count()
```

Out[31]:

Neighborhood	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
Adelaide	96	96	96	96	96	96
Bathurst Quay	24	24	24	24	24	24
Berczy Park	100	100	100	100	100	100
Brockton	19	19	19	19	19	19
CN Tower	87	87	87	87	87	87
Cabbagetown	50	50	50	50	50	50
Chinatown	100	100	100	100	100	100
Christie	60	60	60	60	60	60
Church and Wellesley	91	91	91	91	91	91
Commerce Court	100	100	100	100	100	100
Davisville	34	34	34	34	34	34
Davisville North	34	34	34	34	34	34
Deer Park	55	55	55	55	55	55
Design Exchange	100	100	100	100	100	100
Dovercourt Village	8	8	8	8	8	8
Dufferin	45	45	45	45	45	45
Exhibition Place	34	34	34	34	34	34
First Canadian Place	100	100	100	100	100	100
Forest Hill North	4	4	4	4	4	4
Garden District	85	85	85	85	85	85
Grange Park	100	100	100	100	100	100
Harbord	36	36	36	36	36	36
Harbourfront	100	100	100	100	100	100
Harbourfront East	100	100	100	100	100	100
Harbourfront West	100	100	100	100	100	100
High Park	13	13	13	13	13	13
India Bazaar	38	38	38	38	38	38
Kensington Market	100	100	100	100	100	100
King	100	100	100	100	100	100
King and Spadina	100	100	100	100	100	100
Lawrence Park	51	51	51	51	51	51
Little Portugal	37	37	37	37	37	37
Moore Park	4	4	4	4	4	4
Parkdale	43	43	43	43	43	43
Parkdale Village	43	43	43	43	43	43
Rathnelly	18	18	18	18	18	18
Regent Park	22	22	22	22	22	22
Richmond	92	92	92	92	92	92
Riverdale	29	29	29	29	29	29
Roncesvalles	43	43	43	43	43	43
Rosedale	5	5	5	5	5	5
Roselawn	62	62	62	62	62	62
Runnymede	24	24	24	24	24	24
Ryerson	100	100	100	100	100	100

	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
Neighborhood						
South Hill	29	29	29	29	29	29
South Niagara	57	57	57	57	57	57
St. James Town	66	66	66	66	66	66
Summerhill East	44	44	44	44	44	44
Summerhill West	44	44	44	44	44	44
Swansea	4	4	4	4	4	4
The Annex	46	46	46	46	46	46
The Beaches	43	43	43	43	43	43
The Beaches West	43	43	43	43	43	43
The Danforth West	27	27	27	27	27	27
Toronto Dominion Centre	100	100	100	100	100	100
Toronto Islands	6	6	6	6	6	6
Trinity	100	100	100	100	100	100

In [32]:
```python
print('There are {} uniques categories.'.format(len(toronto_venues['Venue Category'].unique())))
```

There are 286 uniques categories.

3. Analyze Each Neighborhood

In [33]:
```python
# one hot encoding
toronto_onehot = pd.get_dummies(toronto_venues[['Venue Category']], prefix="", prefix_sep="")

# add neighborhood column back to dataframe
toronto_onehot['Neighborhood'] = toronto_venues['Neighborhood']

# move neighborhood column to the first column
fixed_columns = [toronto_onehot.columns[-1]] + list(toronto_onehot.columns[:-1])
toronto_onehot = toronto_onehot[fixed_columns]

toronto_onehot.head()
```

Out[33]:

	Zoo	Accessories Store	Afghan Restaurant	African Restaurant	Airport Service	American Restaurant	Amphitheater	Animal Shelter	Antique Shop	Aquarium	Art Gallery	Art Museum	Arts & Crafts Store	A E
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0

In [34]:
```python
toronto_onehot.shape
```

Out[34]: (3418, 286)

In [35]:
```python
toronto_grouped = toronto_onehot.groupby('Neighborhood').mean().reset_index()
toronto_grouped
```

Out[35]:

	Neighborhood	Zoo	Accessories Store	Afghan Restaurant	African Restaurant	Airport Service	American Restaurant	Amphitheater	Animal Shelter	Antique Shop	Aquarium	A G
0	Adelaide	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
1	Bathurst Quay	0.000000	0.000000	0.000000	0.000000	0.041667	0.000000	0.000000	0.000000	0.000000	0.000000	0
2	Berczy Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.010000	0.000000	0.000000	0.000000	0.000000	0
3	Brockton	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
4	CN Tower	0.000000	0.000000	0.000000	0.000000	0.000000	0.011494	0.000000	0.000000	0.000000	0.045977	0
5	Cabbagetown	0.000000	0.000000	0.000000	0.000000	0.000000	0.020000	0.000000	0.000000	0.000000	0.000000	0
6	Chinatown	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
7	Christie	0.000000	0.000000	0.000000	0.000000	0.000000	0.016667	0.000000	0.000000	0.000000	0.000000	0
8	Church and Wellesley	0.000000	0.000000	0.010989	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
9	Commerce Court	0.000000	0.000000	0.000000	0.000000	0.000000	0.040000	0.000000	0.000000	0.000000	0.000000	0
10	Davisville	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
11	Davisville North	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
12	Deer Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.018182	0.000000	0.000000	0.000000	0.000000	0
13	Design Exchange	0.000000	0.000000	0.000000	0.000000	0.000000	0.040000	0.000000	0.000000	0.000000	0.000000	0
14	Dovercourt Village	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
15	Dufferin	0.000000	0.000000	0.000000	0.022222	0.000000	0.000000	0.000000	0.000000	0.022222	0.000000	0
16	Exhibition Place	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
17	First Canadian Place	0.000000	0.000000	0.000000	0.000000	0.000000	0.030000	0.000000	0.000000	0.000000	0.000000	0
18	Forest Hill North	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
19	Garden District	0.000000	0.000000	0.000000	0.000000	0.000000	0.011765	0.000000	0.000000	0.000000	0.000000	A
20	Grange Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.010000	0.000000	0.000000	0.000000	0.000000	0
21	Harbord	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
22	Harbourfront	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
23	Harbourfront East	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
24	Harbourfront West	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
25	High Park	0.076923	0.000000	0.000000	0.000000	0.000000	0.000000	0.076923	0.000000	0.000000	0.000000	0
26	India Bazaar	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
27	Kensington Market	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
28	King	0.000000	0.000000	0.000000	0.000000	0.000000	0.040000	0.000000	0.000000	0.000000	0.000000	0
29	King and Spadina	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
30	Lawrence Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
31	Little Portugal	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
32	Moore Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
33	Parkdale	0.000000	0.023256	0.000000	0.000000	0.000000	0.023256	0.000000	0.000000	0.000000	0.000000	A

	Neighborhood	Zoo	Accessories Store	Afghan Restaurant	African Restaurant	Airport Service	American Restaurant	Amphitheater	Animal Shelter	Antique Shop	Aquarium	A... G...
34	Parkdale Village	0.000000	0.023256	0.000000	0.000000	0.000000	0.023256	0.000000	0.000000	0.000000	0.000000	0
35	Rathnelly	0.000000	0.000000	0.000000	0.000000	0.000000	0.055556	0.000000	0.000000	0.000000	0.000000	0
36	Regent Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.045455	0.000000	0.000000	0
37	Richmond	0.000000	0.000000	0.000000	0.000000	0.000000	0.010870	0.000000	0.000000	0.000000	0.000000	0
38	Riverdale	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
39	Roncesvalles	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
40	Rosedale	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
41	Roselawn	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
42	Runnymede	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
43	Ryerson	0.000000	0.000000	0.000000	0.000000	0.000000	0.010000	0.000000	0.000000	0.000000	0.000000	0
44	South Hill	0.000000	0.000000	0.000000	0.000000	0.000000	0.034483	0.000000	0.000000	0.000000	0.000000	0
45	South Niagara	0.000000	0.000000	0.000000	0.000000	0.000000	0.017544	0.000000	0.000000	0.000000	0.000000	0
46	St. James Town	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
47	Summerhill East	0.000000	0.000000	0.000000	0.000000	0.000000	0.022727	0.000000	0.000000	0.000000	0.000000	0
48	Summerhill West	0.000000	0.000000	0.000000	0.000000	0.000000	0.022727	0.000000	0.000000	0.000000	0.000000	0
49	Swansea	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
50	The Annex	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
51	The Beaches	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
52	The Beaches West	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
53	The Danforth West	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
54	Toronto Dominion Centre	0.000000	0.000000	0.000000	0.000000	0.000000	0.050000	0.000000	0.000000	0.000000	0.000000	0
55	Toronto Islands	0.000000	0.000000	0.000000	0.000000	0.000000	0.166667	0.000000	0.000000	0.000000	0.000000	0
56	Trinity	0.000000	0.010000	0.000000	0.000000	0.000000	0.020000	0.000000	0.000000	0.000000	0.000000	0

```
In [36]: toronto_grouped.shape
```

```
Out[36]: (61, 286)
```

Lets Check top Venues

```
In [37]: Top_venues = 5

         for hood in toronto_grouped['Neighborhood']:
             print("----"+hood+"----")
             temp = toronto_grouped[toronto_grouped['Neighborhood'] == hood].T.reset_index()
             temp.columns = ['venue','freq']
             temp = temp.iloc[1:]
             temp['freq'] = temp['freq'].astype(float)
             temp = temp.round({'freq': 2})
             print(temp.sort_values('freq', ascending=False).reset_index(drop=True).head(Top_venues))
             print('\n')
```

```
        ----Adelaide
        ----
                        venue  freq
        0         Coffee Shop  0.11
        1                Café  0.04
        2  Italian Restaurant  0.04
        3          Restaurant  0.04
        4       Grocery Store  0.03


        ----Bathurst Quay
        ----
                       venue  freq
        0        Coffee Shop  0.21
        1               Café  0.12
        2               Park  0.08
        3   Ramen Restaurant  0.04
        4             Tunnel  0.04


        ----Berczy Park----
                 venue  freq
        0  Coffee Shop  0.09
        1         Café  0.06
        2   Restaurant  0.05
        3        Hotel  0.05
        4       Bakery  0.04


        ----Brockton
        ----
                            venue  freq
        0                     Bar  0.16
        1                    Park  0.11
        2  Vietnamese Restaurant  0.11
        3      Korean Restaurant  0.05
        4  Portuguese Restaurant  0.05


        ----CN Tower----
                        venue  freq
        0         Coffee Shop  0.09
        1               Hotel  0.09
        2         Pizza Place  0.06
        3  Italian Restaurant  0.05
        4            Aquarium  0.05


        ----Cabbagetown----
                 venue  freq
        0   Restaurant  0.08
        1         Café  0.06
        2  Coffee Shop  0.06
        3  Pizza Place  0.04
        4       Bakery  0.04


        ----Chinatown----
                                  venue  freq
        0                          Café  0.06
        1  Vegetarian / Vegan Restaurant  0.05
        2            Chinese Restaurant  0.05
        3            Mexican Restaurant  0.04
        4                           Bar  0.04


        ----Christie
        ----
                        venue  freq
        0   Korean Restaurant  0.25
        1         Coffee Shop  0.05
        2   Indian Restaurant  0.05
        3      Ice Cream Shop  0.03
        4       Sandwich Place  0.03


        ----Church and Wellesley----
                         venue  freq
        0          Coffee Shop  0.10
        1              Gay Bar  0.05
        2  Japanese Restaurant  0.05
```

```
3       Sushi Restaurant  0.04
4                   Café  0.03


----Commerce Court----
                 venue  freq
0           Coffee Shop  0.12
1                  Café  0.06
2                 Hotel  0.06
3   American Restaurant  0.04
4            Restaurant  0.04


----Davisville
----
                 venue  freq
0          Dessert Shop  0.09
1           Coffee Shop  0.09
2        Sandwich Place  0.09
3           Pizza Place  0.06
4     Italian Restaurant  0.06


----Davisville North
----
                 venue  freq
0          Dessert Shop  0.09
1           Coffee Shop  0.09
2        Sandwich Place  0.09
3           Pizza Place  0.06
4     Italian Restaurant  0.06


----Deer Park----
                 venue  freq
0           Coffee Shop  0.11
1    Italian Restaurant  0.07
2      Sushi Restaurant  0.05
3                   Pub  0.05
4                  Café  0.05


----Design Exchange----
                 venue  freq
0           Coffee Shop  0.13
1                  Café  0.07
2                 Hotel  0.05
3            Restaurant  0.04
4   American Restaurant  0.04


----Dovercourt Village----
          venue  freq
0          Café  0.25
1          Park  0.12
2           Bar  0.12
3    Restaurant  0.12
4   Pizza Place  0.12


----Dufferin
----
          venue  freq
0           Bar  0.11
1        Bakery  0.09
2   Coffee Shop  0.07
3          Café  0.07
4      Beer Bar  0.04


----Exhibition Place----
                 venue  freq
0            Theme Park  0.09
1        Soccer Stadium  0.09
2                 Plaza  0.06
3                Lounge  0.06
4    Athletics & Sports  0.06


----First Canadian Place----
          venue  freq
```

```
0    Coffee Shop  0.10
1           Café  0.07
2          Hotel  0.06
3     Restaurant  0.04
4            Gym  0.03
```

```
----Forest Hill North----
                      venue  freq
0                      Bank  0.25
1                      Park  0.25
2                Playground  0.25
3  Mediterranean Restaurant  0.25
4   North Indian Restaurant  0.00
```

```
----Garden District
----
                   venue  freq
0         Clothing Store  0.08
1            Coffee Shop  0.08
2             Restaurant  0.05
3  Fast Food Restaurant  0.05
4         Cosmetics Shop  0.05
```

```
----Grange Park----
                 venue  freq
0          Coffee Shop  0.07
1                 Café  0.07
2  Japanese Restaurant  0.04
3   Chinese Restaurant  0.03
4          Art Gallery  0.03
```

```
----Harbord
----
                 venue  freq
0                 Café  0.11
1           Restaurant  0.08
2  Japanese Restaurant  0.06
3            Bookstore  0.06
4               Bakery  0.06
```

```
----Harbourfront----
         venue  freq
0  Coffee Shop  0.15
1         Café  0.04
2   Restaurant  0.04
3        Hotel  0.04
4  Pizza Place  0.03
```

```
----Harbourfront East
----
         venue  freq
0  Coffee Shop  0.15
1         Café  0.04
2   Restaurant  0.04
3        Hotel  0.04
4  Pizza Place  0.03
```

```
----Harbourfront West
----
         venue  freq
0  Coffee Shop  0.15
1         Café  0.04
2   Restaurant  0.04
3        Hotel  0.04
4  Pizza Place  0.03
```

```
----High Park----
             venue  freq
0  Baseball Field  0.15
1         Dog Run  0.15
2             Zoo  0.08
3  Scenic Lookout  0.08
4            Park  0.08
```

```
        ----India Bazaar----
                      venue  freq
0   Indian Restaurant  0.21
1                Café  0.08
2       Grocery Store  0.05
3    Halal Restaurant  0.05
4   Convenience Store  0.03


        ----Kensington Market----
                                  venue  freq
0                                  Café  0.09
1   Vegetarian / Vegan Restaurant  0.07
2                                   Bar  0.06
3                Mexican Restaurant  0.04
4             Vietnamese Restaurant  0.04


        ----King
        ----
                      venue  freq
0         Coffee Shop  0.08
1          Restaurant  0.07
2               Hotel  0.06
3                Café  0.05
4   Italian Restaurant  0.05


        ----King and Spadina----
                      venue  freq
0         Coffee Shop  0.07
1   Italian Restaurant  0.05
2          Restaurant  0.05
3      Sandwich Place  0.03
4            Beer Bar  0.03


        ----Lawrence Park----
                      venue  freq
0              Bakery  0.08
1         Coffee Shop  0.08
2     Sushi Restaurant  0.06
3   Italian Restaurant  0.06
4     Asian Restaurant  0.04


        ----Little Portugal----
               venue  freq
0                 Bar  0.14
1       Coffee Shop  0.08
2              Café  0.08
3      Cocktail Bar  0.05
4         Restaurant  0.05


        ----Moore Park----
               venue  freq
0                 Gym  0.25
1        Playground  0.25
2              Park  0.25
3       Tennis Court  0.25
4       Noodle House  0.00


        ----Parkdale----
                      venue  freq
0   Tibetan Restaurant  0.07
1    Indian Restaurant  0.05
2               Diner  0.05
3          Restaurant  0.05
4                 Bar  0.05


        ----Parkdale Village----
                      venue  freq
0   Tibetan Restaurant  0.07
1    Indian Restaurant  0.05
2               Diner  0.05
3          Restaurant  0.05
```

```
4                   Bar  0.05


----Rathnelly----
                 venue  freq
0                 Park  0.11
1   Italian Restaurant  0.11
2   Mexican Restaurant  0.11
3    French Restaurant  0.11
4          Coffee Shop  0.06


----Regent Park----
               venue  freq
0        Coffee Shop  0.14
1    Thai Restaurant  0.09
2               Pool  0.05
3          Pet Store  0.05
4      Moving Target  0.05


----Richmond
----
                 venue  freq
0          Coffee Shop  0.10
1                Hotel  0.05
2           Restaurant  0.04
3       Clothing Store  0.03
4         Cocktail Bar  0.03


----Riverdale----
                    venue  freq
0   Vietnamese Restaurant  0.17
1                  Bakery  0.10
2      Light Rail Station  0.07
3      Chinese Restaurant  0.07
4                     Bar  0.07


----Roncesvalles----
             venue  freq
0   Breakfast Spot  0.05
1         Gift Shop  0.05
2     Gourmet Shop  0.05
3             Café  0.05
4      Coffee Shop  0.05


----Rosedale----
         venue  freq
0         Park   0.4
1   Bike Trail   0.2
2   Playground   0.2
3     Building   0.2
4          Zoo   0.0


----Roselawn
----
                   venue  freq
0            Coffee Shop  0.10
1     Italian Restaurant  0.05
2   Fast Food Restaurant  0.05
3            Yoga Studio  0.03
4     Mexican Restaurant  0.03


----Runnymede----
                  venue  freq
0           Pizza Place  0.12
1   Rental Car Location  0.08
2           Coffee Shop  0.08
3              Pharmacy  0.04
4   Fried Chicken Joint  0.04


----Ryerson
----
                 venue  freq
0          Coffee Shop  0.11
```

```
1          Clothing Store  0.07
2          Cosmetics Shop  0.04
3  Fast Food Restaurant  0.03
4                   Café  0.03



----South Hill----
              venue  freq
0       Coffee Shop  0.10
1    Sandwich Place  0.10
2              Café  0.07
3       Pizza Place  0.07
4    History Museum  0.07



----South Niagara----
            venue  freq
0   Historic Site  0.05
1      Restaurant  0.05
2            Park  0.05
3          Bakery  0.05
4     Coffee Shop  0.05



----St. James Town----
             venue  freq
0      Coffee Shop  0.15
1      Pizza Place  0.09
2             Café  0.06
3    Grocery Store  0.06
4         Pharmacy  0.03



----Summerhill East
----
                 venue  freq
0   Italian Restaurant  0.07
1                  Spa  0.05
2          Pizza Place  0.05
3     Sushi Restaurant  0.05
4          Coffee Shop  0.05



----Summerhill West
----
                 venue  freq
0   Italian Restaurant  0.07
1                  Spa  0.05
2          Pizza Place  0.05
3     Sushi Restaurant  0.05
4          Coffee Shop  0.05



----Swansea----
                        venue  freq
0              Skating Rink  0.25
1                      Park  0.25
2              Dance Studio  0.25
3            Pilates Studio  0.25
4  North Indian Restaurant  0.00



----The Annex----
                venue  freq
0         Pizza Place  0.11
1         Coffee Shop  0.09
2                Park  0.04
3              Bistro  0.04
4    Indian Restaurant  0.04



----The Beaches----
                  venue  freq
0                 Beach  0.07
1   Japanese Restaurant  0.05
2                  Park  0.05
3      Thai Restaurant  0.05
4              Tea Room  0.05



----The Beaches West
```

```
----
                    venue  freq
0                   Beach  0.07
1     Japanese Restaurant  0.05
2                    Park  0.05
3         Thai Restaurant  0.05
4                Tea Room  0.05


----The Danforth West
----
                    venue  freq
0           Grocery Store  0.11
1                Pharmacy  0.07
2                Bus Line  0.07
3             Coffee Shop  0.07
4    Caribbean Restaurant  0.04


----Toronto Dominion Centre----
                    venue  freq
0             Coffee Shop  0.15
1                    Café  0.08
2     American Restaurant  0.05
3                   Hotel  0.05
4              Restaurant  0.04


----Toronto Islands----
                    venue  freq
0             Beer Garden  0.17
1                    Farm  0.17
2     American Restaurant  0.17
3              Playground  0.17
4                   Beach  0.17


----Trinity----
              venue  freq
0    Clothing Store  0.07
1       Coffee Shop  0.06
2             Plaza  0.03
3        Restaurant  0.03
4          Tea Room  0.03


----Underground city----
                    venue  freq
0           Breakfast Spot  0.07
1                Pet Store  0.07
2     Outdoor Supply Store  0.07
3                     Bank  0.07
4          Bubble Tea Shop  0.07


----Union Station----
            venue  freq
0     Coffee Shop  0.16
1            Café  0.08
2           Hotel  0.05
3      Restaurant  0.05
4    Deli / Bodega  0.05


----University of Toronto----
                    venue  freq
0                    Café  0.14
1     Japanese Restaurant  0.07
2               Bookstore  0.07
3                    Park  0.07
4             College Gym  0.04


----Yorkville----
                    venue  freq
0                    Café  0.06
1              Restaurant  0.05
2             Coffee Shop  0.05
3                Boutique  0.05
4     Italian Restaurant  0.04
```

In [38]:
```python
def return_most_common_venues(row, Top_venues):
    row_categories = row.iloc[1:]
    row_categories_sorted = row_categories.sort_values(ascending=False)

    return row_categories_sorted.index.values[0:Top_venues]
```

```
In [60]: Top_venues = 10

         indicators = ['st', 'nd', 'rd']

         # create columns according to number of top venues
         columns = ['Neighborhood']
         for ind in np.arange(Top_venues):
             try:
                 columns.append('{}{} Popular Venues'.format(ind+1, indicators[ind]))
             except:
                 columns.append('{}th Popular Venues'.format(ind+1))

         # create a new dataframe
         neighborhoods_venues_sorted = pd.DataFrame(columns=columns)
         neighborhoods_venues_sorted['Neighborhood'] = toronto_grouped['Neighborhood']

         for ind in np.arange(toronto_grouped.shape[0]):
             neighborhoods_venues_sorted.iloc[ind, 1:] = return_most_common_venues(toronto_grouped.iloc[ind, :], Top_
         venues)

         neighborhoods_venues_sorted
```

Out[60]:

	Neighborhood	1st Popular Venues	2nd Popular Venues	3rd Popular Venues	4th Popular Venues	5th Popular Venues	6th Popular Venues	7th Popular Venues	8th Popular Venues	9th Popular Venues	10 Ve
0	Adelaide	Coffee Shop	Café	Restaurant	Italian Restaurant	Grocery Store	Pizza Place	Cocktail Bar	Diner	Cosmetics Shop	Ba
1	Bathurst Quay	Coffee Shop	Café	Park	Garden	Pub	Grocery Store	Ramen Restaurant	Japanese Restaurant	Sculpture Garden	Tu
2	Berczy Park	Coffee Shop	Café	Restaurant	Hotel	Bakery	Beer Bar	Japanese Restaurant	Gym	Gastropub	Se Re
3	Brockton	Bar	Park	Vietnamese Restaurant	South American Restaurant	Gastropub	Bakery	Korean Restaurant	Dive Bar	Grocery Store	Ca
4	CN Tower	Hotel	Coffee Shop	Pizza Place	Italian Restaurant	Aquarium	Gym	Scenic Lookout	Baseball Stadium	Bar	Co
5	Cabbagetown	Restaurant	Café	Coffee Shop	Pub	Bakery	Gastropub	Diner	Japanese Restaurant	Italian Restaurant	Piz
6	Chinatown	Café	Vegetarian / Vegan Restaurant	Chinese Restaurant	Bar	Vietnamese Restaurant	Dumpling Restaurant	Mexican Restaurant	Coffee Shop	Bakery	De
7	Christie	Korean Restaurant	Coffee Shop	Indian Restaurant	Cocktail Bar	Café	Japanese Restaurant	Karaoke Bar	Dessert Shop	Sandwich Place	Gr
8	Church and Wellesley	Coffee Shop	Japanese Restaurant	Gay Bar	Sushi Restaurant	Café	Restaurant	Burger Joint	Gym	Men's Store	Me Re
9	Commerce Court	Coffee Shop	Hotel	Café	Restaurant	American Restaurant	Steakhouse	Japanese Restaurant	Italian Restaurant	Bakery	Ga
10	Davisville	Sandwich Place	Dessert Shop	Coffee Shop	Sushi Restaurant	Pizza Place	Thai Restaurant	Café	Italian Restaurant	Fried Chicken Joint	Se Re
11	Davisville North	Sandwich Place	Dessert Shop	Coffee Shop	Sushi Restaurant	Pizza Place	Thai Restaurant	Café	Italian Restaurant	Fried Chicken Joint	Se Re
12	Deer Park	Coffee Shop	Italian Restaurant	Café	Sushi Restaurant	Pub	Sandwich Place	Bagel Shop	Restaurant	Gym	Gr
13	Design Exchange	Coffee Shop	Café	Hotel	Restaurant	American Restaurant	Deli / Bodega	Bakery	Gastropub	Steakhouse	Gy
14	Dovercourt Village	Café	Restaurant	Pizza Place	Bar	Park	Bus Line	Coffee Shop	Falafel Restaurant	Electronics Store	Eth Re
15	Dufferin	Bar	Bakery	Coffee Shop	Café	Cocktail Bar	Sandwich Place	Clothing Store	Beer Bar	Beer Store	Me Re
16	Exhibition Place	Soccer Stadium	Theme Park	Plaza	Lounge	Athletics & Sports	Coffee Shop	Arts & Crafts Store	Café	Bakery	Ba

	Neighborhood	1st Popular Venues	2nd Popular Venues	3rd Popular Venues	4th Popular Venues	5th Popular Venues	6th Popular Venues	7th Popular Venues	8th Popular Venues	9th Popular Venues	10t Ve
17	First Canadian Place	Coffee Shop	Café	Hotel	Restaurant	Steakhouse	Burger Joint	Bar	Seafood Restaurant	Asian Restaurant	Ga
18	Forest Hill North	Playground	Bank	Park	Mediterranean Restaurant	Yoga Studio	Farm	Electronics Store	Ethiopian Restaurant	Event Space	Fa Re
19	Garden District	Clothing Store	Coffee Shop	Cosmetics Shop	Fast Food Restaurant	Restaurant	Hotel	Lingerie Store	Middle Eastern Restaurant	Tea Room	Th
20	Grange Park	Coffee Shop	Café	Japanese Restaurant	Chinese Restaurant	Art Gallery	Arts & Crafts Store	Record Shop	Sporting Goods Shop	Tea Room	Sa Pla
21	Harbord	Café	Restaurant	Coffee Shop	Japanese Restaurant	Bookstore	Bakery	Museum	Bar	Beer Store	Fre Re
22	Harbourfront	Coffee Shop	Café	Restaurant	Hotel	Pizza Place	Italian Restaurant	Steakhouse	History Museum	Sporting Goods Shop	Pa
23	Harbourfront East	Coffee Shop	Café	Restaurant	Hotel	Pizza Place	Italian Restaurant	Steakhouse	History Museum	Sporting Goods Shop	Pa
24	Harbourfront West	Coffee Shop	Café	Restaurant	Hotel	Pizza Place	Italian Restaurant	Steakhouse	History Museum	Sporting Goods Shop	Pa
25	High Park	Baseball Field	Dog Run	Zoo	Garden	Other Great Outdoors	Park	Scenic Lookout	Skating Rink	Café	Po
26	India Bazaar	Indian Restaurant	Café	Halal Restaurant	Grocery Store	Snack Place	Pakistani Restaurant	Sandwich Place	Restaurant	Egyptian Restaurant	Dis Sto
27	Kensington Market	Café	Vegetarian / Vegan Restaurant	Bar	Bakery	Vietnamese Restaurant	Mexican Restaurant	Coffee Shop	Donut Shop	Burger Joint	Du Re
28	King	Coffee Shop	Restaurant	Hotel	Café	Italian Restaurant	Gastropub	American Restaurant	Gym	Japanese Restaurant	De
29	King and Spadina	Coffee Shop	Restaurant	Italian Restaurant	Hotel	French Restaurant	Sandwich Place	Beer Bar	Spa	Sushi Restaurant	Ste
30	Lawrence Park	Bakery	Coffee Shop	Italian Restaurant	Sushi Restaurant	Bank	Pub	Cosmetics Shop	Tea Room	Burger Joint	As Re
31	Little Portugal	Bar	Coffee Shop	Café	Restaurant	Cocktail Bar	Bakery	Thai Restaurant	Portuguese Restaurant	French Restaurant	Ko Re
32	Moore Park	Playground	Gym	Tennis Court	Park	Yoga Studio	Event Space	Eastern European Restaurant	Egyptian Restaurant	Electronics Store	Eth Re
33	Parkdale	Tibetan Restaurant	Bar	Café	Pharmacy	Diner	Restaurant	Indian Restaurant	Liquor Store	North Indian Restaurant	Do
34	Parkdale Village	Tibetan Restaurant	Bar	Café	Pharmacy	Diner	Restaurant	Indian Restaurant	Liquor Store	North Indian Restaurant	Do
35	Rathnelly	Mexican Restaurant	French Restaurant	Italian Restaurant	Park	Pizza Place	Mediterranean Restaurant	Electronics Store	BBQ Joint	Liquor Store	Co
36	Regent Park	Coffee Shop	Thai Restaurant	Pharmacy	Grocery Store	Food Truck	Moving Target	Beer Store	Electronics Store	Sushi Restaurant	Re
37	Richmond	Coffee Shop	Hotel	Restaurant	Diner	Gastropub	Cosmetics Shop	Cocktail Bar	Clothing Store	Italian Restaurant	Piz
38	Riverdale	Vietnamese Restaurant	Bakery	Chinese Restaurant	Bar	Light Rail Station	Baseball Field	Fast Food Restaurant	Asian Restaurant	Gym / Fitness Center	Tra

	Neighborhood	1st Popular Venues	2nd Popular Venues	3rd Popular Venues	4th Popular Venues	5th Popular Venues	6th Popular Venues	7th Popular Venues	8th Popular Venues	9th Popular Venues	10 Ve
39	Roncesvalles	Bookstore	Gourmet Shop	Breakfast Spot	Restaurant	Coffee Shop	Gift Shop	Café	Gastropub	Bank	Mo
40	Rosedale	Park	Bike Trail	Playground	Building	Farm	Egyptian Restaurant	Electronics Store	Ethiopian Restaurant	Event Space	Fa Re
41	Roselawn	Coffee Shop	Italian Restaurant	Fast Food Restaurant	Yoga Studio	Sporting Goods Shop	Gym	Mexican Restaurant	Movie Theater	Diner	Re
42	Runnymede	Pizza Place	Rental Car Location	Coffee Shop	Pharmacy	Grocery Store	Café	Fried Chicken Joint	Sandwich Place	Bar	Th Re
43	Ryerson	Coffee Shop	Clothing Store	Cosmetics Shop	Fast Food Restaurant	Café	Middle Eastern Restaurant	Diner	Tea Room	Bookstore	Pla
44	South Hill	Coffee Shop	Sandwich Place	History Museum	Pizza Place	Café	Jewish Restaurant	Cosmetics Shop	Park	Pub	Ch
45	South Niagara	Park	Coffee Shop	Historic Site	Restaurant	Bakery	Bar	Brewery	Asian Restaurant	Spa	Ita Re
46	St. James Town	Coffee Shop	Pizza Place	Grocery Store	Café	Beer Store	Bakery	Bank	Restaurant	Library	Bro Sp
47	Summerhill East	Italian Restaurant	Café	Sushi Restaurant	Pizza Place	Coffee Shop	Spa	Bistro	Bar	Juice Bar	Fu Ho
48	Summerhill West	Italian Restaurant	Café	Sushi Restaurant	Pizza Place	Coffee Shop	Spa	Bistro	Bar	Juice Bar	Fu Ho
49	Swansea	Skating Rink	Pilates Studio	Dance Studio	Park	Yoga Studio	Falafel Restaurant	Egyptian Restaurant	Electronics Store	Ethiopian Restaurant	Ev
			Coffe		Thai			Ice C	Indi	Falaf	Fri

4. Cluster Neighborhoodsusing K-Mean

In [68]:
```python
# set number of clusters
kclusters = 5

toronto_grouped_clustering = toronto_grouped.drop('Neighborhood',1)
#print(toronto_grouped_clustering)
#print(toronto_grouped)
# run k-means clustering
kmeans = KMeans(init = "k-means++", n_clusters=kclusters, random_state=0).fit(toronto_grouped_clustering)

# check cluster labels generated for each row in the dataframe
labels = kmeans.labels_[0:63]
print(labels)
```

```
[0 0 0 1 0 3 1 1 0 0 3 3 3 0 0 1 0 0 4 0 0 0 0 0 0 0 1 1 1 0 0 3 1 4 1 1 3 3
 0 1 3 4 0 3 0 3 0 0 3 3 2 3 3 3 1 0 3 0 3 0 1 0]
```

In [69]:
```python
toronto_merged = Nebr_ungrp
print(toronto_merged.shape)
labels = np.append(labels,labels[0])
print(labels.shape)
# add clustering labels
toronto_merged['Cluster Labels'] = labels.tolist()

# merge toronto_grouped with toronto_data to add latitude/longitude for each neighborhood
toronto_merged = toronto_merged.join(neighborhoods_venues_sorted.set_index('Neighborhood'), on='Neighborhood
')

toronto_merged.head() # check the last columns!
```

(62, 6)
(62,)

Out[69]:

	Postal_Code	Borough	Neighborhood	Latitude	Longitude	Cluster Labels	1st Popular Venues	2nd Popular Venues	3rd Popular Venues	4th Popular Venues	5th Popular Venues	6th Popula Venues
0	M5A	Downtown Toronto	Harbourfront	43.640080	-79.380150	0	Coffee Shop	Café	Restaurant	Hotel	Pizza Place	Italian Restau
1	M5A	Downtown Toronto	Regent Park	43.660706	-79.360457	0	Coffee Shop	Thai Restaurant	Pharmacy	Grocery Store	Food Truck	Moving Target
2	M5B	Downtown Toronto	Ryerson	43.657474	-79.377905	0	Coffee Shop	Clothing Store	Cosmetics Shop	Fast Food Restaurant	Café	Middle Eastern Restau
3	M5B	Downtown Toronto	Garden District	43.656502	-79.377128	1	Clothing Store	Coffee Shop	Cosmetics Shop	Fast Food Restaurant	Restaurant	Hotel
4	M5C	Downtown Toronto	St. James Town	43.669403	-79.372704	0	Coffee Shop	Pizza Place	Grocery Store	Café	Beer Store	Bakery

In [70]:
```python
# create map
map_clusters = folium.Map(location=[latitude, longitude], zoom_start=11)

# set color scheme for the clusters
x = np.arange(kclusters)
ys = [i+x+(i*x)**2 for i in range(kclusters)]
colors_array = cm.rainbow(np.linspace(0, 1, len(ys)))
rainbow = [colors.rgb2hex(i) for i in colors_array]

# add markers to the map
markers_colors = []
for lat, lon, poi, cluster in zip(toronto_merged['Latitude'], toronto_merged['Longitude'], toronto_merged['N
eighborhood'], toronto_merged['Cluster Labels']):
    label = folium.Popup(str(poi) + ' Cluster ' + str(cluster), parse_html=True)
    folium.CircleMarker(
        [lat, lon],
        radius=5,
        popup=label,
        color=rainbow[cluster-1],
        fill=True,
        fill_color=rainbow[cluster-1],
        fill_opacity=0.7).add_to(map_clusters)

map_clusters
```

Out[70]:

5. Examine Clusters

Cluster 1

```
In [71]: toronto_merged.loc[toronto_merged['Cluster Labels'] == 0, toronto_merged.columns[[1] + list(range(5, toronto
         _merged.shape[1]))]]
```

Out[71]:

	Borough	Cluster Labels	1st Popular Venues	2nd Popular Venues	3rd Popular Venues	4th Popular Venues	5th Popular Venues	6th Popular Venues	7th Popular Venues	8th Popular Venues	9th Popular Venues	10th Venu...
0	Downtown Toronto	0	Coffee Shop	Café	Restaurant	Hotel	Pizza Place	Italian Restaurant	Steakhouse	History Museum	Sporting Goods Shop	Park
1	Downtown Toronto	0	Coffee Shop	Thai Restaurant	Pharmacy	Grocery Store	Food Truck	Moving Target	Beer Store	Electronics Store	Sushi Restaurant	Resta...
2	Downtown Toronto	0	Coffee Shop	Clothing Store	Cosmetics Shop	Fast Food Restaurant	Café	Middle Eastern Restaurant	Diner	Tea Room	Bookstore	Plaza...
4	Downtown Toronto	0	Coffee Shop	Pizza Place	Grocery Store	Café	Beer Store	Bakery	Bank	Restaurant	Library	Break... Spot...
8	Downtown Toronto	0	Coffee Shop	Café	Restaurant	Italian Restaurant	Grocery Store	Pizza Place	Cocktail Bar	Diner	Cosmetics Shop	Baker...
9	Downtown Toronto	0	Coffee Shop	Restaurant	Hotel	Café	Italian Restaurant	Gastropub	American Restaurant	Gym	Japanese Restaurant	Deli /...
13	Downtown Toronto	0	Coffee Shop	Café	Restaurant	Hotel	Pizza Place	Italian Restaurant	Steakhouse	History Museum	Sporting Goods Shop	Park
14	Downtown Toronto	0	Playground	Farm	Scenic Lookout	American Restaurant	Beer Garden	Beach	Egyptian Restaurant	Electronics Store	Ethiopian Restaurant	Event...
16	West Toronto	0	Bar	Coffee Shop	Café	Restaurant	Cocktail Bar	Bakery	Thai Restaurant	Portuguese Restaurant	French Restaurant	Korea... Resta...
17	West Toronto	0	Clothing Store	Coffee Shop	Cosmetics Shop	Restaurant	Plaza	Tea Room	Fast Food Restaurant	Lingerie Store	Pizza Place	Theat...
19	East Toronto	0	Vietnamese Restaurant	Bakery	Chinese Restaurant	Bar	Light Rail Station	Baseball Field	Fast Food Restaurant	Asian Restaurant	Gym / Fitness Center	Trail
20	Downtown Toronto	0	Coffee Shop	Café	Hotel	Restaurant	American Restaurant	Deli / Bodega	Bakery	Gastropub	Steakhouse	Gym
21	Downtown Toronto	0	Coffee Shop	Café	Hotel	American Restaurant	Restaurant	Deli / Bodega	Italian Restaurant	Gastropub	Bar	Baker...
22	West Toronto	0	Bar	Park	Vietnamese Restaurant	South American Restaurant	Gastropub	Bakery	Korean Restaurant	Dive Bar	Grocery Store	Café
23	West Toronto	0	Soccer Stadium	Theme Park	Plaza	Lounge	Athletics & Sports	Coffee Shop	Arts & Crafts Store	Café	Bakery	Bar
24	West Toronto	0	Tibetan Restaurant	Bar	Café	Pharmacy	Diner	Restaurant	Indian Restaurant	Liquor Store	North Indian Restaurant	Donu...
28	Central Toronto	0	Bakery	Coffee Shop	Italian Restaurant	Sushi Restaurant	Bank	Pub	Cosmetics Shop	Tea Room	Burger Joint	Asian Resta...
29	Central Toronto	0	Coffee Shop	Italian Restaurant	Fast Food Restaurant	Yoga Studio	Sporting Goods Shop	Gym	Mexican Restaurant	Movie Theater	Diner	Resta...
37	Central Toronto	0	Sandwich Place	Dessert Shop	Coffee Shop	Sushi Restaurant	Pizza Place	Thai Restaurant	Café	Italian Restaurant	Fried Chicken Joint	Seafo... Resta...
41	West Toronto	0	Skating Rink	Pilates Studio	Dance Studio	Park	Yoga Studio	Falafel Restaurant	Egyptian Restaurant	Electronics Store	Ethiopian Restaurant	Event...
43	Central Toronto	0	Italian Restaurant	Café	Sushi Restaurant	Pizza Place	Coffee Shop	Spa	Bistro	Bar	Juice Bar	Furnit... Home...
45	Downtown Toronto	0	Coffee Shop	Café	Japanese Restaurant	Chinese Restaurant	Art Gallery	Arts & Crafts Store	Record Shop	Sporting Goods Shop	Tea Room	Sand... Place...

	Borough	Cluster Labels	1st Popular Venues	2nd Popular Venues	3rd Popular Venues	4th Popular Venues	5th Popular Venues	6th Popular Venues	7th Popular Venues	8th Popular Venues	9th Popular Venues	10th Venu
46	Downtown Toronto	0	Café	Vegetarian / Vegan Restaurant	Bar	Bakery	Vietnamese Restaurant	Mexican Restaurant	Coffee Shop	Donut Shop	Burger Joint	Dump Resta
54	Downtown Toronto	0	Coffee Shop	Restaurant	Italian Restaurant	Hotel	French Restaurant	Sandwich Place	Beer Bar	Spa	Sushi Restaurant	Steak
56	Downtown Toronto	0	Park	Bike Trail	Playground	Building	Farm	Egyptian Restaurant	Electronics Store	Ethiopian Restaurant	Event Space	Falafe Resta
58	Downtown Toronto	0	Coffee Shop	Pizza Place	Grocery Store	Café	Beer Store	Bakery	Bank	Restaurant	Library	Break Spot

Cluster 2

In [72]:
```
toronto_merged.loc[toronto_merged['Cluster Labels'] == 1, toronto_merged.columns[[1] + list(range(5, toronto
_merged.shape[1]))]]
```

Out[72]:

	Borough	Cluster Labels	1st Popular Venues	2nd Popular Venues	3rd Popular Venues	4th Popular Venues	5th Popular Venues	6th Popular Venues	7th Popular Venues	8th Popular Venues	9th Popular Venues	10t Po Ve
3	Downtown Toronto	1	Clothing Store	Coffee Shop	Cosmetics Shop	Fast Food Restaurant	Restaurant	Hotel	Lingerie Store	Middle Eastern Restaurant	Tea Room	Th
6	Downtown Toronto	1	Coffee Shop	Café	Restaurant	Hotel	Bakery	Beer Bar	Japanese Restaurant	Gym	Gastropub	Se Re
7	Downtown Toronto	1	Korean Restaurant	Coffee Shop	Indian Restaurant	Cocktail Bar	Café	Japanese Restaurant	Karaoke Bar	Dessert Shop	Sandwich Place	Gr Sto
15	Downtown Toronto	1	Coffee Shop	Café	Deli / Bodega	Restaurant	Hotel	Bakery	Italian Restaurant	Breakfast Spot	Steakhouse	Gy
25	East Toronto	1	Beach	Bar	Breakfast Spot	Japanese Restaurant	Tea Room	Coffee Shop	Pub	Thai Restaurant	Park	Sa Ba
26	East Toronto	1	Indian Restaurant	Café	Halal Restaurant	Grocery Store	Snack Place	Pakistani Restaurant	Sandwich Place	Restaurant	Egyptian Restaurant	Dis Sto
27	Downtown Toronto	1	Coffee Shop	Hotel	Café	Restaurant	American Restaurant	Steakhouse	Japanese Restaurant	Italian Restaurant	Bakery	Ga
31	Central Toronto	1	Playground	Bank	Park	Mediterranean Restaurant	Yoga Studio	Farm	Electronics Store	Ethiopian Restaurant	Event Space	Fa Re
33	Central Toronto	1	Pizza Place	Coffee Shop	Park	Thai Restaurant	Bistro	Grocery Store	Ice Cream Shop	Indian Restaurant	Falafel Restaurant	Fri Ch Joi
34	Central Toronto	1	Café	Boutique	Coffee Shop	Restaurant	Italian Restaurant	French Restaurant	Sushi Restaurant	Spa	Hotel	Wo Sto
38	Downtown Toronto	1	Café	Restaurant	Coffee Shop	Japanese Restaurant	Bookstore	Bakery	Museum	Bar	Beer Store	Fre Re
53	Downtown Toronto	1	Coffee Shop	Café	Restaurant	Hotel	Pizza Place	Italian Restaurant	Steakhouse	History Museum	Sporting Goods Shop	Pa
59	Downtown Toronto	1	Coffee Shop	Café	Hotel	Restaurant	Steakhouse	Burger Joint	Bar	Seafood Restaurant	Asian Restaurant	Ga

Cluster 3

```
In [73]: toronto_merged.loc[toronto_merged['Cluster Labels'] == 2, toronto_merged.columns[[1] + list(range(5, toronto
         _merged.shape[1]))]]
```

Out[73]:

	Borough	Cluster Labels	1st Popular Venues	2nd Popular Venues	3rd Popular Venues	4th Popular Venues	5th Popular Venues	6th Popular Venues	7th Popular Venues	8th Popular Venues	9th Popular Venues	10th Popular Venues
49	Central Toronto	2	Coffee Shop	Sandwich Place	History Museum	Pizza Place	Café	Jewish Restaurant	Cosmetics Shop	Park	Pub	Cheese Shop

Cluster 4

```
In [74]: toronto_merged.loc[toronto_merged['Cluster Labels'] == 3, toronto_merged.columns[[1] + list(range(5, toronto
         _merged.shape[1]))]]
```

Out[74]:

	Borough	Cluster Labels	1st Popular Venues	2nd Popular Venues	3rd Popular Venues	4th Popular Venues	5th Popular Venues	6th Popular Venues	7th Popular Venues	8th Popular Venues	9th Popular Venues	10th Popul Venu
5	East Toronto	3	Beach	Bar	Breakfast Spot	Japanese Restaurant	Tea Room	Coffee Shop	Pub	Thai Restaurant	Park	Salon Barbe
10	Downtown Toronto	3	Coffee Shop	Hotel	Restaurant	Diner	Gastropub	Cosmetics Shop	Cocktail Bar	Clothing Store	Italian Restaurant	Pizza Place
11	West Toronto	3	Café	Restaurant	Pizza Place	Bar	Park	Bus Line	Coffee Shop	Falafel Restaurant	Electronics Store	Ethiop Resta
12	West Toronto	3	Bar	Bakery	Coffee Shop	Café	Cocktail Bar	Sandwich Place	Clothing Store	Beer Bar	Beer Store	Mexic Resta
30	Central Toronto	3	Sandwich Place	Dessert Shop	Coffee Shop	Sushi Restaurant	Pizza Place	Thai Restaurant	Café	Italian Restaurant	Fried Chicken Joint	Seafo Resta
35	West Toronto	3	Tibetan Restaurant	Bar	Café	Pharmacy	Diner	Restaurant	Indian Restaurant	Liquor Store	North Indian Restaurant	Donu Shop
36	West Toronto	3	Bookstore	Gourmet Shop	Breakfast Spot	Restaurant	Coffee Shop	Gift Shop	Café	Gastropub	Bank	Movie Theat
39	Downtown Toronto	3	Café	Bookstore	Park	Japanese Restaurant	Yoga Studio	College Gym	Museum	French Restaurant	Noodle House	Chine Resta
42	Central Toronto	3	Playground	Gym	Tennis Court	Park	Yoga Studio	Event Space	Eastern European Restaurant	Egyptian Restaurant	Electronics Store	Ethiop Resta
44	Downtown Toronto	3	Café	Vegetarian / Vegan Restaurant	Chinese Restaurant	Bar	Vietnamese Restaurant	Dumpling Restaurant	Mexican Restaurant	Coffee Shop	Bakery	Desse Shop
47	Central Toronto	3	Coffee Shop	Italian Restaurant	Café	Sushi Restaurant	Pub	Sandwich Place	Bagel Shop	Restaurant	Gym	Groce Store
48	Central Toronto	3	Mexican Restaurant	French Restaurant	Italian Restaurant	Park	Pizza Place	Mediterranean Restaurant	Electronics Store	BBQ Joint	Liquor Store	Coffe Shop
50	Central Toronto	3	Italian Restaurant	Café	Sushi Restaurant	Pizza Place	Coffee Shop	Spa	Bistro	Bar	Juice Bar	Furnit Home Store
51	Downtown Toronto	3	Hotel	Coffee Shop	Pizza Place	Italian Restaurant	Aquarium	Gym	Scenic Lookout	Baseball Stadium	Bar	Conc Hall
52	Downtown Toronto	3	Coffee Shop	Café	Park	Garden	Pub	Grocery Store	Ramen Restaurant	Japanese Restaurant	Sculpture Garden	Tunne
55	Downtown Toronto	3	Park	Coffee Shop	Historic Site	Restaurant	Bakery	Bar	Brewery	Asian Restaurant	Spa	Italian Resta
57	Downtown Toronto	3	Restaurant	Café	Coffee Shop	Pub	Bakery	Gastropub	Diner	Japanese Restaurant	Italian Restaurant	Pizza Place

Cluster 5

In [75]:
```python
toronto_merged.loc[toronto_merged['Cluster Labels'] == 4, toronto_merged.columns[[1] + list(range(5, toronto
_merged.shape[1]))]]
```

Out[75]:

	Borough	Cluster Labels	1st Popular Venues	2nd Popular Venues	3rd Popular Venues	4th Popular Venues	5th Popular Venues	6th Popular Venues	7th Popular Venues	8th Popular Venues	9th Popular Venues	10th Popular Venues
18	East Toronto	4	Grocery Store	Pharmacy	Coffee Shop	Bus Line	Doctor's Office	Optical Shop	Sandwich Place	Caribbean Restaurant	Café	Skating Rink
32	West Toronto	4	Baseball Field	Dog Run	Zoo	Garden	Other Great Outdoors	Park	Scenic Lookout	Skating Rink	Café	Pool
40	West Toronto	4	Pizza Place	Rental Car Location	Coffee Shop	Pharmacy	Grocery Store	Café	Fried Chicken Joint	Sandwich Place	Bar	Thai Restaurant

In [ ]: