Census Data Analysis

November 26, 2024

1 Simple Webscraping Example with Beautiful Soup

[1]:
```
# Import all neccessary libraries

from bs4 import BeautifulSoup
import urllib.request
import pandas as pd
```

[2]:
```
# Assign the URL to a variable

url = "https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/details/
 ↪page.cfm?
 ↪Lang=E&SearchText=M1C&DGUIDlist=2021A0011M1C&GENDERlist=1,2,3&STATISTIClist=1,4&HEADERlist=



# use the urlopen function to open the webpage
html = urllib.request.urlopen(url)

# show object html
html
```

[2]:
```
<http.client.HTTPResponse at 0x7f248c60ead0>
```

[3]:
```
# Create the BeautifulSoup object

html_to_parse = BeautifulSoup(html, "html.parser")
```

[4]:
```
# create a list of tables.  There is only 1 table in this webpage

tables = html_to_parse.find_all("table")
print(f"Number of tables found: {len(tables)}")
```

```
Number of tables found: 1
```

[5]:
```
# Create list of all the <th> tags in the table that has the title␣
 ↪"2021A0011M1C - Population, 2021 - Counts - Total"
```

```
td = tables[0].find(attrs={"title":"2021A0011M1C - Population, 2021 - Counts - Total"})
```

[6]:
```
td
```

[6]:
```
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M1C geo2021A0011M1Cstat1 geo2021A0011M1Cstat1gen1" title="2021A0011M1C - Population, 2021 - Counts - Total"> 35,642</td>
```

[7]:
```
# convert to float
float(td.text.replace(",", ""))
```

[7]:
```
35642.0
```

1.1 Create a script that will look up from a list of Postal codes

[8]:
```
import urllib.parse as urlparse
from urllib.parse import urlencode
```

[9]:
```
# A list of postal code from the previous part

postal = ['M4N','M4P','M4R','M4S','M4T','M4V','M5N','M5P','M5R']
```

[10]:
```
# Creating Empty DataFrame and Storing it in variable df

df = pd.DataFrame(columns = ['postal_code', 'data', 'value'])
```

[11]:
```
# Loop through each postal code

for i in postal:
    url = "https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/details/page.cfm?Lang=E"
    params = {
        'SearchText': i,
        'DGUIDlist': '2021A0011'+i
    }

    # this part switches up the postal code parameter in the url
    url_parts = list(urlparse.urlparse(url))
    query = dict(urlparse.parse_qsl(url_parts[4]))
    query.update(params)

    url_parts[4] = urlencode(query)
    query = urlparse.urlunparse(url_parts)

    # the following code is similar to the above
```

```
    html = urllib.request.urlopen(query)
    html_to_parse = BeautifulSoup(html, "html.parser")
    tables = html_to_parse.find_all("table")
    print(f"Number of tables found: {len(tables)}")

    # change the title to find the data you want
    try:
        title = (f"2021A0011{i} - Population, 2021 - Counts - Total")
        td = tables[0].find(attrs={"title":title})
        print(td)
        df.loc[len(df.index)] = [i, title,  float(td.text.replace(",", ""))]
    except IndexError:
        print(f"No matching tables found for title: {title}")
    continue
```

```
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M4N
geo2021A0011M4Nstat1 geo2021A0011M4Nstat1gen1" title="2021A0011M4N - Population,
2021 - Counts - Total"> 16,058</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M4P
geo2021A0011M4Pstat1 geo2021A0011M4Pstat1gen1" title="2021A0011M4P - Population,
2021 - Counts - Total"> 25,057</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M4R
geo2021A0011M4Rstat1 geo2021A0011M4Rstat1gen1" title="2021A0011M4R - Population,
2021 - Counts - Total"> 11,909</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M4S
geo2021A0011M4Sstat1 geo2021A0011M4Sstat1gen1" title="2021A0011M4S - Population,
2021 - Counts - Total"> 30,754</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M4T
geo2021A0011M4Tstat1 geo2021A0011M4Tstat1gen1" title="2021A0011M4T - Population,
2021 - Counts - Total"> 10,332</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M4V
geo2021A0011M4Vstat1 geo2021A0011M4Vstat1gen1" title="2021A0011M4V - Population,
2021 - Counts - Total"> 19,273</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M5N
geo2021A0011M5Nstat1 geo2021A0011M5Nstat1gen1" title="2021A0011M5N - Population,
2021 - Counts - Total"> 16,154</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M5P
geo2021A0011M5Pstat1 geo2021A0011M5Pstat1gen1" title="2021A0011M5P - Population,
```

```
2021 - Counts - Total"> 19,791</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M5R
geo2021A0011M5Rstat1 geo2021A0011M5Rstat1gen1" title="2021A0011M5R - Population,
2021 - Counts - Total"> 26,197</td>
```

[12]:
```
for i in postal:
    url = "https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/
 ↪details/page.cfm?Lang=E"
    params = {
        'SearchText': i,
        'DGUIDlist': '2021A0011'+i
    }

    # this part switches up the postal code parameter in the url
    url_parts = list(urlparse.urlparse(url))
    query = dict(urlparse.parse_qsl(url_parts[4]))
    query.update(params)

    url_parts[4] = urlencode(query)
    query = urlparse.urlunparse(url_parts)

    # the following code is similar to the above
    html = urllib.request.urlopen(query)
    html_to_parse = BeautifulSoup(html, "html.parser")
    tables = html_to_parse.find_all("table")
    print(f"Number of tables found: {len(tables)}")

    # change the title to find the data you want
    try:
        title = (f"2021A0011{i} - 15 to 19 years - Counts - Total")
        td = tables[0].find(attrs={"title":title})
        print(td)
        df.loc[len(df.index)] = [i, title,  float(td.text.replace(",", ""))]
    except IndexError:
        print(f"No matching tables found for title: {title}")
    continue
```

```
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r14 geo2021A0011M4N
geo2021A0011M4Nstat1 geo2021A0011M4Nstat1gen1" title="2021A0011M4N - 15 to 19
years - Counts - Total">  1,125</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r14 geo2021A0011M4P
geo2021A0011M4Pstat1 geo2021A0011M4Pstat1gen1" title="2021A0011M4P - 15 to 19
years - Counts - Total">   855</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r14 geo2021A0011M4R
```

```
geo2021A0011M4Rstat1 geo2021A0011M4Rstat1gen1" title="2021A0011M4R - 15 to 19
years - Counts - Total">   795</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r14 geo2021A0011M4S
geo2021A0011M4Sstat1 geo2021A0011M4Sstat1gen1" title="2021A0011M4S - 15 to 19
years - Counts - Total">  1,115</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r14 geo2021A0011M4T
geo2021A0011M4Tstat1 geo2021A0011M4Tstat1gen1" title="2021A0011M4T - 15 to 19
years - Counts - Total">   455</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r14 geo2021A0011M4V
geo2021A0011M4Vstat1 geo2021A0011M4Vstat1gen1" title="2021A0011M4V - 15 to 19
years - Counts - Total">   695</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r14 geo2021A0011M5N
geo2021A0011M5Nstat1 geo2021A0011M5Nstat1gen1" title="2021A0011M5N - 15 to 19
years - Counts - Total">  1,140</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r14 geo2021A0011M5P
geo2021A0011M5Pstat1 geo2021A0011M5Pstat1gen1" title="2021A0011M5P - 15 to 19
years - Counts - Total">  1,025</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r14 geo2021A0011M5R
geo2021A0011M5Rstat1 geo2021A0011M5Rstat1gen1" title="2021A0011M5R - 15 to 19
years - Counts - Total">   745</td>
```

[13]:

```
for i in postal:
  url = "https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/
↪details/page.cfm?Lang=E"
  params = {
      'SearchText': i,
      'DGUIDlist': '2021A0011'+i
  }

  # this part switches up the postal code parameter in the url
  url_parts = list(urlparse.urlparse(url))
  query = dict(urlparse.parse_qsl(url_parts[4]))
  query.update(params)

  url_parts[4] = urlencode(query)
  query = urlparse.urlunparse(url_parts)

  # the following code is similar to the above
  html = urllib.request.urlopen(query)
  html_to_parse = BeautifulSoup(html, "html.parser")
  tables = html_to_parse.find_all("table")
```

```
    print(f"Number of tables found: {len(tables)}")

    # change the title to find the data you want
    try:
        title = (f"2021A0011{i} - 20 to 24 years - Counts - Total")
        td = tables[0].find(attrs={"title":title})
        print(td)
        df.loc[len(df.index)] = [i, title,  float(td.text.replace(",", ""))]
    except IndexError:
        print(f"No matching tables found for title: {title}")
    continue
```

```
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r15 geo2021A0011M4N
geo2021A0011M4Nstat1 geo2021A0011M4Nstat1gen1" title="2021A0011M4N - 20 to 24
years - Counts - Total">   890</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r15 geo2021A0011M4P
geo2021A0011M4Pstat1 geo2021A0011M4Pstat1gen1" title="2021A0011M4P - 20 to 24
years - Counts - Total">  1,500</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r15 geo2021A0011M4R
geo2021A0011M4Rstat1 geo2021A0011M4Rstat1gen1" title="2021A0011M4R - 20 to 24
years - Counts - Total">   665</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r15 geo2021A0011M4S
geo2021A0011M4Sstat1 geo2021A0011M4Sstat1gen1" title="2021A0011M4S - 20 to 24
years - Counts - Total">  1,420</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r15 geo2021A0011M4T
geo2021A0011M4Tstat1 geo2021A0011M4Tstat1gen1" title="2021A0011M4T - 20 to 24
years - Counts - Total">   480</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r15 geo2021A0011M4V
geo2021A0011M4Vstat1 geo2021A0011M4Vstat1gen1" title="2021A0011M4V - 20 to 24
years - Counts - Total">   855</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r15 geo2021A0011M5N
geo2021A0011M5Nstat1 geo2021A0011M5Nstat1gen1" title="2021A0011M5N - 20 to 24
years - Counts - Total">   980</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r15 geo2021A0011M5P
geo2021A0011M5Pstat1 geo2021A0011M5Pstat1gen1" title="2021A0011M5P - 20 to 24
years - Counts - Total">  1,060</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r15 geo2021A0011M5R
geo2021A0011M5Rstat1 geo2021A0011M5Rstat1gen1" title="2021A0011M5R - 20 to 24
```

```
years - Counts - Total">  1,760</td>
```

[14]:
```
for i in postal:
    url = "https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/
↪details/page.cfm?Lang=E"
    params = {
        'SearchText': i,
        'DGUIDlist': '2021A0011'+i
    }

    # this part switches up the postal code parameter in the url
    url_parts = list(urlparse.urlparse(url))
    query = dict(urlparse.parse_qsl(url_parts[4]))
    query.update(params)

    url_parts[4] = urlencode(query)
    query = urlparse.urlunparse(url_parts)

    # the following code is similar to the above
    html = urllib.request.urlopen(query)
    html_to_parse = BeautifulSoup(html, "html.parser")
    tables = html_to_parse.find_all("table")
    print(f"Number of tables found: {len(tables)}")

    try:
        title = (f"2021A0011{i} - 25 to 29 years - Counts - Total")
        td = tables[0].find(attrs={"title":title})
        print(td)
        df.loc[len(df.index)] = [i, title,  float(td.text.replace(",", ""))]
    except IndexError:
        print(f"No matching tables found for title: {title}")
    continue
```

```
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r16 geo2021A0011M4N
geo2021A0011M4Nstat1 geo2021A0011M4Nstat1gen1" title="2021A0011M4N - 25 to 29
years - Counts - Total">   715</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r16 geo2021A0011M4P
geo2021A0011M4Pstat1 geo2021A0011M4Pstat1gen1" title="2021A0011M4P - 25 to 29
years - Counts - Total">  3,110</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r16 geo2021A0011M4R
geo2021A0011M4Rstat1 geo2021A0011M4Rstat1gen1" title="2021A0011M4R - 25 to 29
years - Counts - Total">   825</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r16 geo2021A0011M4S
geo2021A0011M4Sstat1 geo2021A0011M4Sstat1gen1" title="2021A0011M4S - 25 to 29
```

```
years - Counts - Total">  3,165</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r16 geo2021A0011M4T
geo2021A0011M4Tstat1 geo2021A0011M4Tstat1gen1" title="2021A0011M4T - 25 to 29
years - Counts - Total">   610</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r16 geo2021A0011M4V
geo2021A0011M4Vstat1 geo2021A0011M4Vstat1gen1" title="2021A0011M4V - 25 to 29
years - Counts - Total">  1,580</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r16 geo2021A0011M5N
geo2021A0011M5Nstat1 geo2021A0011M5Nstat1gen1" title="2021A0011M5N - 25 to 29
years - Counts - Total">   870</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r16 geo2021A0011M5P
geo2021A0011M5Pstat1 geo2021A0011M5Pstat1gen1" title="2021A0011M5P - 25 to 29
years - Counts - Total">  1,585</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh2 r16 geo2021A0011M5R
geo2021A0011M5Rstat1 geo2021A0011M5Rstat1gen1" title="2021A0011M5R - 25 to 29
years - Counts - Total">  2,940</td>
```

[15]:
```python
for i in postal:
    url = "https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/
↪details/page.cfm?Lang=E"
    params = {
        'SearchText': i,
        'DGUIDlist': '2021A0011'+i
    }

    # this part switches up the postal code parameter in the url
    url_parts = list(urlparse.urlparse(url))
    query = dict(urlparse.parse_qsl(url_parts[4]))
    query.update(params)

    url_parts[4] = urlencode(query)
    query = urlparse.urlunparse(url_parts)

    # the following code is similar to the above
    html = urllib.request.urlopen(query)
    html_to_parse = BeautifulSoup(html, "html.parser")
    tables = html_to_parse.find_all("table")
    print(f"Number of tables found: {len(tables)}")

    try:
        title = (f"2021A0011{i} - Public transit - Counts - Total")
        td = tables[0].find(attrs={"title":title})
```

```
        print(td)
        df.loc[len(df.index)] = [i, title,  float(td.text.replace(",", ""))]
    except IndexError:
        print(f"No matching tables found for title: {title}")
    continue
```

```
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2607 geo2021A0011M4N
geo2021A0011M4Nstat1 geo2021A0011M4Nstat1gen1" title="2021A0011M4N - Public
transit - Counts - Total">   705</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2607 geo2021A0011M4P
geo2021A0011M4Pstat1 geo2021A0011M4Pstat1gen1" title="2021A0011M4P - Public
transit - Counts - Total">  2,560</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2607 geo2021A0011M4R
geo2021A0011M4Rstat1 geo2021A0011M4Rstat1gen1" title="2021A0011M4R - Public
transit - Counts - Total">   825</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2607 geo2021A0011M4S
geo2021A0011M4Sstat1 geo2021A0011M4Sstat1gen1" title="2021A0011M4S - Public
transit - Counts - Total">  2,860</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2607 geo2021A0011M4T
geo2021A0011M4Tstat1 geo2021A0011M4Tstat1gen1" title="2021A0011M4T - Public
transit - Counts - Total">   560</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2607 geo2021A0011M4V
geo2021A0011M4Vstat1 geo2021A0011M4Vstat1gen1" title="2021A0011M4V - Public
transit - Counts - Total">  1,190</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2607 geo2021A0011M5N
geo2021A0011M5Nstat1 geo2021A0011M5Nstat1gen1" title="2021A0011M5N - Public
transit - Counts - Total">  1,025</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2607 geo2021A0011M5P
geo2021A0011M5Pstat1 geo2021A0011M5Pstat1gen1" title="2021A0011M5P - Public
transit - Counts - Total">  1,280</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2607 geo2021A0011M5R
geo2021A0011M5Rstat1 geo2021A0011M5Rstat1gen1" title="2021A0011M5R - Public
transit - Counts - Total">  1,540</td>
```

[16]:
```
for i in postal:
    url = "https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/
↪details/page.cfm?Lang=E"
    params = {
```

```
        'SearchText': i,
        'DGUIDlist': '2021A0011'+i
    }

    # this part switches up the postal code parameter in the url
    url_parts = list(urlparse.urlparse(url))
    query = dict(urlparse.parse_qsl(url_parts[4]))
    query.update(params)

    url_parts[4] = urlencode(query)
    query = urlparse.urlunparse(url_parts)

    # the following code is similar to the above
    html = urllib.request.urlopen(query)
    html_to_parse = BeautifulSoup(html, "html.parser")
    tables = html_to_parse.find_all("table")
    print(f"Number of tables found: {len(tables)}")

    try:
        title = (f"2021A0011{i} - Walked - Counts - Total")
        td = tables[0].find(attrs={"title":title})
        print(td)
        df.loc[len(df.index)] = [i, title,  float(td.text.replace(",", ""))]
    except IndexError:
        print(f"No matching tables found for title: {title}")
    continue
```

```
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2608 geo2021A0011M4N
geo2021A0011M4Nstat1 geo2021A0011M4Nstat1gen1" title="2021A0011M4N - Walked -
Counts - Total">   295</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2608 geo2021A0011M4P
geo2021A0011M4Pstat1 geo2021A0011M4Pstat1gen1" title="2021A0011M4P - Walked -
Counts - Total">   825</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2608 geo2021A0011M4R
geo2021A0011M4Rstat1 geo2021A0011M4Rstat1gen1" title="2021A0011M4R - Walked -
Counts - Total">   265</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2608 geo2021A0011M4S
geo2021A0011M4Sstat1 geo2021A0011M4Sstat1gen1" title="2021A0011M4S - Walked -
Counts - Total">   820</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2608 geo2021A0011M4T
geo2021A0011M4Tstat1 geo2021A0011M4Tstat1gen1" title="2021A0011M4T - Walked -
Counts - Total">   250</td>
```

```
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2608 geo2021A0011M4V
geo2021A0011M4Vstat1 geo2021A0011M4Vstat1gen1" title="2021A0011M4V - Walked -
Counts - Total">   790</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2608 geo2021A0011M5N
geo2021A0011M5Nstat1 geo2021A0011M5Nstat1gen1" title="2021A0011M5N - Walked -
Counts - Total">   300</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2608 geo2021A0011M5P
geo2021A0011M5Pstat1 geo2021A0011M5Pstat1gen1" title="2021A0011M5P - Walked -
Counts - Total">   455</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2608 geo2021A0011M5R
geo2021A0011M5Rstat1 geo2021A0011M5Rstat1gen1" title="2021A0011M5R - Walked -
Counts - Total">  1,440</td>
```

[17]:

```
for i in postal:
    url = "https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/
↪details/page.cfm?Lang=E"
    params = {
        'SearchText': i,
        'DGUIDlist': '2021A0011'+i
    }

    # this part switches up the postal code parameter in the url
    url_parts = list(urlparse.urlparse(url))
    query = dict(urlparse.parse_qsl(url_parts[4]))
    query.update(params)

    url_parts[4] = urlencode(query)
    query = urlparse.urlunparse(url_parts)

    # the following code is similar to the above
    html = urllib.request.urlopen(query)
    html_to_parse = BeautifulSoup(html, "html.parser")
    tables = html_to_parse.find_all("table")
    print(f"Number of tables found: {len(tables)}")

    try:
        title = (f"2021A0011{i} - Bicycle - Counts - Total")
        td = tables[0].find(attrs={"title":title})
        print(td)
        df.loc[len(df.index)] = [i, title,  float(td.text.replace(",", ""))]
    except IndexError:
        print(f"No matching tables found for title: {title}")
    continue
```

```
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2609 geo2021A0011M4N
geo2021A0011M4Nstat1 geo2021A0011M4Nstat1gen1" title="2021A0011M4N - Bicycle -
Counts - Total">    40</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2609 geo2021A0011M4P
geo2021A0011M4Pstat1 geo2021A0011M4Pstat1gen1" title="2021A0011M4P - Bicycle -
Counts - Total">   175</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2609 geo2021A0011M4R
geo2021A0011M4Rstat1 geo2021A0011M4Rstat1gen1" title="2021A0011M4R - Bicycle -
Counts - Total">    55</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2609 geo2021A0011M4S
geo2021A0011M4Sstat1 geo2021A0011M4Sstat1gen1" title="2021A0011M4S - Bicycle -
Counts - Total">   160</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2609 geo2021A0011M4T
geo2021A0011M4Tstat1 geo2021A0011M4Tstat1gen1" title="2021A0011M4T - Bicycle -
Counts - Total">    60</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2609 geo2021A0011M4V
geo2021A0011M4Vstat1 geo2021A0011M4Vstat1gen1" title="2021A0011M4V - Bicycle -
Counts - Total">   140</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2609 geo2021A0011M5N
geo2021A0011M5Nstat1 geo2021A0011M5Nstat1gen1" title="2021A0011M5N - Bicycle -
Counts - Total">    70</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2609 geo2021A0011M5P
geo2021A0011M5Pstat1 geo2021A0011M5Pstat1gen1" title="2021A0011M5P - Bicycle -
Counts - Total">   145</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2609 geo2021A0011M5R
geo2021A0011M5Rstat1 geo2021A0011M5Rstat1gen1" title="2021A0011M5R - Bicycle -
Counts - Total">   455</td>
```

[18]:
```python
for i in postal:
    url = "https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/
 ↪details/page.cfm?Lang=E"
    params = {
        'SearchText': i,
        'DGUIDlist': '2021A0011'+i
    }

    # this part switches up the postal code parameter in the url
    url_parts = list(urlparse.urlparse(url))
```

```
    query = dict(urlparse.parse_qsl(url_parts[4]))
    query.update(params)

    url_parts[4] = urlencode(query)
    query = urlparse.urlunparse(url_parts)

    # the following code is similar to the above
    html = urllib.request.urlopen(query)
    html_to_parse = BeautifulSoup(html, "html.parser")
    tables = html_to_parse.find_all("table")
    print(f"Number of tables found: {len(tables)}")

    try:
        title = (f"2021A0011{i} - Total - Main mode of commuting for the␣
↪employed labour force aged 15 years and over with a usual place of work or␣
↪no fixed workplace address - 25% sample data - Counts - Total")
        td = tables[0].find(attrs={"title":title})
        print(td)
        df.loc[len(df.index)] = [i, title,  float(td.text.replace(",", ""))]
    except IndexError:
        print(f"No matching tables found for title: {title}")
    continue
```

```
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2603 geo2021A0011M4N
geo2021A0011M4Nstat1 geo2021A0011M4Nstat1gen1" title="2021A0011M4N - Total -
Main mode of commuting for the employed labour force aged 15 years and over with
a usual place of work or no fixed workplace address - 25% sample data - Counts -
Total">  3,065</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2603 geo2021A0011M4P
geo2021A0011M4Pstat1 geo2021A0011M4Pstat1gen1" title="2021A0011M4P - Total -
Main mode of commuting for the employed labour force aged 15 years and over with
a usual place of work or no fixed workplace address - 25% sample data - Counts -
Total">  6,735</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2603 geo2021A0011M4R
geo2021A0011M4Rstat1 geo2021A0011M4Rstat1gen1" title="2021A0011M4R - Total -
Main mode of commuting for the employed labour force aged 15 years and over with
a usual place of work or no fixed workplace address - 25% sample data - Counts -
Total">  2,645</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2603 geo2021A0011M4S
geo2021A0011M4Sstat1 geo2021A0011M4Sstat1gen1" title="2021A0011M4S - Total -
Main mode of commuting for the employed labour force aged 15 years and over with
a usual place of work or no fixed workplace address - 25% sample data - Counts -
Total">  7,385</td>
```

```
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2603 geo2021A0011M4T
geo2021A0011M4Tstat1 geo2021A0011M4Tstat1gen1" title="2021A0011M4T - Total -
Main mode of commuting for the employed labour force aged 15 years and over with
a usual place of work or no fixed workplace address - 25% sample data - Counts -
Total">  1,920</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2603 geo2021A0011M4V
geo2021A0011M4Vstat1 geo2021A0011M4Vstat1gen1" title="2021A0011M4V - Total -
Main mode of commuting for the employed labour force aged 15 years and over with
a usual place of work or no fixed workplace address - 25% sample data - Counts -
Total">  4,575</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2603 geo2021A0011M5N
geo2021A0011M5Nstat1 geo2021A0011M5Nstat1gen1" title="2021A0011M5N - Total -
Main mode of commuting for the employed labour force aged 15 years and over with
a usual place of work or no fixed workplace address - 25% sample data - Counts -
Total">  4,050</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2603 geo2021A0011M5P
geo2021A0011M5Pstat1 geo2021A0011M5Pstat1gen1" title="2021A0011M5P - Total -
Main mode of commuting for the employed labour force aged 15 years and over with
a usual place of work or no fixed workplace address - 25% sample data - Counts -
Total">  4,865</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh50 r2603 geo2021A0011M5R
geo2021A0011M5Rstat1 geo2021A0011M5Rstat1gen1" title="2021A0011M5R - Total -
Main mode of commuting for the employed labour force aged 15 years and over with
a usual place of work or no fixed workplace address - 25% sample data - Counts -
Total">  6,095</td>
```

[19]:
```python
for i in postal:
    url = "https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/
 ↪details/page.cfm?Lang=E"
    params = {
        'SearchText': i,
        'DGUIDlist': '2021A0011'+i
    }

    # this part switches up the postal code parameter in the url
    url_parts = list(urlparse.urlparse(url))
    query = dict(urlparse.parse_qsl(url_parts[4]))
    query.update(params)

    url_parts[4] = urlencode(query)
    query = urlparse.urlunparse(url_parts)
```

```
    # the following code is similar to the above
    html = urllib.request.urlopen(query)
    html_to_parse = BeautifulSoup(html, "html.parser")
    tables = html_to_parse.find_all("table")
    print(f"Number of tables found: {len(tables)}")

    try:
        title = (f"2021A0011{i} - Worked at home - Counts - Total")
        td = tables[0].find(attrs={"title":title})
        print(td)
        df.loc[len(df.index)] = [i, title,  float(td.text.replace(",", ""))]
    except IndexError:
        print(f"No matching tables found for title: {title}")
    continue
```

```
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh48 r2594 geo2021A0011M4N
geo2021A0011M4Nstat1 geo2021A0011M4Nstat1gen1" title="2021A0011M4N - Worked at
home - Counts - Total">  3,695</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh48 r2594 geo2021A0011M4P
geo2021A0011M4Pstat1 geo2021A0011M4Pstat1gen1" title="2021A0011M4P - Worked at
home - Counts - Total">  7,335</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh48 r2594 geo2021A0011M4R
geo2021A0011M4Rstat1 geo2021A0011M4Rstat1gen1" title="2021A0011M4R - Worked at
home - Counts - Total">  3,505</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh48 r2594 geo2021A0011M4S
geo2021A0011M4Sstat1 geo2021A0011M4Sstat1gen1" title="2021A0011M4S - Worked at
home - Counts - Total">  9,655</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh48 r2594 geo2021A0011M4T
geo2021A0011M4Tstat1 geo2021A0011M4Tstat1gen1" title="2021A0011M4T - Worked at
home - Counts - Total">  2,985</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh48 r2594 geo2021A0011M4V
geo2021A0011M4Vstat1 geo2021A0011M4Vstat1gen1" title="2021A0011M4V - Worked at
home - Counts - Total">  5,670</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh48 r2594 geo2021A0011M5N
geo2021A0011M5Nstat1 geo2021A0011M5Nstat1gen1" title="2021A0011M5N - Worked at
home - Counts - Total">  3,610</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh48 r2594 geo2021A0011M5P
geo2021A0011M5Pstat1 geo2021A0011M5Pstat1gen1" title="2021A0011M5P - Worked at
home - Counts - Total">  5,380</td>
```

```
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh48 r2594 geo2021A0011M5R
geo2021A0011M5Rstat1 geo2021A0011M5Rstat1gen1" title="2021A0011M5R - Worked at
home - Counts - Total">  7,630</td>
```

[20]:
```
for i in postal:
    url = "https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/
 ↪details/page.cfm?Lang=E"
    params = {
        'SearchText': i,
        'DGUIDlist': '2021A0011'+i
    }

    # this part switches up the postal code parameter in the url
    url_parts = list(urlparse.urlparse(url))
    query = dict(urlparse.parse_qsl(url_parts[4]))
    query.update(params)

    url_parts[4] = urlencode(query)
    query = urlparse.urlunparse(url_parts)

    # the following code is similar to the above
    html = urllib.request.urlopen(query)
    html_to_parse = BeautifulSoup(html, "html.parser")
    tables = html_to_parse.find_all("table")
    print(f"Number of tables found: {len(tables)}")

    try:
        title = (f"2021A0011{i} - Total - Place of work status for the employed␣
 ↪labour force aged 15 years and over - 25% sample data - Counts - Total")
        td = tables[0].find(attrs={"title":title})
        print(td)
        df.loc[len(df.index)] = [i, title,  float(td.text.replace(",", ""))]
    except IndexError:
        print(f"No matching tables found for title: {title}")
    continue
```

```
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh48 r2593 geo2021A0011M4N
geo2021A0011M4Nstat1 geo2021A0011M4Nstat1gen1" title="2021A0011M4N - Total -
Place of work status for the employed labour force aged 15 years and over - 25%
sample data - Counts - Total">  6,820</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh48 r2593 geo2021A0011M4P
geo2021A0011M4Pstat1 geo2021A0011M4Pstat1gen1" title="2021A0011M4P - Total -
Place of work status for the employed labour force aged 15 years and over - 25%
sample data - Counts - Total"> 14,115</td>
Number of tables found: 1
```

```
<td class="text-right text-nowrap" headers="rh48 r2593 geo2021A0011M4R
geo2021A0011M4Rstat1 geo2021A0011M4Rstat1gen1" title="2021A0011M4R - Total -
Place of work status for the employed labour force aged 15 years and over - 25%
sample data - Counts - Total">  6,190</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh48 r2593 geo2021A0011M4S
geo2021A0011M4Sstat1 geo2021A0011M4Sstat1gen1" title="2021A0011M4S - Total -
Place of work status for the employed labour force aged 15 years and over - 25%
sample data - Counts - Total"> 17,145</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh48 r2593 geo2021A0011M4T
geo2021A0011M4Tstat1 geo2021A0011M4Tstat1gen1" title="2021A0011M4T - Total -
Place of work status for the employed labour force aged 15 years and over - 25%
sample data - Counts - Total">  4,935</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh48 r2593 geo2021A0011M4V
geo2021A0011M4Vstat1 geo2021A0011M4Vstat1gen1" title="2021A0011M4V - Total -
Place of work status for the employed labour force aged 15 years and over - 25%
sample data - Counts - Total"> 10,320</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh48 r2593 geo2021A0011M5N
geo2021A0011M5Nstat1 geo2021A0011M5Nstat1gen1" title="2021A0011M5N - Total -
Place of work status for the employed labour force aged 15 years and over - 25%
sample data - Counts - Total">  7,710</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh48 r2593 geo2021A0011M5P
geo2021A0011M5Pstat1 geo2021A0011M5Pstat1gen1" title="2021A0011M5P - Total -
Place of work status for the employed labour force aged 15 years and over - 25%
sample data - Counts - Total"> 10,275</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh48 r2593 geo2021A0011M5R
geo2021A0011M5Rstat1 geo2021A0011M5Rstat1gen1" title="2021A0011M5R - Total -
Place of work status for the employed labour force aged 15 years and over - 25%
sample data - Counts - Total"> 13,835</td>
```

[21]:
```
for i in postal:
    url = "https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/
 ↪details/page.cfm?Lang=E"
    params = {
        'SearchText': i,
        'DGUIDlist': '2021A0011'+i
    }

    # this part switches up the postal code parameter in the url
    url_parts = list(urlparse.urlparse(url))
    query = dict(urlparse.parse_qsl(url_parts[4]))
    query.update(params)
```

```
    url_parts[4] = urlencode(query)
    query = urlparse.urlunparse(url_parts)

    # the following code is similar to the above
    html = urllib.request.urlopen(query)
    html_to_parse = BeautifulSoup(html, "html.parser")
    tables = html_to_parse.find_all("table")
    print(f"Number of tables found: {len(tables)}")

    try:
        title = (f"2021A0011{i} - Between 7 a.m. and 7:59 a.m. - Counts -␣
↪Total")
        td = tables[0].find(attrs={"title":title})
        print(td)
        df.loc[len(df.index)] = [i, title,  float(td.text.replace(",", ""))]
    except IndexError:
        print(f"No matching tables found for title: {title}")
    continue
```

```
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2620 geo2021A0011M4N
geo2021A0011M4Nstat1 geo2021A0011M4Nstat1gen1" title="2021A0011M4N - Between 7
a.m. and 7:59 a.m. - Counts - Total">   695</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2620 geo2021A0011M4P
geo2021A0011M4Pstat1 geo2021A0011M4Pstat1gen1" title="2021A0011M4P - Between 7
a.m. and 7:59 a.m. - Counts - Total">  1,610</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2620 geo2021A0011M4R
geo2021A0011M4Rstat1 geo2021A0011M4Rstat1gen1" title="2021A0011M4R - Between 7
a.m. and 7:59 a.m. - Counts - Total">   655</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2620 geo2021A0011M4S
geo2021A0011M4Sstat1 geo2021A0011M4Sstat1gen1" title="2021A0011M4S - Between 7
a.m. and 7:59 a.m. - Counts - Total">  1,755</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2620 geo2021A0011M4T
geo2021A0011M4Tstat1 geo2021A0011M4Tstat1gen1" title="2021A0011M4T - Between 7
a.m. and 7:59 a.m. - Counts - Total">   425</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2620 geo2021A0011M4V
geo2021A0011M4Vstat1 geo2021A0011M4Vstat1gen1" title="2021A0011M4V - Between 7
a.m. and 7:59 a.m. - Counts - Total">  1,095</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2620 geo2021A0011M5N
geo2021A0011M5Nstat1 geo2021A0011M5Nstat1gen1" title="2021A0011M5N - Between 7
```

```
a.m. and 7:59 a.m. - Counts - Total">   980</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2620 geo2021A0011M5P
geo2021A0011M5Pstat1 geo2021A0011M5Pstat1gen1" title="2021A0011M5P - Between 7
a.m. and 7:59 a.m. - Counts - Total">  1,050</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2620 geo2021A0011M5R
geo2021A0011M5Rstat1 geo2021A0011M5Rstat1gen1" title="2021A0011M5R - Between 7
a.m. and 7:59 a.m. - Counts - Total">  1,145</td>
```

[22]:
```python
for i in postal:
    url = "https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/
 ↪details/page.cfm?Lang=E"
    params = {
        'SearchText': i,
        'DGUIDlist': '2021A0011'+i
    }

    # this part switches up the postal code parameter in the url
    url_parts = list(urlparse.urlparse(url))
    query = dict(urlparse.parse_qsl(url_parts[4]))
    query.update(params)

    url_parts[4] = urlencode(query)
    query = urlparse.urlunparse(url_parts)

    # the following code is similar to the above
    html = urllib.request.urlopen(query)
    html_to_parse = BeautifulSoup(html, "html.parser")
    tables = html_to_parse.find_all("table")
    print(f"Number of tables found: {len(tables)}")

    try:
        title = (f"2021A0011{i} - Between 8 a.m. and 8:59 a.m. - Counts -␣
 ↪Total")
        td = tables[0].find(attrs={"title":title})
        print(td)
        df.loc[len(df.index)] = [i, title,  float(td.text.replace(",", ""))]
    except IndexError:
        print(f"No matching tables found for title: {title}")
    continue
```

```
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2621 geo2021A0011M4N
geo2021A0011M4Nstat1 geo2021A0011M4Nstat1gen1" title="2021A0011M4N - Between 8
a.m. and 8:59 a.m. - Counts - Total">  1,115</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2621 geo2021A0011M4P
```

```
geo2021A0011M4Pstat1 geo2021A0011M4Pstat1gen1" title="2021A0011M4P - Between 8
a.m. and 8:59 a.m. - Counts - Total">  1,925</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2621 geo2021A0011M4R
geo2021A0011M4Rstat1 geo2021A0011M4Rstat1gen1" title="2021A0011M4R - Between 8
a.m. and 8:59 a.m. - Counts - Total">   785</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2621 geo2021A0011M4S
geo2021A0011M4Sstat1 geo2021A0011M4Sstat1gen1" title="2021A0011M4S - Between 8
a.m. and 8:59 a.m. - Counts - Total">  2,260</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2621 geo2021A0011M4T
geo2021A0011M4Tstat1 geo2021A0011M4Tstat1gen1" title="2021A0011M4T - Between 8
a.m. and 8:59 a.m. - Counts - Total">   600</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2621 geo2021A0011M4V
geo2021A0011M4Vstat1 geo2021A0011M4Vstat1gen1" title="2021A0011M4V - Between 8
a.m. and 8:59 a.m. - Counts - Total">  1,380</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2621 geo2021A0011M5N
geo2021A0011M5Nstat1 geo2021A0011M5Nstat1gen1" title="2021A0011M5N - Between 8
a.m. and 8:59 a.m. - Counts - Total">  1,165</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2621 geo2021A0011M5P
geo2021A0011M5Pstat1 geo2021A0011M5Pstat1gen1" title="2021A0011M5P - Between 8
a.m. and 8:59 a.m. - Counts - Total">  1,365</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2621 geo2021A0011M5R
geo2021A0011M5Rstat1 geo2021A0011M5Rstat1gen1" title="2021A0011M5R - Between 8
a.m. and 8:59 a.m. - Counts - Total">  1,980</td>
```

[23]:
```python
for i in postal:
    url = "https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/
 ↪details/page.cfm?Lang=E"
    params = {
        'SearchText': i,
        'DGUIDlist': '2021A0011'+i
    }

    # this part switches up the postal code parameter in the url
    url_parts = list(urlparse.urlparse(url))
    query = dict(urlparse.parse_qsl(url_parts[4]))
    query.update(params)

    url_parts[4] = urlencode(query)
    query = urlparse.urlunparse(url_parts)
```

```
    # the following code is similar to the above
    html = urllib.request.urlopen(query)
    html_to_parse = BeautifulSoup(html, "html.parser")
    tables = html_to_parse.find_all("table")
    print(f"Number of tables found: {len(tables)}")

    try:
        title = (f"2021A0011{i} - Total - Time leaving for work for the␣
↪employed labour force aged 15 years and over with a usual place of work or␣
↪no fixed workplace address - 25% sample data - Counts - Total")
        td = tables[0].find(attrs={"title":title})
        print(td)
        df.loc[len(df.index)] = [i, title,  float(td.text.replace(",", ""))]
    except IndexError:
        print(f"No matching tables found for title: {title}")
    continue
```

```
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2617 geo2021A0011M4N
geo2021A0011M4Nstat1 geo2021A0011M4Nstat1gen1" title="2021A0011M4N - Total -
Time leaving for work for the employed labour force aged 15 years and over with
a usual place of work or no fixed workplace address - 25% sample data - Counts -
Total">  3,065</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2617 geo2021A0011M4P
geo2021A0011M4Pstat1 geo2021A0011M4Pstat1gen1" title="2021A0011M4P - Total -
Time leaving for work for the employed labour force aged 15 years and over with
a usual place of work or no fixed workplace address - 25% sample data - Counts -
Total">  6,735</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2617 geo2021A0011M4R
geo2021A0011M4Rstat1 geo2021A0011M4Rstat1gen1" title="2021A0011M4R - Total -
Time leaving for work for the employed labour force aged 15 years and over with
a usual place of work or no fixed workplace address - 25% sample data - Counts -
Total">  2,645</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2617 geo2021A0011M4S
geo2021A0011M4Sstat1 geo2021A0011M4Sstat1gen1" title="2021A0011M4S - Total -
Time leaving for work for the employed labour force aged 15 years and over with
a usual place of work or no fixed workplace address - 25% sample data - Counts -
Total">  7,385</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2617 geo2021A0011M4T
geo2021A0011M4Tstat1 geo2021A0011M4Tstat1gen1" title="2021A0011M4T - Total -
Time leaving for work for the employed labour force aged 15 years and over with
a usual place of work or no fixed workplace address - 25% sample data - Counts -
Total">  1,920</td>
```

```
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2617 geo2021A0011M4V
geo2021A0011M4Vstat1 geo2021A0011M4Vstat1gen1" title="2021A0011M4V - Total -
Time leaving for work for the employed labour force aged 15 years and over with
a usual place of work or no fixed workplace address - 25% sample data - Counts -
Total">  4,575</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2617 geo2021A0011M5N
geo2021A0011M5Nstat1 geo2021A0011M5Nstat1gen1" title="2021A0011M5N - Total -
Time leaving for work for the employed labour force aged 15 years and over with
a usual place of work or no fixed workplace address - 25% sample data - Counts -
Total">  4,050</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2617 geo2021A0011M5P
geo2021A0011M5Pstat1 geo2021A0011M5Pstat1gen1" title="2021A0011M5P - Total -
Time leaving for work for the employed labour force aged 15 years and over with
a usual place of work or no fixed workplace address - 25% sample data - Counts -
Total">  4,865</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh52 r2617 geo2021A0011M5R
geo2021A0011M5Rstat1 geo2021A0011M5Rstat1gen1" title="2021A0011M5R - Total -
Time leaving for work for the employed labour force aged 15 years and over with
a usual place of work or no fixed workplace address - 25% sample data - Counts -
Total">  6,095</td>
```

[24]:
```python
# Now you can export this to a CSV file for further analysis or visulization
df.to_csv("Central_Toronto_Census_Data.csv", index=False)
```