

education degree, mobility status, after tax income, scarp

November 23, 2024

1 Simple Webscraping Example with BeautifulSoup

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

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

```
[2]: url = "https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/details/
↳page.cfm?
↳Lang=E&SearchText=M1E&DGUIDlist=2021A0011M1E&GENDERlist=1,2,3&STATISTIClist=1,4&HEADERlist=
```

```
[3]: # 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
```

```
[3]: <http.client.HTTPResponse at 0x7ffa2ac3f820>
```

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

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

```
[5]: # 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

```
[6]: # 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"})
```

```
[7]: td
```

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

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

```
[8]: 35642.0
```

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

```
[9]: import urllib.parse as urlparse
      from urllib.parse import urlencode
      import pandas as pd
```

```
[10]: df = pd.read_csv('Toronto_Neighborhoods_with_Coordinates.csv')
      df.head()
```

```
[10]:   Postalcode   Borough   Neighborhood \
0      M1B   Scarborough   Malvern / Rouge
1      M1C   Scarborough   Rouge Hill / Port Union / Highland Creek
2      M1E   Scarborough   Guildwood / Morningside / West Hill
3      M1G   Scarborough   Woburn
4      M1H   Scarborough   Cedarbrae

      Latitude Longitude
0  43.806686 -79.194353
1  43.784535 -79.160497
2  43.763573 -79.188711
3  43.770992 -79.216917
4  43.773136 -79.239476
```

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

      postal = df['Postalcode']
      postal
```

```
[11]: 0      M1B
      1      M1C
      2      M1E
      3      M1G
      4      M1H
      ...
      98     M9N
      99     M9P
      100    M9R
      101    M9V
      102    M9W
      Name: Postalcode, Length: 103, dtype: object
```

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

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

```
[12]: Empty DataFrame
      Columns: [postal_code, data, value]
      Index: []
```

```
[13]: df1 = pd.DataFrame(columns = ['postal_code', 'data', 'value'])
      df1
```

```
[13]: Empty DataFrame
      Columns: [postal_code, data, value]
      Index: []
```

```
[14]: df2 = pd.DataFrame(columns = ['postal_code', 'data', 'value'])
      df2
```

```
[14]: Empty DataFrame
      Columns: [postal_code, data, value]
      Index: []
```

```
[15]: # Loop through each postal code
      # median after tax income
      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_qs(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)}")
if len(tables) == 0:
    print(f"No tables starts with this postal code: {query}. Skipping...")#
↪no table under this postal code
else:
    title = (f"2021A0011{i} - Median after-tax income in 2020 among
↪recipients ($) - Counts - Total")
    td = tables[0].find(attrs={"title": title})
    print(td)
    if td and td.text.strip():
        print(f"Processing value('median after tax income'): {td.text}")
        try:
            value = float(td.text.replace(",", "").strip()) #convert string to
↪the float
        except ValueError:
            # cannot convert, assign it to zero
            print(f"Non-numeric value encountered: {td.text}. Assigning default
↪value 0.")
            value = 0.0
        else:
            # cannot find, assign it to zero
            print(f"Skipping: No valid data found for title '{title}'. Assigning
↪default value 0.")
            value = 0.0
    df.loc[len(df.index)] = [i, title, value]

```

Number of tables found: 1

```

<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M1B
geo2021A0011M1Bstat1 geo2021A0011M1Bstat1gen1" title="2021A0011M1B - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 31,600</td>
Processing value('median after tax income'): 31,600

```

Number of tables found: 1

```

<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M1C
geo2021A0011M1Cstat1 geo2021A0011M1Cstat1gen1" title="2021A0011M1C - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 39,600</td>
Processing value('median after tax income'): 39,600

```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M1E
geo2021A0011M1Estat1 geo2021A0011M1Estat1gen1" title="2021A0011M1E - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 32,800</td>
Processing value('median after tax income'): 32,800
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M1G
geo2021A0011M1Gstat1 geo2021A0011M1Gstat1gen1" title="2021A0011M1G - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 29,200</td>
Processing value('median after tax income'): 29,200
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M1H
geo2021A0011M1Hstat1 geo2021A0011M1Hstat1gen1" title="2021A0011M1H - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 31,800</td>
Processing value('median after tax income'): 31,800
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M1J
geo2021A0011M1Jstat1 geo2021A0011M1Jstat1gen1" title="2021A0011M1J - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 31,200</td>
Processing value('median after tax income'): 31,200
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M1K
geo2021A0011M1Kstat1 geo2021A0011M1Kstat1gen1" title="2021A0011M1K - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 31,000</td>
Processing value('median after tax income'): 31,000
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M1L
geo2021A0011M1Lstat1 geo2021A0011M1Lstat1gen1" title="2021A0011M1L - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 32,000</td>
Processing value('median after tax income'): 32,000
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M1M
geo2021A0011M1Mstat1 geo2021A0011M1Mstat1gen1" title="2021A0011M1M - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 34,000</td>
Processing value('median after tax income'): 34,000
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M1N
geo2021A0011M1Nstat1 geo2021A0011M1Nstat1gen1" title="2021A0011M1N - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 39,200</td>
Processing value('median after tax income'): 39,200
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M1P
geo2021A0011M1Pstat1 geo2021A0011M1Pstat1gen1" title="2021A0011M1P - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 31,200</td>
Processing value('median after tax income'): 31,200
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M1R
geo2021A0011M1Rstat1 geo2021A0011M1Rstat1gen1" title="2021A0011M1R - Median
```

after-tax income in 2020 among recipients (\$) - Counts - Total"> 32,000</td>
Processing value('median after tax income'): 32,000
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M1S
geo2021A0011M1Sstat1 geo2021A0011M1Sstat1gen1" title="2021A0011M1S - Median
after-tax income in 2020 among recipients (\$) - Counts - Total"> 29,400</td>
Processing value('median after tax income'): 29,400
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M1T
geo2021A0011M1Tstat1 geo2021A0011M1Tstat1gen1" title="2021A0011M1T - Median
after-tax income in 2020 among recipients (\$) - Counts - Total"> 29,800</td>
Processing value('median after tax income'): 29,800
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M1V
geo2021A0011M1Vstat1 geo2021A0011M1Vstat1gen1" title="2021A0011M1V - Median
after-tax income in 2020 among recipients (\$) - Counts - Total"> 27,400</td>
Processing value('median after tax income'): 27,400
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M1W
geo2021A0011M1Wstat1 geo2021A0011M1Wstat1gen1" title="2021A0011M1W - Median
after-tax income in 2020 among recipients (\$) - Counts - Total"> 29,600</td>
Processing value('median after tax income'): 29,600
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M1X
geo2021A0011M1Xstat1 geo2021A0011M1Xstat1gen1" title="2021A0011M1X - Median
after-tax income in 2020 among recipients (\$) - Counts - Total"> 32,000</td>
Processing value('median after tax income'): 32,000
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M2H
geo2021A0011M2Hstat1 geo2021A0011M2Hstat1gen1" title="2021A0011M2H - Median
after-tax income in 2020 among recipients (\$) - Counts - Total"> 32,000</td>
Processing value('median after tax income'): 32,000
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M2J
geo2021A0011M2Jstat1 geo2021A0011M2Jstat1gen1" title="2021A0011M2J - Median
after-tax income in 2020 among recipients (\$) - Counts - Total"> 33,200</td>
Processing value('median after tax income'): 33,200
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M2K
geo2021A0011M2Kstat1 geo2021A0011M2Kstat1gen1" title="2021A0011M2K - Median
after-tax income in 2020 among recipients (\$) - Counts - Total"> 38,400</td>
Processing value('median after tax income'): 38,400
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M2L
geo2021A0011M2Lstat1 geo2021A0011M2Lstat1gen1" title="2021A0011M2L - Median
after-tax income in 2020 among recipients (\$) - Counts - Total"> 41,600</td>
Processing value('median after tax income'): 41,600
Number of tables found: 1

<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M2M
 geo2021A0011M2Mstat1 geo2021A0011M2Mstat1gen1" title="2021A0011M2M - Median
 after-tax income in 2020 among recipients (\$) - Counts - Total"> 31,600</td>
 Processing value('median after tax income'): 31,600
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M2N
 geo2021A0011M2Nstat1 geo2021A0011M2Nstat1gen1" title="2021A0011M2N - Median
 after-tax income in 2020 among recipients (\$) - Counts - Total"> 36,400</td>
 Processing value('median after tax income'): 36,400
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M2P
 geo2021A0011M2Pstat1 geo2021A0011M2Pstat1gen1" title="2021A0011M2P - Median
 after-tax income in 2020 among recipients (\$) - Counts - Total"> 44,400</td>
 Processing value('median after tax income'): 44,400
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M2R
 geo2021A0011M2Rstat1 geo2021A0011M2Rstat1gen1" title="2021A0011M2R - Median
 after-tax income in 2020 among recipients (\$) - Counts - Total"> 31,400</td>
 Processing value('median after tax income'): 31,400
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M3A
 geo2021A0011M3Astat1 geo2021A0011M3Astat1gen1" title="2021A0011M3A - Median
 after-tax income in 2020 among recipients (\$) - Counts - Total"> 34,400</td>
 Processing value('median after tax income'): 34,400
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M3B
 geo2021A0011M3Bstat1 geo2021A0011M3Bstat1gen1" title="2021A0011M3B - Median
 after-tax income in 2020 among recipients (\$) - Counts - Total"> 44,800</td>
 Processing value('median after tax income'): 44,800
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M3C
 geo2021A0011M3Cstat1 geo2021A0011M3Cstat1gen1" title="2021A0011M3C - Median
 after-tax income in 2020 among recipients (\$) - Counts - Total"> 32,800</td>
 Processing value('median after tax income'): 32,800
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M3H
 geo2021A0011M3Hstat1 geo2021A0011M3Hstat1gen1" title="2021A0011M3H - Median
 after-tax income in 2020 among recipients (\$) - Counts - Total"> 36,800</td>
 Processing value('median after tax income'): 36,800
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M3J
 geo2021A0011M3Jstat1 geo2021A0011M3Jstat1gen1" title="2021A0011M3J - Median
 after-tax income in 2020 among recipients (\$) - Counts - Total"> 30,600</td>
 Processing value('median after tax income'): 30,600
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M3K
 geo2021A0011M3Kstat1 geo2021A0011M3Kstat1gen1" title="2021A0011M3K - Median
 after-tax income in 2020 among recipients (\$) - Counts - Total"> 35,600</td>

Processing value('median after tax income'): 35,600
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M3L
geo2021A0011M3Lstat1 geo2021A0011M3Lstat1gen1" title="2021A0011M3L - Median
after-tax income in 2020 among recipients (\$) - Counts - Total"> 30,600</td>
Processing value('median after tax income'): 30,600
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M3M
geo2021A0011M3Mstat1 geo2021A0011M3Mstat1gen1" title="2021A0011M3M - Median
after-tax income in 2020 among recipients (\$) - Counts - Total"> 32,400</td>
Processing value('median after tax income'): 32,400
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M3N
geo2021A0011M3Nstat1 geo2021A0011M3Nstat1gen1" title="2021A0011M3N - Median
after-tax income in 2020 among recipients (\$) - Counts - Total"> 28,400</td>
Processing value('median after tax income'): 28,400
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M4A
geo2021A0011M4Astat1 geo2021A0011M4Astat1gen1" title="2021A0011M4A - Median
after-tax income in 2020 among recipients (\$) - Counts - Total"> 32,400</td>
Processing value('median after tax income'): 32,400
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M4B
geo2021A0011M4Bstat1 geo2021A0011M4Bstat1gen1" title="2021A0011M4B - Median
after-tax income in 2020 among recipients (\$) - Counts - Total"> 35,200</td>
Processing value('median after tax income'): 35,200
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M4C
geo2021A0011M4Cstat1 geo2021A0011M4Cstat1gen1" title="2021A0011M4C - Median
after-tax income in 2020 among recipients (\$) - Counts - Total"> 36,400</td>
Processing value('median after tax income'): 36,400
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M4E
geo2021A0011M4Estat1 geo2021A0011M4Estat1gen1" title="2021A0011M4E - Median
after-tax income in 2020 among recipients (\$) - Counts - Total"> 48,800</td>
Processing value('median after tax income'): 48,800
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M4G
geo2021A0011M4Gstat1 geo2021A0011M4Gstat1gen1" title="2021A0011M4G - Median
after-tax income in 2020 among recipients (\$) - Counts - Total"> 54,000</td>
Processing value('median after tax income'): 54,000
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M4H
geo2021A0011M4Hstat1 geo2021A0011M4Hstat1gen1" title="2021A0011M4H - Median
after-tax income in 2020 among recipients (\$) - Counts - Total"> 27,000</td>
Processing value('median after tax income'): 27,000
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M4J

geo2021A0011M4Jstat1 geo2021A0011M4Jstat1gen1" title="2021A0011M4J - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 39,200</td>
Processing value('median after tax income'): 39,200
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M4K
geo2021A0011M4Kstat1 geo2021A0011M4Kstat1gen1" title="2021A0011M4K - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 40,400</td>
Processing value('median after tax income'): 40,400
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M4L
geo2021A0011M4Lstat1 geo2021A0011M4Lstat1gen1" title="2021A0011M4L - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 45,200</td>
Processing value('median after tax income'): 45,200
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M4M
geo2021A0011M4Mstat1 geo2021A0011M4Mstat1gen1" title="2021A0011M4M - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 43,600</td>
Processing value('median after tax income'): 43,600
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M4N
geo2021A0011M4Nstat1 geo2021A0011M4Nstat1gen1" title="2021A0011M4N - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 54,400</td>
Processing value('median after tax income'): 54,400
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M4P
geo2021A0011M4Pstat1 geo2021A0011M4Pstat1gen1" title="2021A0011M4P - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 42,400</td>
Processing value('median after tax income'): 42,400
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M4R
geo2021A0011M4Rstat1 geo2021A0011M4Rstat1gen1" title="2021A0011M4R - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 49,600</td>
Processing value('median after tax income'): 49,600
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M4S
geo2021A0011M4Sstat1 geo2021A0011M4Sstat1gen1" title="2021A0011M4S - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 47,600</td>
Processing value('median after tax income'): 47,600
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M4T
geo2021A0011M4Tstat1 geo2021A0011M4Tstat1gen1" title="2021A0011M4T - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 56,400</td>
Processing value('median after tax income'): 56,400
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M4V
geo2021A0011M4Vstat1 geo2021A0011M4Vstat1gen1" title="2021A0011M4V - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 52,800</td>
Processing value('median after tax income'): 52,800

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M4W
geo2021A0011M4Wstat1 geo2021A0011M4Wstat1gen1" title="2021A0011M4W - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 52,000</td>
Processing value('median after tax income'): 52,000
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M4X
geo2021A0011M4Xstat1 geo2021A0011M4Xstat1gen1" title="2021A0011M4X - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 31,600</td>
Processing value('median after tax income'): 31,600
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M4Y
geo2021A0011M4Ystat1 geo2021A0011M4Ystat1gen1" title="2021A0011M4Y - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 39,200</td>
Processing value('median after tax income'): 39,200
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M5A
geo2021A0011M5Astat1 geo2021A0011M5Astat1gen1" title="2021A0011M5A - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 39,200</td>
Processing value('median after tax income'): 39,200
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M5B
geo2021A0011M5Bstat1 geo2021A0011M5Bstat1gen1" title="2021A0011M5B - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 35,200</td>
Processing value('median after tax income'): 35,200
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M5C
geo2021A0011M5Cstat1 geo2021A0011M5Cstat1gen1" title="2021A0011M5C - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 51,600</td>
Processing value('median after tax income'): 51,600
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M5E
geo2021A0011M5Estat1 geo2021A0011M5Estat1gen1" title="2021A0011M5E - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 56,800</td>
Processing value('median after tax income'): 56,800
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M5G
geo2021A0011M5Gstat1 geo2021A0011M5Gstat1gen1" title="2021A0011M5G - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 40,000</td>
Processing value('median after tax income'): 40,000
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M5H
geo2021A0011M5Hstat1 geo2021A0011M5Hstat1gen1" title="2021A0011M5H - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 52,000</td>
Processing value('median after tax income'): 52,000
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M5J
geo2021A0011M5Jstat1 geo2021A0011M5Jstat1gen1" title="2021A0011M5J - Median
```

after-tax income in 2020 among recipients (\$) - Counts - Total"> 54,000</td>
Processing value('median after tax income'): 54,000
Number of tables found: 0
No tables starts with this postal code: <https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/details/page.cfm?Lang=E&SearchText=M5K&DGUIDlist=2021A0011M5K>.
Skipping...
Processing value('median after tax income'): 54,000
Number of tables found: 0
No tables starts with this postal code: <https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/details/page.cfm?Lang=E&SearchText=M5L&DGUIDlist=2021A0011M5L>.
Skipping...
Processing value('median after tax income'): 54,000
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M5M geo2021A0011M5Mstat1 geo2021A0011M5Mstat1gen1" title="2021A0011M5M - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 52,400</td>
Processing value('median after tax income'): 52,400
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M5N geo2021A0011M5Nstat1 geo2021A0011M5Nstat1gen1" title="2021A0011M5N - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 44,400</td>
Processing value('median after tax income'): 44,400
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M5P geo2021A0011M5Pstat1 geo2021A0011M5Pstat1gen1" title="2021A0011M5P - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 48,800</td>
Processing value('median after tax income'): 48,800
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M5R geo2021A0011M5Rstat1 geo2021A0011M5Rstat1gen1" title="2021A0011M5R - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 46,400</td>
Processing value('median after tax income'): 46,400
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M5S geo2021A0011M5Sstat1 geo2021A0011M5Sstat1gen1" title="2021A0011M5S - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 38,400</td>
Processing value('median after tax income'): 38,400
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M5T geo2021A0011M5Tstat1 geo2021A0011M5Tstat1gen1" title="2021A0011M5T - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 29,800</td>
Processing value('median after tax income'): 29,800
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M5V geo2021A0011M5Vstat1 geo2021A0011M5Vstat1gen1" title="2021A0011M5V - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 54,000</td>

Processing value('median after tax income'): 54,000
Number of tables found: 0
No tables starts with this postal code: <https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/details/page.cfm?Lang=E&SearchText=M5W&DGUIDlist=2021A0011M5W>.
Skipping...

Processing value('median after tax income'): 54,000
Number of tables found: 0
No tables starts with this postal code: <https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/details/page.cfm?Lang=E&SearchText=M5X&DGUIDlist=2021A0011M5X>.
Skipping...

Processing value('median after tax income'): 54,000
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M6A geo2021A0011M6Astat1 geo2021A0011M6Astat1gen1" title="2021A0011M6A - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 33,600</td>
Processing value('median after tax income'): 33,600
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M6B geo2021A0011M6Bstat1 geo2021A0011M6Bstat1gen1" title="2021A0011M6B - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 35,200</td>
Processing value('median after tax income'): 35,200
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M6C geo2021A0011M6Cstat1 geo2021A0011M6Cstat1gen1" title="2021A0011M6C - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 40,800</td>
Processing value('median after tax income'): 40,800
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M6E geo2021A0011M6Estat1 geo2021A0011M6Estat1gen1" title="2021A0011M6E - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 34,000</td>
Processing value('median after tax income'): 34,000
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M6G geo2021A0011M6Gstat1 geo2021A0011M6Gstat1gen1" title="2021A0011M6G - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 39,200</td>
Processing value('median after tax income'): 39,200
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M6H geo2021A0011M6Hstat1 geo2021A0011M6Hstat1gen1" title="2021A0011M6H - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 36,400</td>
Processing value('median after tax income'): 36,400
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M6J geo2021A0011M6Jstat1 geo2021A0011M6Jstat1gen1" title="2021A0011M6J - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 41,600</td>
Processing value('median after tax income'): 41,600

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M6K
geo2021A0011M6Kstat1 geo2021A0011M6Kstat1gen1" title="2021A0011M6K - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 38,800</td>
Processing value('median after tax income'): 38,800
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M6L
geo2021A0011M6Lstat1 geo2021A0011M6Lstat1gen1" title="2021A0011M6L - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 31,800</td>
Processing value('median after tax income'): 31,800
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M6M
geo2021A0011M6Mstat1 geo2021A0011M6Mstat1gen1" title="2021A0011M6M - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 31,800</td>
Processing value('median after tax income'): 31,800
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M6N
geo2021A0011M6Nstat1 geo2021A0011M6Nstat1gen1" title="2021A0011M6N - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 32,000</td>
Processing value('median after tax income'): 32,000
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M6P
geo2021A0011M6Pstat1 geo2021A0011M6Pstat1gen1" title="2021A0011M6P - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 42,800</td>
Processing value('median after tax income'): 42,800
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M6R
geo2021A0011M6Rstat1 geo2021A0011M6Rstat1gen1" title="2021A0011M6R - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 46,400</td>
Processing value('median after tax income'): 46,400
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M6S
geo2021A0011M6Sstat1 geo2021A0011M6Sstat1gen1" title="2021A0011M6S - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 49,200</td>
Processing value('median after tax income'): 49,200
```

Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M7A
geo2021A0011M7Astat1 geo2021A0011M7Astat1gen1" title="2021A0011M7A - Median
after-tax income in 2020 among recipients ($) - Counts - Total"><abbr
title="suppressed to meet the confidentiality requirements of the Statistics
Act">x</abbr></td>
Processing value('median after tax income'): x
Non-numeric value encountered: x. Assigning default value 0.
```

Number of tables found: 0

No tables starts with this postal code: <https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/details/page.cfm?Lang=E&SearchText=M7R&DGUIDlist=2021A0011M7R>.

Skipping...

Processing value('median after tax income'): x
Non-numeric value encountered: x. Assigning default value 0.
Number of tables found: 0
No tables starts with this postal code: <https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/details/page.cfm?Lang=E&SearchText=M7Y&DGUIDlist=2021A0011M7Y>.
Skipping...

Processing value('median after tax income'): x
Non-numeric value encountered: x. Assigning default value 0.
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M8V geo2021A0011M8Vstat1 geo2021A0011M8Vstat1gen1" title="2021A0011M8V - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 40,800</td>
Processing value('median after tax income'): 40,800
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M8W geo2021A0011M8Wstat1 geo2021A0011M8Wstat1gen1" title="2021A0011M8W - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 40,800</td>
Processing value('median after tax income'): 40,800
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M8X geo2021A0011M8Xstat1 geo2021A0011M8Xstat1gen1" title="2021A0011M8X - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 56,800</td>
Processing value('median after tax income'): 56,800
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M8Y geo2021A0011M8Ystat1 geo2021A0011M8Ystat1gen1" title="2021A0011M8Y - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 42,800</td>
Processing value('median after tax income'): 42,800
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M8Z geo2021A0011M8Zstat1 geo2021A0011M8Zstat1gen1" title="2021A0011M8Z - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 45,200</td>
Processing value('median after tax income'): 45,200
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M9A geo2021A0011M9Astat1 geo2021A0011M9Astat1gen1" title="2021A0011M9A - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 41,200</td>
Processing value('median after tax income'): 41,200
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M9B geo2021A0011M9Bstat1 geo2021A0011M9Bstat1gen1" title="2021A0011M9B - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 42,000</td>
Processing value('median after tax income'): 42,000
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M9C geo2021A0011M9Cstat1 geo2021A0011M9Cstat1gen1" title="2021A0011M9C - Median after-tax income in 2020 among recipients (\$) - Counts - Total"> 39,200</td>

```

Processing value('median after tax income'): 39,200
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M9L
geo2021A0011M9Lstat1 geo2021A0011M9Lstat1gen1" title="2021A0011M9L - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 29,600</td>
Processing value('median after tax income'): 29,600
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M9M
geo2021A0011M9Mstat1 geo2021A0011M9Mstat1gen1" title="2021A0011M9M - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 32,000</td>
Processing value('median after tax income'): 32,000
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M9N
geo2021A0011M9Nstat1 geo2021A0011M9Nstat1gen1" title="2021A0011M9N - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 33,200</td>
Processing value('median after tax income'): 33,200
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M9P
geo2021A0011M9Pstat1 geo2021A0011M9Pstat1gen1" title="2021A0011M9P - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 37,600</td>
Processing value('median after tax income'): 37,600
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M9R
geo2021A0011M9Rstat1 geo2021A0011M9Rstat1gen1" title="2021A0011M9R - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 33,600</td>
Processing value('median after tax income'): 33,600
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M9V
geo2021A0011M9Vstat1 geo2021A0011M9Vstat1gen1" title="2021A0011M9V - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 29,400</td>
Processing value('median after tax income'): 29,400
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh7 r115 geo2021A0011M9W
geo2021A0011M9Wstat1 geo2021A0011M9Wstat1gen1" title="2021A0011M9W - Median
after-tax income in 2020 among recipients ($) - Counts - Total"> 32,400</td>
Processing value('median after tax income'): 32,400

```

```

[16]: #Bachelor's degree or higher
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_qs(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)}")
if len(tables) == 0:
    print(f"No tables starts with this postal code: {query}. Skipping...")#
↪no table under this postal code
else:
    title = (f"2021A0011{i} - Bachelor's degree or higher - Counts - Total")
    td = tables[0].find(attrs={"title": title})
    print(td)
    if td and td.text.strip():
        print(f"Processing value('Bachelor's degree or higher): {td.text}")
        try:
            value = float(td.text.replace(",", "").strip()) #convert string to
↪the float
        except ValueError:
            # cannot convert, assign it to zero
            print(f"Non-numeric value encountered: {td.text}. Assigning default
↪value 0.")
            value = 0.0
        else:
            # cannot find, assign it to zero
            print(f"Skipping: No valid data found for title '{title}'. Assigning
↪default value 0.")
            value = 0.0
    df1.loc[len(df1.index)] = [i, title, value]

```

Number of tables found: 1

```

<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M1B
geo2021A0011M1Bstat1 geo2021A0011M1Bstat1gen1" title="2021A0011M1B - Bachelor's
degree or higher - Counts - Total"> 14,160</td>

```

Processing value('Bachelor's degree or higher): 14,160

Number of tables found: 1

```

<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M1C
geo2021A0011M1Cstat1 geo2021A0011M1Cstat1gen1" title="2021A0011M1C - Bachelor's
degree or higher - Counts - Total"> 11,150</td>

```

Processing value('Bachelor's degree or higher): 11,150

Number of tables found: 1

<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M1E
 geo2021A0011M1Estat1 geo2021A0011M1Estat1gen1" title="2021A0011M1E - Bachelor's
 degree or higher - Counts - Total"> 11,120</td>
 Processing value('Bachelor's degree or higher): 11,120
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M1G
 geo2021A0011M1Gstat1 geo2021A0011M1Gstat1gen1" title="2021A0011M1G - Bachelor's
 degree or higher - Counts - Total"> 6,770</td>
 Processing value('Bachelor's degree or higher): 6,770
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M1H
 geo2021A0011M1Hstat1 geo2021A0011M1Hstat1gen1" title="2021A0011M1H - Bachelor's
 degree or higher - Counts - Total"> 6,895</td>
 Processing value('Bachelor's degree or higher): 6,895
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M1J
 geo2021A0011M1Jstat1 geo2021A0011M1Jstat1gen1" title="2021A0011M1J - Bachelor's
 degree or higher - Counts - Total"> 7,690</td>
 Processing value('Bachelor's degree or higher): 7,690
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M1K
 geo2021A0011M1Kstat1 geo2021A0011M1Kstat1gen1" title="2021A0011M1K - Bachelor's
 degree or higher - Counts - Total"> 10,665</td>
 Processing value('Bachelor's degree or higher): 10,665
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M1L
 geo2021A0011M1Lstat1 geo2021A0011M1Lstat1gen1" title="2021A0011M1L - Bachelor's
 degree or higher - Counts - Total"> 9,660</td>
 Processing value('Bachelor's degree or higher): 9,660
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M1M
 geo2021A0011M1Mstat1 geo2021A0011M1Mstat1gen1" title="2021A0011M1M - Bachelor's
 degree or higher - Counts - Total"> 6,700</td>
 Processing value('Bachelor's degree or higher): 6,700
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M1N
 geo2021A0011M1Nstat1 geo2021A0011M1Nstat1gen1" title="2021A0011M1N - Bachelor's
 degree or higher - Counts - Total"> 6,805</td>
 Processing value('Bachelor's degree or higher): 6,805
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M1P
 geo2021A0011M1Pstat1 geo2021A0011M1Pstat1gen1" title="2021A0011M1P - Bachelor's
 degree or higher - Counts - Total"> 11,585</td>
 Processing value('Bachelor's degree or higher): 11,585
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M1R
 geo2021A0011M1Rstat1 geo2021A0011M1Rstat1gen1" title="2021A0011M1R - Bachelor's
 degree or higher - Counts - Total"> 7,100</td>

Processing value('Bachelor's degree or higher): 7,100
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M1S
geo2021A0011M1Sstat1 geo2021A0011M1Sstat1gen1" title="2021A0011M1S - Bachelor's
degree or higher - Counts - Total"> 10,320</td>
Processing value('Bachelor's degree or higher): 10,320
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M1T
geo2021A0011M1Tstat1 geo2021A0011M1Tstat1gen1" title="2021A0011M1T - Bachelor's
degree or higher - Counts - Total"> 9,635</td>
Processing value('Bachelor's degree or higher): 9,635
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M1V
geo2021A0011M1Vstat1 geo2021A0011M1Vstat1gen1" title="2021A0011M1V - Bachelor's
degree or higher - Counts - Total"> 10,700</td>
Processing value('Bachelor's degree or higher): 10,700
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M1W
geo2021A0011M1Wstat1 geo2021A0011M1Wstat1gen1" title="2021A0011M1W - Bachelor's
degree or higher - Counts - Total"> 13,180</td>
Processing value('Bachelor's degree or higher): 13,180
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M1X
geo2021A0011M1Xstat1 geo2021A0011M1Xstat1gen1" title="2021A0011M1X - Bachelor's
degree or higher - Counts - Total"> 3,145</td>
Processing value('Bachelor's degree or higher): 3,145
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M2H
geo2021A0011M2Hstat1 geo2021A0011M2Hstat1gen1" title="2021A0011M2H - Bachelor's
degree or higher - Counts - Total"> 9,520</td>
Processing value('Bachelor's degree or higher): 9,520
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M2J
geo2021A0011M2Jstat1 geo2021A0011M2Jstat1gen1" title="2021A0011M2J - Bachelor's
degree or higher - Counts - Total"> 24,985</td>
Processing value('Bachelor's degree or higher): 24,985
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M2K
geo2021A0011M2Kstat1 geo2021A0011M2Kstat1gen1" title="2021A0011M2K - Bachelor's
degree or higher - Counts - Total"> 13,120</td>
Processing value('Bachelor's degree or higher): 13,120
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M2L
geo2021A0011M2Lstat1 geo2021A0011M2Lstat1gen1" title="2021A0011M2L - Bachelor's
degree or higher - Counts - Total"> 5,250</td>
Processing value('Bachelor's degree or higher): 5,250
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M2M

geo2021A0011M2Mstat1 geo2021A0011M2Mstat1gen1" title="2021A0011M2M - Bachelor's degree or higher - Counts - Total"> 13,715</td>
 Processing value('Bachelor's degree or higher): 13,715
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M2N geo2021A0011M2Nstat1 geo2021A0011M2Nstat1gen1" title="2021A0011M2N - Bachelor's degree or higher - Counts - Total"> 39,350</td>
 Processing value('Bachelor's degree or higher): 39,350
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M2P geo2021A0011M2Pstat1 geo2021A0011M2Pstat1gen1" title="2021A0011M2P - Bachelor's degree or higher - Counts - Total"> 3,810</td>
 Processing value('Bachelor's degree or higher): 3,810
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M2R geo2021A0011M2Rstat1 geo2021A0011M2Rstat1gen1" title="2021A0011M2R - Bachelor's degree or higher - Counts - Total"> 13,725</td>
 Processing value('Bachelor's degree or higher): 13,725
 Number of tables found: 1
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 Processing value('Bachelor's degree or higher): 10,585
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M3B geo2021A0011M3Bstat1 geo2021A0011M3Bstat1gen1" title="2021A0011M3B - Bachelor's degree or higher - Counts - Total"> 6,135</td>
 Processing value('Bachelor's degree or higher): 6,135
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M3C geo2021A0011M3Cstat1 geo2021A0011M3Cstat1gen1" title="2021A0011M3C - Bachelor's degree or higher - Counts - Total"> 12,370</td>
 Processing value('Bachelor's degree or higher): 12,370
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M3H geo2021A0011M3Hstat1 geo2021A0011M3Hstat1gen1" title="2021A0011M3H - Bachelor's degree or higher - Counts - Total"> 13,965</td>
 Processing value('Bachelor's degree or higher): 13,965
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M3J geo2021A0011M3Jstat1 geo2021A0011M3Jstat1gen1" title="2021A0011M3J - Bachelor's degree or higher - Counts - Total"> 6,315</td>
 Processing value('Bachelor's degree or higher): 6,315
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M3K geo2021A0011M3Kstat1 geo2021A0011M3Kstat1gen1" title="2021A0011M3K - Bachelor's degree or higher - Counts - Total"> 1,965</td>
 Processing value('Bachelor's degree or higher): 1,965

Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M3L geo2021A0011M3Lstat1 geo2021A0011M3Lstat1gen1" title="2021A0011M3L - Bachelor's degree or higher - Counts - Total"> 2,380</td>
Processing value('Bachelor's degree or higher): 2,380
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M3M geo2021A0011M3Mstat1 geo2021A0011M3Mstat1gen1" title="2021A0011M3M - Bachelor's degree or higher - Counts - Total"> 3,975</td>
Processing value('Bachelor's degree or higher): 3,975
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M3N geo2021A0011M3Nstat1 geo2021A0011M3Nstat1gen1" title="2021A0011M3N - Bachelor's degree or higher - Counts - Total"> 3,855</td>
Processing value('Bachelor's degree or higher): 3,855
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M4A geo2021A0011M4Astat1 geo2021A0011M4Astat1gen1" title="2021A0011M4A - Bachelor's degree or higher - Counts - Total"> 3,545</td>
Processing value('Bachelor's degree or higher): 3,545
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M4B geo2021A0011M4Bstat1 geo2021A0011M4Bstat1gen1" title="2021A0011M4B - Bachelor's degree or higher - Counts - Total"> 4,395</td>
Processing value('Bachelor's degree or higher): 4,395
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M4C geo2021A0011M4Cstat1 geo2021A0011M4Cstat1gen1" title="2021A0011M4C - Bachelor's degree or higher - Counts - Total"> 15,735</td>
Processing value('Bachelor's degree or higher): 15,735
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M4E geo2021A0011M4Estat1 geo2021A0011M4Estat1gen1" title="2021A0011M4E - Bachelor's degree or higher - Counts - Total"> 11,150</td>
Processing value('Bachelor's degree or higher): 11,150
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M4G geo2021A0011M4Gstat1 geo2021A0011M4Gstat1gen1" title="2021A0011M4G - Bachelor's degree or higher - Counts - Total"> 9,715</td>
Processing value('Bachelor's degree or higher): 9,715
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M4H geo2021A0011M4Hstat1 geo2021A0011M4Hstat1gen1" title="2021A0011M4H - Bachelor's degree or higher - Counts - Total"> 4,280</td>
Processing value('Bachelor's degree or higher): 4,280
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M4J geo2021A0011M4Jstat1 geo2021A0011M4Jstat1gen1" title="2021A0011M4J - Bachelor's

degree or higher - Counts - Total"> 12,370</td>
Processing value('Bachelor's degree or higher): 12,370
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M4K
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degree or higher - Counts - Total"> 12,900</td>
Processing value('Bachelor's degree or higher): 12,900
Number of tables found: 1
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geo2021A0011M4Lstat1 geo2021A0011M4Lstat1gen1" title="2021A0011M4L - Bachelor's
degree or higher - Counts - Total"> 12,225</td>
Processing value('Bachelor's degree or higher): 12,225
Number of tables found: 1
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geo2021A0011M4Mstat1 geo2021A0011M4Mstat1gen1" title="2021A0011M4M - Bachelor's
degree or higher - Counts - Total"> 10,395</td>
Processing value('Bachelor's degree or higher): 10,395
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M4N
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degree or higher - Counts - Total"> 8,035</td>
Processing value('Bachelor's degree or higher): 8,035
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geo2021A0011M4Pstat1 geo2021A0011M4Pstat1gen1" title="2021A0011M4P - Bachelor's
degree or higher - Counts - Total"> 13,115</td>
Processing value('Bachelor's degree or higher): 13,115
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M4R
geo2021A0011M4Rstat1 geo2021A0011M4Rstat1gen1" title="2021A0011M4R - Bachelor's
degree or higher - Counts - Total"> 6,335</td>
Processing value('Bachelor's degree or higher): 6,335
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M4S
geo2021A0011M4Sstat1 geo2021A0011M4Sstat1gen1" title="2021A0011M4S - Bachelor's
degree or higher - Counts - Total"> 16,940</td>
Processing value('Bachelor's degree or higher): 16,940
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M4T
geo2021A0011M4Tstat1 geo2021A0011M4Tstat1gen1" title="2021A0011M4T - Bachelor's
degree or higher - Counts - Total"> 5,880</td>
Processing value('Bachelor's degree or higher): 5,880
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M4V
geo2021A0011M4Vstat1 geo2021A0011M4Vstat1gen1" title="2021A0011M4V - Bachelor's
degree or higher - Counts - Total"> 10,760</td>
Processing value('Bachelor's degree or higher): 10,760
Number of tables found: 1

<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M4W
 geo2021A0011M4Wstat1 geo2021A0011M4Wstat1gen1" title="2021A0011M4W - Bachelor's
 degree or higher - Counts - Total"> 9,360</td>
 Processing value('Bachelor's degree or higher): 9,360
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M4X
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 degree or higher - Counts - Total"> 7,175</td>
 Processing value('Bachelor's degree or higher): 7,175
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 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M4Y
 geo2021A0011M4Ystat1 geo2021A0011M4Ystat1gen1" title="2021A0011M4Y - Bachelor's
 degree or higher - Counts - Total"> 20,815</td>
 Processing value('Bachelor's degree or higher): 20,815
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M5A
 geo2021A0011M5Astat1 geo2021A0011M5Astat1gen1" title="2021A0011M5A - Bachelor's
 degree or higher - Counts - Total"> 21,690</td>
 Processing value('Bachelor's degree or higher): 21,690
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 geo2021A0011M5Bstat1 geo2021A0011M5Bstat1gen1" title="2021A0011M5B - Bachelor's
 degree or higher - Counts - Total"> 9,925</td>
 Processing value('Bachelor's degree or higher): 9,925
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M5C
 geo2021A0011M5Cstat1 geo2021A0011M5Cstat1gen1" title="2021A0011M5C - Bachelor's
 degree or higher - Counts - Total"> 1,770</td>
 Processing value('Bachelor's degree or higher): 1,770
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 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M5E
 geo2021A0011M5Estat1 geo2021A0011M5Estat1gen1" title="2021A0011M5E - Bachelor's
 degree or higher - Counts - Total"> 8,005</td>
 Processing value('Bachelor's degree or higher): 8,005
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M5G
 geo2021A0011M5Gstat1 geo2021A0011M5Gstat1gen1" title="2021A0011M5G - Bachelor's
 degree or higher - Counts - Total"> 6,220</td>
 Processing value('Bachelor's degree or higher): 6,220
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M5H
 geo2021A0011M5Hstat1 geo2021A0011M5Hstat1gen1" title="2021A0011M5H - Bachelor's
 degree or higher - Counts - Total"> 2,270</td>
 Processing value('Bachelor's degree or higher): 2,270
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M5J
 geo2021A0011M5Jstat1 geo2021A0011M5Jstat1gen1" title="2021A0011M5J - Bachelor's
 degree or higher - Counts - Total"> 11,410</td>

Processing value('Bachelor's degree or higher): 11,410
Number of tables found: 0
No tables starts with this postal code: <https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/details/page.cfm?Lang=E&SearchText=M5K&DGUIDlist=2021A0011M5K>.
Skipping...

Processing value('Bachelor's degree or higher): 11,410
Number of tables found: 0
No tables starts with this postal code: <https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/details/page.cfm?Lang=E&SearchText=M5L&DGUIDlist=2021A0011M5L>.
Skipping...

Processing value('Bachelor's degree or higher): 11,410
Number of tables found: 1
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Processing value('Bachelor's degree or higher): 12,470
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M5N geo2021A0011M5Nstat1 geo2021A0011M5Nstat1gen1" title="2021A0011M5N - Bachelor's degree or higher - Counts - Total"> 7,380</td>
Processing value('Bachelor's degree or higher): 7,380
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M5P geo2021A0011M5Pstat1 geo2021A0011M5Pstat1gen1" title="2021A0011M5P - Bachelor's degree or higher - Counts - Total"> 10,595</td>
Processing value('Bachelor's degree or higher): 10,595
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M5R geo2021A0011M5Rstat1 geo2021A0011M5Rstat1gen1" title="2021A0011M5R - Bachelor's degree or higher - Counts - Total"> 14,920</td>
Processing value('Bachelor's degree or higher): 14,920
Number of tables found: 1
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Processing value('Bachelor's degree or higher): 9,500
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M5T geo2021A0011M5Tstat1 geo2021A0011M5Tstat1gen1" title="2021A0011M5T - Bachelor's degree or higher - Counts - Total"> 7,275</td>
Processing value('Bachelor's degree or higher): 7,275
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M5V geo2021A0011M5Vstat1 geo2021A0011M5Vstat1gen1" title="2021A0011M5V - Bachelor's degree or higher - Counts - Total"> 39,245</td>
Processing value('Bachelor's degree or higher): 39,245

Number of tables found: 0
No tables starts with this postal code: <https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/details/page.cfm?Lang=E&SearchText=M5W&DGUIDlist=2021A0011M5W>.
Skipping...
Processing value('Bachelor's degree or higher): 39,245
Number of tables found: 0
No tables starts with this postal code: <https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/details/page.cfm?Lang=E&SearchText=M5X&DGUIDlist=2021A0011M5X>.
Skipping...
Processing value('Bachelor's degree or higher): 39,245
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M6A geo2021A0011M6Astat1 geo2021A0011M6Astat1gen1" title="2021A0011M6A - Bachelor's degree or higher - Counts - Total"> 6,430</td>
Processing value('Bachelor's degree or higher): 6,430
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M6B geo2021A0011M6Bstat1 geo2021A0011M6Bstat1gen1" title="2021A0011M6B - Bachelor's degree or higher - Counts - Total"> 8,685</td>
Processing value('Bachelor's degree or higher): 8,685
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M6C geo2021A0011M6Cstat1 geo2021A0011M6Cstat1gen1" title="2021A0011M6C - Bachelor's degree or higher - Counts - Total"> 10,060</td>
Processing value('Bachelor's degree or higher): 10,060
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M6E geo2021A0011M6Estat1 geo2021A0011M6Estat1gen1" title="2021A0011M6E - Bachelor's degree or higher - Counts - Total"> 8,710</td>
Processing value('Bachelor's degree or higher): 8,710
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M6G geo2021A0011M6Gstat1 geo2021A0011M6Gstat1gen1" title="2021A0011M6G - Bachelor's degree or higher - Counts - Total"> 13,140</td>
Processing value('Bachelor's degree or higher): 13,140
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M6H geo2021A0011M6Hstat1 geo2021A0011M6Hstat1gen1" title="2021A0011M6H - Bachelor's degree or higher - Counts - Total"> 15,515</td>
Processing value('Bachelor's degree or higher): 15,515
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M6J geo2021A0011M6Jstat1 geo2021A0011M6Jstat1gen1" title="2021A0011M6J - Bachelor's degree or higher - Counts - Total"> 14,095</td>
Processing value('Bachelor's degree or higher): 14,095
Number of tables found: 1

<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M6K
 geo2021A0011M6Kstat1 geo2021A0011M6Kstat1gen1" title="2021A0011M6K - Bachelor's
 degree or higher - Counts - Total"> 17,215</td>
 Processing value('Bachelor's degree or higher): 17,215
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M6L
 geo2021A0011M6Lstat1 geo2021A0011M6Lstat1gen1" title="2021A0011M6L - Bachelor's
 degree or higher - Counts - Total"> 3,120</td>
 Processing value('Bachelor's degree or higher): 3,120
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M6M
 geo2021A0011M6Mstat1 geo2021A0011M6Mstat1gen1" title="2021A0011M6M - Bachelor's
 degree or higher - Counts - Total"> 5,825</td>
 Processing value('Bachelor's degree or higher): 5,825
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 geo2021A0011M6Nstat1 geo2021A0011M6Nstat1gen1" title="2021A0011M6N - Bachelor's
 degree or higher - Counts - Total"> 7,190</td>
 Processing value('Bachelor's degree or higher): 7,190
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M6P
 geo2021A0011M6Pstat1 geo2021A0011M6Pstat1gen1" title="2021A0011M6P - Bachelor's
 degree or higher - Counts - Total"> 18,145</td>
 Processing value('Bachelor's degree or higher): 18,145
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M6R
 geo2021A0011M6Rstat1 geo2021A0011M6Rstat1gen1" title="2021A0011M6R - Bachelor's
 degree or higher - Counts - Total"> 9,135</td>
 Processing value('Bachelor's degree or higher): 9,135
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M6S
 geo2021A0011M6Sstat1 geo2021A0011M6Sstat1gen1" title="2021A0011M6S - Bachelor's
 degree or higher - Counts - Total"> 15,230</td>
 Processing value('Bachelor's degree or higher): 15,230
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M7A
 geo2021A0011M7Astat1 geo2021A0011M7Astat1gen1" title="2021A0011M7A - Bachelor's
 degree or higher - Counts - Total"><abbr title="suppressed to meet the
 confidentiality requirements of the Statistics Act">x</abbr></td>
 Processing value('Bachelor's degree or higher): x
 Non-numeric value encountered: x. Assigning default value 0.
 Number of tables found: 0
 No tables starts with this postal code: [https://www12.statcan.gc.ca/census-
 recensement/2021/dp-
 pd/prof/details/page.cfm?Lang=E&SearchText=M7R&DGUIDlist=2021A0011M7R](https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/details/page.cfm?Lang=E&SearchText=M7R&DGUIDlist=2021A0011M7R).
 Skipping...
 Processing value('Bachelor's degree or higher): x
 Non-numeric value encountered: x. Assigning default value 0.

Number of tables found: 0
No tables starts with this postal code: <https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/details/page.cfm?Lang=E&SearchText=M7Y&DGUIDlist=2021A0011M7Y>.
Skipping...

Processing value('Bachelor's degree or higher): x
Non-numeric value encountered: x. Assigning default value 0.

Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M8V geo2021A0011M8Vstat1 geo2021A0011M8Vstat1gen1" title="2021A0011M8V - Bachelor's degree or higher - Counts - Total"> 17,070</td>
Processing value('Bachelor's degree or higher): 17,070

Number of tables found: 1
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Processing value('Bachelor's degree or higher): 6,660

Number of tables found: 1
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Processing value('Bachelor's degree or higher): 5,475

Number of tables found: 1
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Processing value('Bachelor's degree or higher): 8,435

Number of tables found: 1
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Processing value('Bachelor's degree or higher): 6,870

Number of tables found: 1
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Number of tables found: 1
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Processing value('Bachelor's degree or higher): 12,120

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

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<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M9L
geo2021A0011M9Lstat1 geo2021A0011M9Lstat1gen1" title="2021A0011M9L - Bachelor's
degree or higher - Counts - Total"> 1,960</td>
Processing value('Bachelor's degree or higher): 1,960
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geo2021A0011M9Mstat1 geo2021A0011M9Mstat1gen1" title="2021A0011M9M - Bachelor's
degree or higher - Counts - Total"> 4,210</td>
Processing value('Bachelor's degree or higher): 4,210
Number of tables found: 1
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geo2021A0011M9Nstat1 geo2021A0011M9Nstat1gen1" title="2021A0011M9N - Bachelor's
degree or higher - Counts - Total"> 4,015</td>
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Number of tables found: 1
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degree or higher - Counts - Total"> 5,210</td>
Processing value('Bachelor's degree or higher): 5,210
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M9R
geo2021A0011M9Rstat1 geo2021A0011M9Rstat1gen1" title="2021A0011M9R - Bachelor's
degree or higher - Counts - Total"> 7,610</td>
Processing value('Bachelor's degree or higher): 7,610
Number of tables found: 1
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geo2021A0011M9Vstat1 geo2021A0011M9Vstat1gen1" title="2021A0011M9V - Bachelor's
degree or higher - Counts - Total"> 9,715</td>
Processing value('Bachelor's degree or higher): 9,715
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh37 r2008 geo2021A0011M9W
geo2021A0011M9Wstat1 geo2021A0011M9Wstat1gen1" title="2021A0011M9W - Bachelor's
degree or higher - Counts - Total"> 8,315</td>
Processing value('Bachelor's degree or higher): 8,315

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[16]: # for non-mover, we want to find the neighbour hood with the stable vibe
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_qs(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)}")
if len(tables) == 0:
    print(f"No tables starts with this postal code: {query}. Skipping...")#
↳no table under this postal code
else:
    title = (f"2021A0011{i} - Movers - Counts - Total")
    td = tables[0].find(attrs={"title": title})
    print(td)
if td and td.text.strip():
    print(f"Processing value('Mover'): {td.text}")
    try:
        value = float(td.text.replace(",", "").strip()) #convert string to
↳the float
    except ValueError:
        # cannot convert, assign it to zero
        print(f"Non-numeric value encountered: {td.text}. Assigning default
↳value 0.")
        value = 0.0
    else:
        # cannot find, assign it to zero
        print(f"Skipping: No valid data found for title '{title}'. Assigning
↳default value 0.")
        value = 0.0
    df2.loc[len(df2.index)] = [i, title, value]

```

Number of tables found: 1

```

<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M1B
geo2021A0011M1Bstat1 geo2021A0011M1Bstat1gen1" title="2021A0011M1B - Movers -
Counts - Total"> 5,625</td>

```

Processing value('Mover'): 5,625

Number of tables found: 1

```

<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M1C
geo2021A0011M1Cstat1 geo2021A0011M1Cstat1gen1" title="2021A0011M1C - Movers -
Counts - Total"> 2,535</td>

```

Processing value('Mover'): 2,535

Number of tables found: 1

```

<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M1E
geo2021A0011M1Estat1 geo2021A0011M1Estat1gen1" title="2021A0011M1E - Movers -

```

Counts - Total"> 4,370</td>
Processing value('Mover'): 4,370
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M1G
geo2021A0011M1Gstat1 geo2021A0011M1Gstat1gen1" title="2021A0011M1G - Movers -
Counts - Total"> 2,930</td>
Processing value('Mover'): 2,930
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M1H
geo2021A0011M1Hstat1 geo2021A0011M1Hstat1gen1" title="2021A0011M1H - Movers -
Counts - Total"> 2,835</td>
Processing value('Mover'): 2,835
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M1J
geo2021A0011M1Jstat1 geo2021A0011M1Jstat1gen1" title="2021A0011M1J - Movers -
Counts - Total"> 2,885</td>
Processing value('Mover'): 2,885
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M1K
geo2021A0011M1Kstat1 geo2021A0011M1Kstat1gen1" title="2021A0011M1K - Movers -
Counts - Total"> 4,050</td>
Processing value('Mover'): 4,050
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M1L
geo2021A0011M1Lstat1 geo2021A0011M1Lstat1gen1" title="2021A0011M1L - Movers -
Counts - Total"> 3,385</td>
Processing value('Mover'): 3,385
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M1M
geo2021A0011M1Mstat1 geo2021A0011M1Mstat1gen1" title="2021A0011M1M - Movers -
Counts - Total"> 2,210</td>
Processing value('Mover'): 2,210
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M1N
geo2021A0011M1Nstat1 geo2021A0011M1Nstat1gen1" title="2021A0011M1N - Movers -
Counts - Total"> 2,190</td>
Processing value('Mover'): 2,190
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M1P
geo2021A0011M1Pstat1 geo2021A0011M1Pstat1gen1" title="2021A0011M1P - Movers -
Counts - Total"> 4,425</td>
Processing value('Mover'): 4,425
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M1R
geo2021A0011M1Rstat1 geo2021A0011M1Rstat1gen1" title="2021A0011M1R - Movers -
Counts - Total"> 2,585</td>
Processing value('Mover'): 2,585
Number of tables found: 1

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<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M1S
geo2021A0011M1Sstat1 geo2021A0011M1Sstat1gen1" title="2021A0011M1S - Movers -
Counts - Total"> 4,035</td>
Processing value('Mover'): 4,035
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M1T
geo2021A0011M1Tstat1 geo2021A0011M1Tstat1gen1" title="2021A0011M1T - Movers -
Counts - Total"> 3,330</td>
Processing value('Mover'): 3,330
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M1V
geo2021A0011M1Vstat1 geo2021A0011M1Vstat1gen1" title="2021A0011M1V - Movers -
Counts - Total"> 4,325</td>
Processing value('Mover'): 4,325
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M1W
geo2021A0011M1Wstat1 geo2021A0011M1Wstat1gen1" title="2021A0011M1W - Movers -
Counts - Total"> 4,425</td>
Processing value('Mover'): 4,425
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M1X
geo2021A0011M1Xstat1 geo2021A0011M1Xstat1gen1" title="2021A0011M1X - Movers -
Counts - Total"> 720</td>
Processing value('Mover'): 720
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M2H
geo2021A0011M2Hstat1 geo2021A0011M2Hstat1gen1" title="2021A0011M2H - Movers -
Counts - Total"> 2,350</td>
Processing value('Mover'): 2,350
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M2J
geo2021A0011M2Jstat1 geo2021A0011M2Jstat1gen1" title="2021A0011M2J - Movers -
Counts - Total"> 9,095</td>
Processing value('Mover'): 9,095
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M2K
geo2021A0011M2Kstat1 geo2021A0011M2Kstat1gen1" title="2021A0011M2K - Movers -
Counts - Total"> 4,755</td>
Processing value('Mover'): 4,755
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M2L
geo2021A0011M2Lstat1 geo2021A0011M2Lstat1gen1" title="2021A0011M2L - Movers -
Counts - Total"> 1,045</td>
Processing value('Mover'): 1,045
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M2M
geo2021A0011M2Mstat1 geo2021A0011M2Mstat1gen1" title="2021A0011M2M - Movers -
Counts - Total"> 4,665</td>

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Processing value('Mover'): 4,665
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M2N
geo2021A0011M2Nstat1 geo2021A0011M2Nstat1gen1" title="2021A0011M2N - Movers -
Counts - Total"> 14,470</td>
Processing value('Mover'): 14,470
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M2P
geo2021A0011M2Pstat1 geo2021A0011M2Pstat1gen1" title="2021A0011M2P - Movers -
Counts - Total"> 860</td>
Processing value('Mover'): 860
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M2R
geo2021A0011M2Rstat1 geo2021A0011M2Rstat1gen1" title="2021A0011M2R - Movers -
Counts - Total"> 4,365</td>
Processing value('Mover'): 4,365
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M3A
geo2021A0011M3Astat1 geo2021A0011M3Astat1gen1" title="2021A0011M3A - Movers -
Counts - Total"> 3,155</td>
Processing value('Mover'): 3,155
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M3B
geo2021A0011M3Bstat1 geo2021A0011M3Bstat1gen1" title="2021A0011M3B - Movers -
Counts - Total"> 1,210</td>
Processing value('Mover'): 1,210
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M3C
geo2021A0011M3Cstat1 geo2021A0011M3Cstat1gen1" title="2021A0011M3C - Movers -
Counts - Total"> 4,440</td>
Processing value('Mover'): 4,440
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M3H
geo2021A0011M3Hstat1 geo2021A0011M3Hstat1gen1" title="2021A0011M3H - Movers -
Counts - Total"> 4,830</td>
Processing value('Mover'): 4,830
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M3J
geo2021A0011M3Jstat1 geo2021A0011M3Jstat1gen1" title="2021A0011M3J - Movers -
Counts - Total"> 3,075</td>
Processing value('Mover'): 3,075
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M3K
geo2021A0011M3Kstat1 geo2021A0011M3Kstat1gen1" title="2021A0011M3K - Movers -
Counts - Total"> 1,140</td>
Processing value('Mover'): 1,140
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M3L

geo2021A0011M3Lstat1 geo2021A0011M3Lstat1gen1" title="2021A0011M3L - Movers - Counts - Total"> 1,425</td>
 Processing value('Mover'): 1,425
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M3M geo2021A0011M3Mstat1 geo2021A0011M3Mstat1gen1" title="2021A0011M3M - Movers - Counts - Total"> 1,805</td>
 Processing value('Mover'): 1,805
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M3N geo2021A0011M3Nstat1 geo2021A0011M3Nstat1gen1" title="2021A0011M3N - Movers - Counts - Total"> 2,620</td>
 Processing value('Mover'): 2,620
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M4A geo2021A0011M4Astat1 geo2021A0011M4Astat1gen1" title="2021A0011M4A - Movers - Counts - Total"> 1,305</td>
 Processing value('Mover'): 1,305
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M4B geo2021A0011M4Bstat1 geo2021A0011M4Bstat1gen1" title="2021A0011M4B - Movers - Counts - Total"> 1,720</td>
 Processing value('Mover'): 1,720
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M4C geo2021A0011M4Cstat1 geo2021A0011M4Cstat1gen1" title="2021A0011M4C - Movers - Counts - Total"> 5,220</td>
 Processing value('Mover'): 5,220
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M4E geo2021A0011M4Estat1 geo2021A0011M4Estat1gen1" title="2021A0011M4E - Movers - Counts - Total"> 2,330</td>
 Processing value('Mover'): 2,330
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M4G geo2021A0011M4Gstat1 geo2021A0011M4Gstat1gen1" title="2021A0011M4G - Movers - Counts - Total"> 1,940</td>
 Processing value('Mover'): 1,940
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M4H geo2021A0011M4Hstat1 geo2021A0011M4Hstat1gen1" title="2021A0011M4H - Movers - Counts - Total"> 1,400</td>
 Processing value('Mover'): 1,400
 Number of tables found: 1
 <td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M4J geo2021A0011M4Jstat1 geo2021A0011M4Jstat1gen1" title="2021A0011M4J - Movers - Counts - Total"> 2,895</td>
 Processing value('Mover'): 2,895

Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M4K
geo2021A0011M4Kstat1 geo2021A0011M4Kstat1gen1" title="2021A0011M4K - Movers -
Counts - Total"> 2,990</td>
Processing value('Mover'): 2,990
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M4L
geo2021A0011M4Lstat1 geo2021A0011M4Lstat1gen1" title="2021A0011M4L - Movers -
Counts - Total"> 3,870</td>
Processing value('Mover'): 3,870
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M4M
geo2021A0011M4Mstat1 geo2021A0011M4Mstat1gen1" title="2021A0011M4M - Movers -
Counts - Total"> 3,770</td>
Processing value('Mover'): 3,770
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M4N
geo2021A0011M4Nstat1 geo2021A0011M4Nstat1gen1" title="2021A0011M4N - Movers -
Counts - Total"> 1,715</td>
Processing value('Mover'): 1,715
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M4P
geo2021A0011M4Pstat1 geo2021A0011M4Pstat1gen1" title="2021A0011M4P - Movers -
Counts - Total"> 6,030</td>
Processing value('Mover'): 6,030
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M4R
geo2021A0011M4Rstat1 geo2021A0011M4Rstat1gen1" title="2021A0011M4R - Movers -
Counts - Total"> 1,685</td>
Processing value('Mover'): 1,685
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M4S
geo2021A0011M4Sstat1 geo2021A0011M4Sstat1gen1" title="2021A0011M4S - Movers -
Counts - Total"> 6,900</td>
Processing value('Mover'): 6,900
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M4T
geo2021A0011M4Tstat1 geo2021A0011M4Tstat1gen1" title="2021A0011M4T - Movers -
Counts - Total"> 1,230</td>
Processing value('Mover'): 1,230
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M4V
geo2021A0011M4Vstat1 geo2021A0011M4Vstat1gen1" title="2021A0011M4V - Movers -
Counts - Total"> 2,825</td>
Processing value('Mover'): 2,825
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M4W
geo2021A0011M4Wstat1 geo2021A0011M4Wstat1gen1" title="2021A0011M4W - Movers -

Counts - Total"> 3,045</td>
Processing value('Mover'): 3,045
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M4X
geo2021A0011M4Xstat1 geo2021A0011M4Xstat1gen1" title="2021A0011M4X - Movers -
Counts - Total"> 2,735</td>
Processing value('Mover'): 2,735
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M4Y
geo2021A0011M4Ystat1 geo2021A0011M4Ystat1gen1" title="2021A0011M4Y - Movers -
Counts - Total"> 10,910</td>
Processing value('Mover'): 10,910
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M5A
geo2021A0011M5Astat1 geo2021A0011M5Astat1gen1" title="2021A0011M5A - Movers -
Counts - Total"> 10,250</td>
Processing value('Mover'): 10,250
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M5B
geo2021A0011M5Bstat1 geo2021A0011M5Bstat1gen1" title="2021A0011M5B - Movers -
Counts - Total"> 5,775</td>
Processing value('Mover'): 5,775
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M5C
geo2021A0011M5Cstat1 geo2021A0011M5Cstat1gen1" title="2021A0011M5C - Movers -
Counts - Total"> 730</td>
Processing value('Mover'): 730
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M5E
geo2021A0011M5Estat1 geo2021A0011M5Estat1gen1" title="2021A0011M5E - Movers -
Counts - Total"> 3,885</td>
Processing value('Mover'): 3,885
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M5G
geo2021A0011M5Gstat1 geo2021A0011M5Gstat1gen1" title="2021A0011M5G - Movers -
Counts - Total"> 3,490</td>
Processing value('Mover'): 3,490
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M5H
geo2021A0011M5Hstat1 geo2021A0011M5Hstat1gen1" title="2021A0011M5H - Movers -
Counts - Total"> 1,380</td>
Processing value('Mover'): 1,380
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M5J
geo2021A0011M5Jstat1 geo2021A0011M5Jstat1gen1" title="2021A0011M5J - Movers -
Counts - Total"> 5,150</td>
Processing value('Mover'): 5,150
Number of tables found: 0

No tables starts with this postal code: <https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/details/page.cfm?Lang=E&SearchText=M5K&DGUIDlist=2021A0011M5K>.
 Skipping...

Processing value('Mover'): 5,150
 Number of tables found: 0

No tables starts with this postal code: <https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/details/page.cfm?Lang=E&SearchText=M5L&DGUIDlist=2021A0011M5L>.
 Skipping...

Processing value('Mover'): 5,150
 Number of tables found: 1

<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M5M geo2021A0011M5Mstat1 geo2021A0011M5Mstat1gen1" title="2021A0011M5M - Movers - Counts - Total"> 1,985</td>

Processing value('Mover'): 1,985
 Number of tables found: 1

<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M5N geo2021A0011M5Nstat1 geo2021A0011M5Nstat1gen1" title="2021A0011M5N - Movers - Counts - Total"> 1,650</td>

Processing value('Mover'): 1,650
 Number of tables found: 1

<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M5P geo2021A0011M5Pstat1 geo2021A0011M5Pstat1gen1" title="2021A0011M5P - Movers - Counts - Total"> 2,425</td>

Processing value('Mover'): 2,425
 Number of tables found: 1

<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M5R geo2021A0011M5Rstat1 geo2021A0011M5Rstat1gen1" title="2021A0011M5R - Movers - Counts - Total"> 4,780</td>

Processing value('Mover'): 4,780
 Number of tables found: 1

<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M5S geo2021A0011M5Sstat1 geo2021A0011M5Sstat1gen1" title="2021A0011M5S - Movers - Counts - Total"> 4,880</td>

Processing value('Mover'): 4,880
 Number of tables found: 1

<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M5T geo2021A0011M5Tstat1 geo2021A0011M5Tstat1gen1" title="2021A0011M5T - Movers - Counts - Total"> 3,700</td>

Processing value('Mover'): 3,700
 Number of tables found: 1

<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M5V geo2021A0011M5Vstat1 geo2021A0011M5Vstat1gen1" title="2021A0011M5V - Movers - Counts - Total"> 21,160</td>

Processing value('Mover'): 21,160
 Number of tables found: 0

No tables starts with this postal code: <https://www12.statcan.gc.ca/census->

recensement/2021/dp-
pd/prof/details/page.cfm?Lang=E&SearchText=M5W&DGUIDlist=2021A0011M5W.
Skipping...

Processing value('Mover'): 21,160
Number of tables found: 0
No tables starts with this postal code: [https://www12.statcan.gc.ca/census-
recensement/2021/dp-
pd/prof/details/page.cfm?Lang=E&SearchText=M5X&DGUIDlist=2021A0011M5X](https://www12.statcan.gc.ca/census-recensement/2021/dp-

pd/prof/details/page.cfm?Lang=E&SearchText=M5X&DGUIDlist=2021A0011M5X).
Skipping...

Processing value('Mover'): 21,160
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M6A
geo2021A0011M6Astat1 geo2021A0011M6Astat1gen1" title="2021A0011M6A - Movers -
Counts - Total"> 2,450</td>

Processing value('Mover'): 2,450
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M6B
geo2021A0011M6Bstat1 geo2021A0011M6Bstat1gen1" title="2021A0011M6B - Movers -
Counts - Total"> 2,400</td>

Processing value('Mover'): 2,400
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M6C
geo2021A0011M6Cstat1 geo2021A0011M6Cstat1gen1" title="2021A0011M6C - Movers -
Counts - Total"> 2,150</td>

Processing value('Mover'): 2,150
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M6E
geo2021A0011M6Estat1 geo2021A0011M6Estat1gen1" title="2021A0011M6E - Movers -
Counts - Total"> 3,905</td>

Processing value('Mover'): 3,905
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M6G
geo2021A0011M6Gstat1 geo2021A0011M6Gstat1gen1" title="2021A0011M6G - Movers -
Counts - Total"> 4,330</td>

Processing value('Mover'): 4,330
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M6H
geo2021A0011M6Hstat1 geo2021A0011M6Hstat1gen1" title="2021A0011M6H - Movers -
Counts - Total"> 5,840</td>

Processing value('Mover'): 5,840
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M6J
geo2021A0011M6Jstat1 geo2021A0011M6Jstat1gen1" title="2021A0011M6J - Movers -
Counts - Total"> 5,950</td>

Processing value('Mover'): 5,950
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M6K
geo2021A0011M6Kstat1 geo2021A0011M6Kstat1gen1" title="2021A0011M6K - Movers -

Counts - Total"> 8,955</td>
Processing value('Mover'): 8,955
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M6L
geo2021A0011M6Lstat1 geo2021A0011M6Lstat1gen1" title="2021A0011M6L - Movers -
Counts - Total"> 1,220</td>
Processing value('Mover'): 1,220
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M6M
geo2021A0011M6Mstat1 geo2021A0011M6Mstat1gen1" title="2021A0011M6M - Movers -
Counts - Total"> 3,105</td>
Processing value('Mover'): 3,105
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M6N
geo2021A0011M6Nstat1 geo2021A0011M6Nstat1gen1" title="2021A0011M6N - Movers -
Counts - Total"> 3,080</td>
Processing value('Mover'): 3,080
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M6P
geo2021A0011M6Pstat1 geo2021A0011M6Pstat1gen1" title="2021A0011M6P - Movers -
Counts - Total"> 5,835</td>
Processing value('Mover'): 5,835
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M6R
geo2021A0011M6Rstat1 geo2021A0011M6Rstat1gen1" title="2021A0011M6R - Movers -
Counts - Total"> 2,610</td>
Processing value('Mover'): 2,610
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M6S
geo2021A0011M6Sstat1 geo2021A0011M6Sstat1gen1" title="2021A0011M6S - Movers -
Counts - Total"> 3,190</td>
Processing value('Mover'): 3,190
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M7A
geo2021A0011M7Astat1 geo2021A0011M7Astat1gen1" title="2021A0011M7A - Movers -
Counts - Total"><abbr title="suppressed to meet the confidentiality requirements
of the Statistics Act">x</abbr></td>
Processing value('Mover'): x
Non-numeric value encountered: x. Assigning default value 0.
Number of tables found: 0
No tables starts with this postal code: <https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/details/page.cfm?Lang=E&SearchText=M7R&DGUIDlist=2021A0011M7R>.
Skipping..
Processing value('Mover'): x
Non-numeric value encountered: x. Assigning default value 0.
Number of tables found: 0
No tables starts with this postal code: <https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/details/page.cfm?Lang=E&SearchText=M7R&DGUIDlist=2021A0011M7R>.

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recensement/2021/dp-
pd/prof/details/page.cfm?Lang=E&SearchText=M7Y&DGUIDlist=2021A0011M7Y.
Skipping...
Processing value('Mover'): x
Non-numeric value encountered: x. Assigning default value 0.
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M8V
geo2021A0011M8Vstat1 geo2021A0011M8Vstat1gen1" title="2021A0011M8V - Movers -
Counts - Total"> 6,885</td>
Processing value('Mover'): 6,885
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M8W
geo2021A0011M8Wstat1 geo2021A0011M8Wstat1gen1" title="2021A0011M8W - Movers -
Counts - Total"> 2,290</td>
Processing value('Mover'): 2,290
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M8X
geo2021A0011M8Xstat1 geo2021A0011M8Xstat1gen1" title="2021A0011M8X - Movers -
Counts - Total"> 1,030</td>
Processing value('Mover'): 1,030
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M8Y
geo2021A0011M8Ystat1 geo2021A0011M8Ystat1gen1" title="2021A0011M8Y - Movers -
Counts - Total"> 2,350</td>
Processing value('Mover'): 2,350
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M8Z
geo2021A0011M8Zstat1 geo2021A0011M8Zstat1gen1" title="2021A0011M8Z - Movers -
Counts - Total"> 1,865</td>
Processing value('Mover'): 1,865
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M9A
geo2021A0011M9Astat1 geo2021A0011M9Astat1gen1" title="2021A0011M9A - Movers -
Counts - Total"> 4,525</td>
Processing value('Mover'): 4,525
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M9B
geo2021A0011M9Bstat1 geo2021A0011M9Bstat1gen1" title="2021A0011M9B - Movers -
Counts - Total"> 2,880</td>
Processing value('Mover'): 2,880
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M9C
geo2021A0011M9Cstat1 geo2021A0011M9Cstat1gen1" title="2021A0011M9C - Movers -
Counts - Total"> 3,215</td>
Processing value('Mover'): 3,215
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M9L
geo2021A0011M9Lstat1 geo2021A0011M9Lstat1gen1" title="2021A0011M9L - Movers -

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Counts - Total"> 1,055</td>
Processing value('Mover'): 1,055
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M9M
geo2021A0011M9Mstat1 geo2021A0011M9Mstat1gen1" title="2021A0011M9M - Movers -
Counts - Total"> 1,895</td>
Processing value('Mover'): 1,895
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M9N
geo2021A0011M9Nstat1 geo2021A0011M9Nstat1gen1" title="2021A0011M9N - Movers -
Counts - Total"> 1,870</td>
Processing value('Mover'): 1,870
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M9P
geo2021A0011M9Pstat1 geo2021A0011M9Pstat1gen1" title="2021A0011M9P - Movers -
Counts - Total"> 1,495</td>
Processing value('Mover'): 1,495
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M9R
geo2021A0011M9Rstat1 geo2021A0011M9Rstat1gen1" title="2021A0011M9R - Movers -
Counts - Total"> 2,860</td>
Processing value('Mover'): 2,860
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M9V
geo2021A0011M9Vstat1 geo2021A0011M9Vstat1gen1" title="2021A0011M9V - Movers -
Counts - Total"> 4,480</td>
Processing value('Mover'): 4,480
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh33 r1962 geo2021A0011M9W
geo2021A0011M9Wstat1 geo2021A0011M9Wstat1gen1" title="2021A0011M9W - Movers -
Counts - Total"> 3,165</td>
Processing value('Mover'): 3,165

```

```

[17]: df.head()
dfSort = df.sort_values(by = 'value', ascending = False)
dfSort
unique_df = dfSort.drop_duplicates(subset=["postal_code"], keep="first")# drop_
↳the duplicate postal code
unique_df
unique_df['Score'] = unique_df['value'].rank(ascending=True, method='dense').
↳astype(int)
unique_df

```

```

[17]:   postal_code   data  value \
90      M8X  2021A0011M8X - Median after-tax income in 2020... 56800.0
56      M5E  2021A0011M5E - Median after-tax income in 2020... 56800.0
48      M4T  2021A0011M4T - Median after-tax income in 2020... 56400.0

```

44	M4N	2021A0011M4N - Median after-tax income in 2020...	54400.0
68	M5V	2021A0011M5V - Median after-tax income in 2020...	54000.0
..
14	M1V	2021A0011M1V - Median after-tax income in 2020...	27400.0
39	M4H	2021A0011M4H - Median after-tax income in 2020...	27000.0
87	M7Y	2021A0011M7A - Median after-tax income in 2020...	0.0
86	M7R	2021A0011M7A - Median after-tax income in 2020...	0.0
85	M7A	2021A0011M7A - Median after-tax income in 2020...	0.0

	Score
90	55
56	55
48	54
44	53
68	52
..	...
14	3
39	2
87	1
86	1
85	1

[103 rows x 4 columns]

```
[18]: df1.head()
dfSort1 = df1.sort_values(by = 'value', ascending = False)
dfSort1
unique_df1 = dfSort1.drop_duplicates(subset=["postal_code"], keep="first")#
↳drop the duplicate postal code
unique_df1
unique_df1['Score'] = unique_df1['value'].rank(ascending=True, method='dense').
↳astype(int)
unique_df1
```

```
[18]: postal_code      data      value \
22      M2N 2021A0011M2N - Bachelor's degree or higher - C... 39350.0
68      M5V 2021A0011M5V - Bachelor's degree or higher - C... 39245.0
69      M5W 2021A0011M5V - Bachelor's degree or higher - C... 39245.0
70      M5X 2021A0011M5V - Bachelor's degree or higher - C... 39245.0
18      M2J 2021A0011M2J - Bachelor's degree or higher - C... 24985.0
..      ...
96      M9L 2021A0011M9L - Bachelor's degree or higher - C... 1960.0
55      M5C 2021A0011M5C - Bachelor's degree or higher - C... 1770.0
87      M7Y 2021A0011M7A - Bachelor's degree or higher - C... 0.0
86      M7R 2021A0011M7A - Bachelor's degree or higher - C... 0.0
85      M7A 2021A0011M7A - Bachelor's degree or higher - C... 0.0
```


	Score
22	94
68	93
69	93
70	93
18	92
..	...
96	3
55	2
87	1
86	1
85	1

[103 rows x 4 columns]

```
[19]: df2.head()
dfSort2 = df2.sort_values(by = 'value', ascending = False)
dfSort2
unique_df2 = dfSort2.drop_duplicates(subset=["postal_code"], keep="first")#
↳drop the duplicate postal code
unique_df2
unique_df2['Score'] = unique_df2['value'].rank(ascending=True, method='dense').
↳astype(int)
unique_df2
```

```
[19]: Empty DataFrame
Columns: [postal_code, data, value, Score]
Index: []
```

```
[22]: # Now you can export this to a CSV file for further analysis or visulization
unique_df.to_csv('after tax income sorted value.csv')
unique_df1.to_csv('bachelors degress.csv')
unique_df2.to_csv('movers.csv')
```

```
[ ]:
```

```
[ ]:
```