Introduction
"Hello everyone! In this tutorial, I'll explain you how to download census tract boundaries for Canada. Let's get started!"

Step-by-Step Guide
"First, open your browser and search for *'Canada census boundary download'* on Google. Click on the first link that appears in the search results.

Once the page loads, look for the section called 'Statistical boundaries.' Here, select *'Census Tract'* from the dropdown menu.

Next, find the 'Format' bar and choose *'Shapefile'* as the format. After that, click on *'Continue.'*

A download link will appear. Simply click on it to download the shapefile. The file will be downloaded as a zip file to your computer."

Importing the File into QGIS
"Now let's import the file into QGIS.

1. Open your QGIS application.
2. Go to the top menu and click on *'Layer,'* then hover over *'Add Layer'* and select *'Add Vector Layer.'*
3. In the dialog box that appears, click on *'Browse,'* navigate to the folder where you saved the zip file, and select it.
4. Finally, click *'Add.'*

Your census tract boundaries will now appear on the map in QGIS."

Filtering for Toronto Census Tracts
"The shapefile covers census tracts for several cities and regions. To focus on Toronto:

1. Open the attribute table for the layer by right-clicking on the layer and selecting *'Open Attribute Table.'*
2. If you have a list of Toronto census tracts, click on *'Select Features by Expression.'*
3. In the 'Provider Specific Filter Expression' box, use this template:

```
DGUID in ('2021S05075350128.04', '2021S05075350363.06', ...)
```

4. Click *'Test'* to check your expression, and then click *'OK.'*

Only the census tracts for Toronto will now be selected."

Exporting the Filtered Data as GeoJSON
"Now let's export the filtered data:

1. Right-click on the layer and select *'Export,'* then *'Save Features As.'*
2. In the dialog box:
    - Set the format to *GeoJSON.*
    - Adjust the CRS (coordinate reference system) as needed.
    - Choose a location and file name for the export.
3. Click *'OK'* to save the file.

Your Toronto census tracts are now exported as a GeoJSON file!"

Creating a Polygon Boundary for Your Area
"If you don't have a list of census IDs, here's an alternative:

1. Go to the website *Geojson.io.*
2. Draw a polygon that covers your area of interest.
3. Save the polygon as a GeoJSON file.

Now import the GeoJSON file into QGIS alongside the census shapefile:

1. Click on *'Layer,'* then *'Add Layer,'* and select *'Add Vector Layer.'*
2. Browse to your GeoJSON file and click *'Add.'*

The polygon for your area of interest will now appear on the map."

Selecting Census Tracts by Location
"To filter for your area:

1. Go to the menu and click *'Vector,'* then *'Research Tools,'* and select *'Select by Location.'*
2. In the dialog box:
    - Set *'Select features from'* to your census shapefile.

    - Tick *'Intersect'* and *'Are within'* options.
    - Under *'By comparing to features from,'* choose your GeoJSON polygon.
3. Click *'Run.'*

The census tracts within or overlapping your polygon will now be selected."

Exporting the Filtered Data
"To save the filtered data:

1. Right-click on the modified shapefile in the *'Layers'* section.
2. Select *'Export,'* then *'Save Selected Features As.'*
3. In the dialog box:
    - Set the file format to *GeoJSON.*
    - Adjust the CRS as needed.
    - Set the file name and location.
4. Click *'OK.'*

This will create a file with your desired census boundaries."

Polishing the File in Geojson.io
"Note that some additional census tracts may be included. To remove them:

1. Go back to *Geojson.io* and import your file.
2. Click on any unwanted census tracts and delete them.
3. Once you've finished, save the polished file as GeoJSON."
