**Embedding an interactive map in webpage**

Leaflet: a javascript map plugin ()

<https://leafletjs.com>

**Getting boundary of Canada postal codes as JSON, and put them on map**

Tutorials on Leaflet on how to use GeoJSON file to create data map with Leaflet

<https://leafletjs.com/examples/geojson/>

Case study: displaying postal code areas of Montreal on the map using GeoJSON

<https://www.linkedin.com/pulse/mapping-geojson-polygons-montr%C3%A9al-postal-codes-js-alexandre-sabatier/>

The case study is based on an api that provides the base code to grab GeoJSON data for postal code boundaries from a database (with limited access for non-members) (I use the JQuery version under Javascript)

<https://rapidapi.com/VanitySoft/api/ca-boundaries-io>

from

<https://rapidapi.com/hub>

(this API only provides me a base to work on. In order to pull postal code data in great quantity I have to copy the code, write a for loop myself and run it on XAMPP, a local web hosting platform)

**Result:**

Printed the result to a webpage with JQuery, copy the result, store in a json file, turn into a json array by adding an additional [ ] bracket.

**Ways to handle JSON in MySQL relational database**

store JSON file to mariaDB database with mysql, as well as how to retrieve them

<https://dzone.com/articles/using-json-in-mariadb>

Secondary Source:

MariaDB (the database that i am using) Documentation on GeoJSON

https://mariadb.com/kb/en/geojson/

https://mariadb.com/kb/en/geojson-st\_asgeojson/

<https://mariadb.com/kb/en/st_geomfromgeojson/>

random references

https://techcommunity.microsoft.com/t5/sql-server-blog/loading-geojson-data-into-sql-server/ba-p/384601?advanced=false&collapse\_discussion=true&search\_type=thread

https://learn.microsoft.com/en-us/sql/relational-databases/json/store-json-documents-in-sql-tables?view=sql-server-ver16

<https://stackoverflow.com/questions/52930395/correct-structure-for-a-json-object-with-multiple-values>

**Inserting a large JSON array into database: Auto-generating SQL insert commands with Python**

Idea: pull the desired part from JSON, format a SQL insert command, store to an empty file, copy to sql folder and run

Tutorial on reading JSON file, pulling a specific element from a JSON object, with python

<https://yourblogcoach.com/how-to-extract-data-from-json-file-in-python/>

JSON formatter by the same author (not used for this project by far but might be useful)

<https://yourblogcoach.com/tools/json-formatter/>

write into file with python

<https://www.w3schools.com/python/python_file_write.asp>