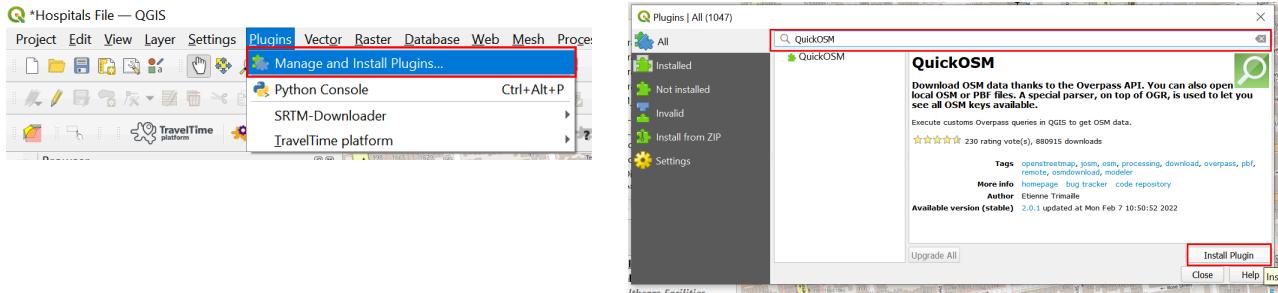


Downloading OpenStreetMap (OSM) Data using QGIS

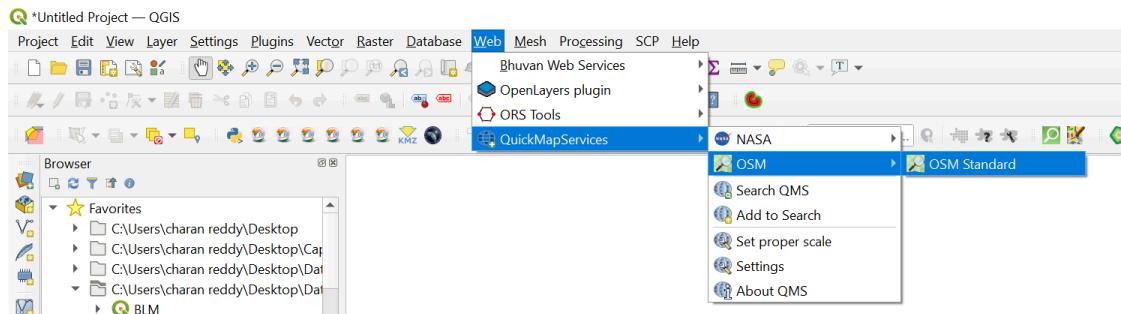
Finding high-quality data is essential for any GIS analysis. One excellent free and openly licensed data resource is [OpenStreetMap \(OSM\)](#). The OSM database consists of streets, local data, and building polygons; data can be downloaded for [free by everyone and used for any purpose](#) – including commercial usage. It is possible to produce maps that highlight specific features, calculate routes, etc. OSM is increasingly used; it can be quickly and easily accessible using QGIS. In this tutorial, we will extract the hospitals and facilities in the San Francisco area using OSM. This tutorial explains the process for searching, downloading, and using OSM data in QGIS.

Downloading OSM Data

- Once you've opened the **QGIS desktop** select the **new empty project**.
- Click on **plugins** and select **Manage and install Plugins**; a window pops up; type **QUICK OSM** in the **search bar** and **install** the plugin.

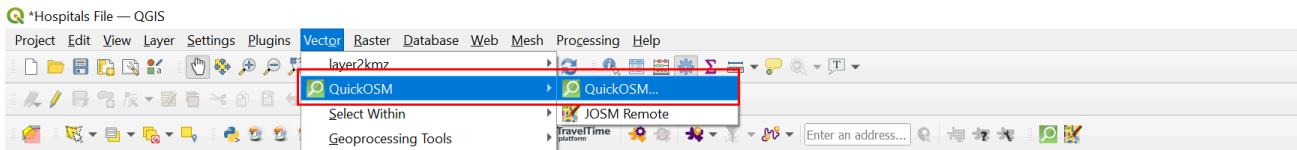


- Click on **Web** and hover through **quick map services** and select **OSM standard**. This will add OSM as the background layer, **navigate to San Francisco city** by zooming in and make sure the city boundaries are visible in the frame.



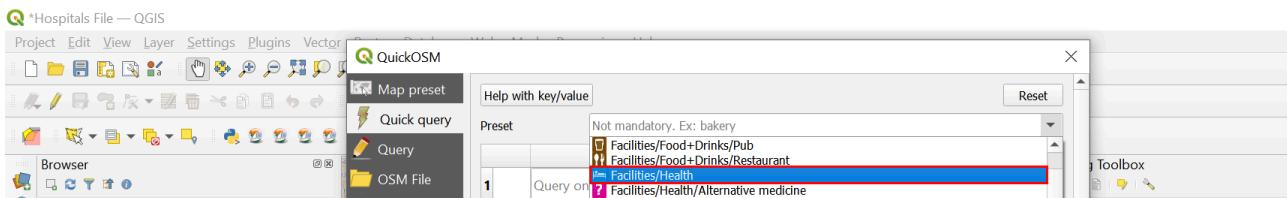
- Once the installation is complete, you will find it under the **vector** in the menu bar and open the **Quick OSM** tool.

Downloading OpenStreetMap (OSM) Data using QGIS

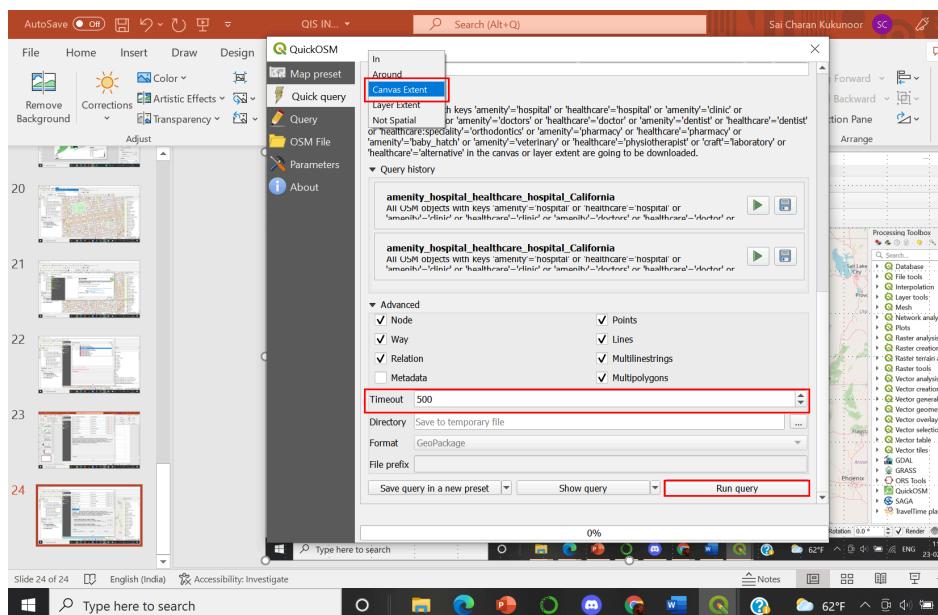


5. You have two options to query data from the OSM data
 - a) Predefined Query
 - b) Build your own query.

We will be using a predefined query to extract health facility data for this exercise. In **Quick query**, use the **preset** scroll to choose **Facilities/Health**.



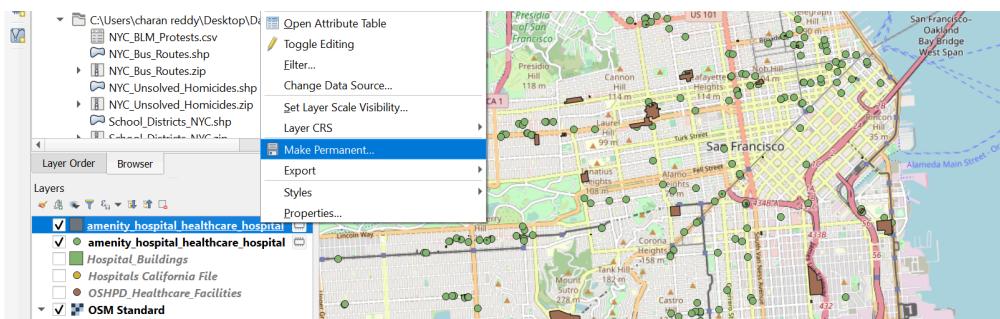
6. In the **IN** column, click on it and select **canvas extent** (* Note try to keep the canvas extent precise to the required area, or you can use an existing boundary layer already in the project). A larger area might lead to a **Maximum query limit error**.
7. To avoid this error, select the maximum scale of a city and change the **Timeout** in advanced



options to the maximum, which is **2000 seconds**.

Downloading OpenStreetMap (OSM) Data using QGIS

8. Click on the **Run query**, and it would take a few seconds to finish the query and load the temporary Polygon and point layers related to health facilities.
9. Currently, both the Polygon and point layers related to health facilities are temporary. To make them permanent **right click on the layer** and select **Make the layer permanent**.



For more information visit the OSM [website](#).