




ICIMOD

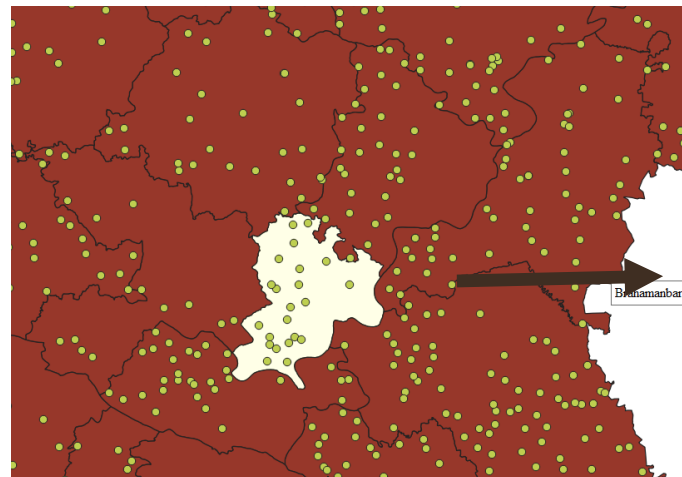
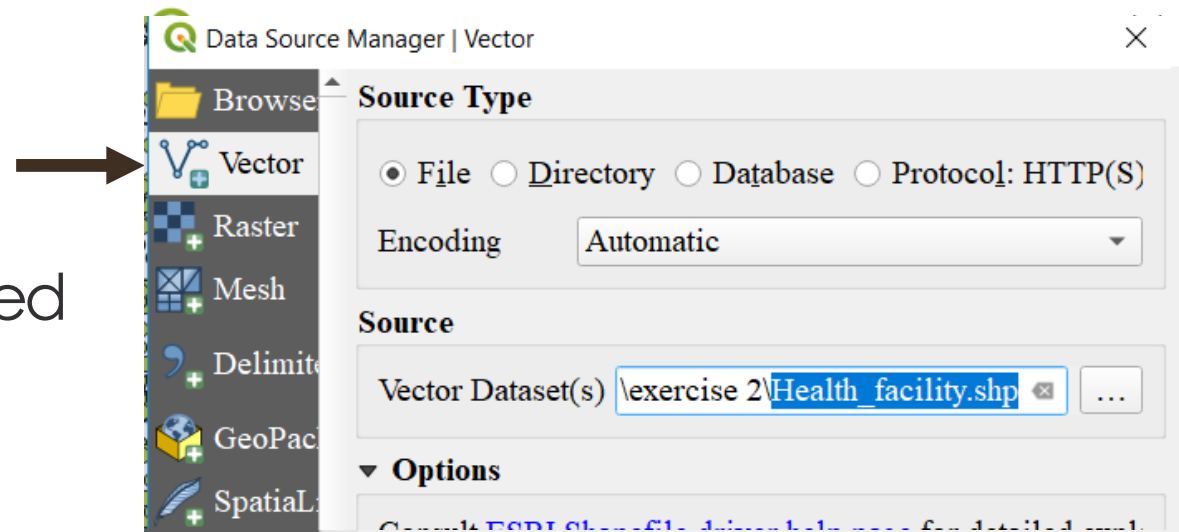
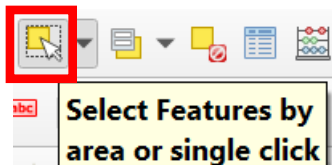
Empowering Women in Geospatial Information Technology

Poonam Tripathi

Exploring geo-processing tools

Exploring geo-processing tools (Clip)

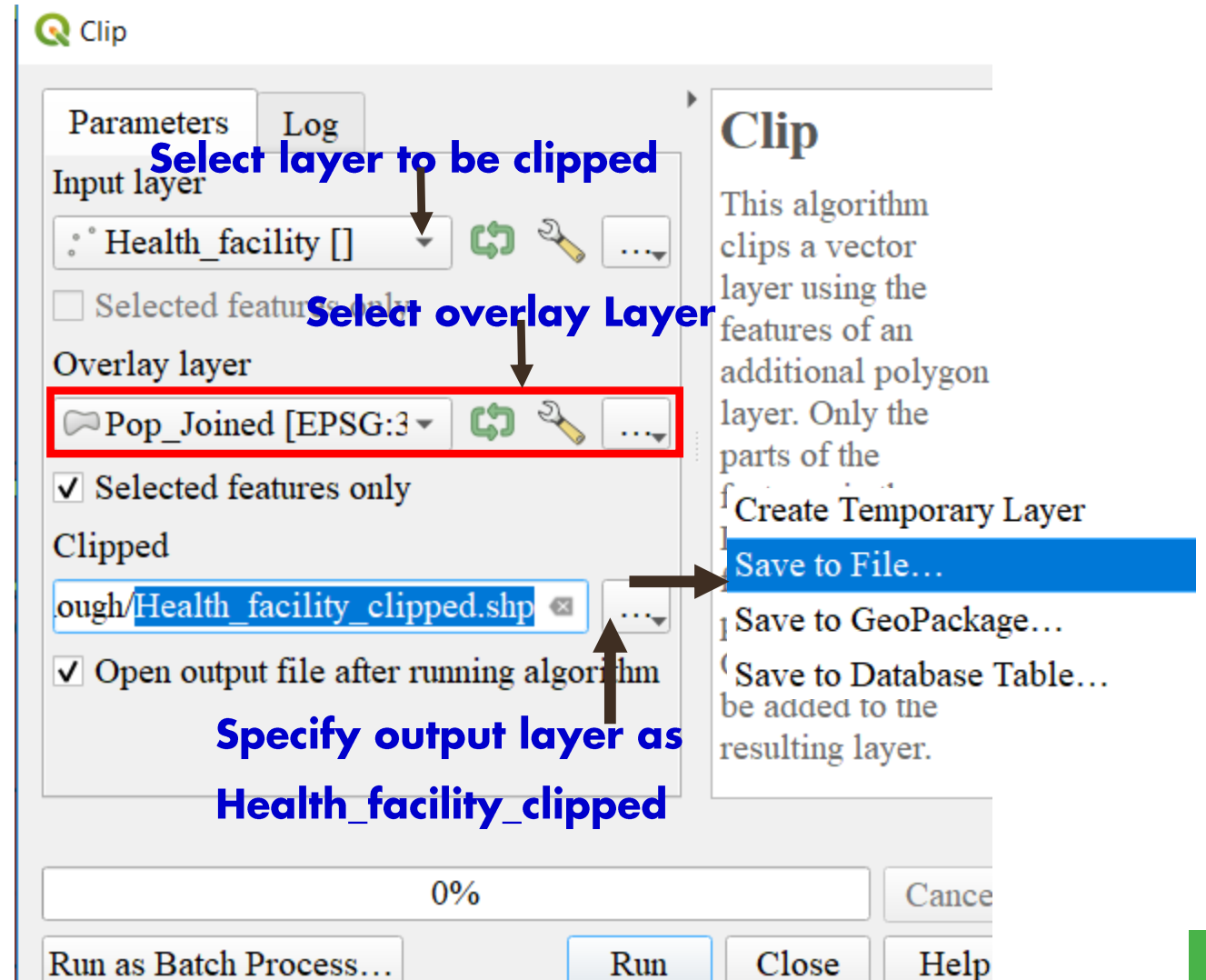
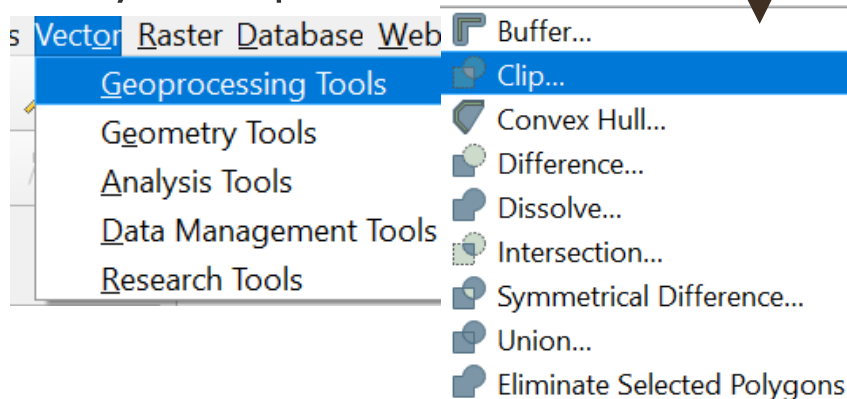
- Click  -> **Vector**
- Add **Pop_Joined.shp** you created
- Add **Health_facility.shp** from the folder **Day 1 \exercise 2**
- Select any district of the **Pop_Joined.shp** by clicking on the icon **Select Features by area** or single click from the menu toolbar



Selected district in yellow color

Exploring geo-processing tools (Clip)

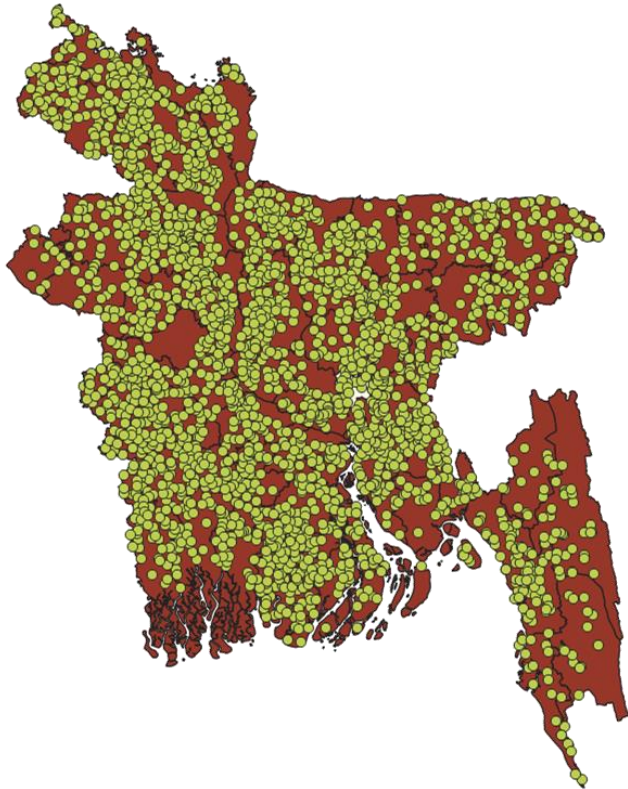
- From the Menu toolbar click on **Vector-> Geoprocessing Tools-> Clip**
- A Clip window opens
- Specify the parameters



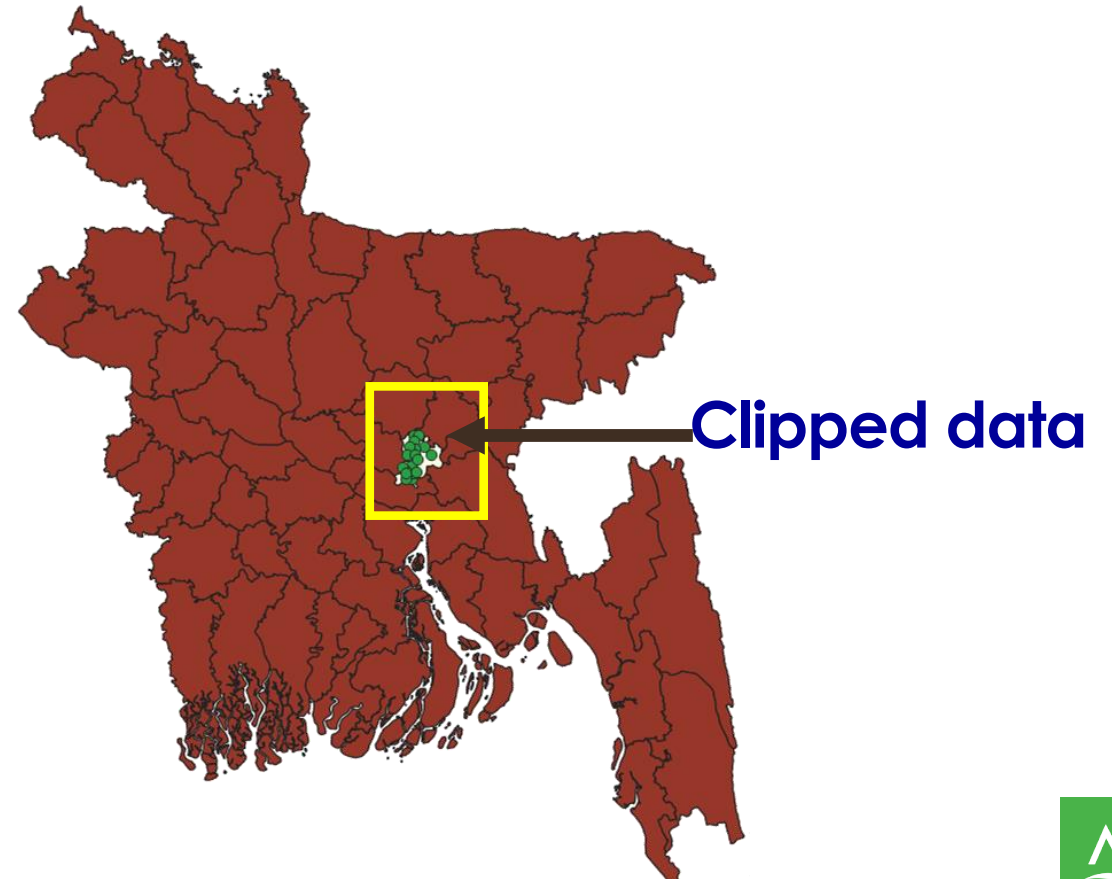
Exploring geo-processing tools (Clip)

Before

Clipped Health facility data (Point)



After

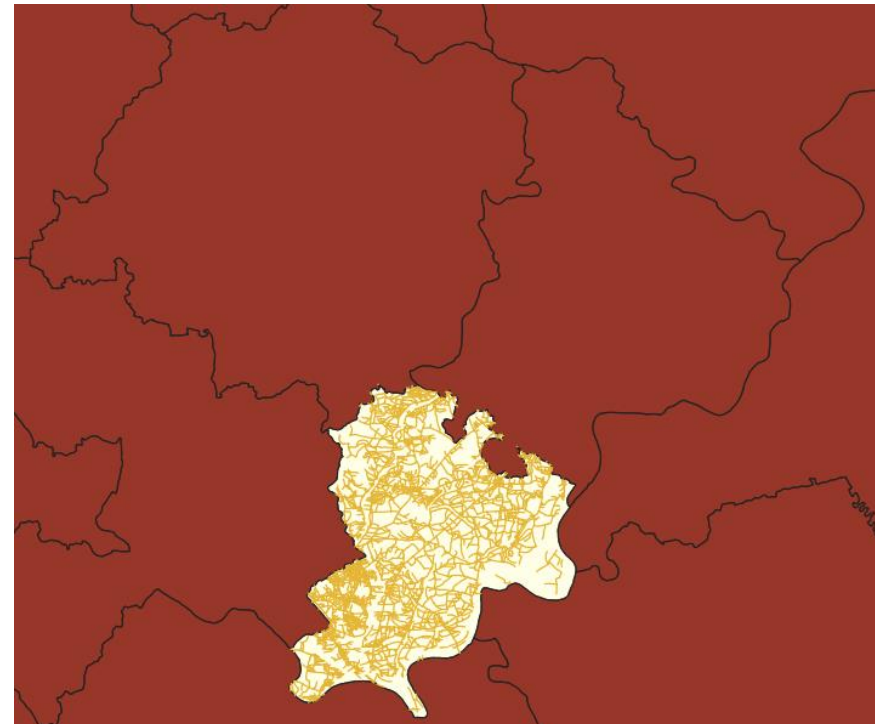
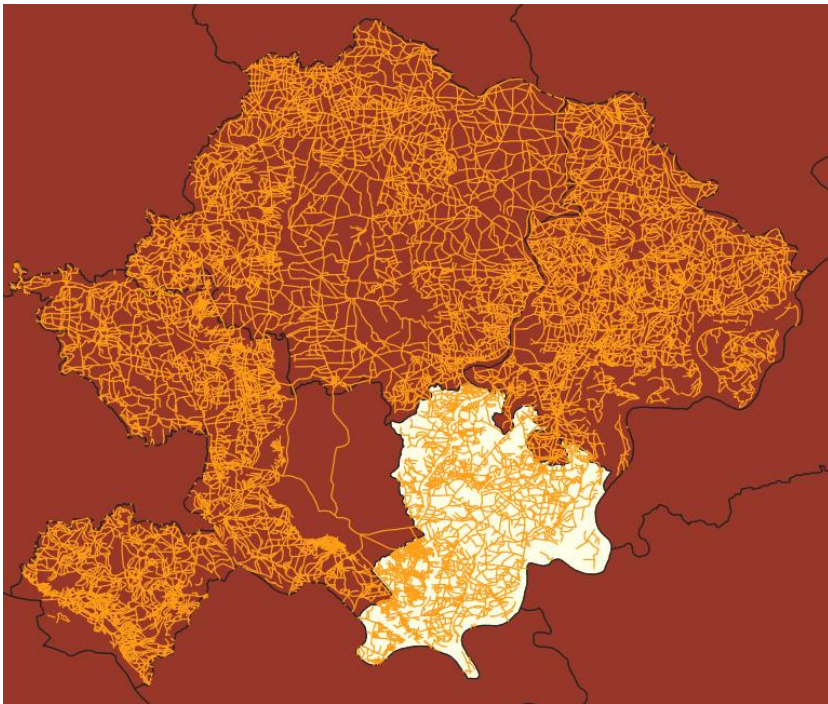


Exploring geo-processing tools (Clip)

Before

After

Clipped Road data (Line)

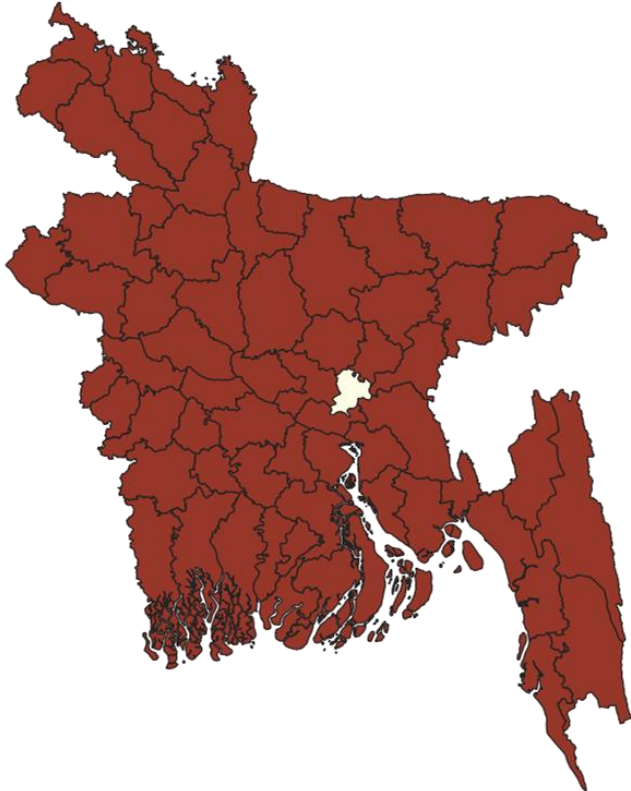


Exploring geo-processing tools (Clip)

Before

After

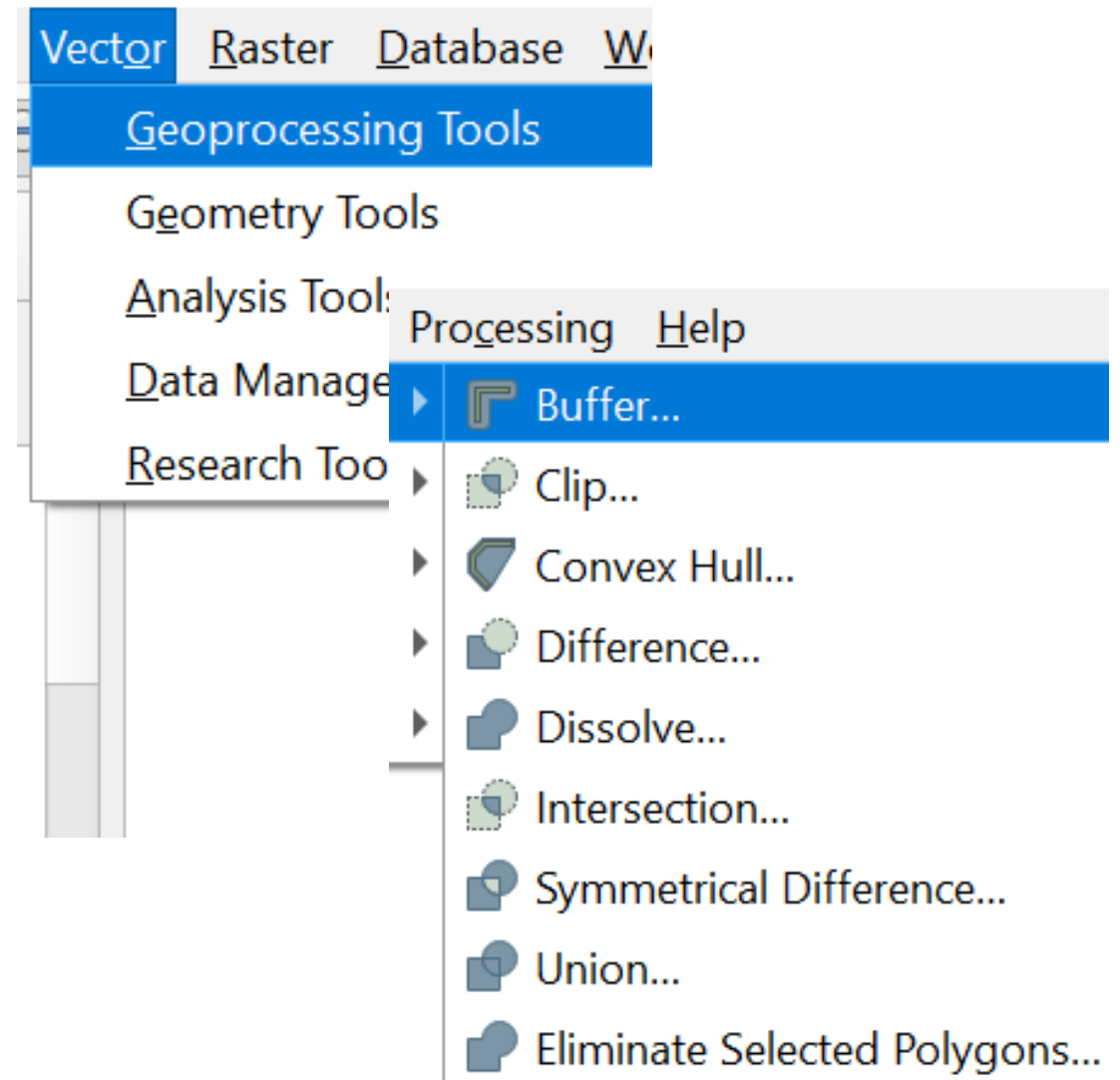
Clipped District data (Polygon)



Exploring geo-processing tools

Buffer Tool

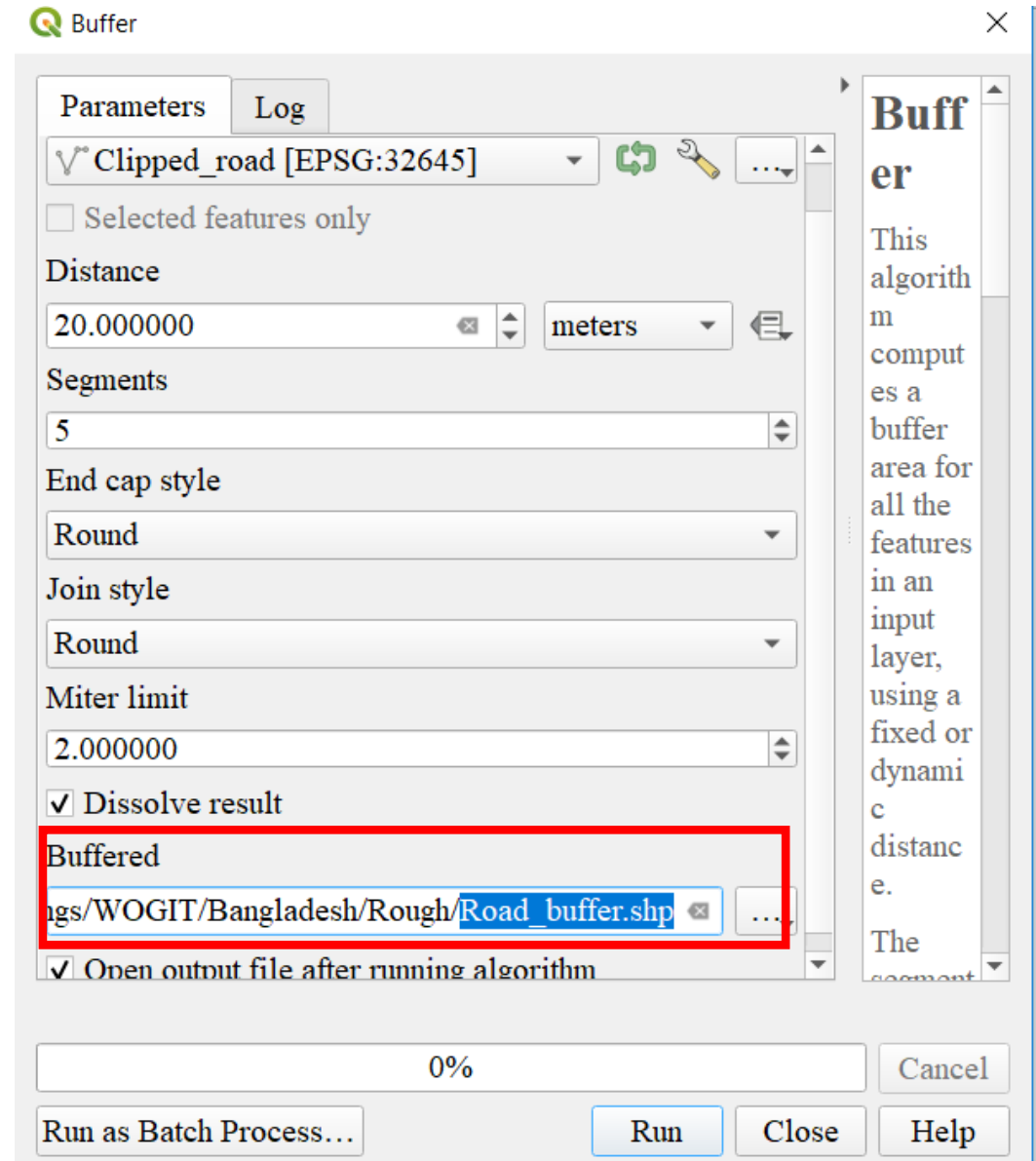
- Open the clipped shapefile
i.e. **clipped_road.shp** on the
QGIS window
- Click **Vector->Geoprocessing
Tools-> Buffer**



Exploring geo-processing tools

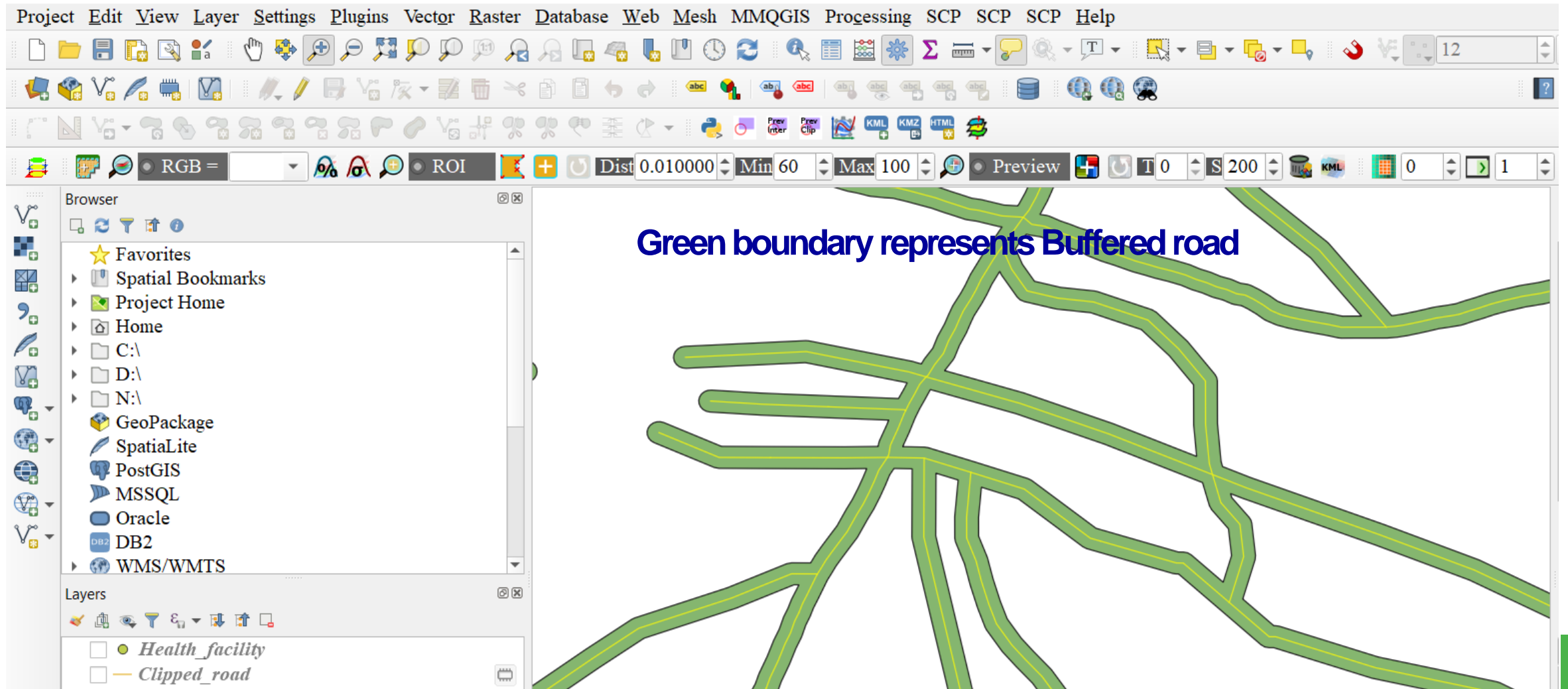
Buffer Tool

- Select the input layer
- Enter the distance limit
- Drop down the **Buffered** menu and **save to file** as **Road_buffer**



Exploring geo-processing tools

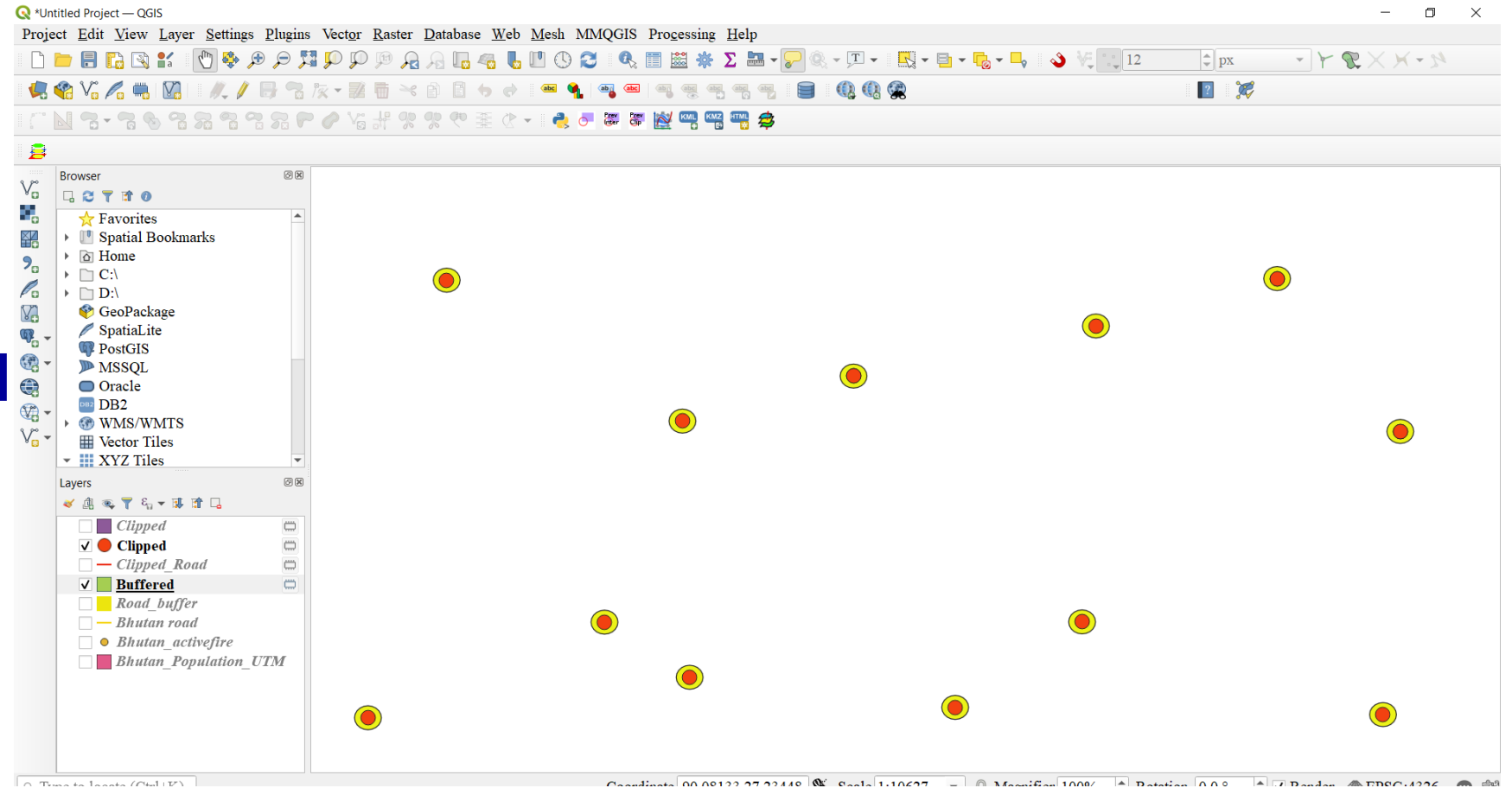
Buffer Tool



Exploring geo-processing tools

Buffer Tool

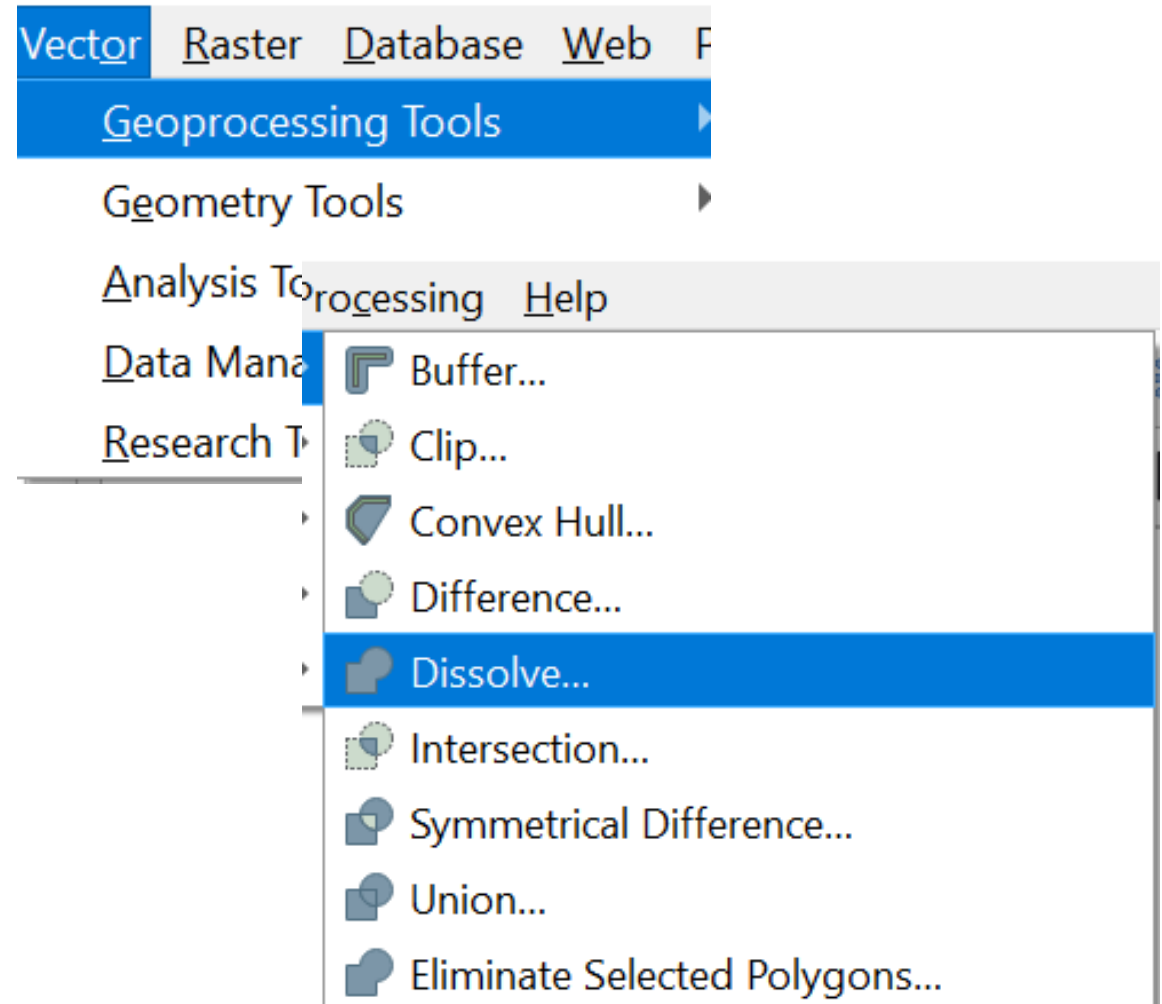
Yellow boundary
represents Buffered
points



Exploring geo-processing tools

Dissolve Tool

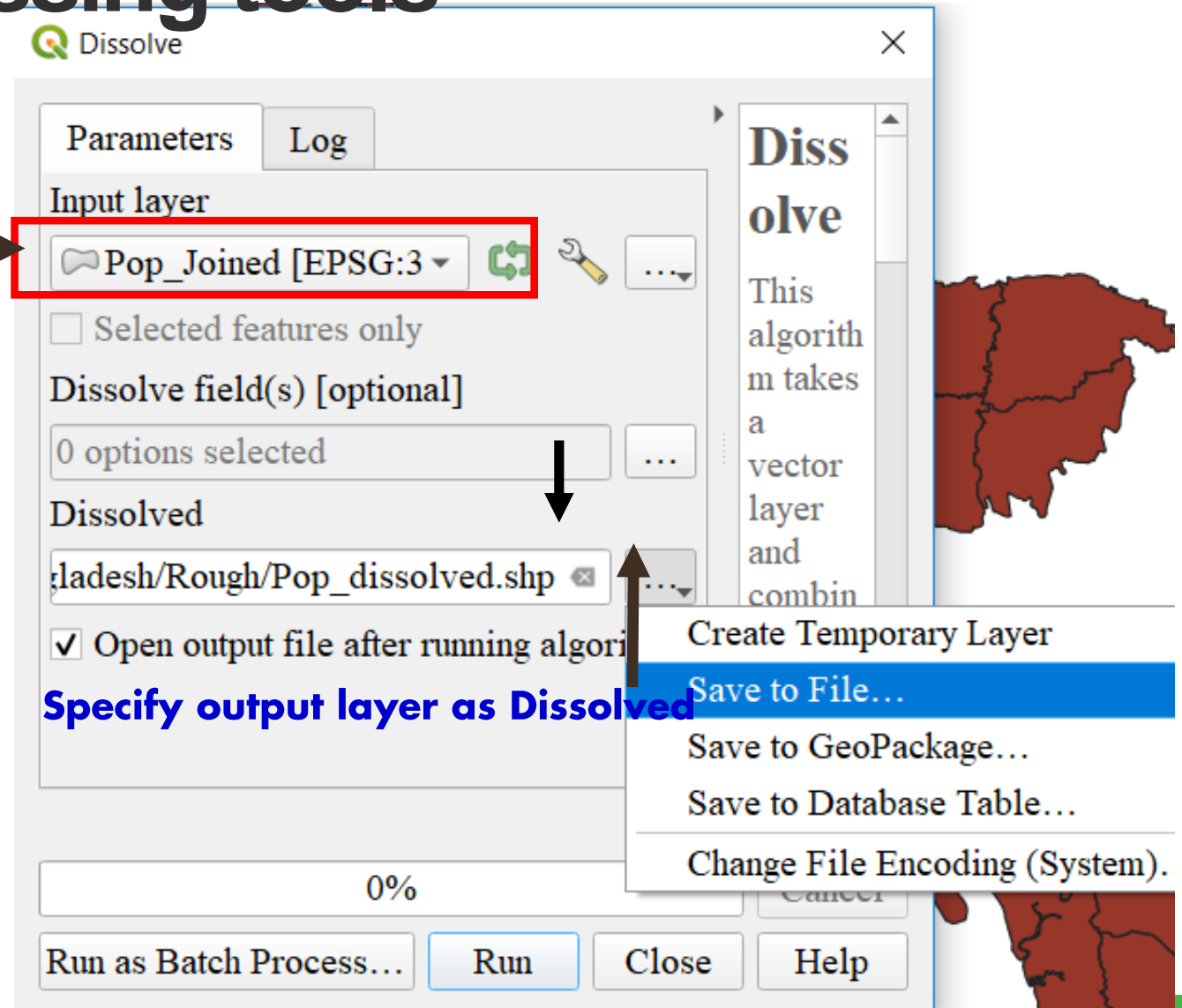
- Click **Vector->Geoprocessing tools -> Dissolve**
- Select the **Pop_Joined.shp** as input layer



Exploring geo-processing tools

Dissolve Tool

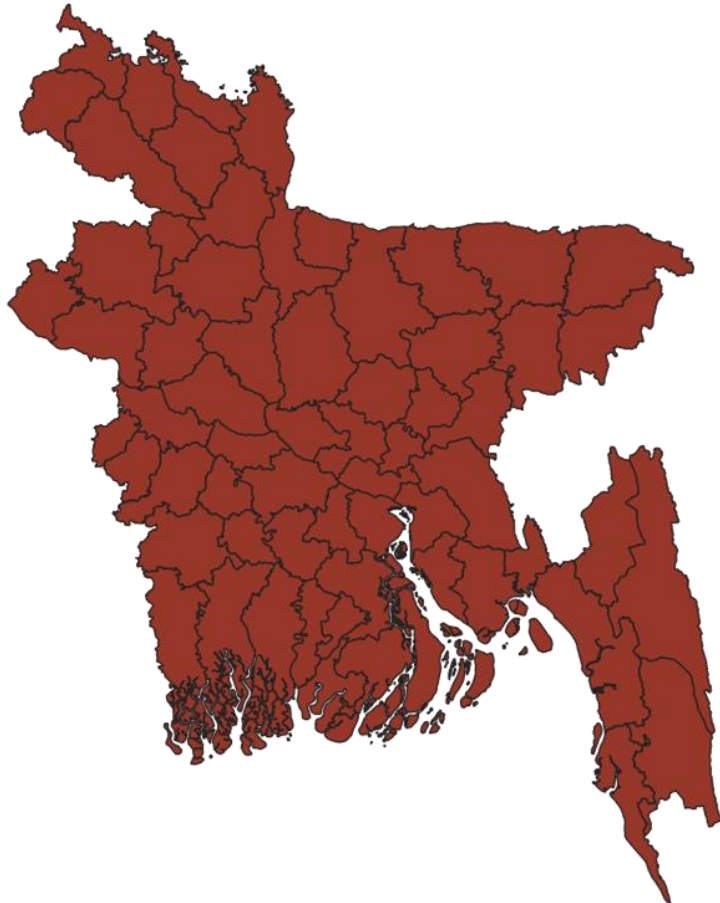
Select input layer →



Exploring geo-processing tools

Dissolve Tool

Before



After



Select by expression (Query)

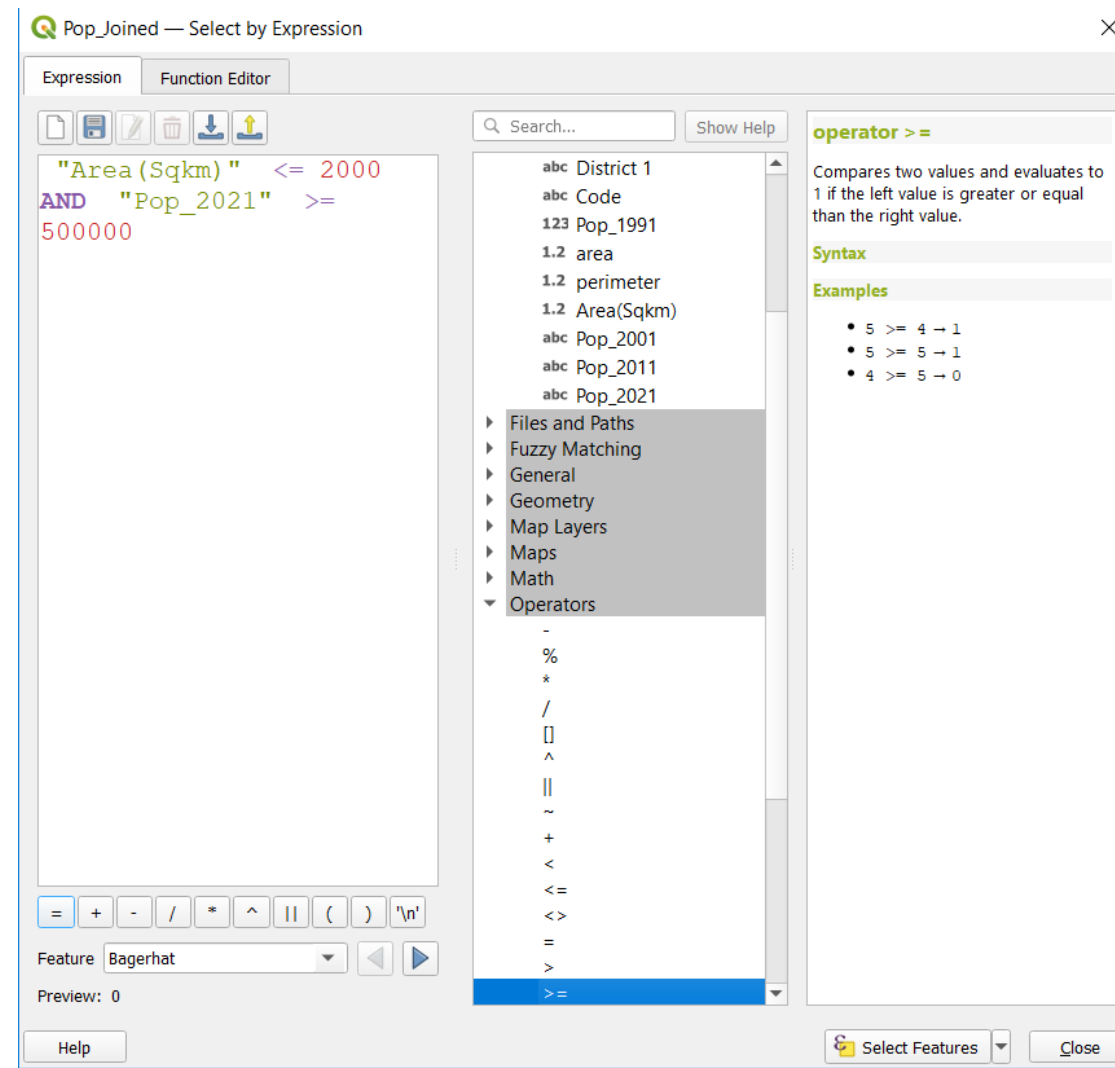
➤ Open the **Pop_joined.shp** file from **Day1/exercise 1** (You created)

➤ Open attribute table and click on icon 

➤ Select **Fields and Values**

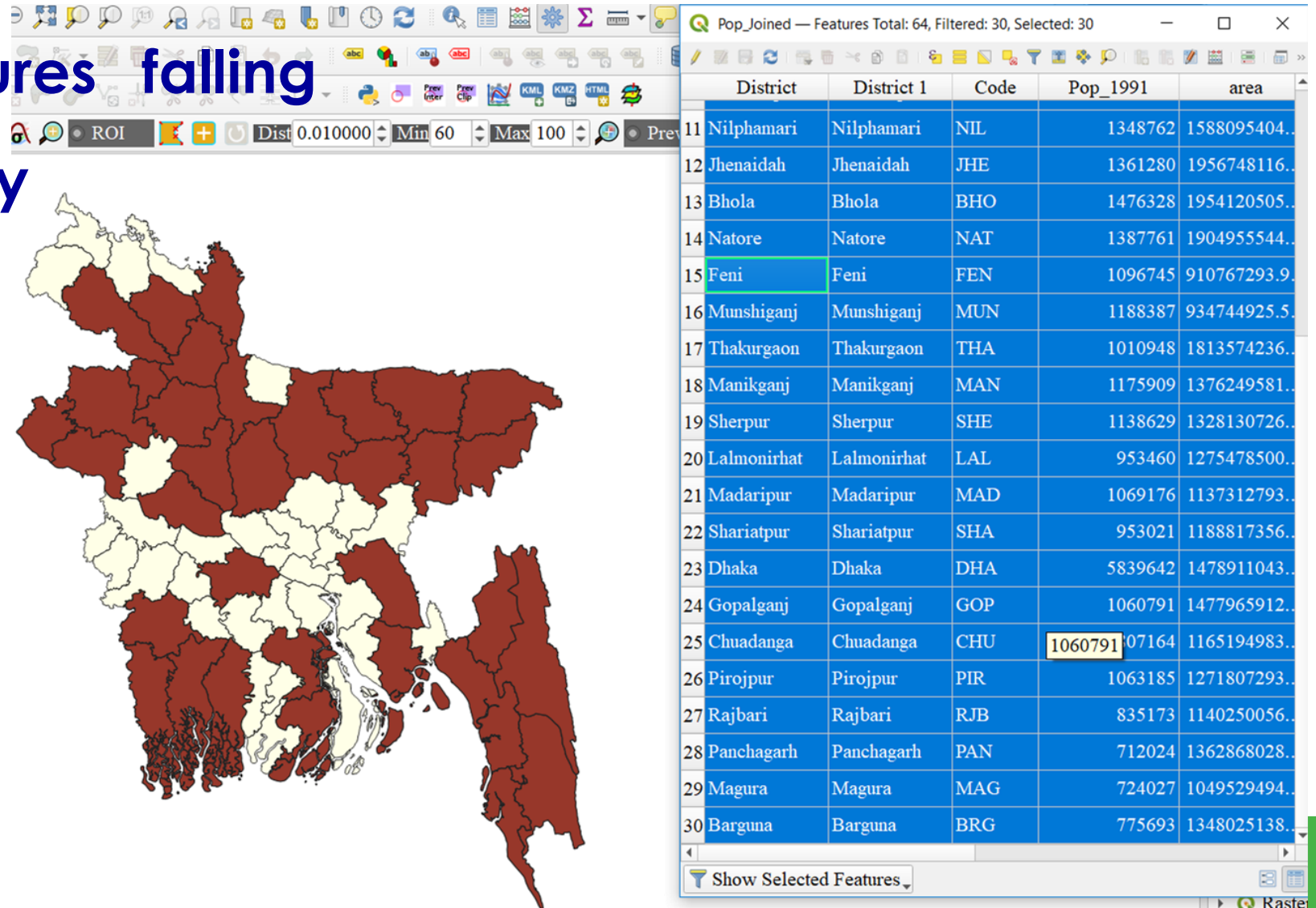
➤ Write an expression as shown below:

"Area(Sqkm)" <= 2000 AND "Pop_2021"
>= 500000



Select by expression (Query)

Selected (30) features falling
under the build query





Thank you

Let's protect
the pulse.