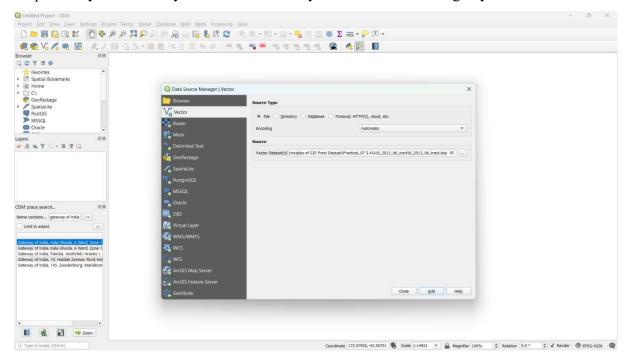
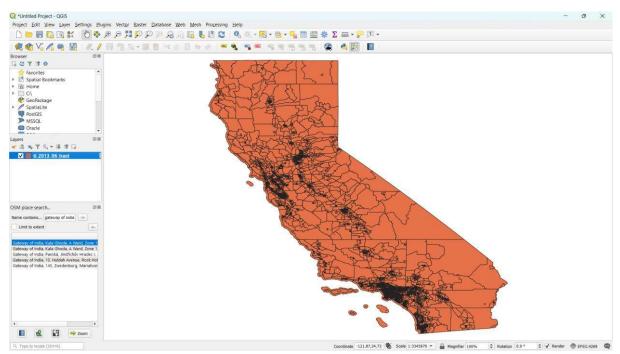
PRACTICAL-7

Aim: Managing Data Tables and Saptial data Sets: Table joins, spatial joins, points in polygon analysis, performing spatial queries.

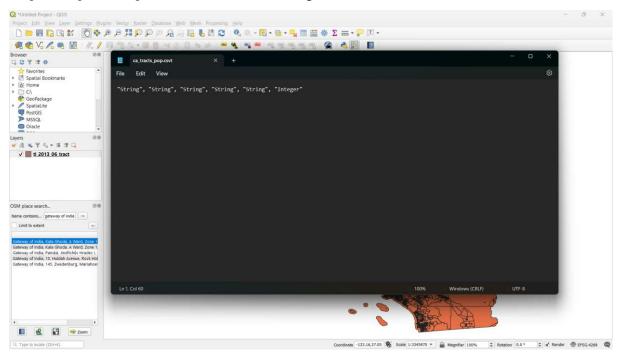
Steps:

Step 1 – Layer > Add Layer > Add Vector Layer. Select the following layer and hit add.

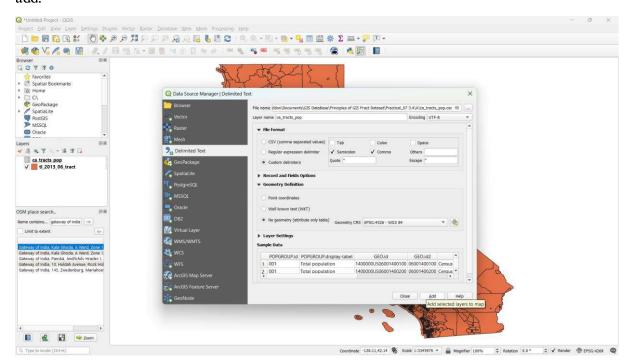




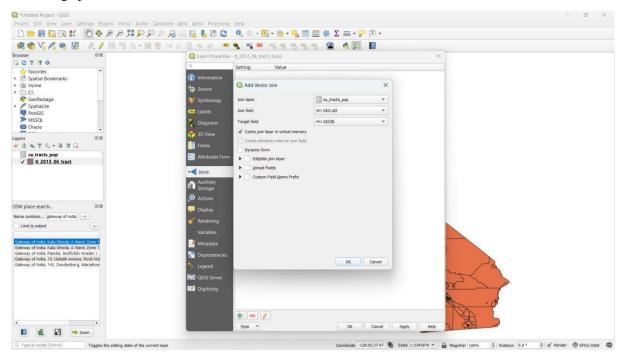
Step 2 – Open Notepad and create the following file.



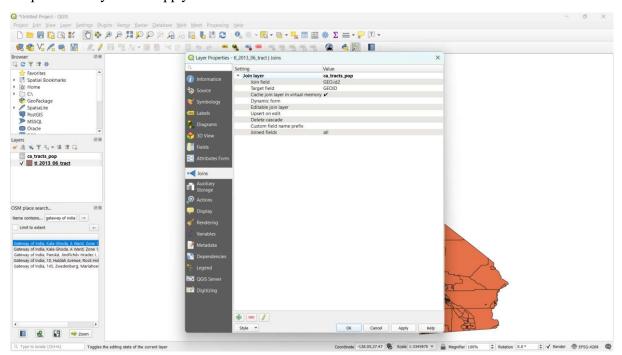
Step 3 – Layer > Add Layer > Add Delimited Text Layer. Set the following attributes and hit add.



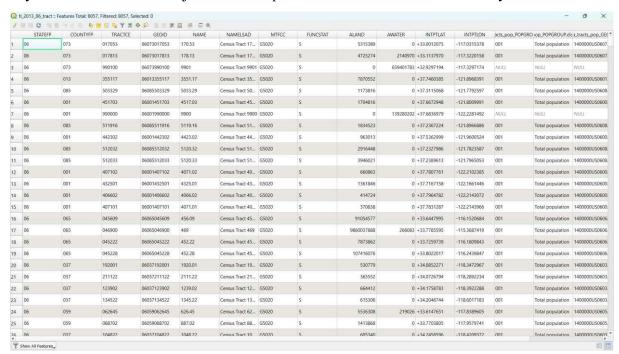
Step 4 – Open the properties of the first layer and click on the Joins menu. There set the following parameters.



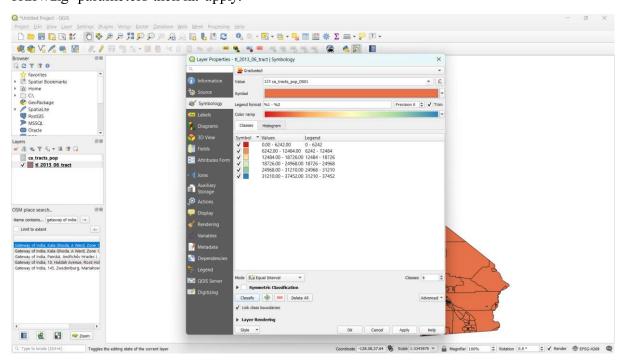
Step 5 – Finally click Apply.

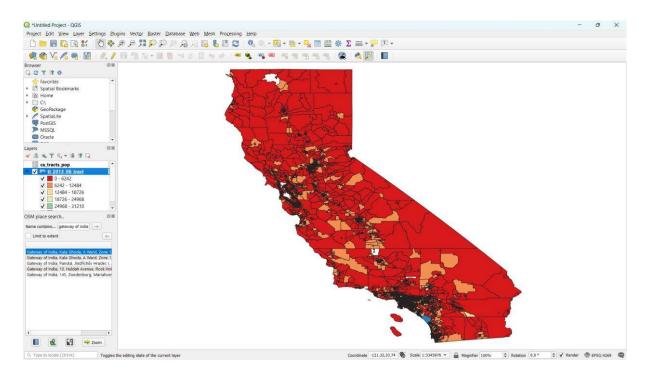


If you want to check if the join worked open the attribute table of the first layer.

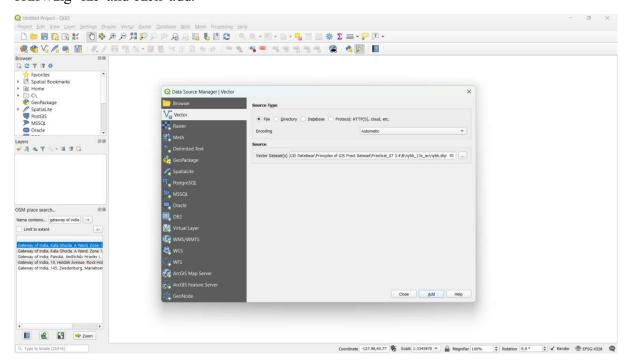


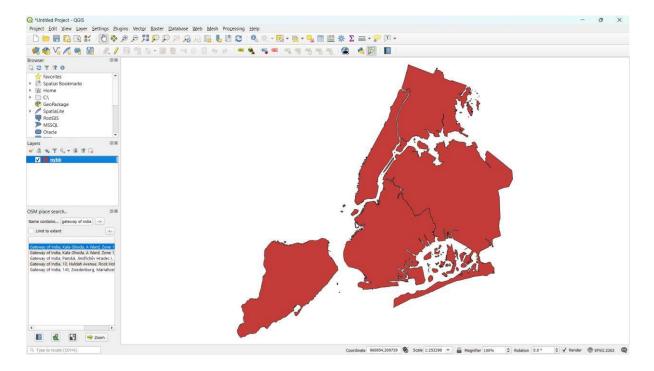
Step 6 – Now open the properties of the first layer go to the symbology menu and set the following parameters then hit apply.



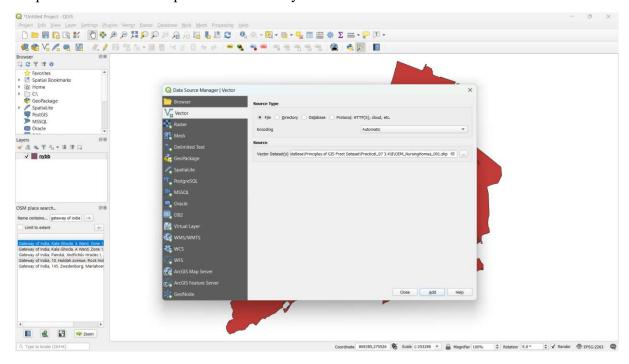


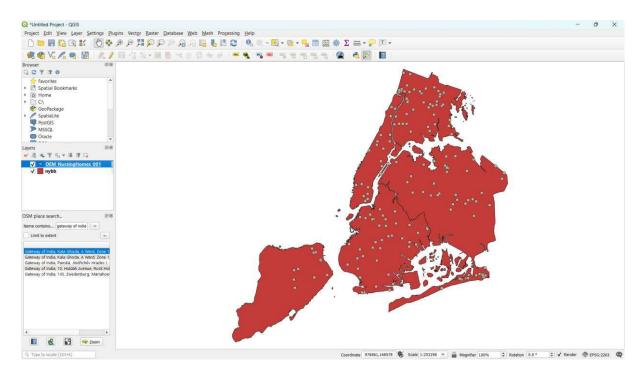
Step 7 – Now open a new project. Layer > Add Layer > Add Vector Layer. Select the following file and click add.



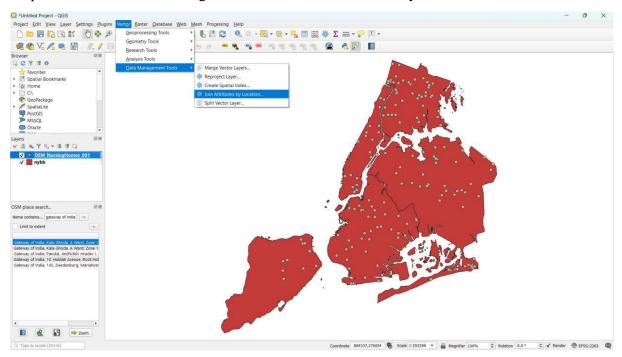


Step 8 – Add another .shp file the same way.

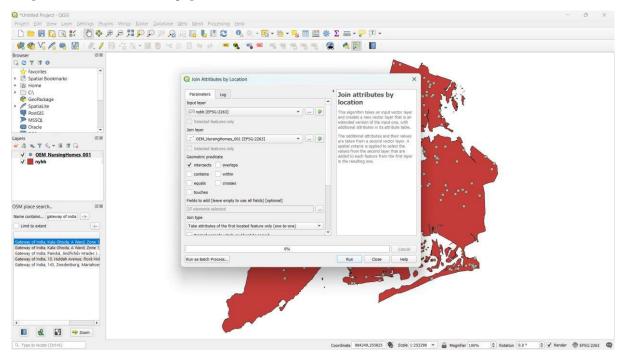




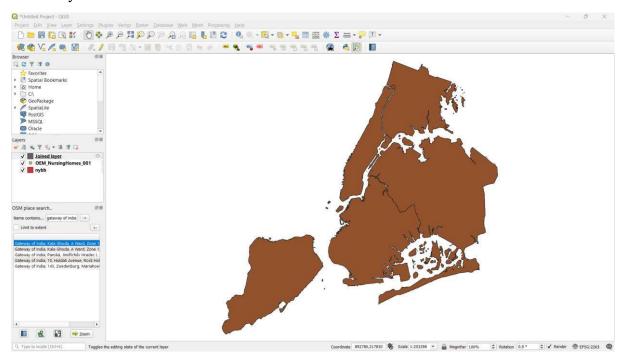
Step 9 – Vector > Data Management Tools > Join Attributes by Location.



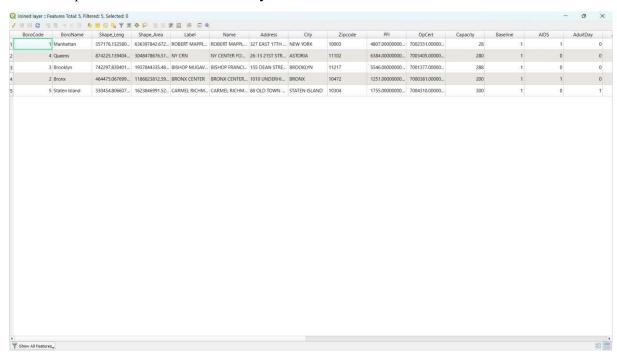
Step 10 – Set the following parameters and hit run.



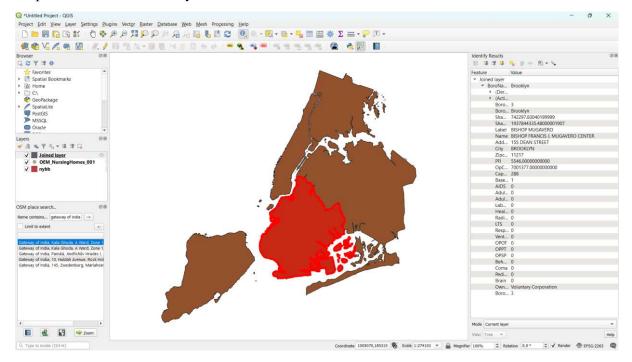
A new layer is created.



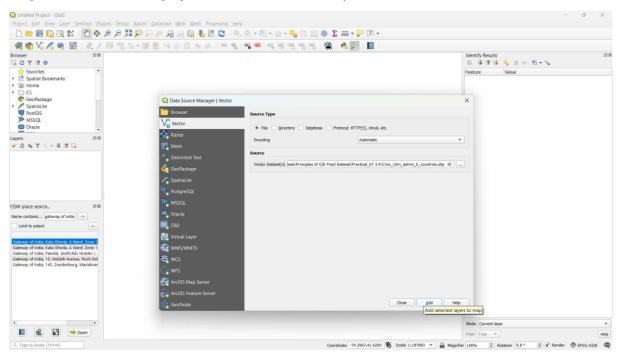
You can open its attribute table to verify.

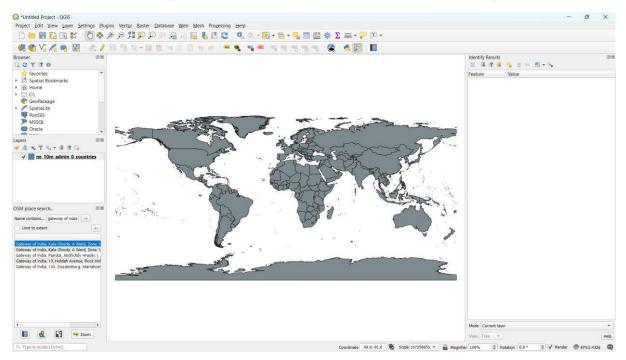


Step 11 – Select the identify features tools and click on an area to see its features.

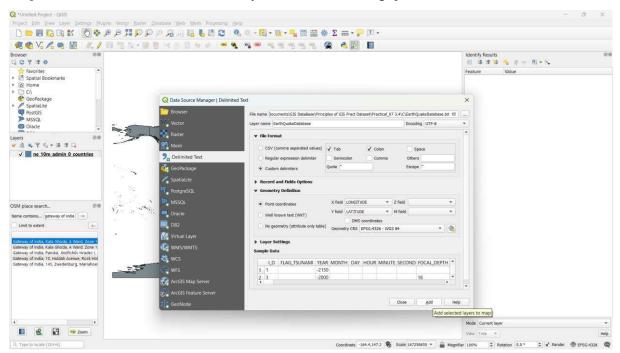


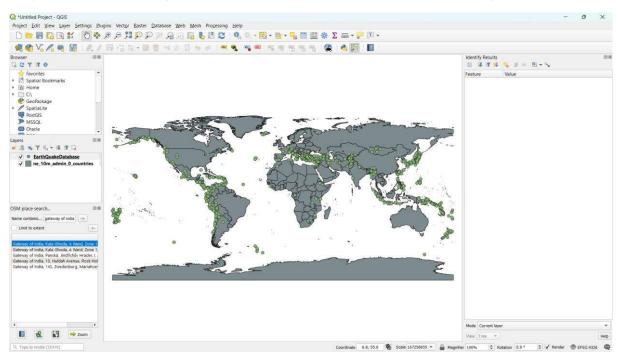
Step 12 – Create a new project. Add a new vector layer.



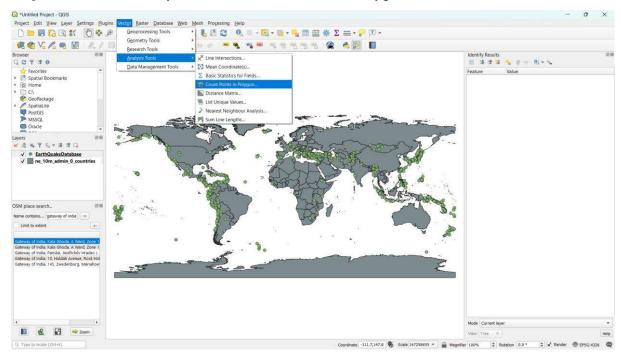


Step 13 – Add a new delimited text layer. Set the following parameters and hit add.

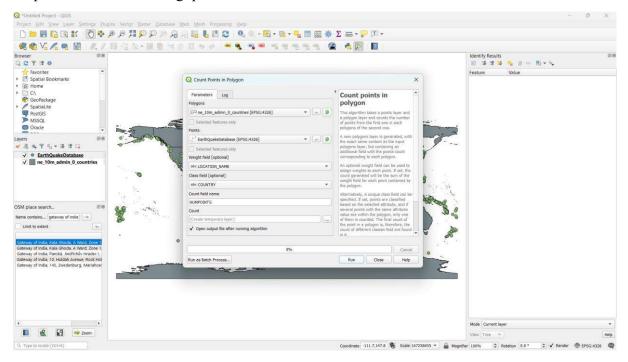


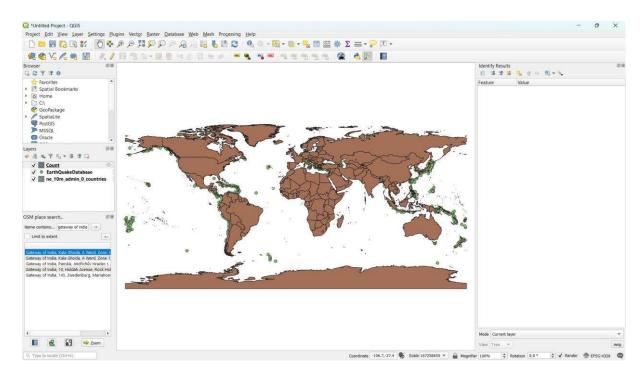


Step 14 – Vector > Analysis Tools > Count Points in Polygons.

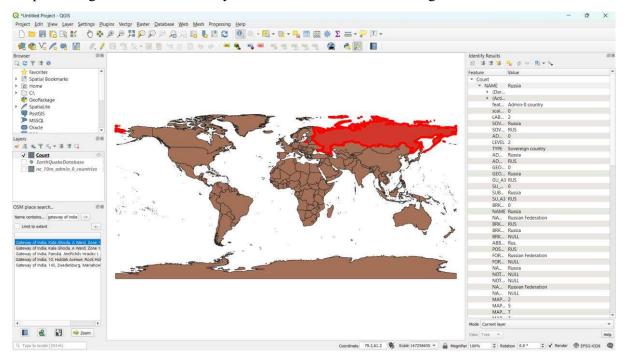


Step 15 – Set the following parameters and hit run.

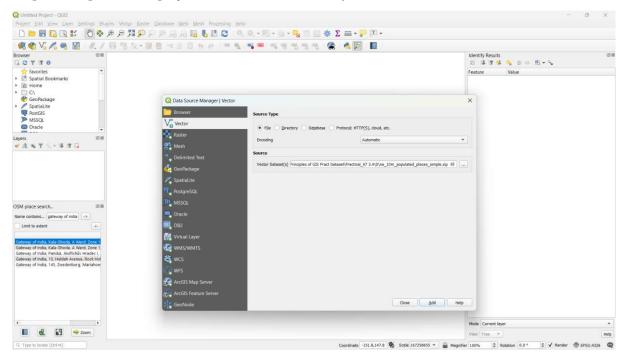


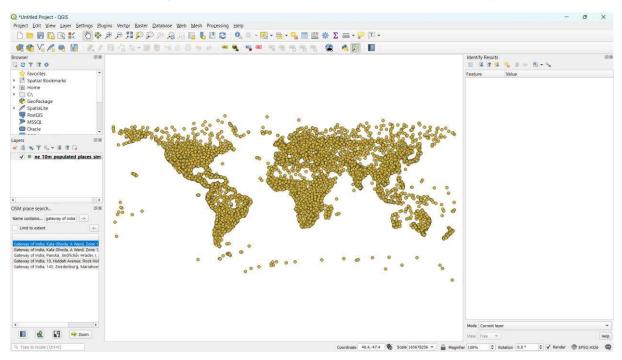


Step 16 – Again select the identify features tool and click on a region to show its features.

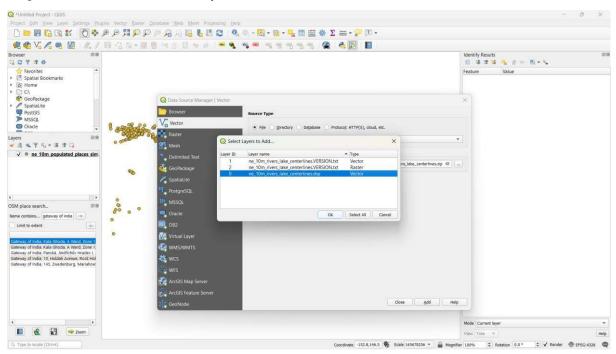


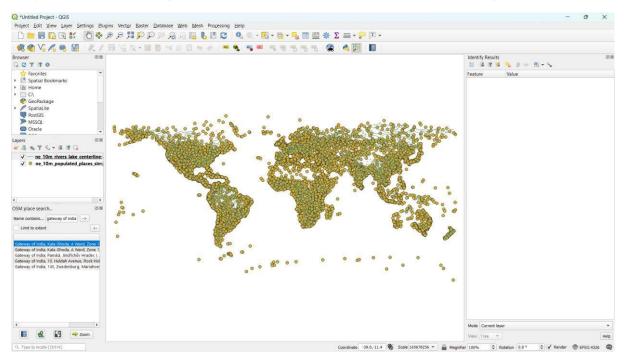
Step 17 – Open a new project. Add a new Vector layer.



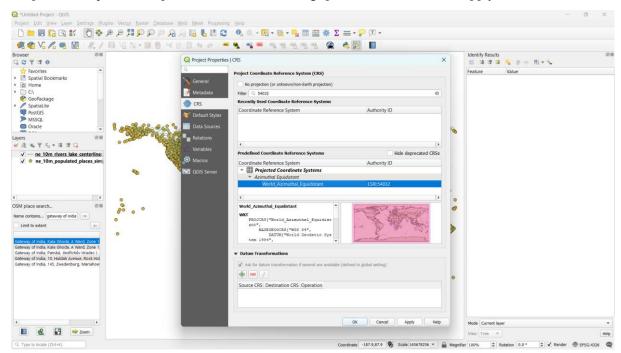


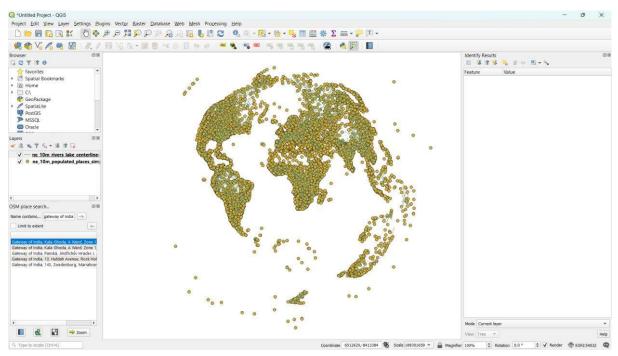
Step 18 – Add another vector layer.



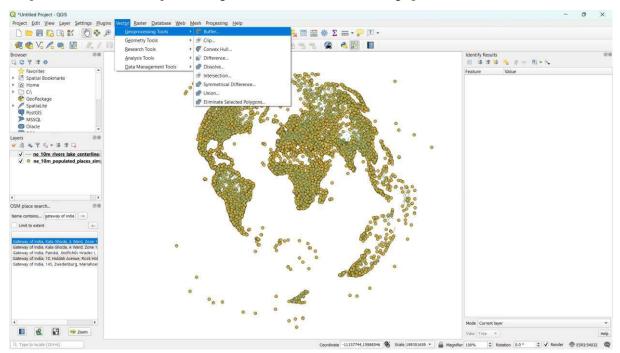


Step 19 – Project > Properties. Set the following parameters and click apply.

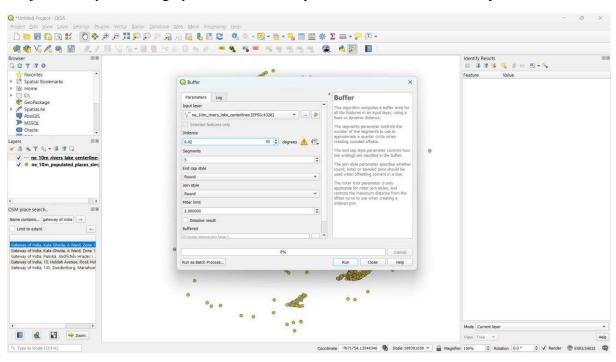


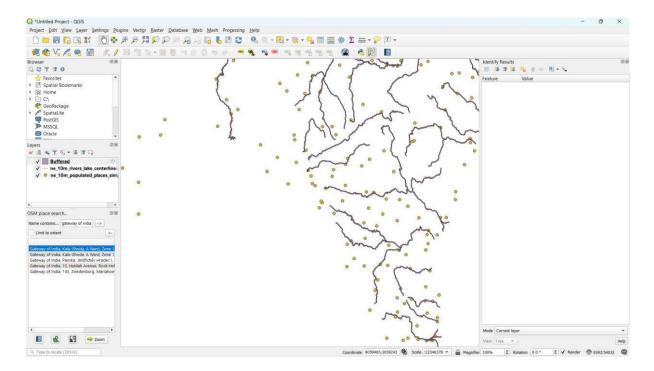


Step 20 – Vector > Geoprocessing > Buffer. Set the following parameters and hit run.



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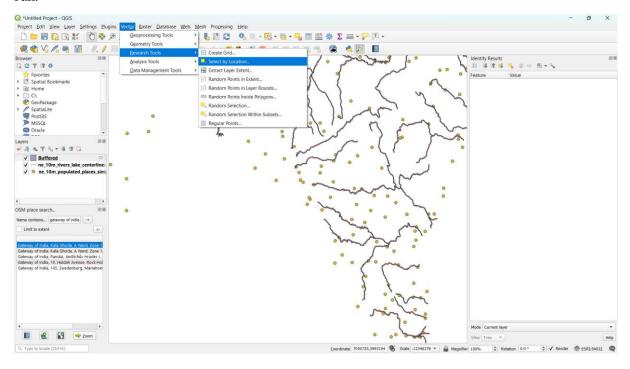


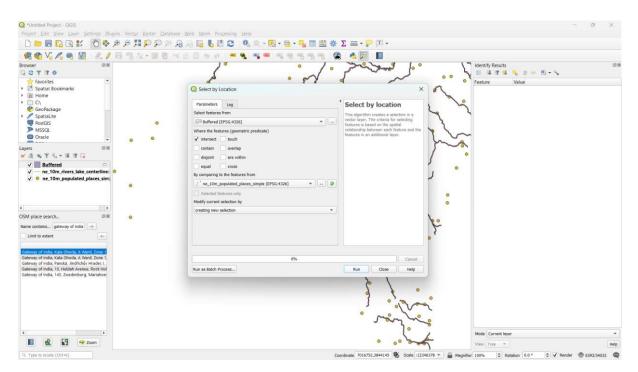


Roll No: IT20010

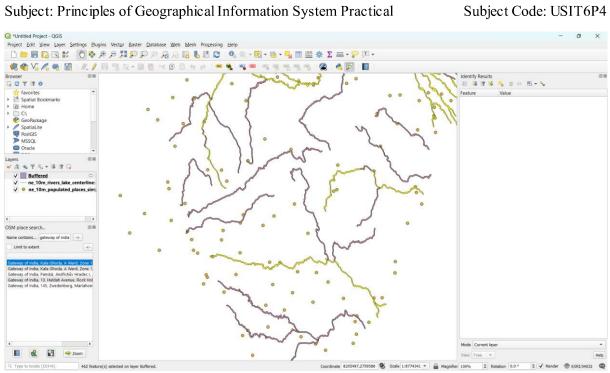
Subject Code: USIT6P4

Step 21 – Vector > Research Tools > Select by Location. Set the following parameters and hit run.





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