

Classify Tool

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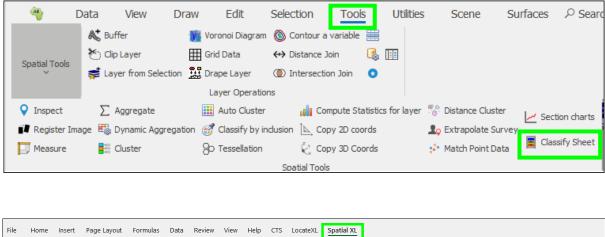
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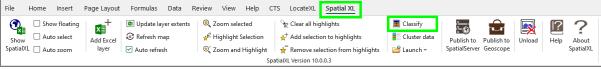
The **Classify** tool allows you to do a spatial join and assign columns from an area layer to a layer with geographic coordinates such as points. These columns are assigned based on the point layer's intersection with the area layer in space.

The tool has two forms in our spatial products. The first is the **Classify by Inclusion** tool which will do the operation for you within a layer in the product itself. The second is the **Classify Sheet** tool which does the operation to an Excel sheet, this tool is only available in SpatialXL:

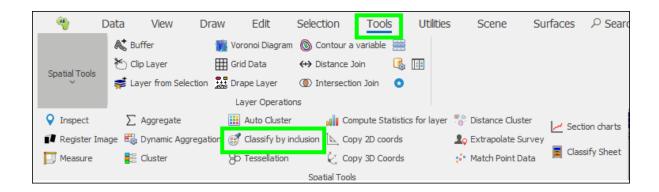


The **Classify Sheet** tool can be accessed in the Tools tab in SpatialXL or the SpatialXL Ribbon in Excel:

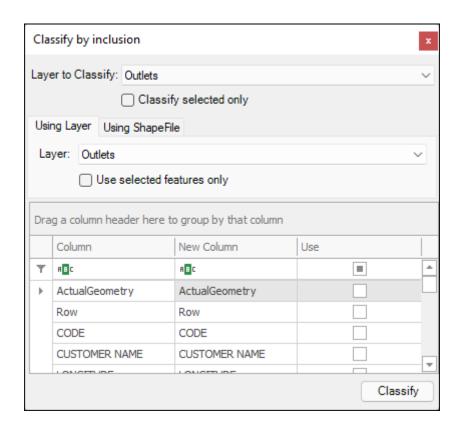




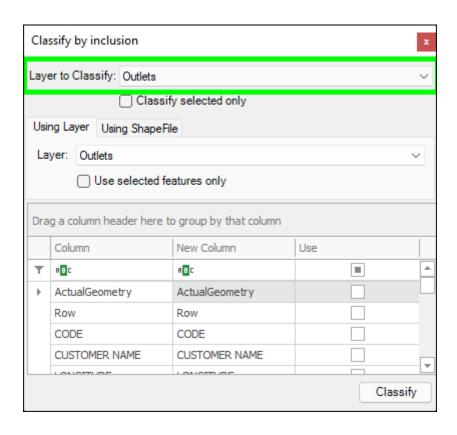
Classify by Inclusion

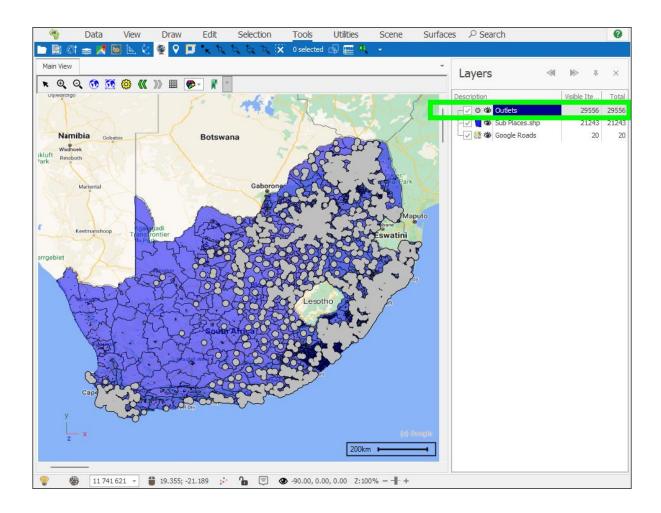


Clicking on the tool brings up the following dialogue:

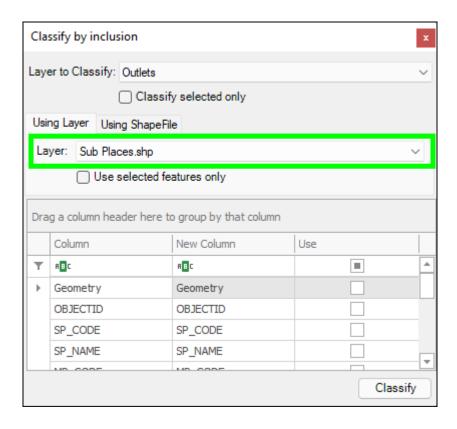


First, choose the layer you want to classify, this will be the point layer; in this example I have an **Outlets** layer which I want to classify:

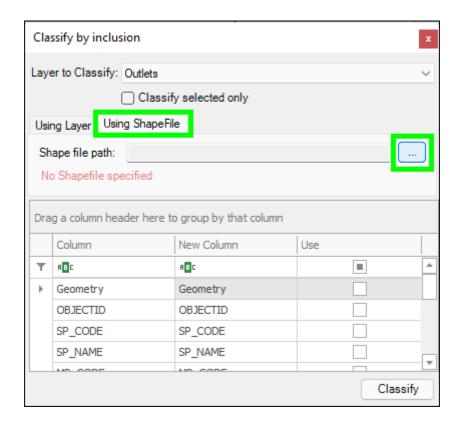




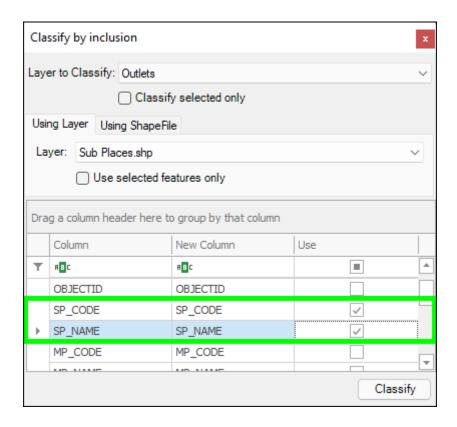
Then in the **Using Layer** tab below choose the layer you will use to classify and assign columns; this will be the area layer; in this example I have a **Sub Places** layer which I'm using to classify:



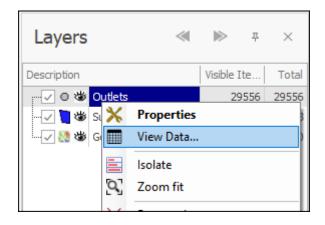
You can also browse to a shapefile, that you have not brought in as a layer, to use for the classification in the **Using Shapefile** tab:

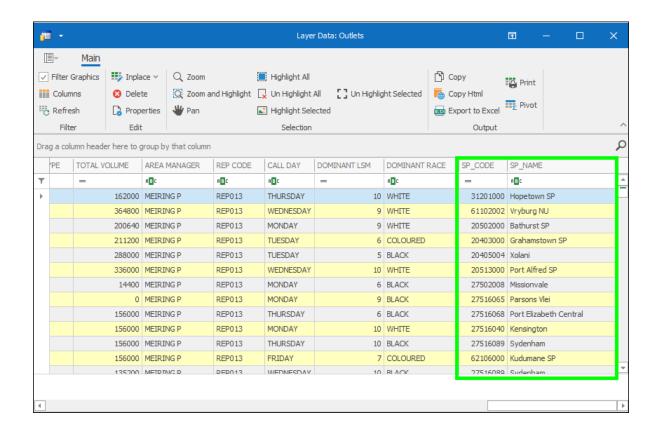


Then in the grid below, choose the columns from the area layer that you want assigned to the target point layer by ticking them on under **Use**. Under **New Column** is the name the column will have when it is added to the target layer, you can change this if you want. In this example, the columns I want assigned are the **SP CODE** and **SP NAME**, which will give the Sub Place code and name of the Sub Place my outlets fall in:

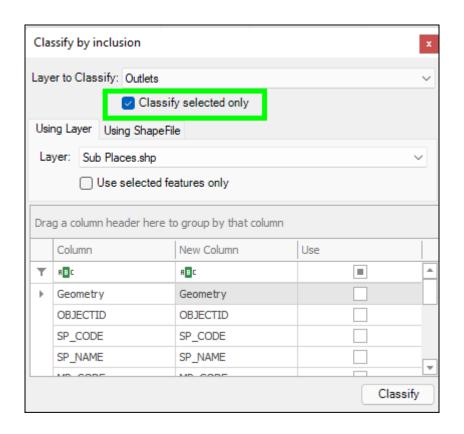


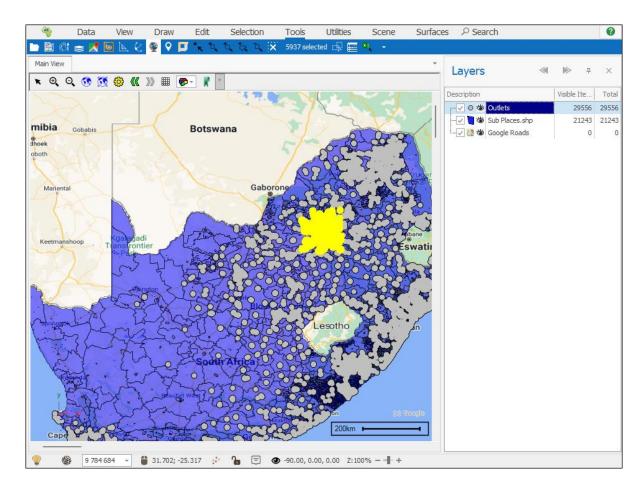
When done click **Classify**. Your target layer has now been classified, to see the result right click and **View Data** to open the Layer Data Grid, you will then see the columns assigned to the points:



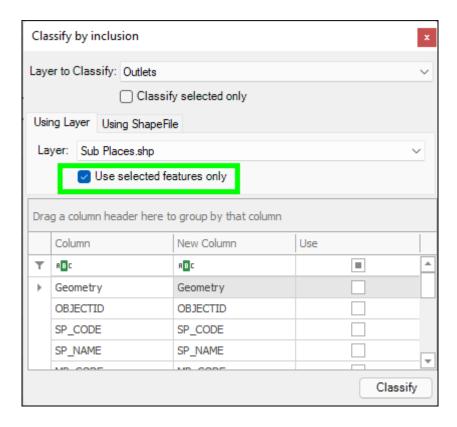


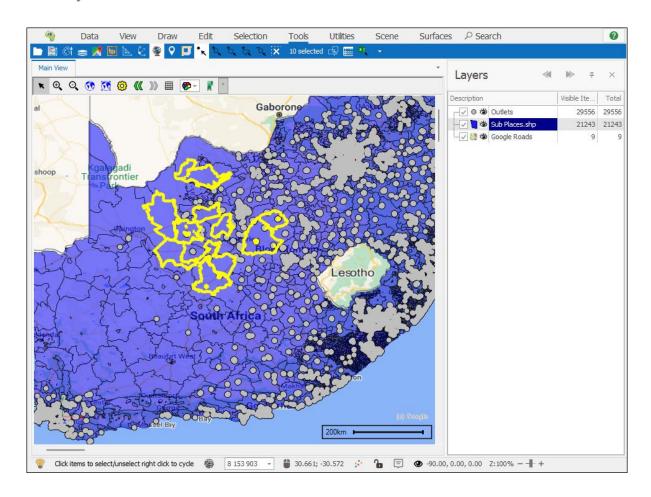
If you only want to classify selected elements in your target layer, then you would tick on **Classify Selected Only** and then select the elements in the scene with one of the selection tools before running the operation:



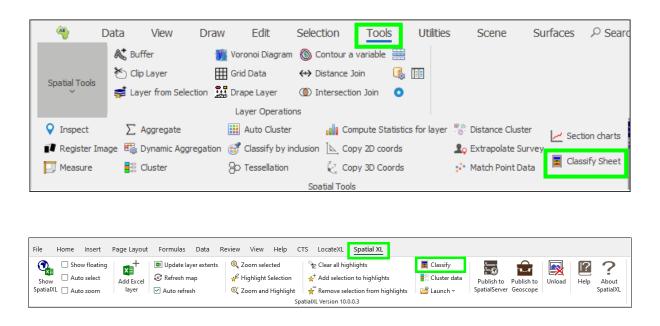


Similarly, if you only want to use selected elements in the area layer to classify with, then you will tick on **Use selected features only** and then select these in the scene with one of the selection tools before running the operation:



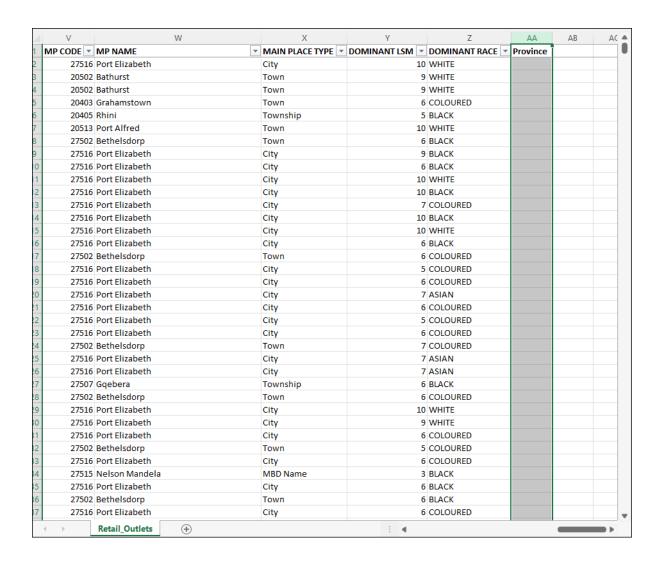


Classify Sheet

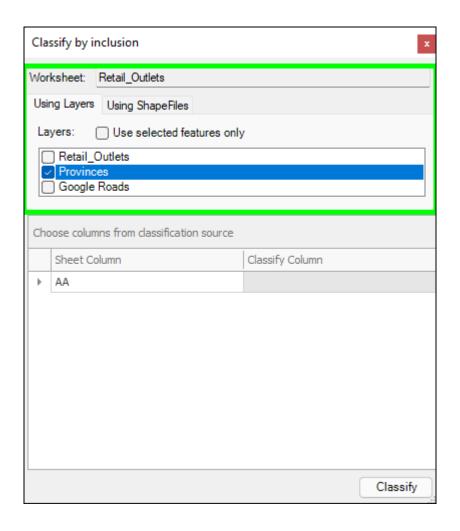


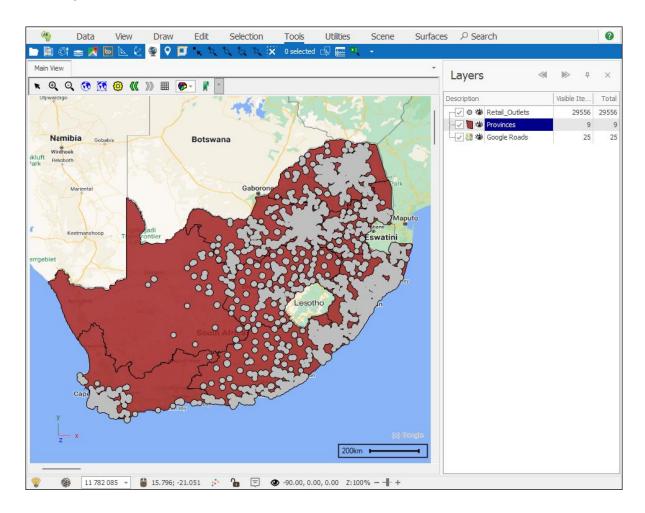
Before opening the tool, select the column or columns in your points sheet, that you have added as a layer in SpatialXL, where you want the assigned columns

to populate. You can give these columns a name first. I will call the column **Province** since the province name that my Retail Outlets fall in is what I want assigned in this example:

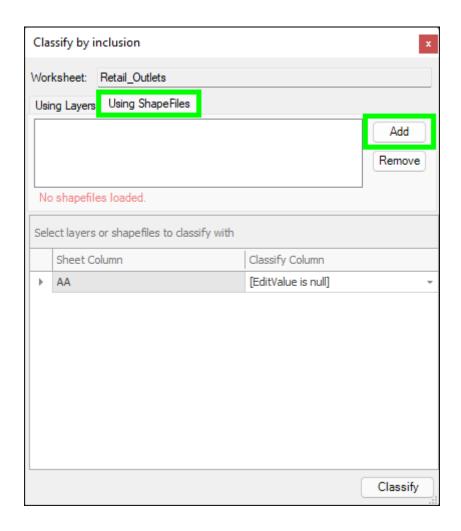


Open the tool. The worksheet you are currently on is populated by **Worksheet**. In the **Using Layers** tab below choose the area layer/s that you will be using to do the classify, in this case it is my **Provinces** layer:

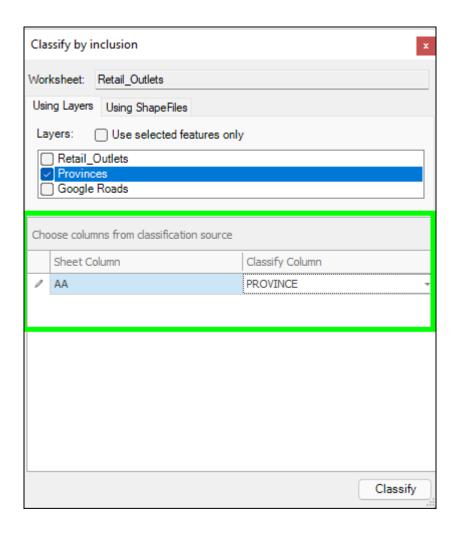




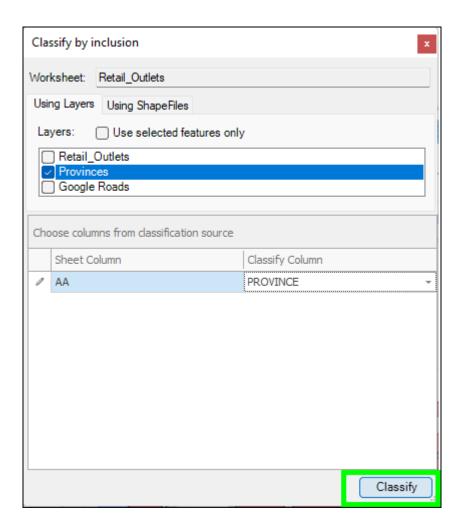
You can also browse to a shapefile/s, that you have not brought in as a layer, to use for the classification instead, in the **Using Shapefiles** tab:

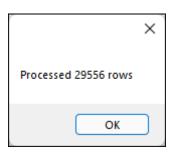


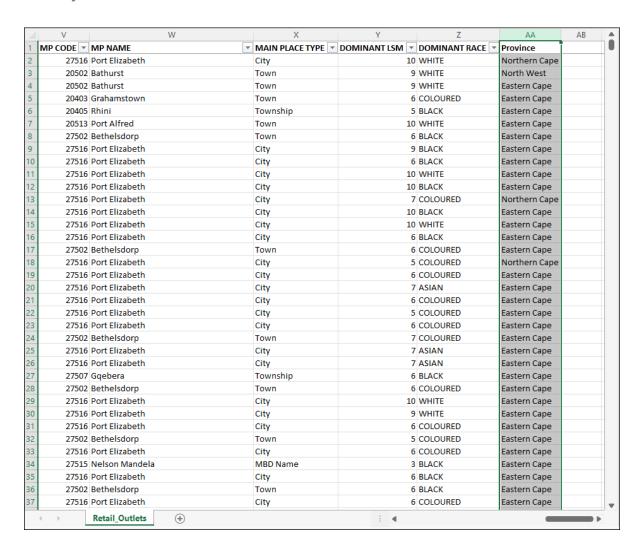
In the grid below, the reference of the sheet column/s you have highlighted is populated, next to this, choose the column/s in the area layer you want assigned in the classify operation, I will choose the PROVINCE column, which has the province name:



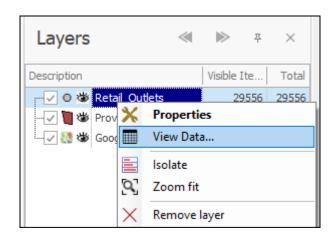
When you are done click **Classify**. Your columns have now been assigned in your sheet:

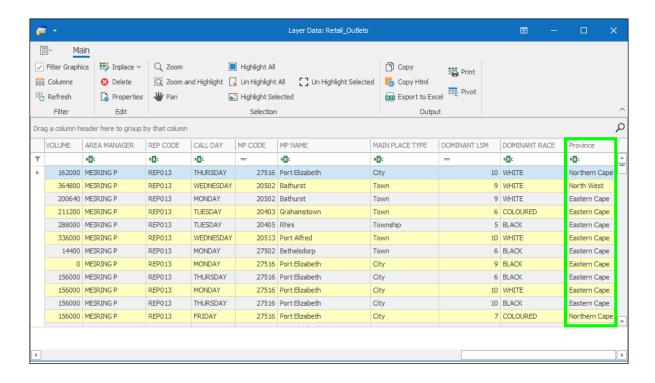




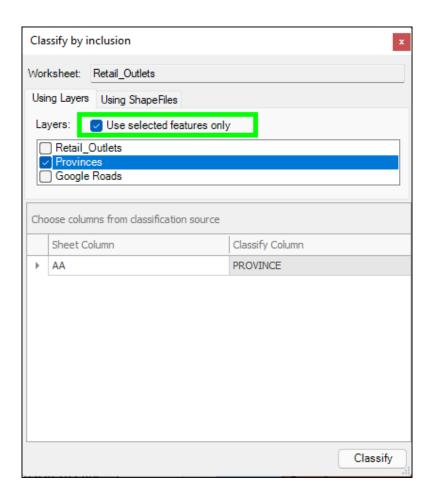


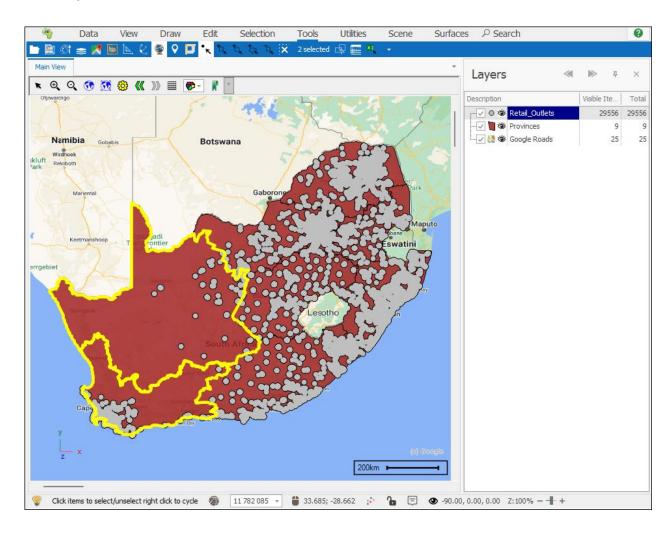
The columns have also been assigned in the Layer Data Grid of my **Retail_Out-lets** layer as well:





If you only want to use selected elements in the area layer to do the classify with, then tick on **Use selected features only** and select the elements in the scene with one of the selection tools, before running the operation:





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