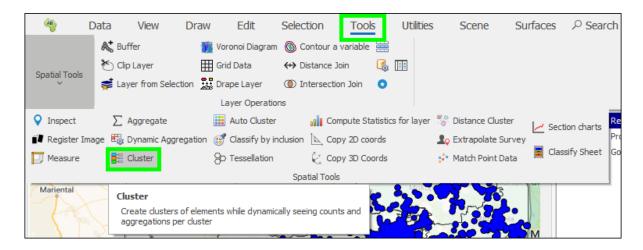


Cluster Tool



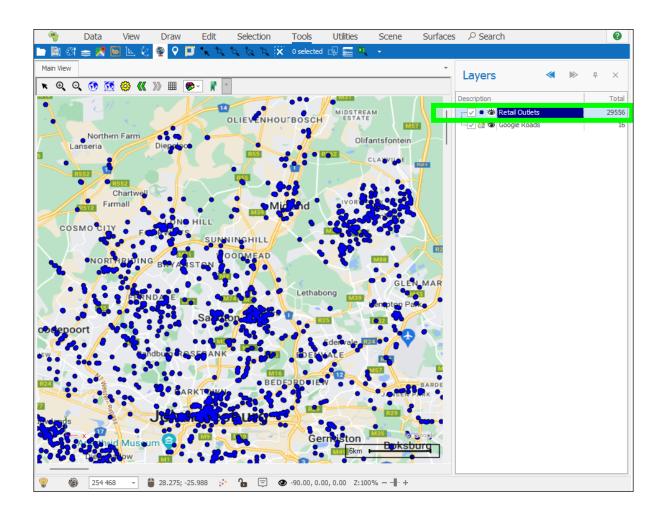
Contents

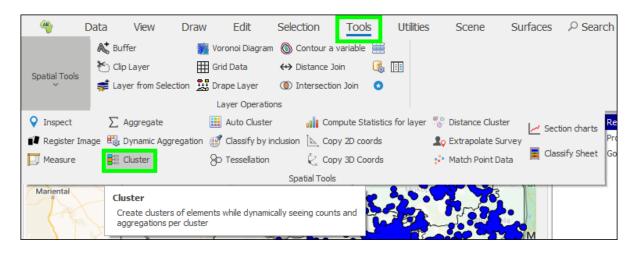
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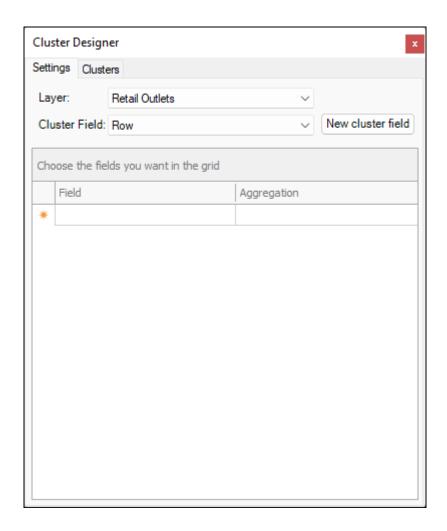
The **Cluster** tool can be used to build clusters or districts using both geographic and non-geographic parameters.

Cluster Tutorial

Make sure the layer you want to cluster is ticked on in the Layers Description box. Then click on the tool to bring up the Cluster Designer dialogue:





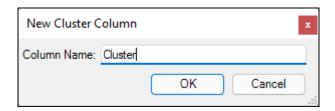


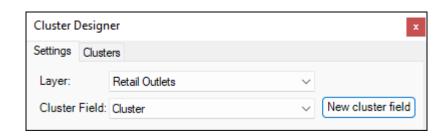
By Layer, choose the layer you will be clustering. By Cluster Field you can choose an existing column in your data to have your clusters populated in, or you can click **New Cluster Field** to create a new column, I will make a new cluster field in this example and call it Cluster:



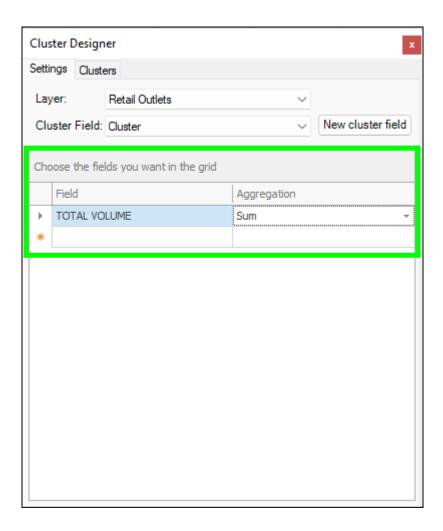
Cluster Tool User Guide



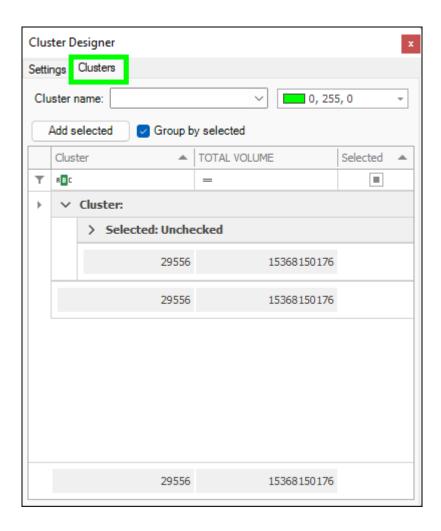




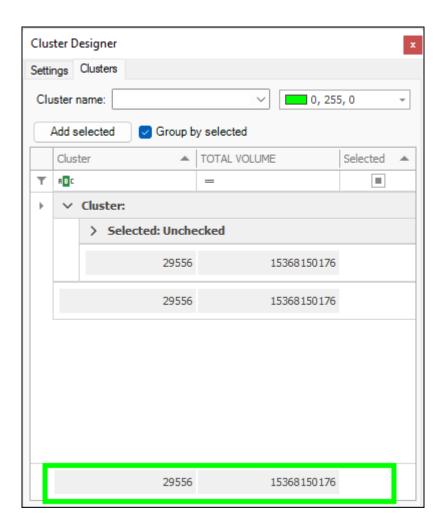
Then, in the grid below you can choose columns in your data that you would like to aggregate on in creating clusters, in this way you can cluster based on this aggregated value or use it as a guide, choose the **Field** and **Aggregation** type, you can then click below to add more fields if you want:



We are now ready to start creating our clusters, go to the **Clusters** tab:



The total number of points and the aggregated Total Volume (the field I chose to aggregate on) of all those points is shown at the bottom of the grid below:

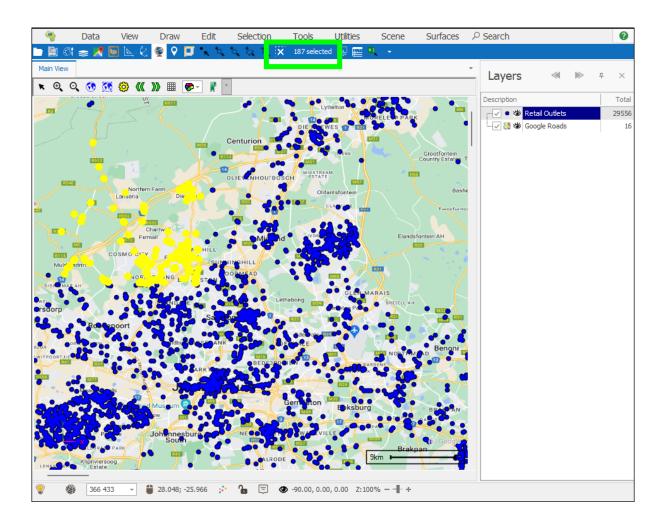


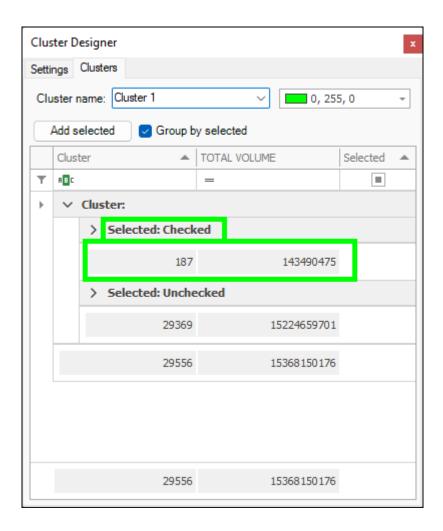
By Cluster name, type in the name of the first cluster you will create, then next to it, choose the colour you want the points in this cluster to be coloured by:



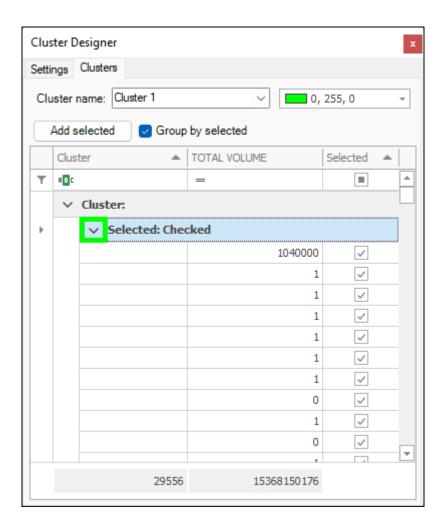
Next, go to your scene and select the points you want to add to your first cluster using one of the selection tools, as you select them the number of selected items is shown in the grid below as well as the Total Volume of those items, which is the field I chose to aggregate on:

Cluster Tool User Guide

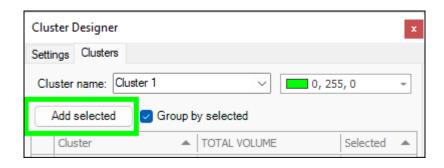


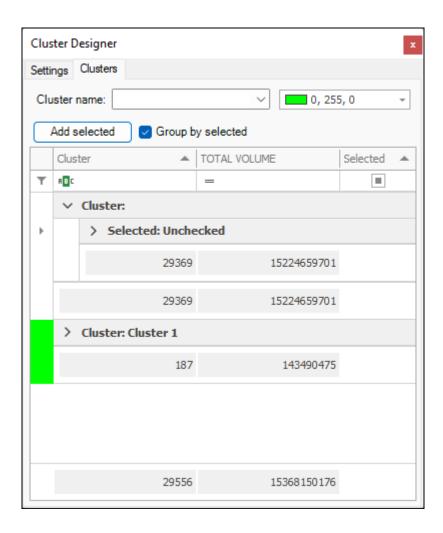


You can expand this as well to see the breakdown of the aggregated value (in this case Total Volume) for each point:



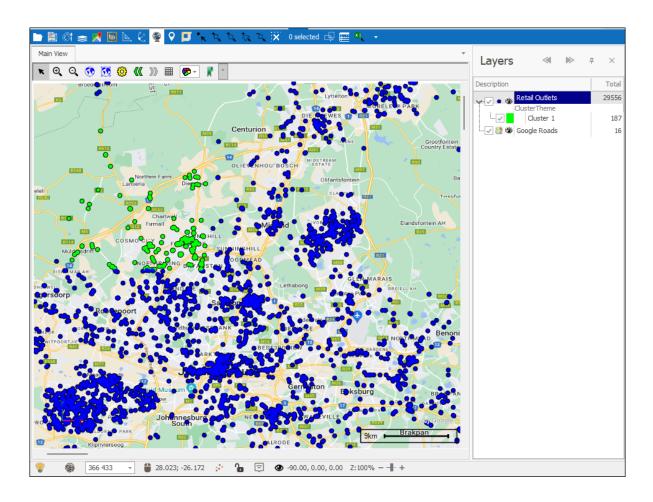
If I am happy with this selection, I can then add this to my first cluster by clicking **Add selected**:



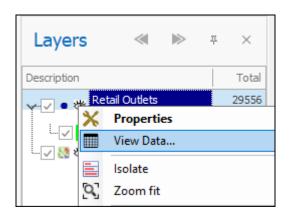


My points have been added to the first cluster, to see this in the scene, clear you selection, and you will see they are coloured accordingly:

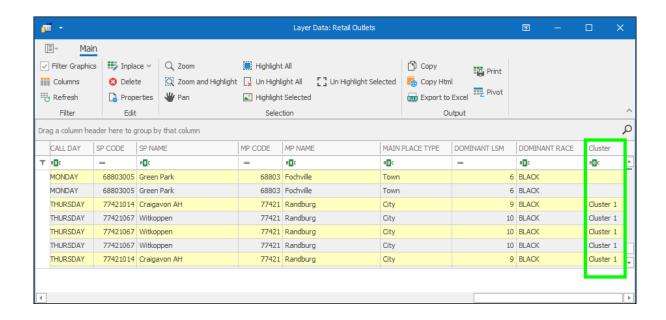


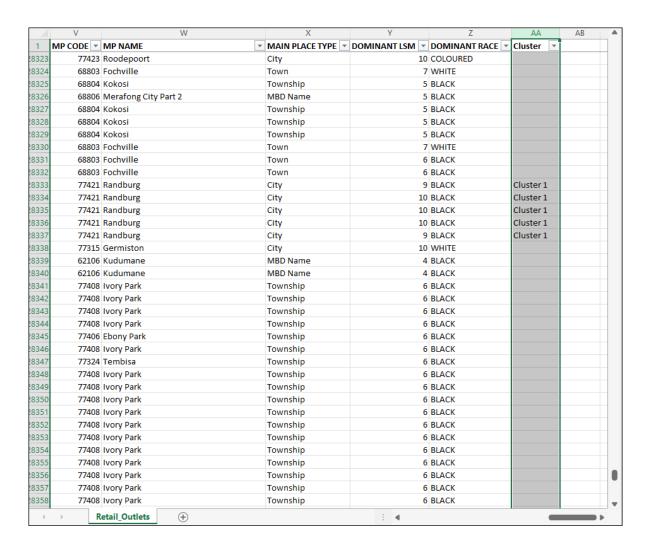


The Cluster column is populated with the cluster values as well, in the Layer Data Grid and Excel spreadsheet if this is an Excel layer:



Cluster Tool User Guide

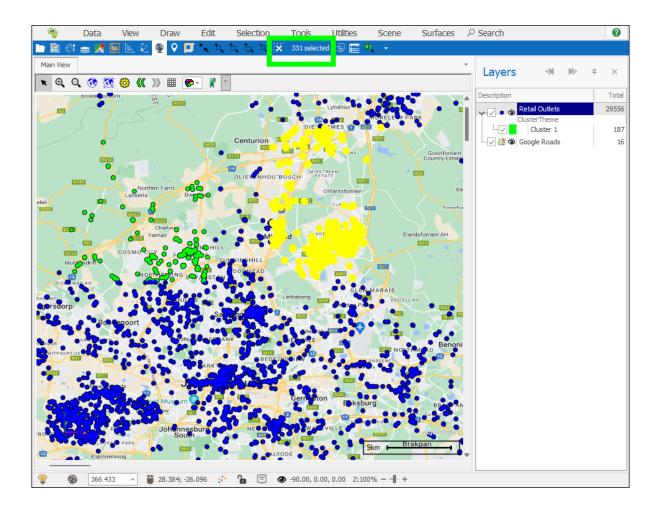


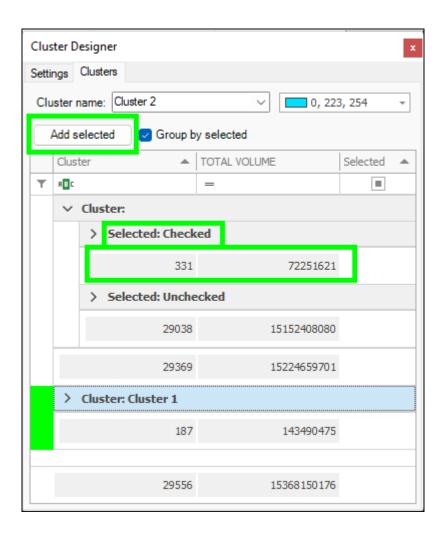


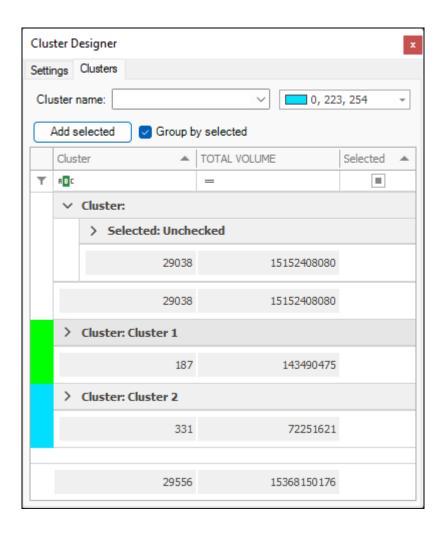
Cluster Tool User Guide

I will now add my next cluster, type in the name of your next cluster by **Cluster name**, choose its colour, then select the points in your scene and click **Add Selected**:

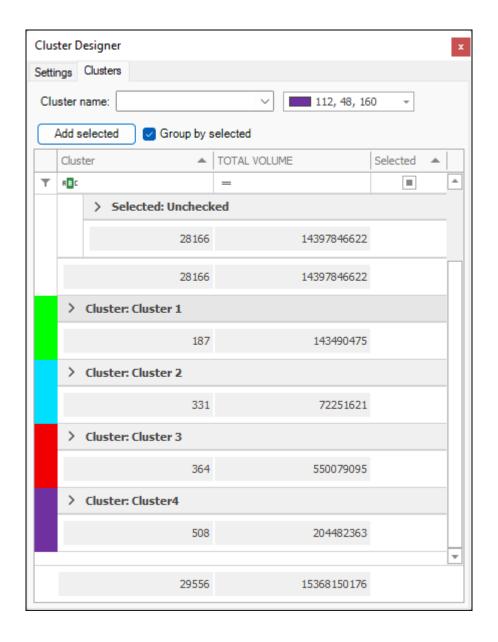


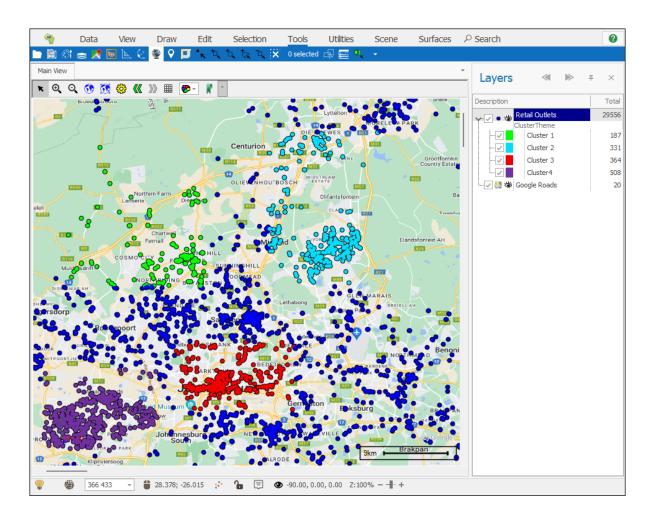




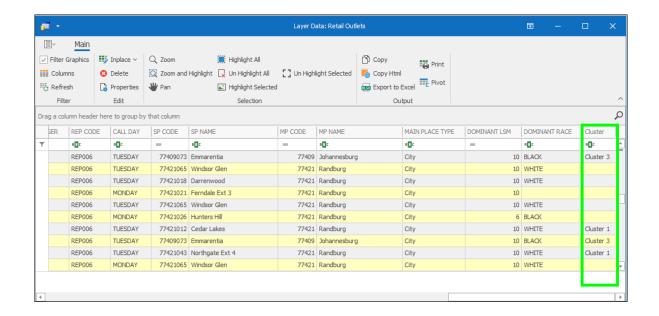


Continue adding clusters in this way until you are done, you can then close the Cluster Designer box:

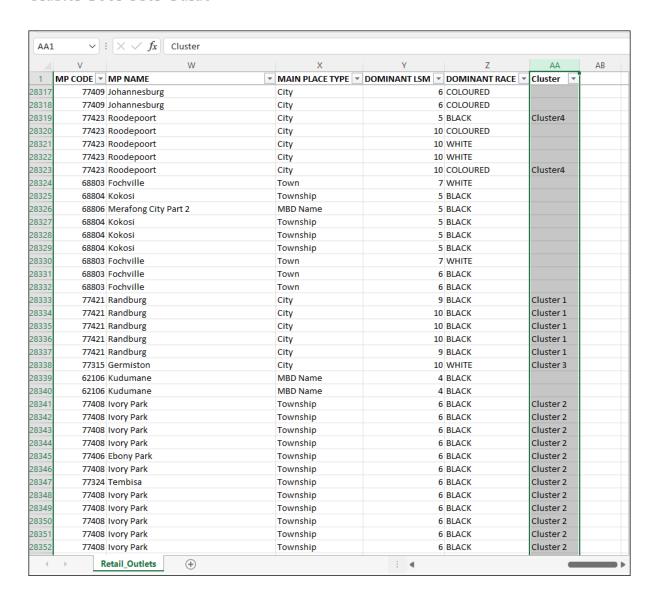




All your clusters are now populated in your data as well:



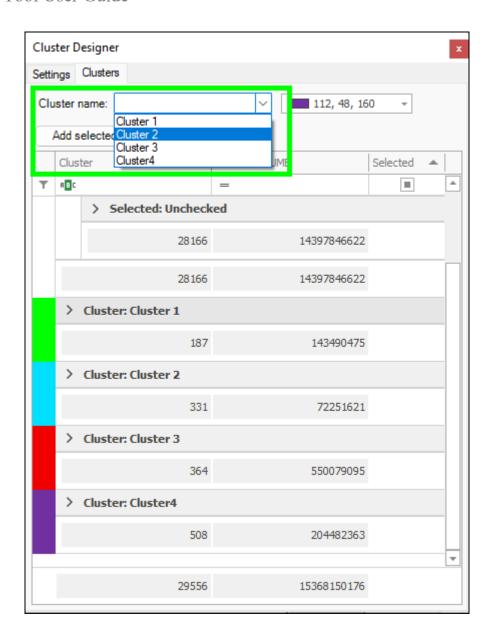
Cluster Tool User Guide



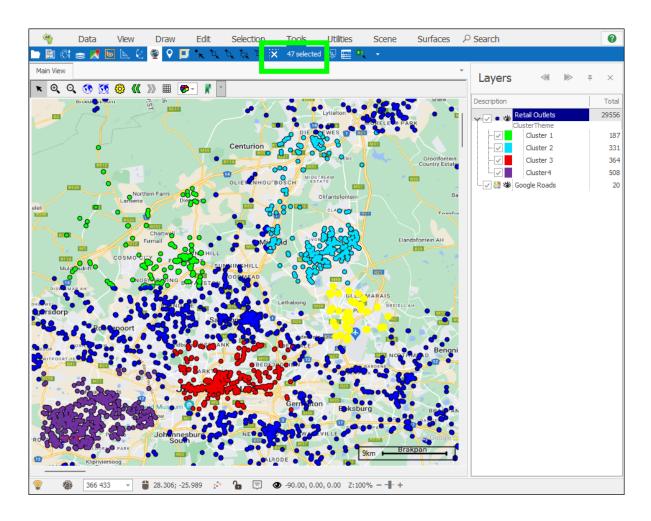
Making Changes to Your Clusters

Adding Points to Your Cluster

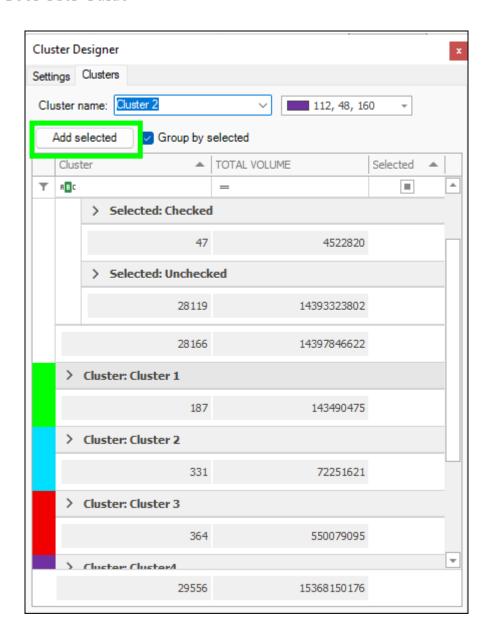
To make changes to your clusters you can open the **Cluster** tool again and your current clusters will be there, the clusters you have already created will appear in the **Cluster Name** dropdown box, select the name of the cluster you want to add points to:

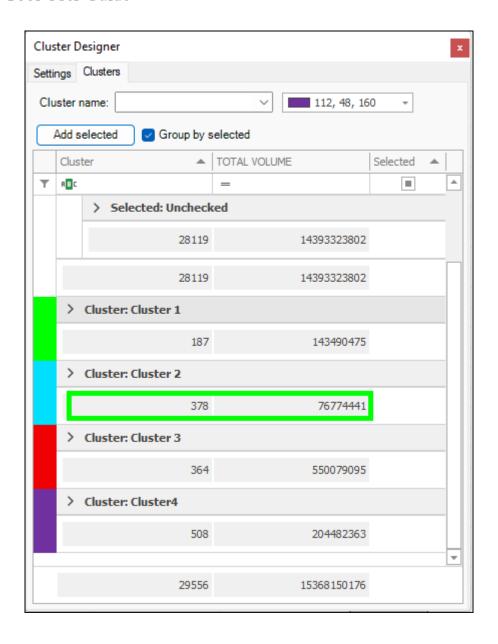


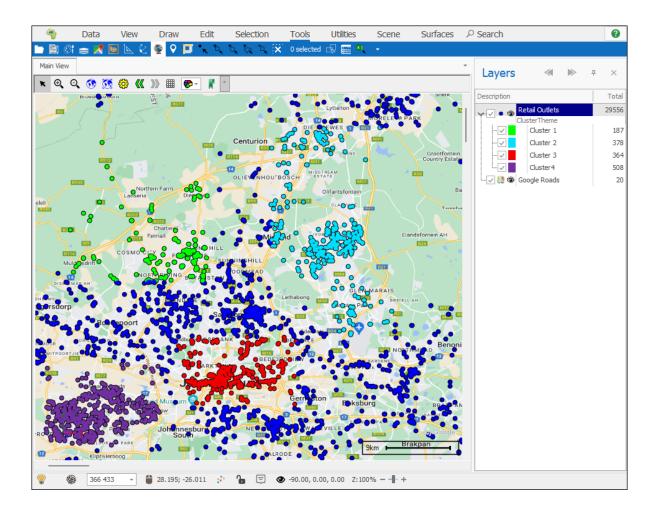
Then, use the map selection tools to select the points you want to add on the map:



Then click **Add Selected** and the points will add to your existing cluster and the values in your cluster grid will update accordingly:

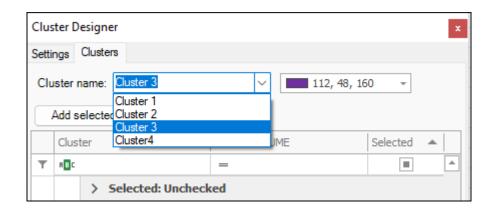






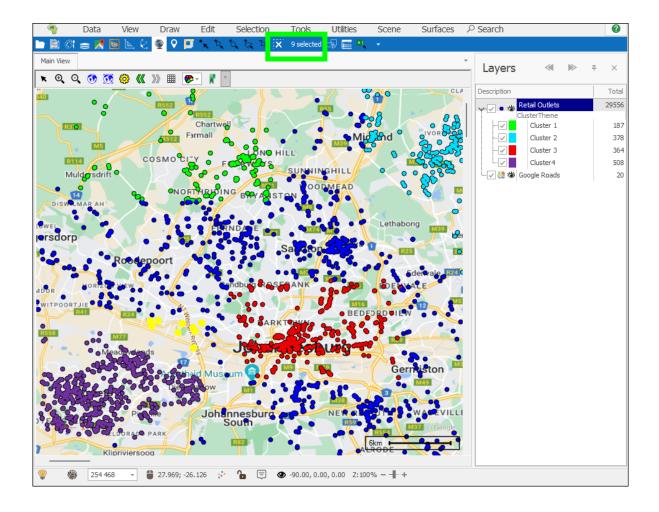
Moving Points from One Cluster to Another

In the **Cluster Name** dropdown box select the cluster you want to move points to:

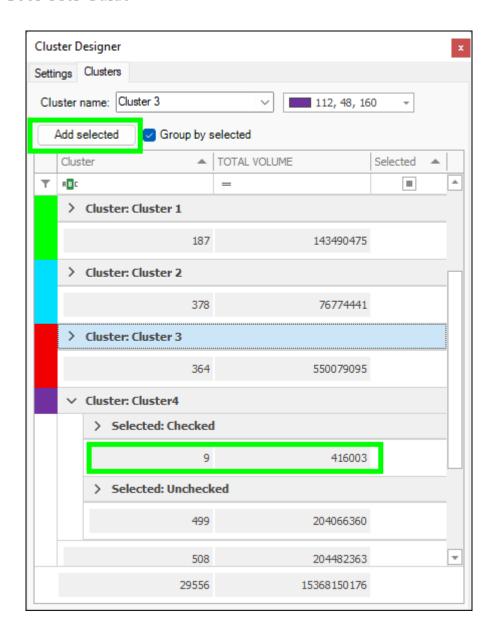


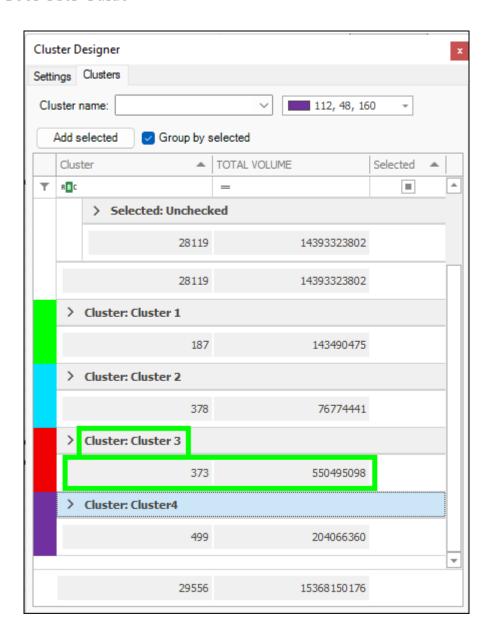
Cluster Tool User Guide

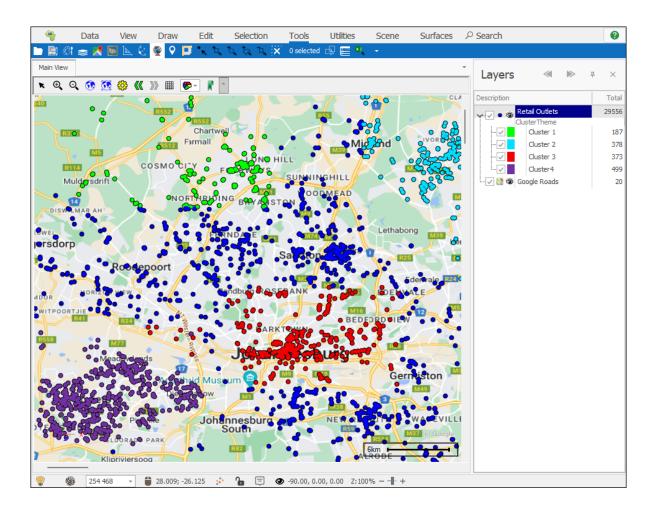
Use one of the map selection tools to select the points you want to move on the map, in this case I want to move some **Cluster 4** points to **Cluster 3**, so I will select the Cluster 4 points I want to move:



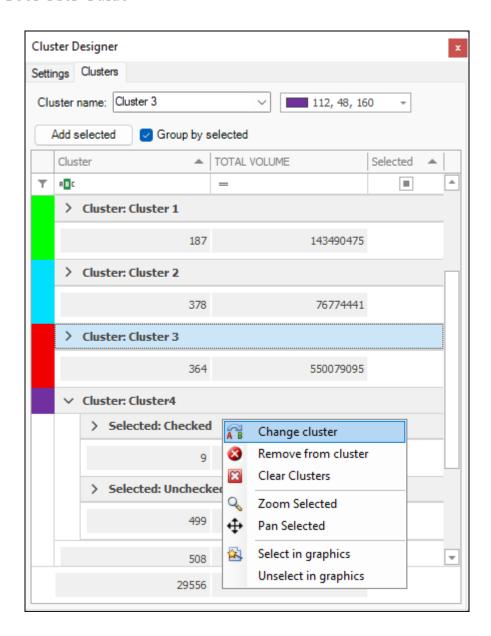
The points I have selected from Cluster 4 is indicated in the grid, I will then click **Add Selected** to add these to Cluster 3, the values of Cluster 3 will then update:



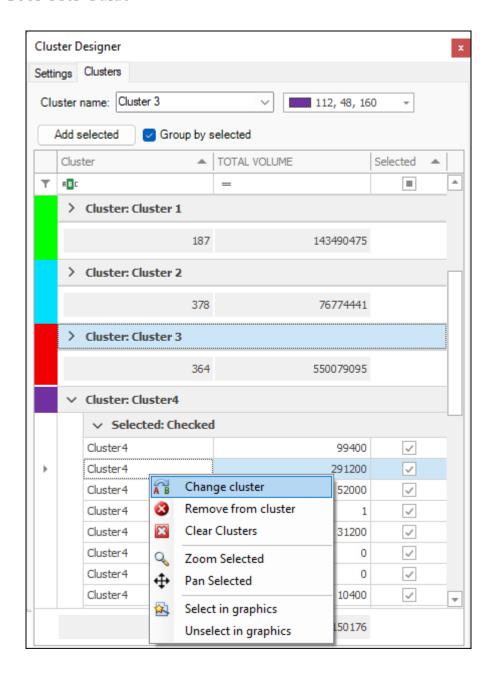




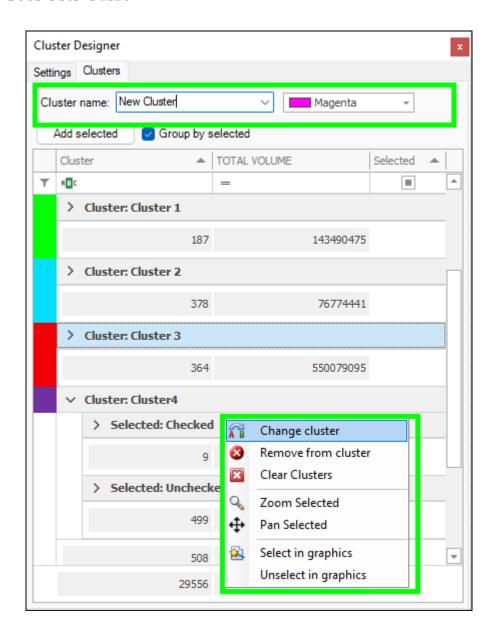
You can also move points to another cluster by right clicking on the selected items (**Selected:Checked** header) in the grid and then choose **Change cluster**, make sure the cluster you want to change to is selected in the **Cluster name** box:



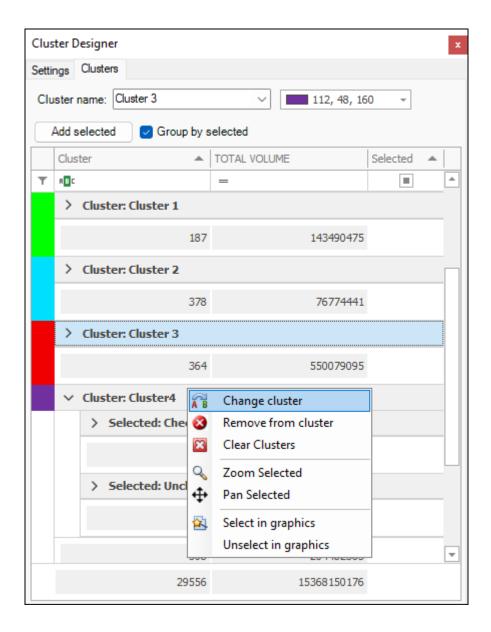
By dropping down on the **Selected:Checked** header you can also choose specific points out of the selected to add to the different cluster:



With moving points from one cluster to another, you can move to an existing cluster or you can even specify a new cluster name in the **Cluster name** box for the points to be moved to:

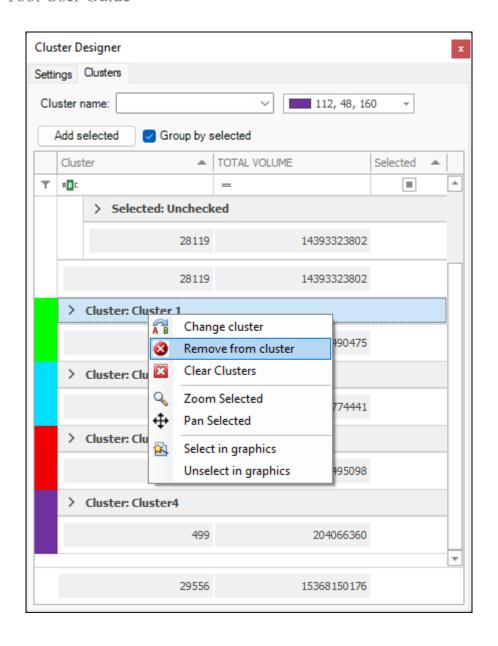


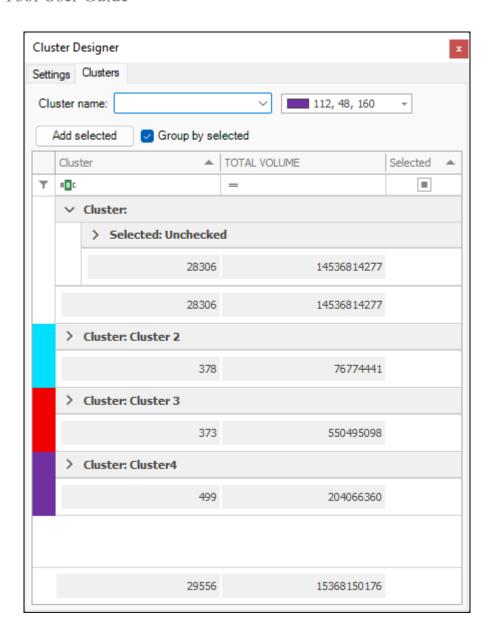
You can also move an entire cluster, and not just selected points in it, to another cluster by right clicking on the Cluster heading itself and then selecting **Change Cluster**:



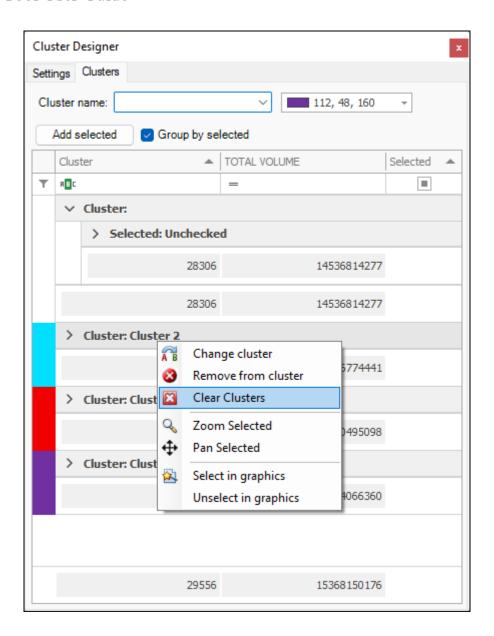
Removing a Cluster

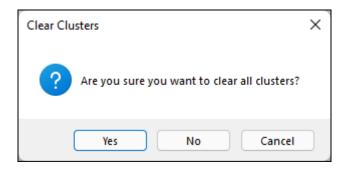
To remove a cluster right click the name of the cluster and click **Remove from cluster**:





To remove all clusters right click a row and click Clear Clusters:



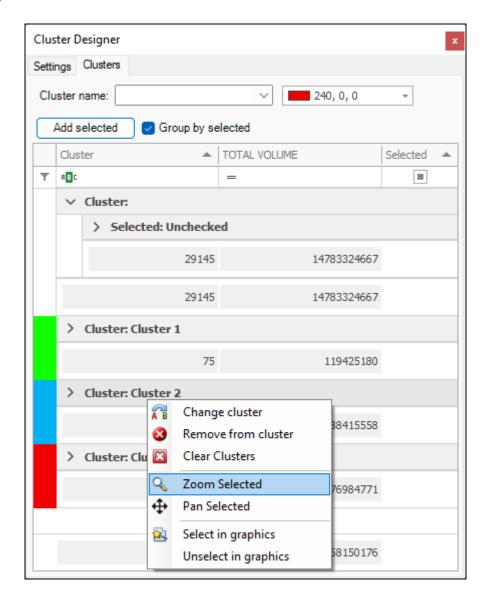


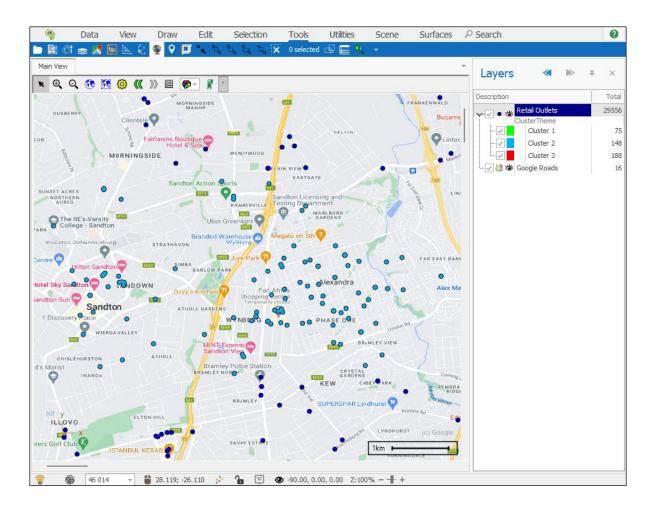
And then say Yes.

Extra Points and Features

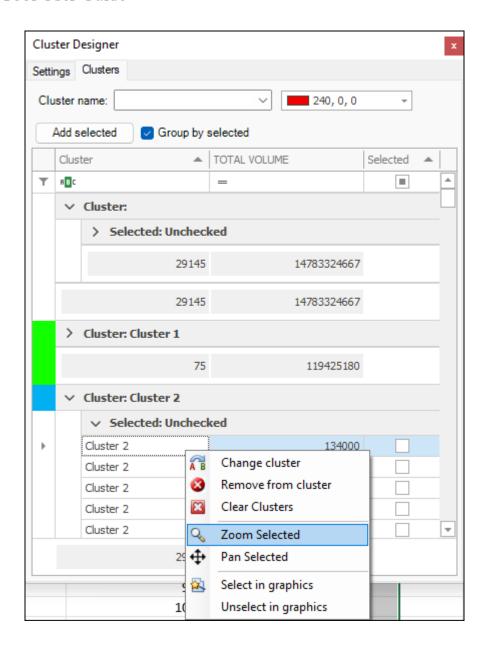
By right clicking on a Cluster or specific items in the Cluster grid of the Cluster Designer box, you can zoom, pan to and select those items in the scene.

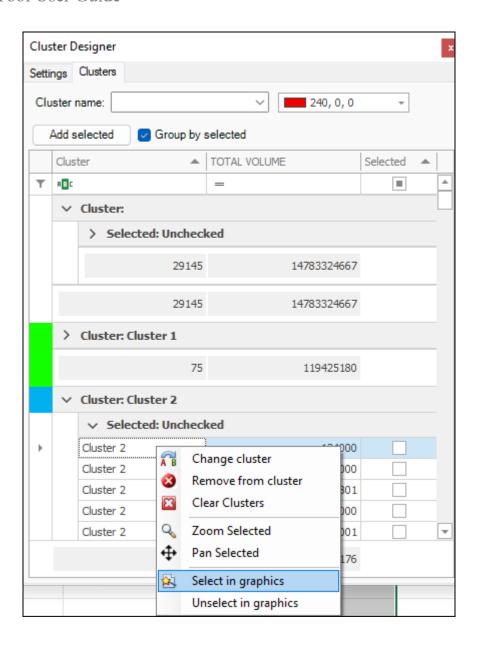
Zooming to a Cluster:

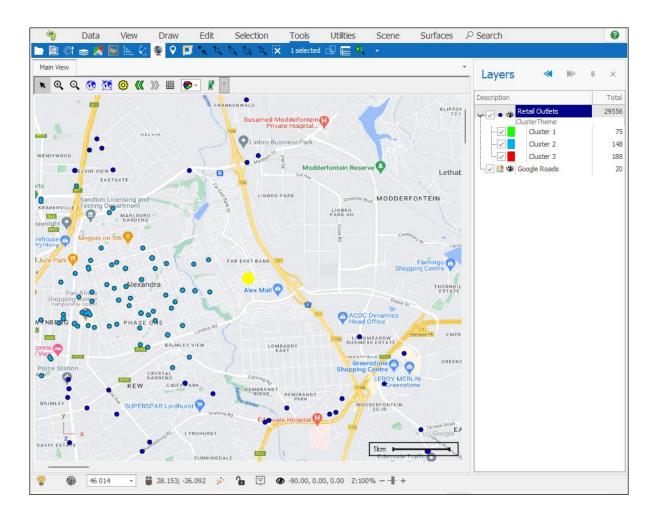




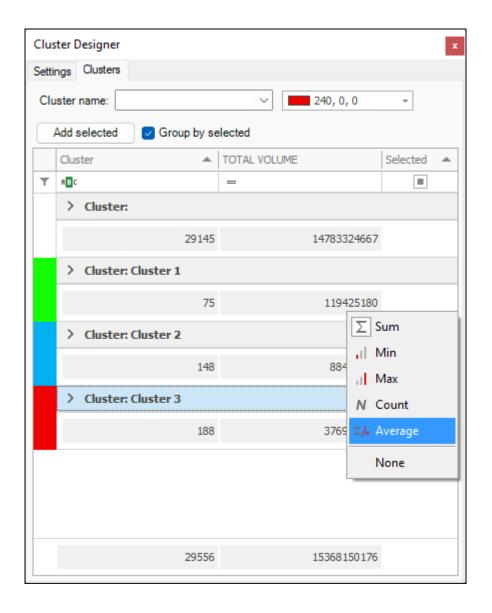
Zooming to a specific item in a Cluster and selecting it in graphics as well:

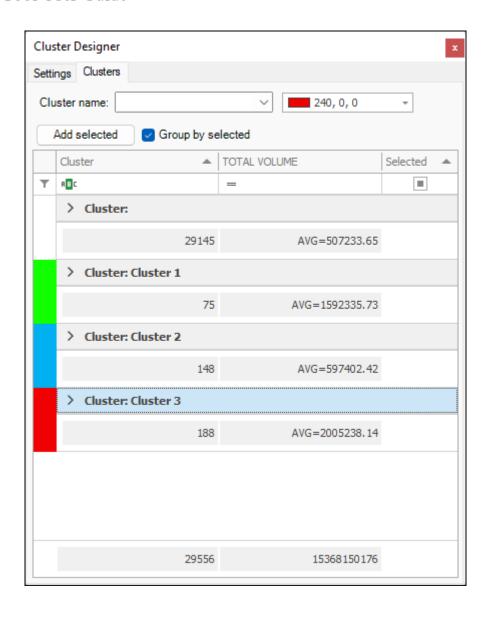






You can also do different aggregations on the values given in the grid by right clicking and changing the aggregation type. For example, here I will change this sum aggregation on my Total Volume column that's being done by right clicking and selecting **Average**:





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