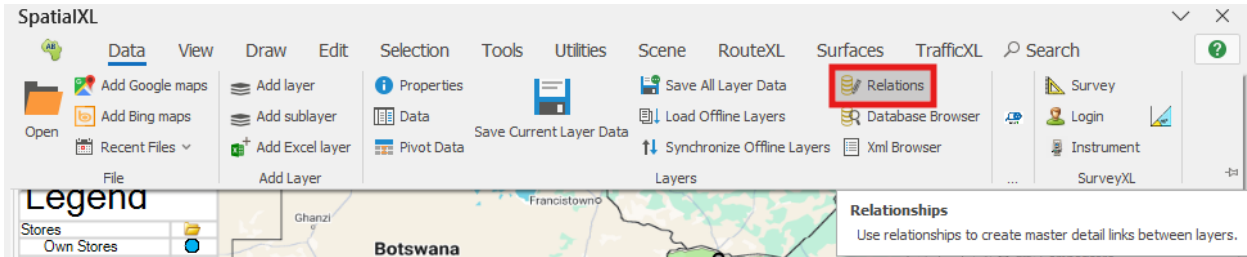
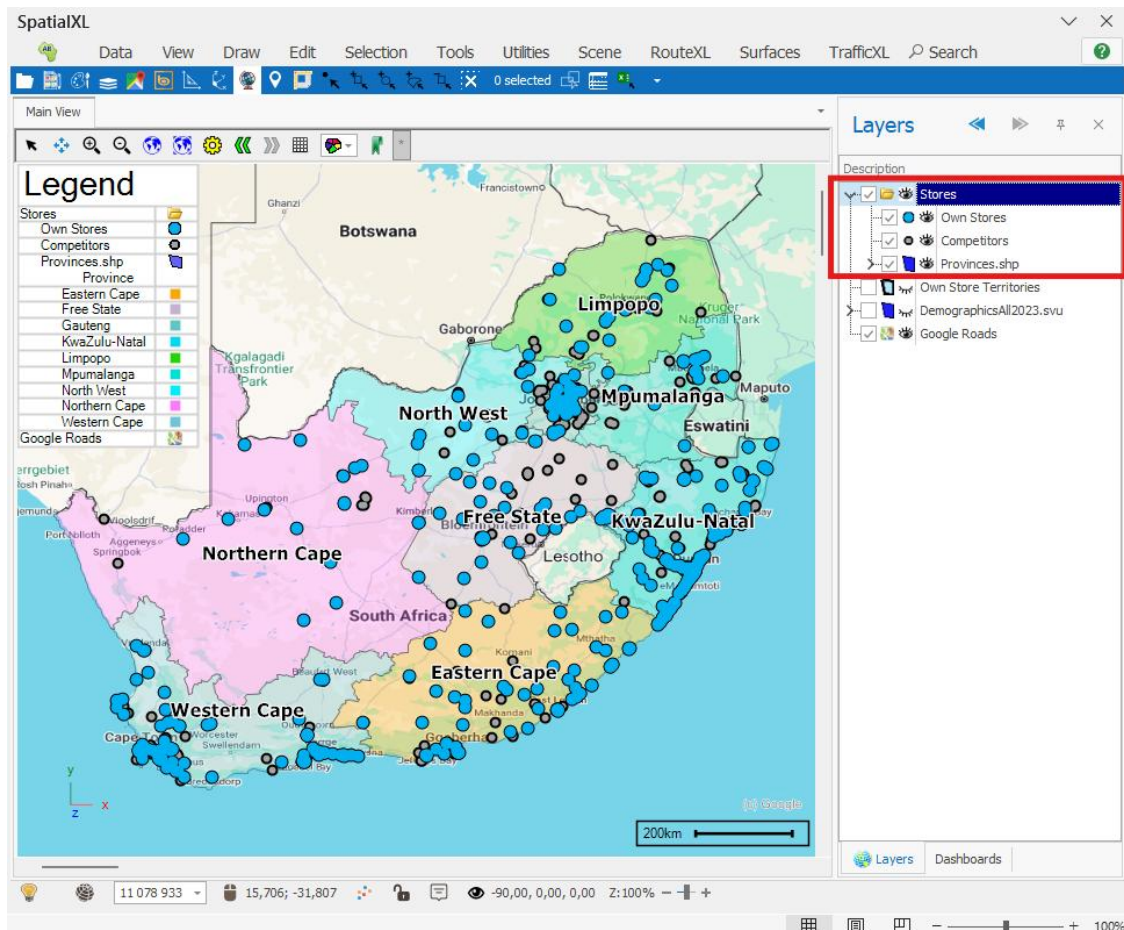


Relations

Relations is a feature available in all our spatial products. It is found in the **Data** tab of the spatial pane:

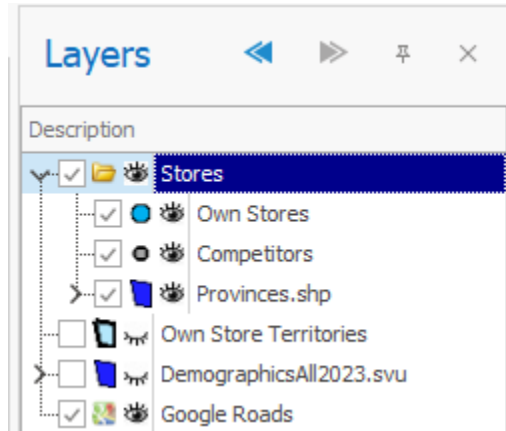


This tool is used to create master-detail links between layers. It works with top-level layers, meaning a layer that contains a set of sublayers:

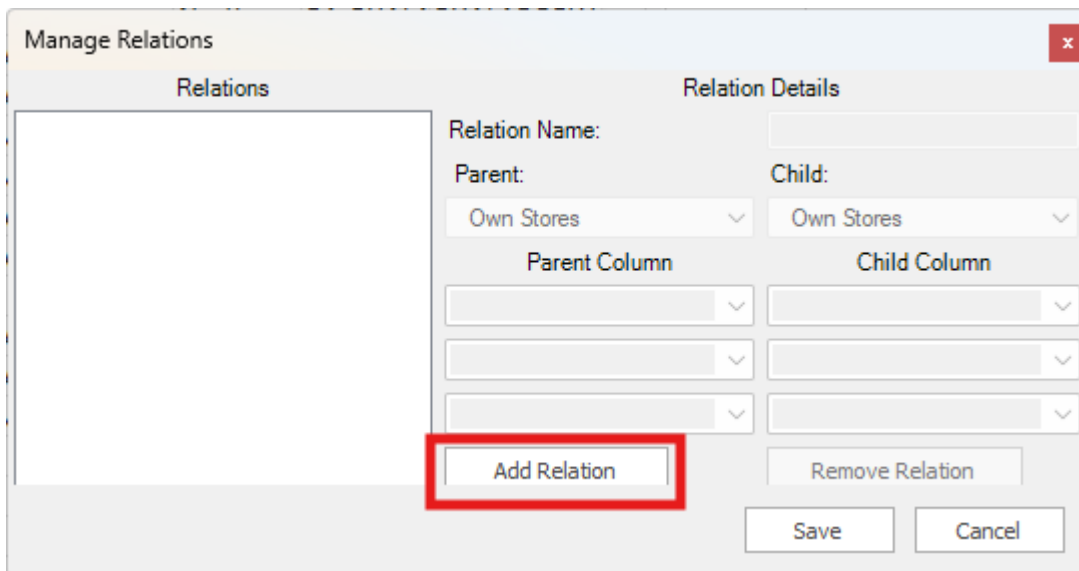


In this example I will be creating a link between my **Provinces** layer and my **Own Stores**, and **Competitors** layer.

1. I start by having my top-level, containing layer called **Stores** highlighted by clicking on it:



2. I then click on the **Relations** tool which brings up a dialogue where I can set up relations for this layer. Click {Add Relation}:



3. The new relation is shown in the “Relations” box to the left. Enter in the relation name by typing in the “Relation Name:” field.

Manage Relations

| Relations | Relation Details | |
|----------------|------------------|-----------------|
| Province-Store | Relation Name: | Province-Store |
| | Parent: | Child: |
| | Parent Column | Child Column |
| | | |
| | | |
| | | |
| | Add Relation | Remove Relation |
| | Save | Cancel |

- Then, specify the parent and child layers by choosing them from the “Parent:” and “Child:” dropdowns.

The parent layer must be the layer that will have unique values in the column of its data that you will be linking to.

In this example, my Provinces layer is the parent with unique values in its “Province” column for each province of the country.

Then, my Own Stores layer is the child layer as it has a corresponding column in its data specifying the province that each store is in.

Manage Relations

| Relations | Relation Details | |
|----------------|------------------|-----------------|
| Province-Store | Relation Name: | Province-Store |
| | Parent: | Child: |
| | Provinces.shp | Own Stores |
| | Parent Column | Child Column |
| | | |
| | | |
| | | |
| | Add Relation | Remove Relation |
| | Save | Cancel |

- Specify the columns in each layer that you will be linking on. The values in the column of the parent and child layer must correspond. In this example, it will just be the “PROVINCE” column in each layer.

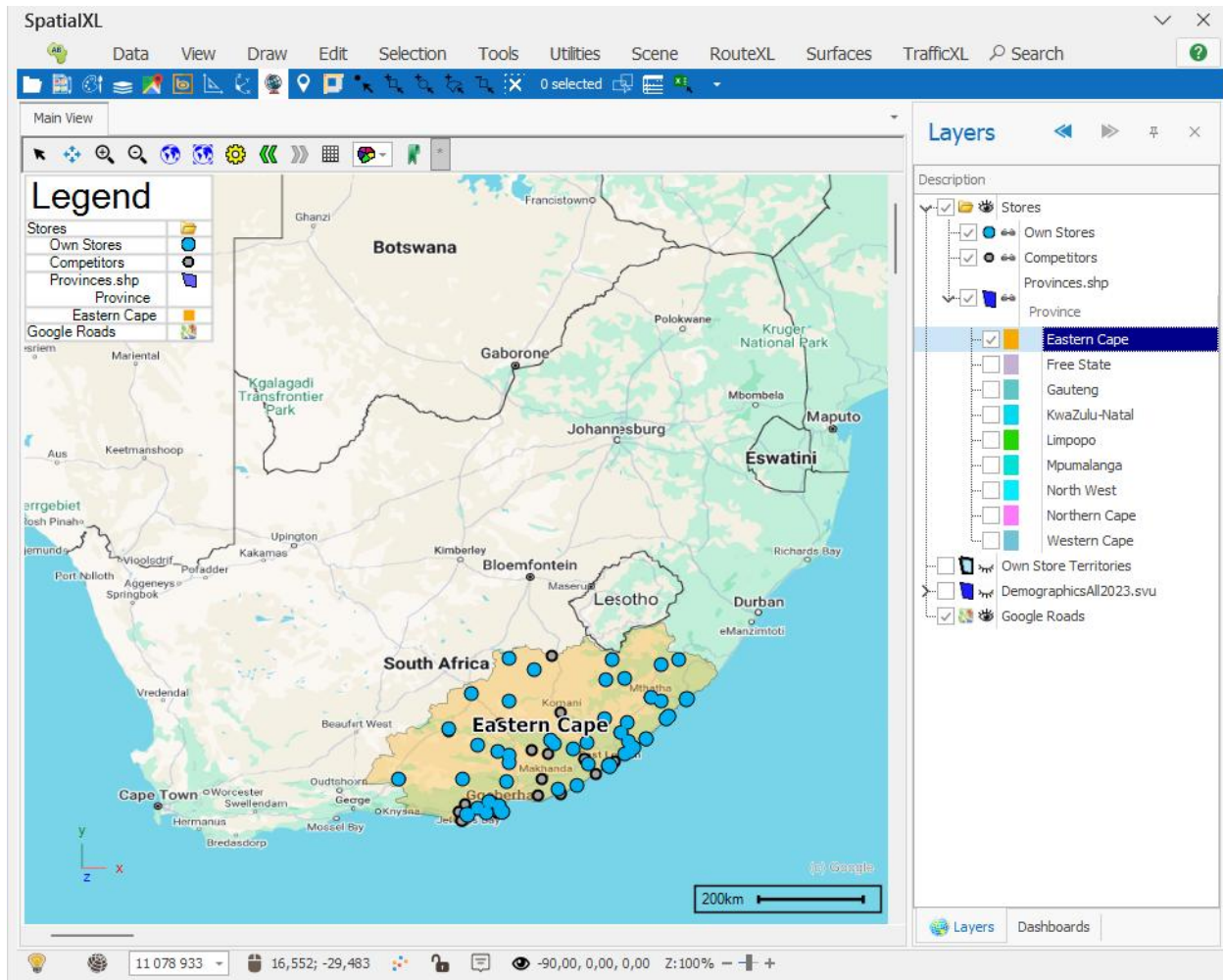
The screenshot shows the 'Manage Relations' dialog box. On the left, a list of relations includes 'Province-Store'. The 'Relation Details' section on the right is configured as follows: 'Relation Name' is 'Province-Store', 'Parent' is 'Provinces.shp', and 'Child' is 'Own Stores'. A red box highlights the 'Parent Column' and 'Child Column' dropdown menus, both of which are set to 'PROVINCE'. At the bottom, there are buttons for 'Add Relation', 'Remove Relation', 'Save', and 'Cancel'.

- I will then add one more relation by clicking the {Add Relation} button again. I give it name and set up all fields just like I did for the one before. This relation will also be linking on province but this time it is between my Provinces layer and my Competitors layer.

The screenshot shows the 'Manage Relations' dialog box. On the left, a list of relations includes 'Province-Store' and 'Province-Competitor'. The 'Relation Details' section on the right is configured as follows: 'Relation Name' is 'Province-Competitor', 'Parent' is 'Provinces.shp', and 'Child' is 'Competitors'. The 'Parent Column' dropdown menu is set to 'PROVINCE' and the 'Child Column' dropdown menu is also set to 'PROVINCE'. At the bottom, there are buttons for 'Add Relation', 'Remove Relation', 'Save', and 'Cancel'.

- When done, click {Save}.

8. My layers are now linked, so if I now filter on my parent Provinces layer, the linked child layers are automatically filtered out too.



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