



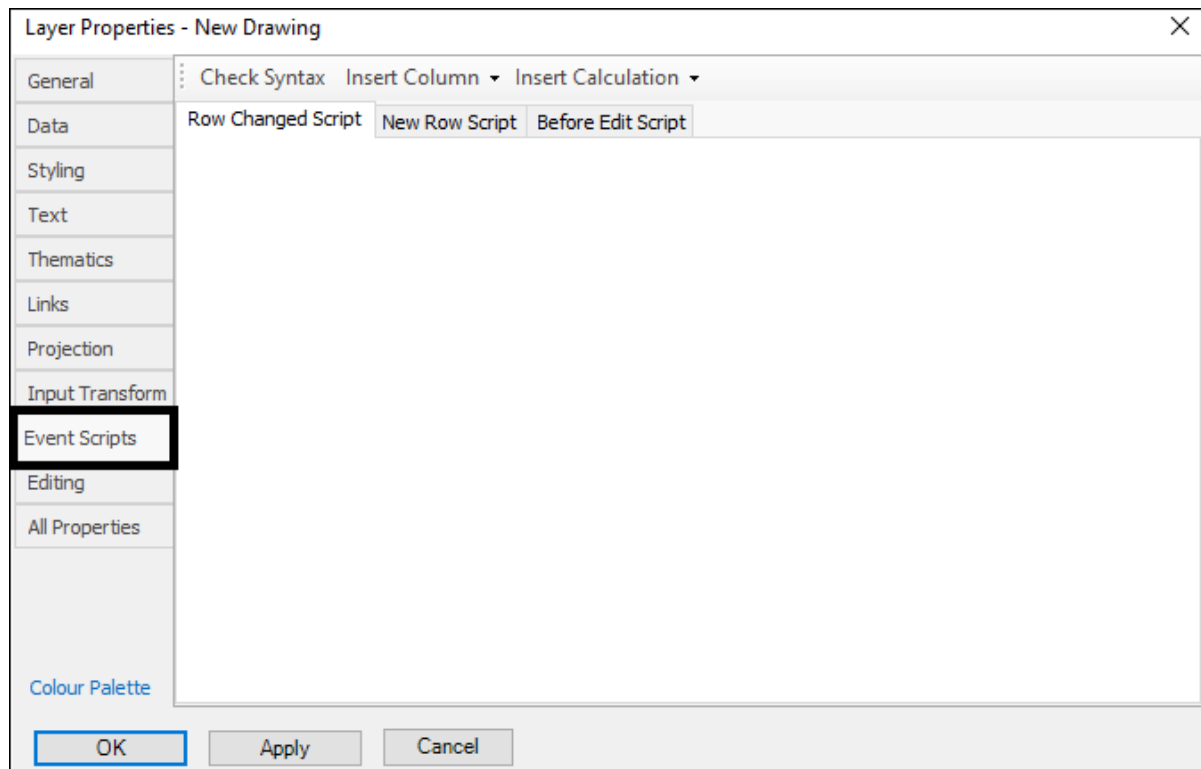
Event Scripts User Guide

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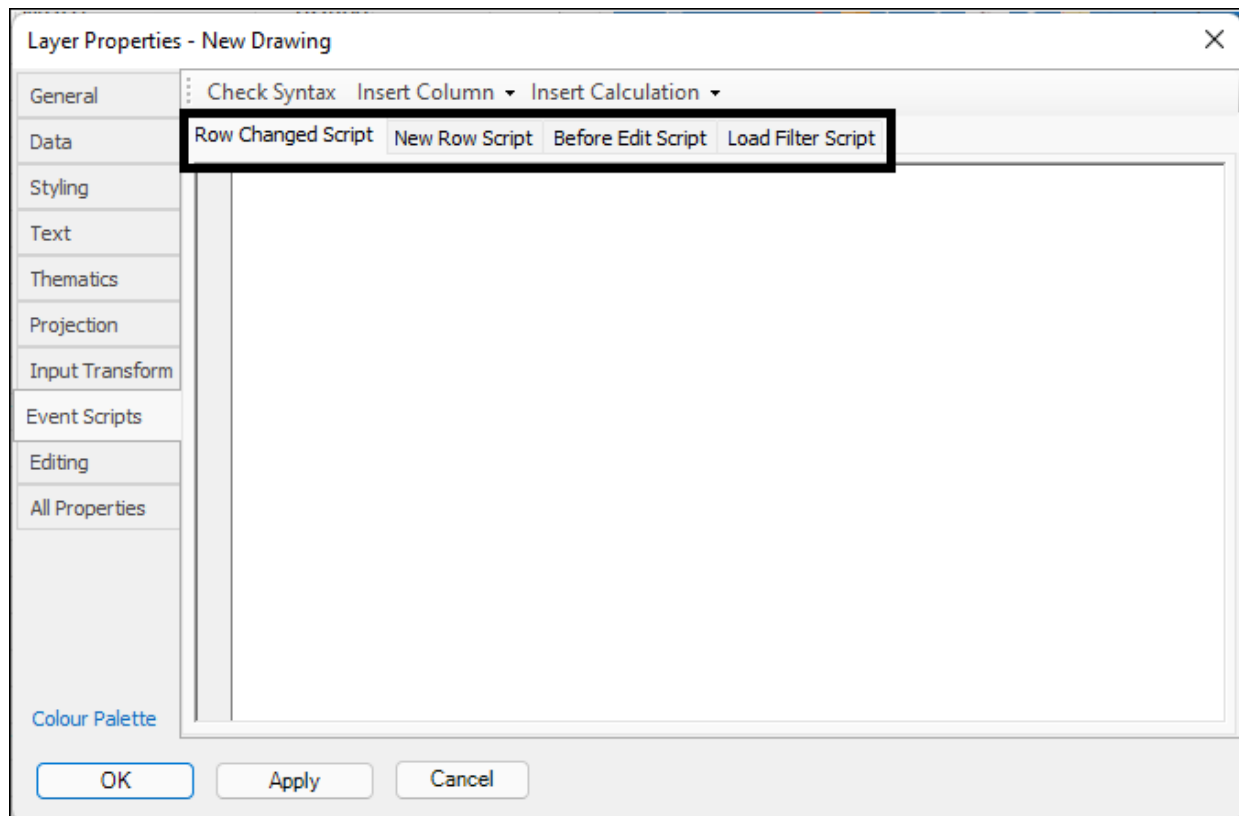
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Introduction

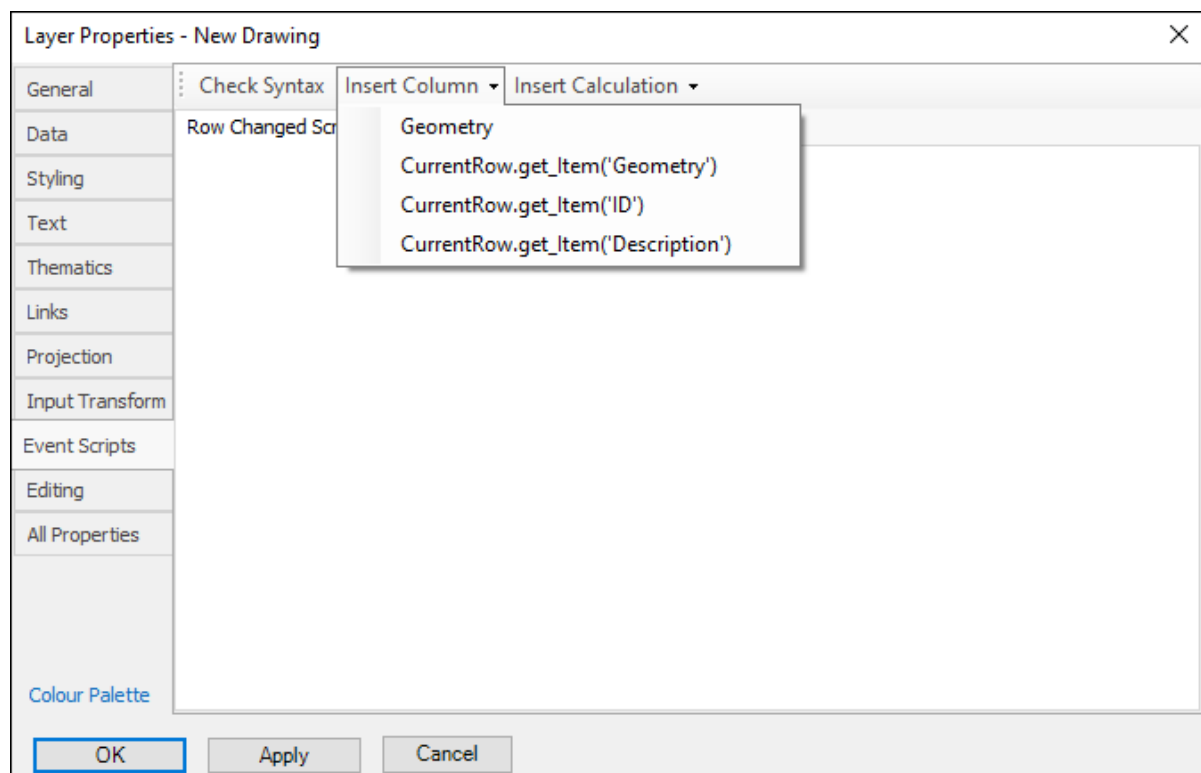
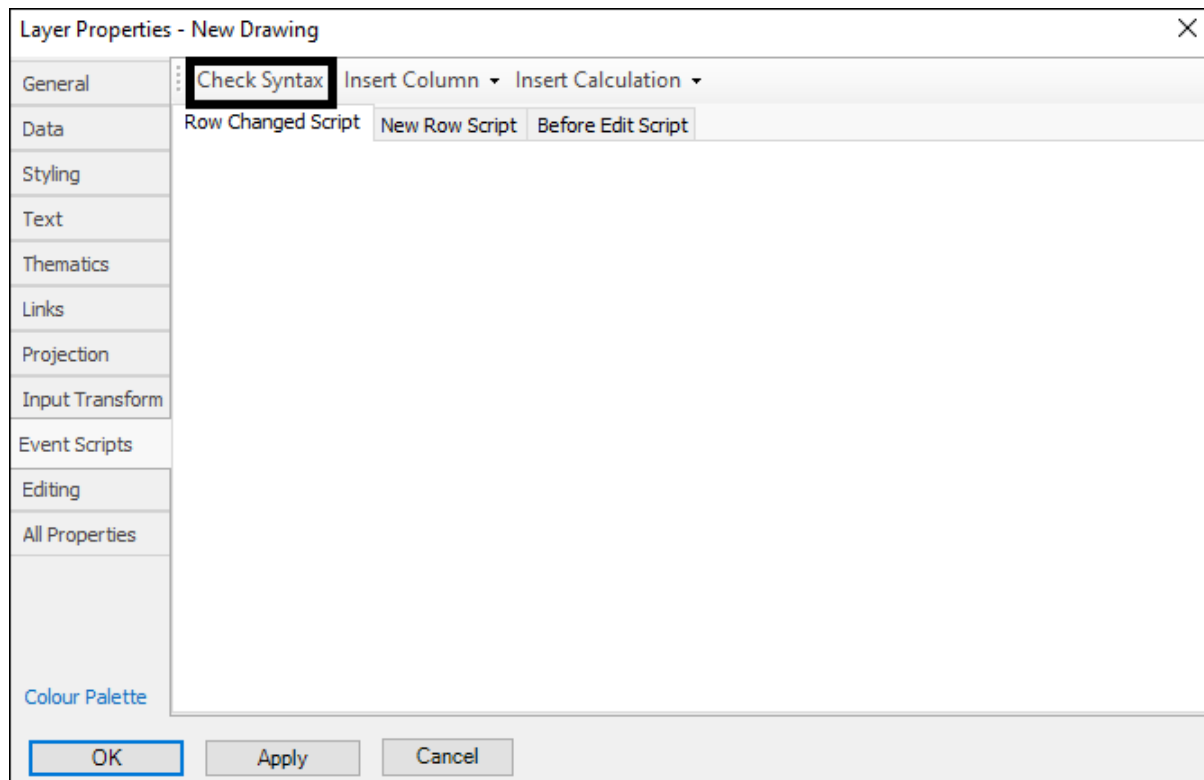
Event Scripts is a feature available in all our spatial products where you can create scripts of your own for various events that can happen to a layer. Each time the event occurs in the layer, the script is then run. This uses JavaScript. It is found in the Layer Properties box:

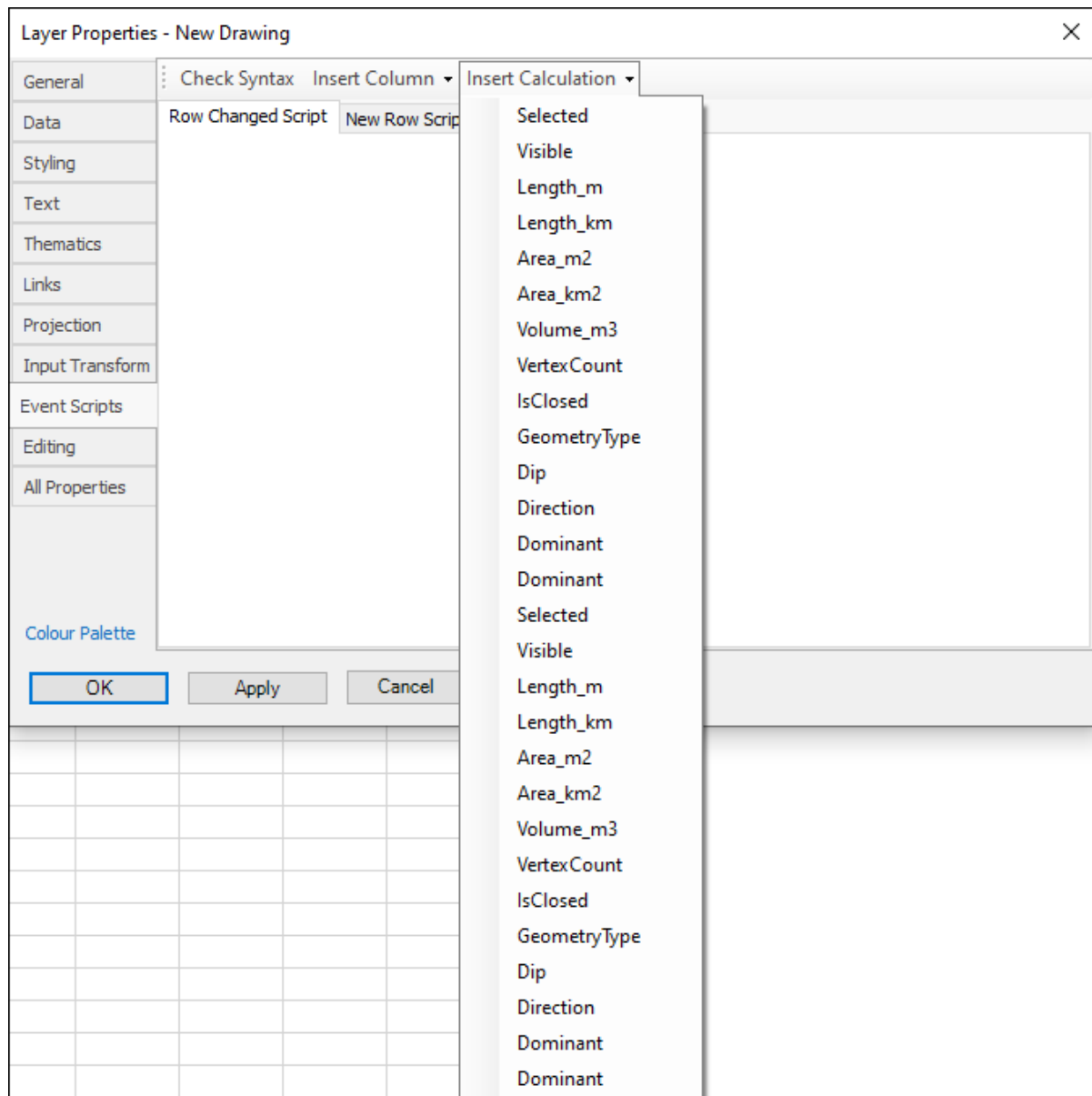


There are four different kinds of event scripts that can be created: **Row Changed Script**, which will run the script whenever a row is changed in the layer data; **New Row Script** which will run the script whenever a new row is added to the layer data; **Before Edit Script** which runs a script before editing of the layer data is allowed to happen; and **Load Filter Script** which will run a script that will filter the data when data is loaded into the layer from an external source like an Excel sheet so that only the data you want to look at is loaded and no more:

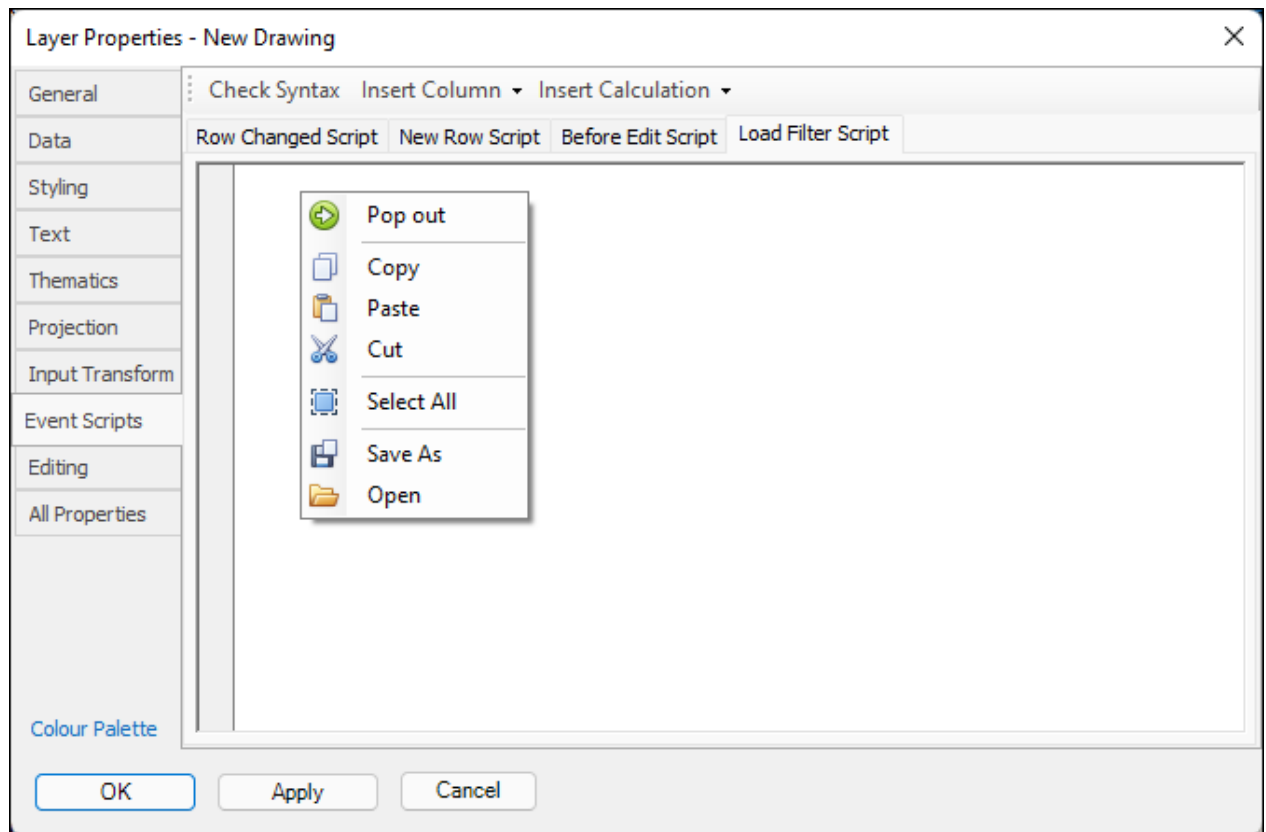


Above these tabs are buttons that can be used for the scripts. **Check Syntax** will do a check of the syntax of your script and if all good it will let you know. **Insert Column** allows you to insert a column from your layer data into the script and **Insert Calculation** allows you to insert various calculations for your script:

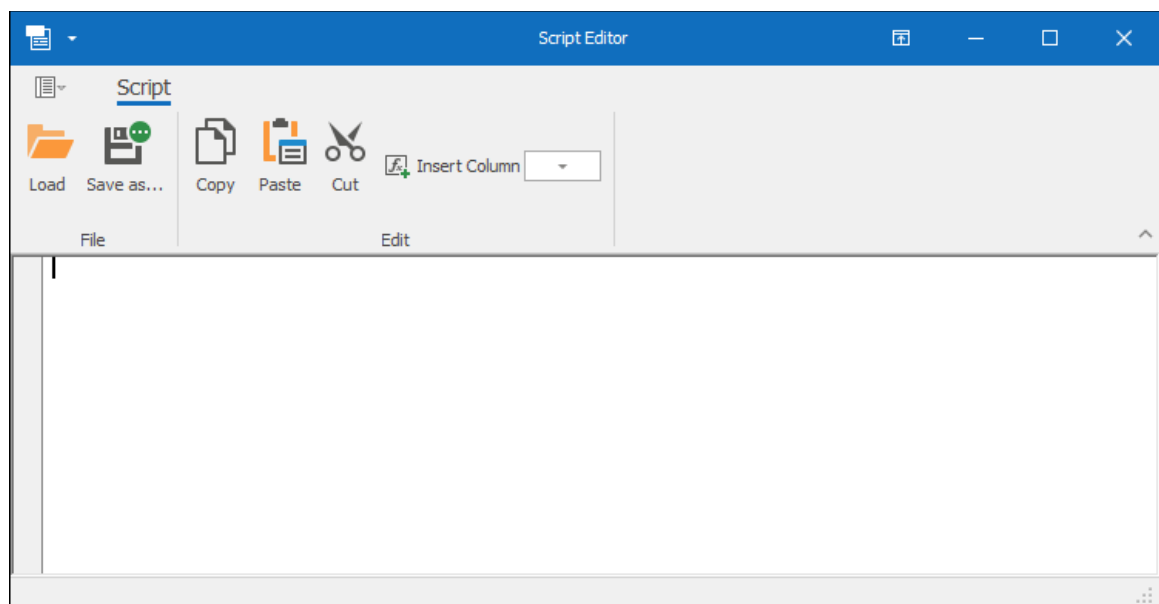




Scripts can be saved out and opened using the context menu that comes up when right clicking:



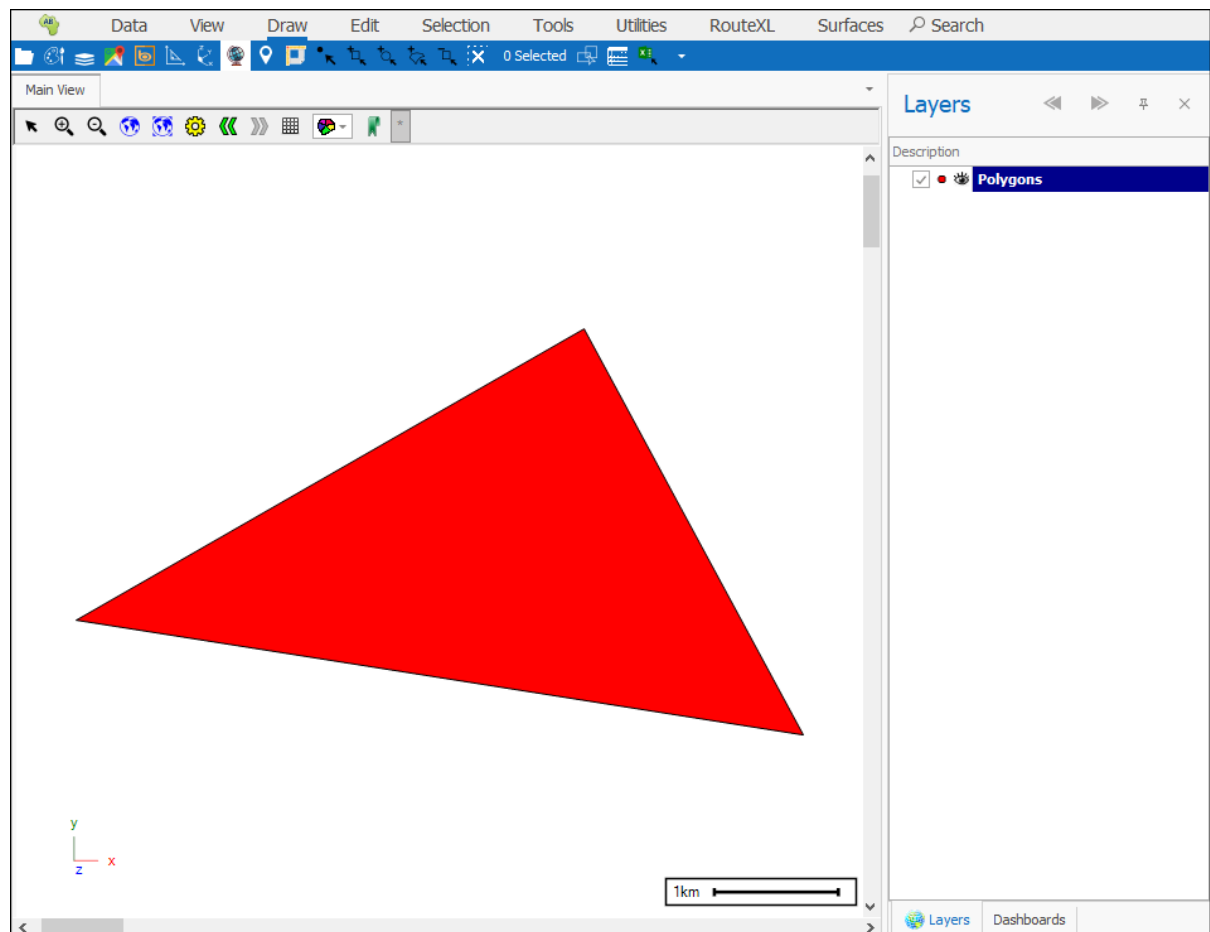
Furthermore, the scripting area can be popped out into its own Script Editor window by selecting **Pop out** from the context menu. This can also be done by **ctrl P**:



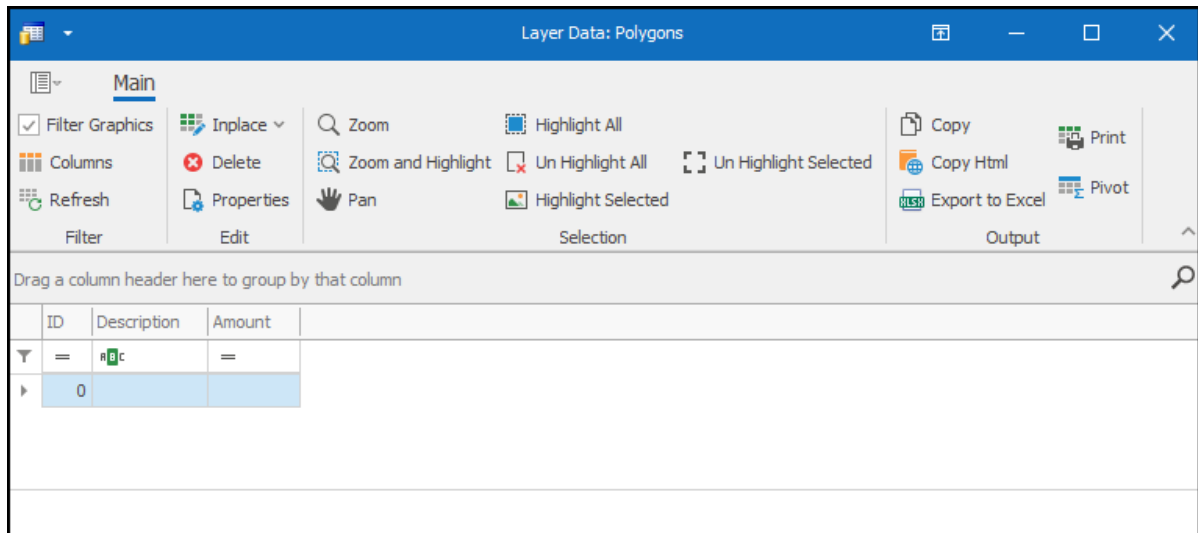
Full intelligent code completion is available in all these scripting areas with error highlighting.

Row Change Script

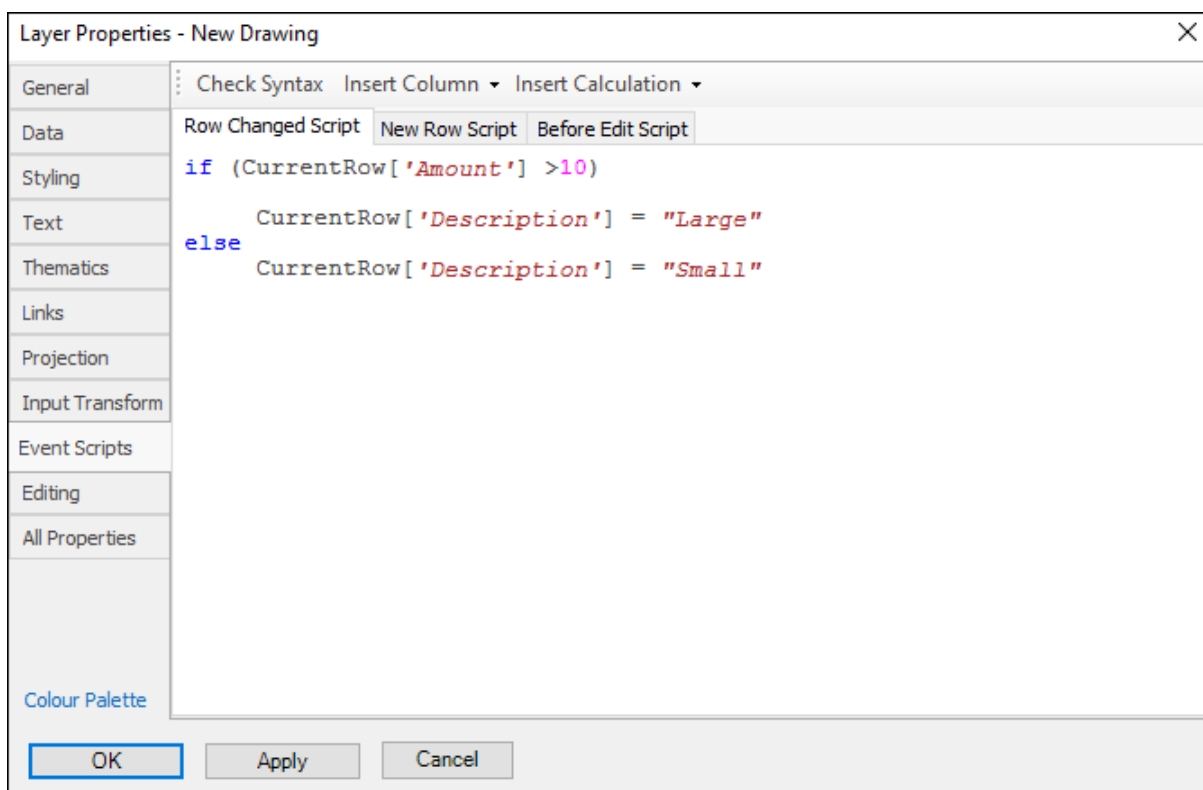
We will now do an example to show you how the **Row Changed Script** feature works. I have the following layer:



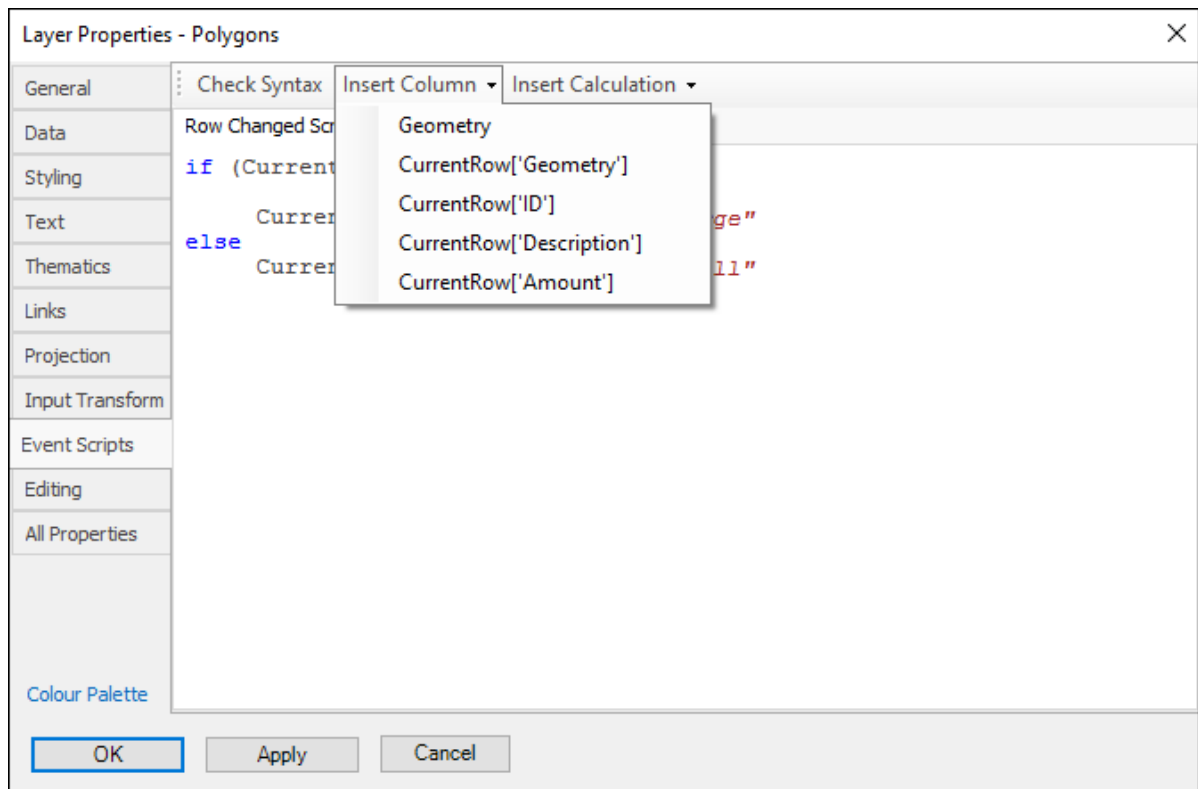
It has the following columns in its layer data:



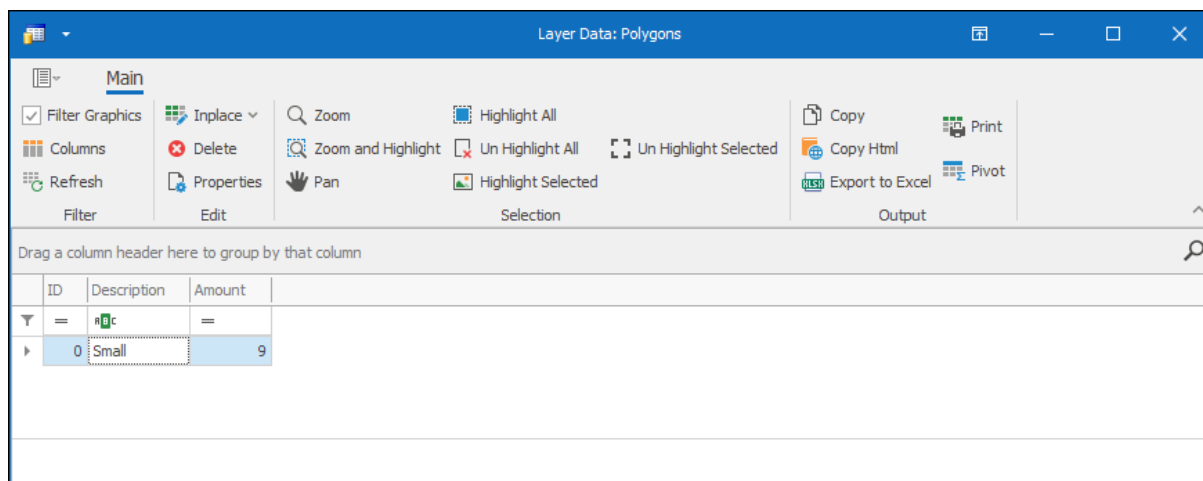
I want to make a script that will make the **Description** of a polygon “Large” or “Small” based on whether the **Amount** of the polygon is greater or smaller than 10; when the **Amount** in the row is changed this script will be run and the **Description** column will populate accordingly. This is the script I made for this:



The columns were entered in the script using the **Insert Column** button:

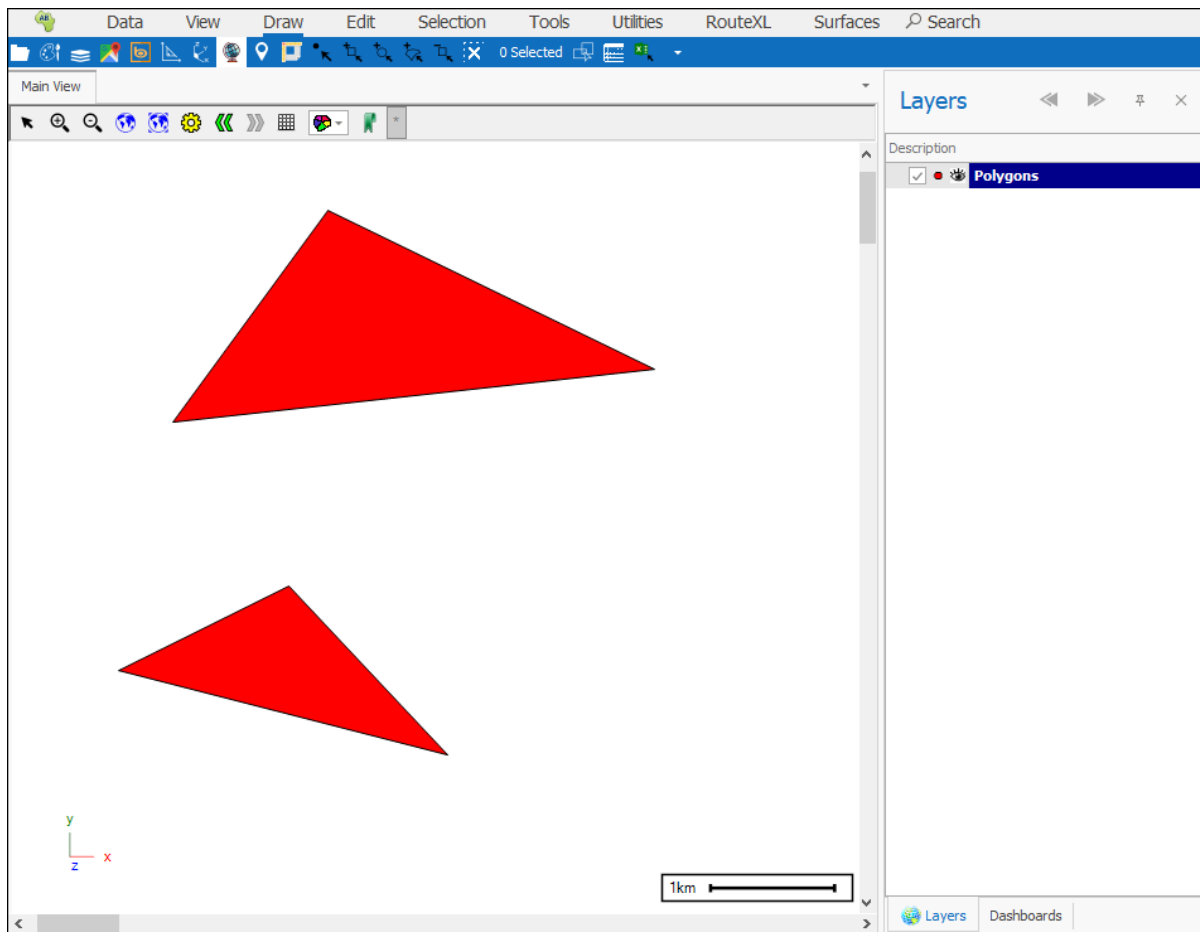


If I now go and enter in an amount in the **Amount** column (Row Changed) the script is run, and the **Description** column populates accordingly:



New Row Script

We will now do an example showing how the **New Row Script** feature works. I have a layer with polygons with the following columns in its layer data:



Layer Data: Polygons

Main

Filter Graphics ☒ Columns Refresh Filter

Inplace ☐ Delete Properties Edit

Zoom Zoom and Highlight Pan Selection

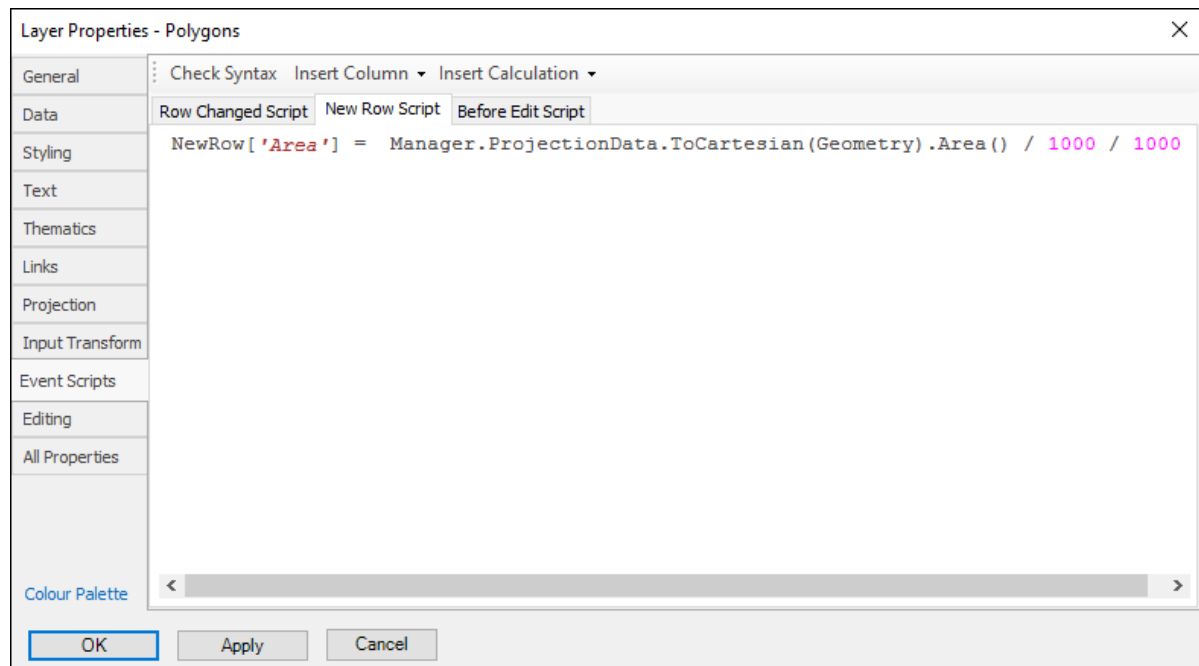
Highlight All Un Highlight All Highlight Selected

Copy Copy HTML Export to Excel Print Pivot

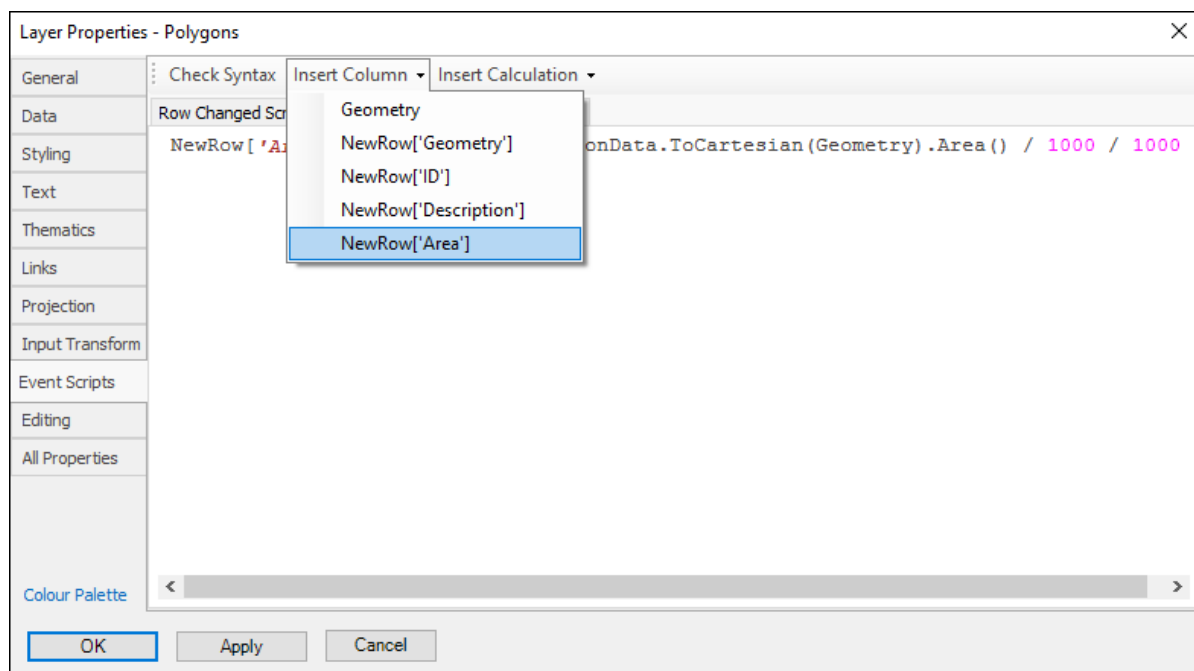
Drag a column header here to group by that column

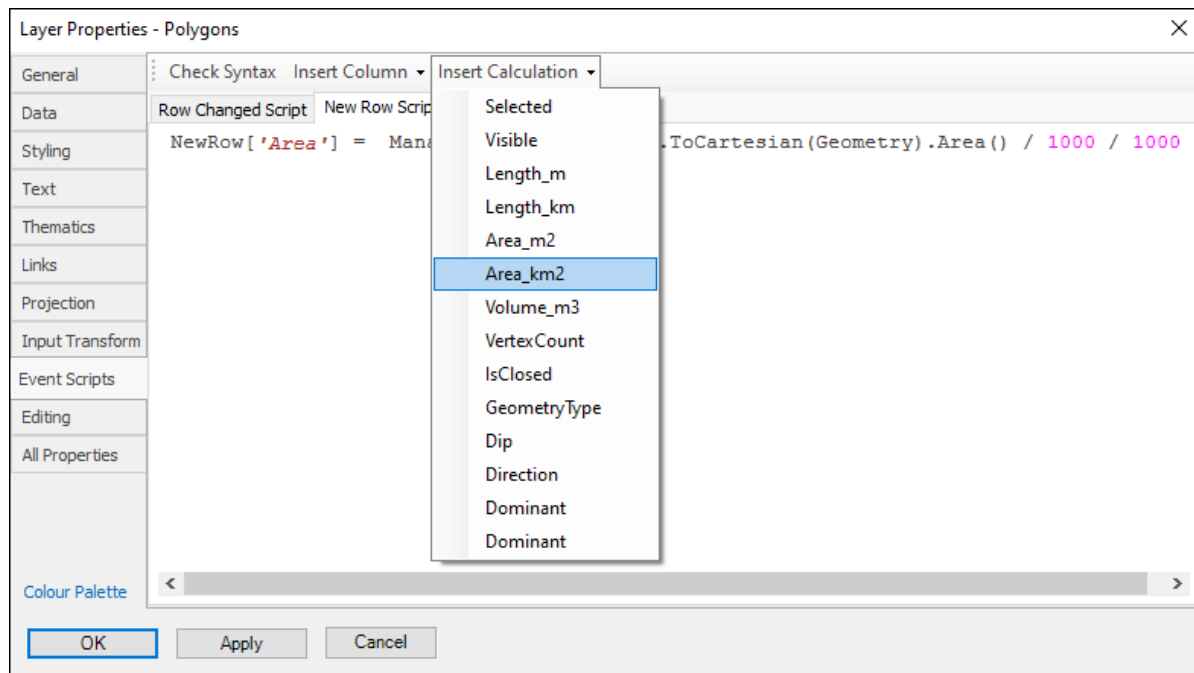
ID	Description	Area
0	Poly1	
1	Poly2	

I have created a script that will cause the **Area** column to be populated with the area of the polygon whenever a new polygon is drawn (New Row):

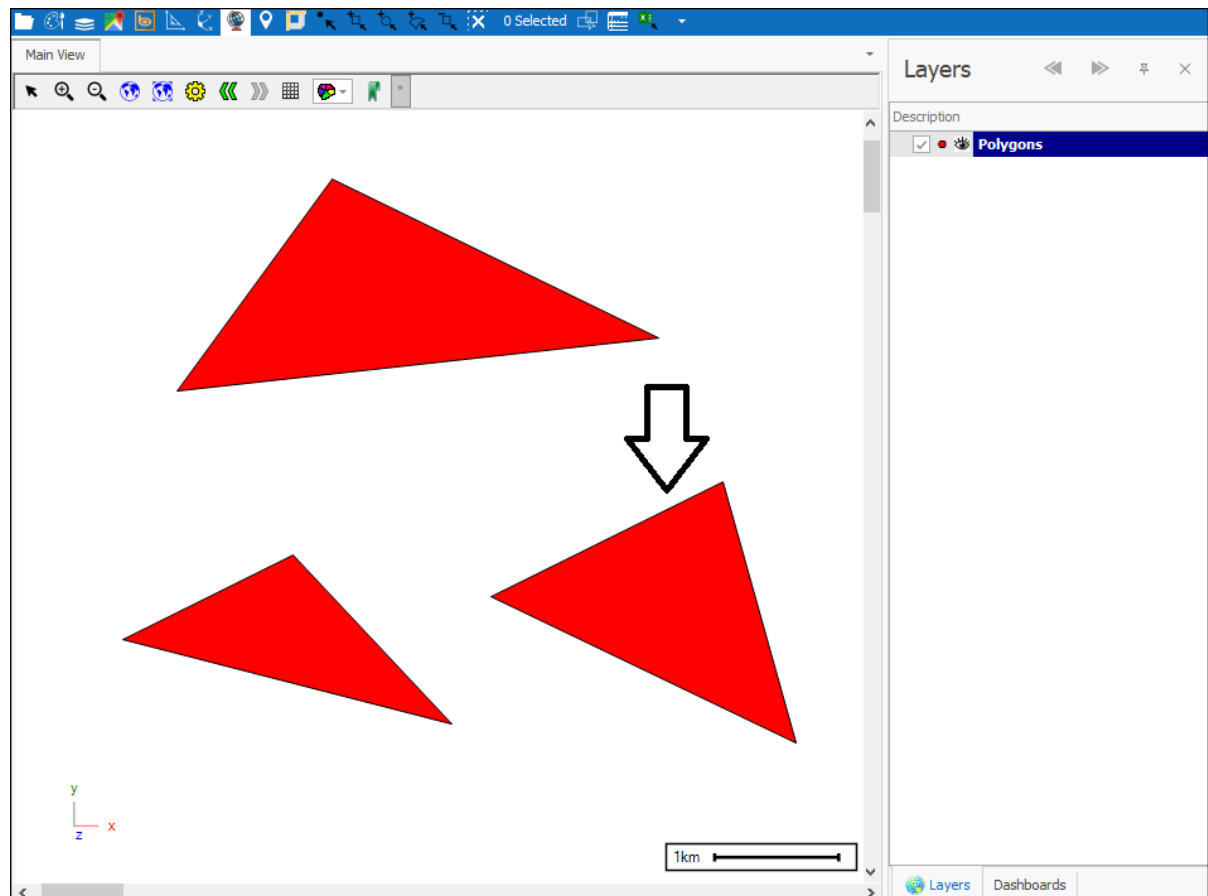


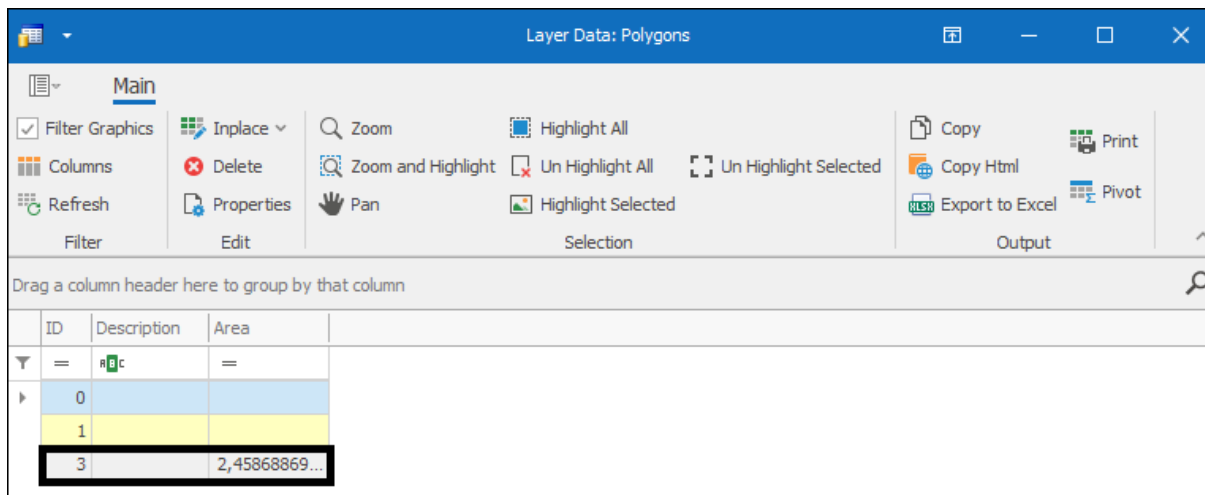
The new row column was entered in the script using the **Insert Column** button and the area calculation was entered using the **Insert Calculation** button:





I will now draw a new polygon to this layer, and the script will run, and the area will be populated in the new row:





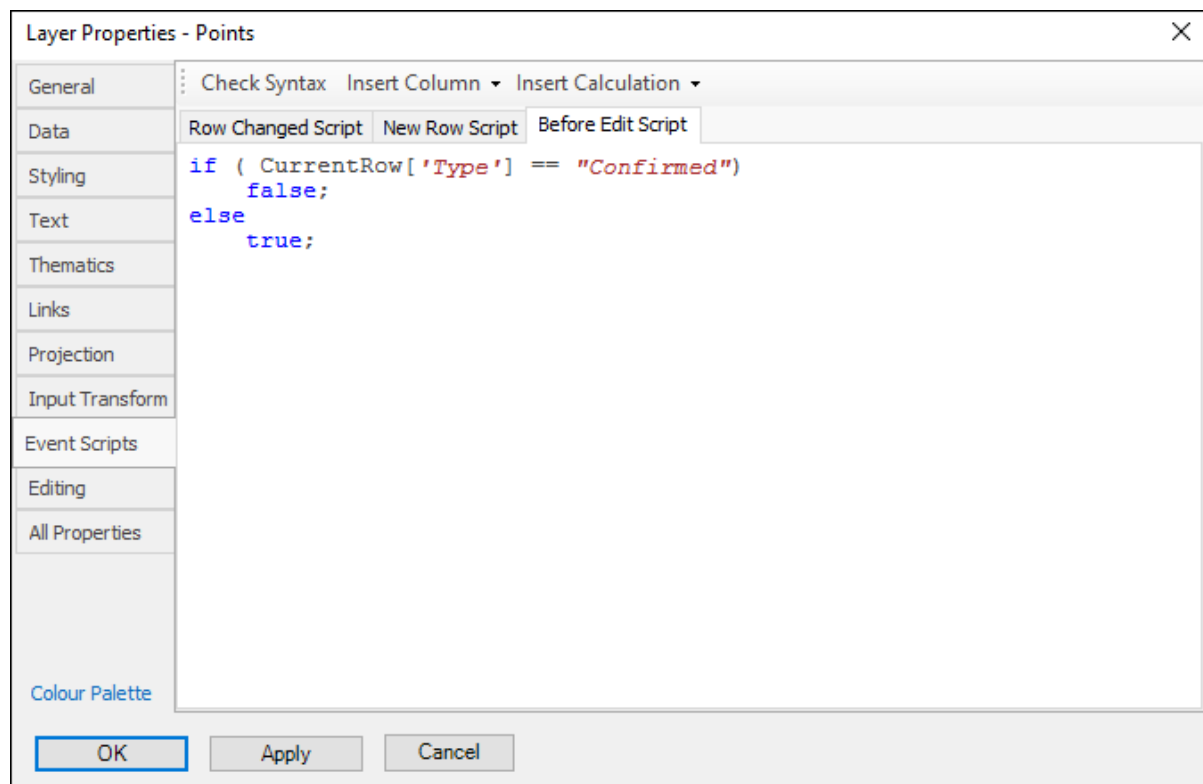
Before Edit Script

We will now do an example to show how the **Before Edit Script** feature works. I have a layer with the following columns in its layer data:

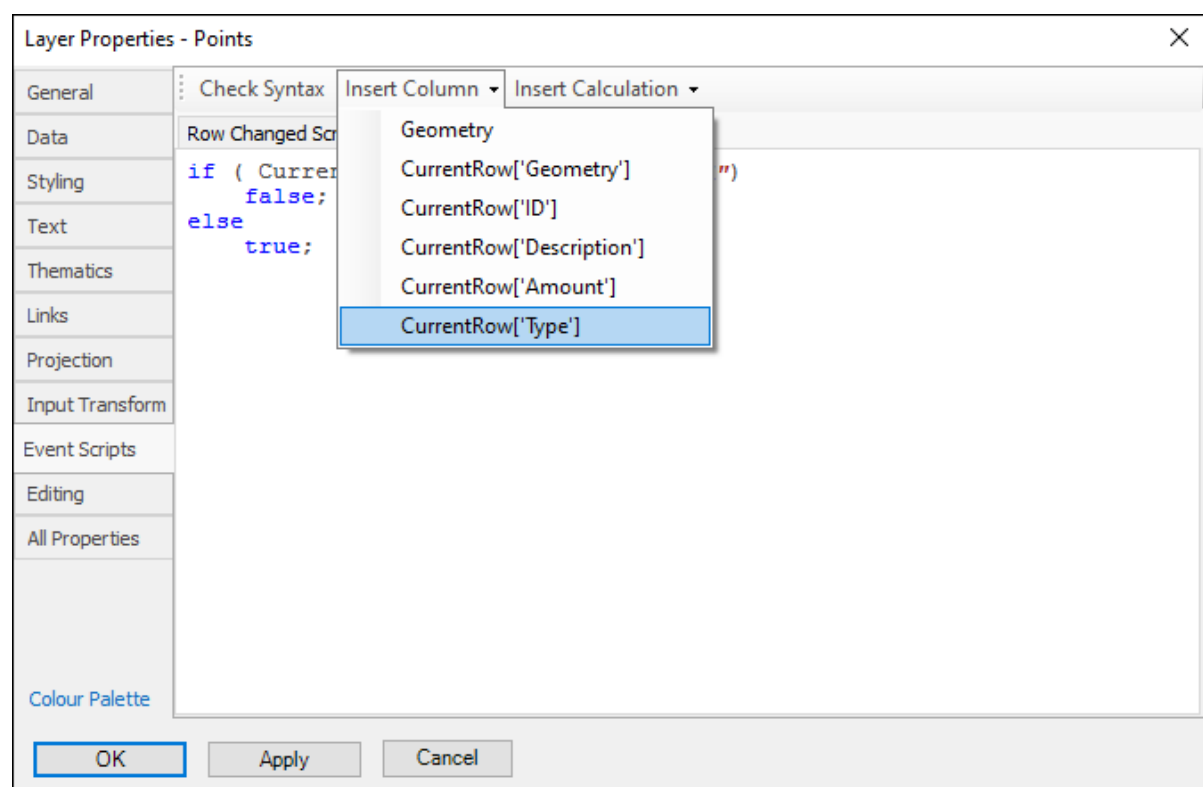
The screenshot shows the 'Layer Data: Points' window. The table has the following data:

ID	Description	Type	Amount
0	Point1	Confirmed	2800
1	Point2	Unconfirmed	3544

I created a script that will not allow me to edit rows which have their **Type** as **Confirmed**:



Again, I entered the row in the script using the **Insert Column** button:



I will now try and edit the row of **Confirmed** type and it doesn't let me, but I can edit the **Unconfirmed** row:

Layer Data: Points

Main

Filter Graphics

Columns

Refresh

Filter

Inplace

Delete

Properties

Edit

Zoom

Zoom and Highlight

Pan

Selection

Highlight All

Un Highlight All

Un Highlight Selected

Highlight Selected

Copy

Copy Html

Export to Excel

Output

Print

Pivot

Drag a column header here to group by that column

	ID	Description	Type	Amount
0	Point1	Confirmed	2800	
1	Point2	Unconfirmed	100	

Load Filter Script

We will now do an example of the **Load Filter Script**. I have an Excel spreadsheet of retail outlets that I am going to add as a layer, however I don't want every row of that sheet to be added since there are 40,000 rows and I'm only interested in seeing certain outlets so I will specify a load filter script when adding the layer:

Event Scripts User Guide

☐ Show floating
☐ Auto select
☐ Auto zoom

Add Excel layer

☒ Update layer extents
☒ Refresh map
☒ Auto refresh

☒ Zoom selected
☒ Highlight Selection
☒ Zoom and Highlight

☒ Clear all highlights
☒ Add selection to highlights
☒ Remove selection from highlights

Classify
 Cluster data
 Launch

Publish to SpatialServer
 Publish to Geoscope

SpatialXL Version 10.0.0.1

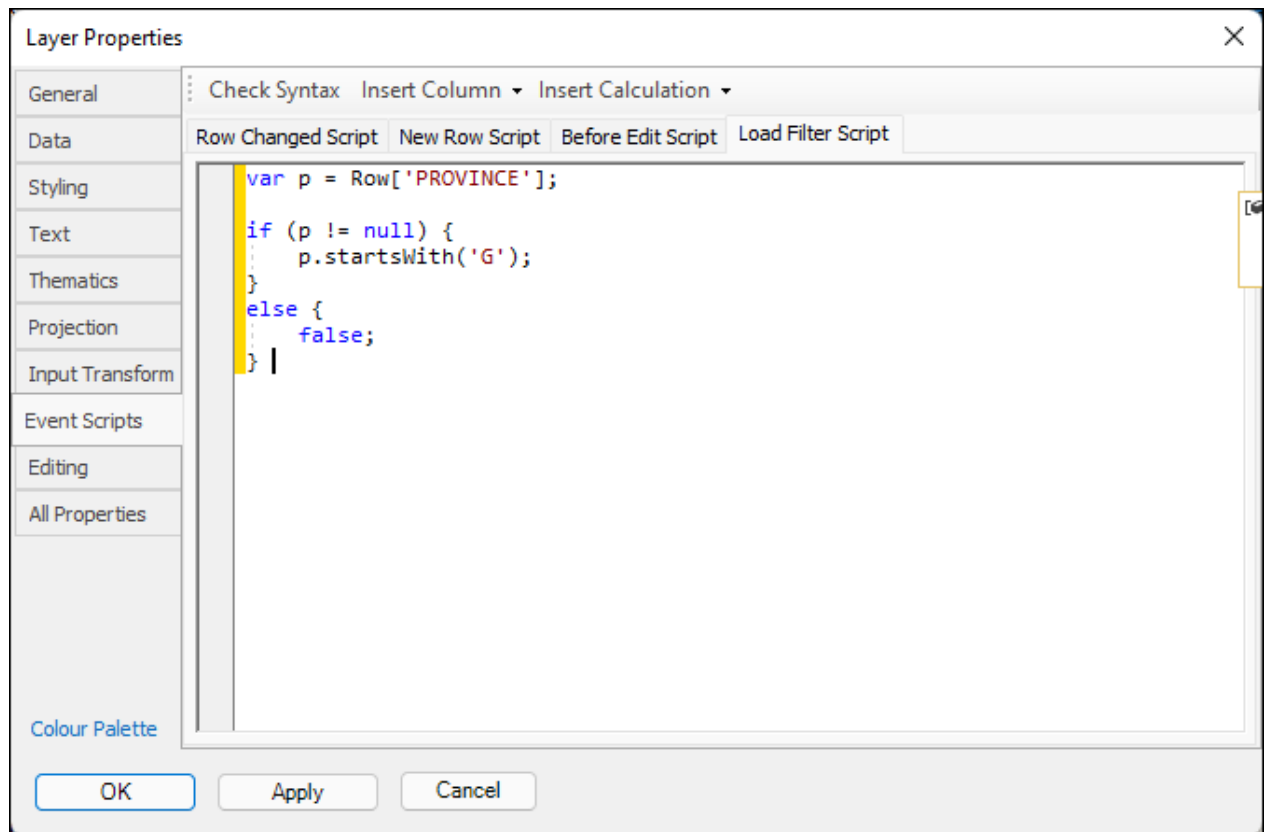
B4
✕ ✓ fx
BATHURST ONE PRICE BIG II

	A	B	C	D	E	F	
	CODE	CUSTOMER NAME	LONGITUDE	LATITUDE	PROVINCE	REGION	MUNICIPALITY
2	36248	FRIENDS CAFE	24.09713915	-29.60127628	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
3	25389	BATHURST ONE PRICE FAIR PRICE	24.14587125	-26.89530464	EASTERN CAPE	Eastern Cape	NDLAMBE MUNICI
4	3656	BATHURST ONE PRICE BIG II	26.83229	-33.50114	EASTERN CAPE	Eastern Cape	NDLAMBE MUNICI
5	30566	TRIBES TAKE AWAY	26.53397	-33.31024	EASTERN CAPE	Eastern Cape	MAKANA MUNICI
6	39445	AFRICA SUPERMARKET	26.55947	-33.29253	EASTERN CAPE	Eastern Cape	MAKANA MUNICI
7	4665	SEAFIELD LIQUOR STORE	26.87501	-33.59812	EASTERN CAPE	Eastern Cape	NDLAMBE MUNICI
8	26659	MADINA STORE	25.55676	-33.88618	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
9	32012	JORRA'S HOUSE SHOP	25.474092	-33.931202	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
10	35480	AHMEDS BUTCHERY	25.61045	-33.953	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
11	1083	CHALEES TAKE AWAYS	25.60265	-33.94341	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
12	17145	HOLLANDIA SNACKS	25.608801	-33.931301	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
13	24069	MEISIES CAFE	23.92893578	-26.92019888	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
14	10174	SCOTTYS CAFE	25.60352	-33.92533	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
15	8181	SHATTERPRUFE TUCKSHOP	25.589701	-33.922001	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
16	18435	PICNIC BASKET	25.610701	-33.963501	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
17	13716	AM CASH STORE	25.504999	-33.886902	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
18	2617	ABOOS PEARL ROAD	23.47728325	-27.27938711	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
19	23010	SPEEDYS TAKE AWAYS	25.57375	-33.930028	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
20	24695	BK STORES	25.525999	-33.922298	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
21	5175	DELHI SNACKS	25.5709	-33.928101	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
22	20916	EASTERN SNACKS	25.585667	-33.933417	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
23	1606	HOSPITAL CAFE	25.571306	-33.926917	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
24	29065	PERCYS SHOP	25.53655	-33.89924	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
25	3375	TASHAS HOUSE SHOP	25.53378	-33.92191	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
26	7036	RAINBOW CASH STORE	25.534901	-33.918301	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
27	34679	MBUYIS TAVERN	25.59292	-33.98825	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
28	14292	AMIGOS CAFE	25.537399	-33.893002	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
29	16446	VINCE CAFE	25.552962	-33.90088	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
30	30919	BP**6TH AVENUE AUTO CENTRE	25.5973	-33.9804	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
31	7658	ZEYNS CAFE	25.571306	-33.926889	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
32	12545	SANDSTORM	25.544399	-33.896599	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
33	12703	CALTEX**KEMPSTON MOTOR SNACKS	25.584278	-33.935417	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
34	34414	CHEAP ENOUGH	25.310829	-33.911913	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
35	37671	CENTRAL CAFE	25.612801	-33.961498	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
36	8260	ENJENI SUPERMARKET	25.546	-33.86655	EASTERN CAPE	Eastern Cape	NELSON MANDELA M
37	5843	SADIA CAFE	25.583184	-33.9344	EASTERN CAPE	Eastern Cape	NELSON MANDELA M

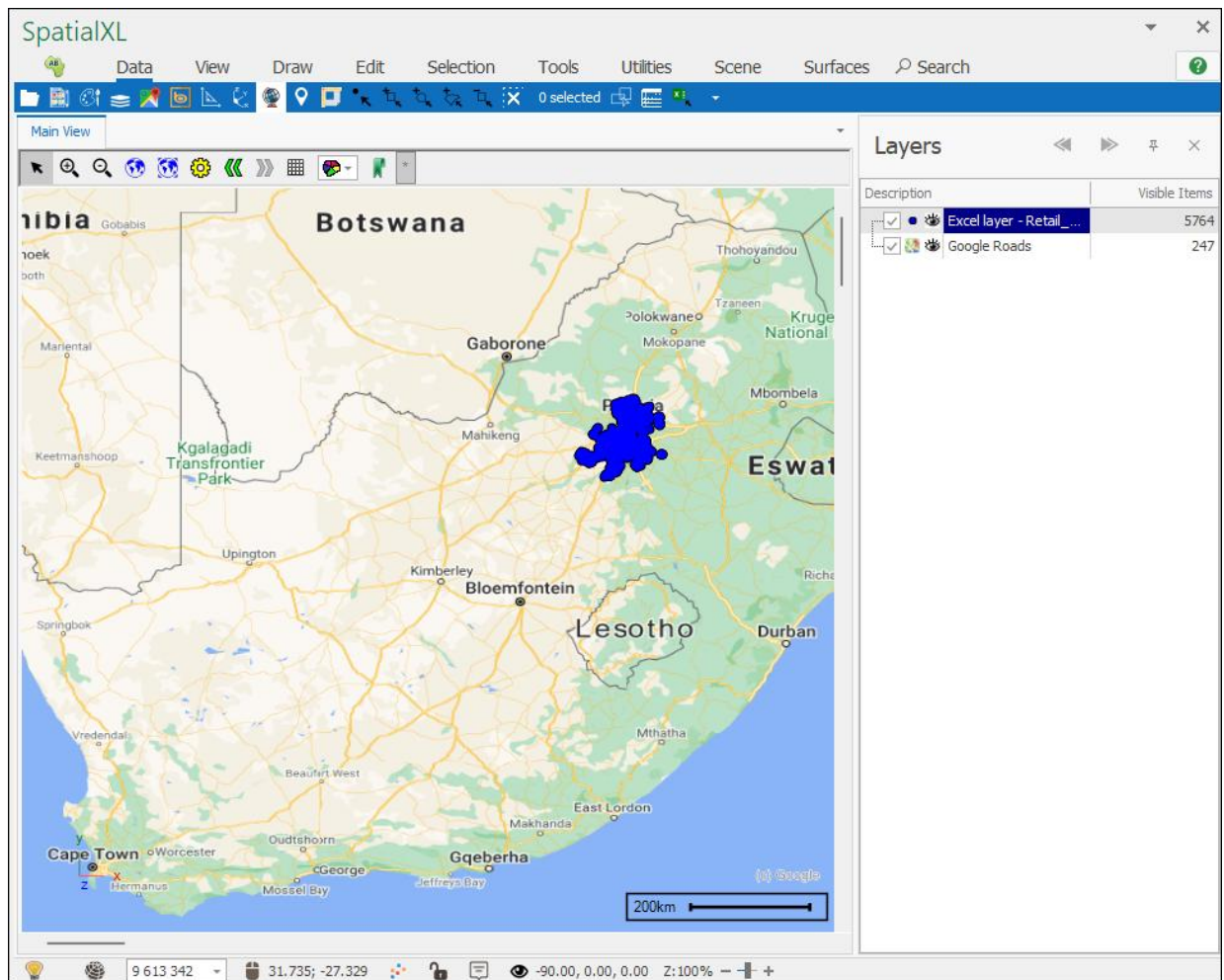
Retail Outlets

+

25



In my Load Filter Script I specified that only rows starting with G in the PROVINCE column should be loaded since I only want to work with Gauteng province points, I click OK and my layer is then added with only the Gauteng outlets, which number only 5,764 as opposed to the full amount that would've been loaded which is 40,000:



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