

MapThat Admin – Configuring the MyCommunity Tool

In our most recent release of MapThat (version 3.0.0 onwards) we have enhanced the MyCommunity Tool to be more configurable per Project. A video on the functionality can be found on our Cadline Community website –

<https://www.cadlinecommunity.co.uk/hc/en-us/articles/360000197145-MapThat-V3-MyCommunity-Tool-Dynamic-Maps->

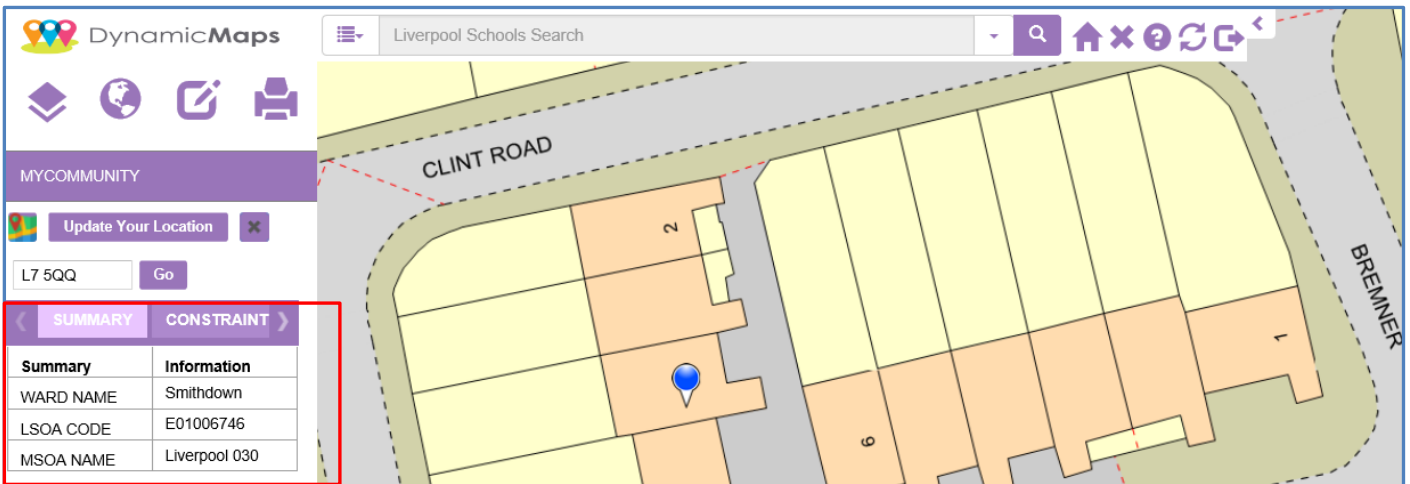
This White Paper provides an Admin User with the details on how to initially setup the MyCommunity Tool and then how to configure different settings for each of your Projects.



Identify your MyCommunity Layers:

Firstly, you will simply need to identify the LAYER_ID of the following:

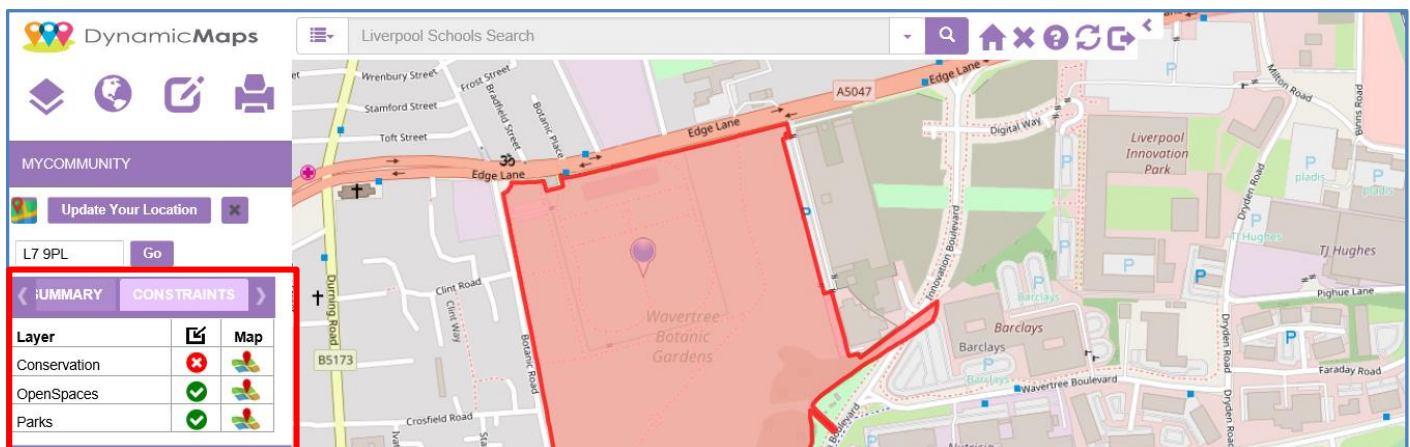
A **Boundary table** e.g. WARDS – this will be used to provide the SUMMARY information – such as WARD NAME, Councillor, etc.



To identify the boundary layer that you wish to utilise, you can find the Layer_ID within the MapThat Admin Forms. Simply search for the layer e.g. 'Wards' and then note down the Layer_ID, which in this case = **501**.

Layer Id	Layer Caption	Layer Type	Layer SQL
501	Liverpool Wards	SPATIAL	select * from Liverpool_Wards1

Constraint Tables – such as Flood Zones, Parks, Planning Zones, SSSI. The MyCommunity Tool will do a Point in Polygon check to see if the users current location is inside or outside of the chosen polygon. Where the user is within a location a **GREEN TICK** will be shown.



To identify the Constraint Tables that you wish to utilise, you can find the Layer_ID within the MapThat Admin Forms. Simply search for the layer e.g. ‘Conservation’ and then note down the Layer_ID, which in this case is

Conservation = **9677**.

Open Spaces = **9654**.

Parks = **9658**.

	Layer Id	Layer Caption	Layer Type	Layer SQL	URL Link	Zoom On	Zoom Off	Opacity	Opacity Slider
	9677	Liverpool Conservation Areas	SPATIAL	select * from conservation_areas		1	22	75	<input checked="" type="checkbox"/>

Find My Nearest Tables – such as Schools, Dentists, Hospitals. These are the DATA TABLES at the bottom of the tool, which will auto populate with the nearest X point features.

The screenshot shows the MapThat Admin interface. On the left, there's a sidebar with 'SUMMARY' and 'CONSTRAINTS' tabs. Under 'CONSTRAINTS', there are sections for 'SCHOOLS: 5 Nearest', 'LEISURE CENTRES: 5 Nearest', and 'ONE STOP SHOPS: 5 Nearest'. The 'SCHOOLS: 5 Nearest' section is highlighted with a red box and contains the following data:

School Name	Distance
St Sebastian's C...	161 mtrs
Birchfield Primar...	488 mtrs
Phoenix Primary...	488 mtrs

On the right, there's a table titled 'Liverpool Schools (Liverpool POI) [5 records of 439]'. The table has columns for School Name, Status, Type, Postcode, and Distance (Metres). The data is as follows:

School Name	Status	Type	Postcode	Distance (Metres)
Birchfield County Infant S...	Closed	Community School	L7 9LY	575 mtrs
Birchfield Primary School	Closed	Community School	L7 9LY	488 mtrs
Kelso Independent School	Open	Other Independent Speci...	L6 3AG	654 mtrs
Phoenix Primary School	Open	Community School	L7 9LY	488 mtrs
St Sebastian's Catholic P...	Open	Voluntary Aided School	L7 0LH	161 mtrs

To identify the Find my Nearest Tables that you wish to utilise, you can find the Layer_ID within the MapThat Admin Forms. Simply search for the layer e.g. ‘Schools’ and then note down the Layer_ID, which in this case is

Liverpool Schools = **9648**.

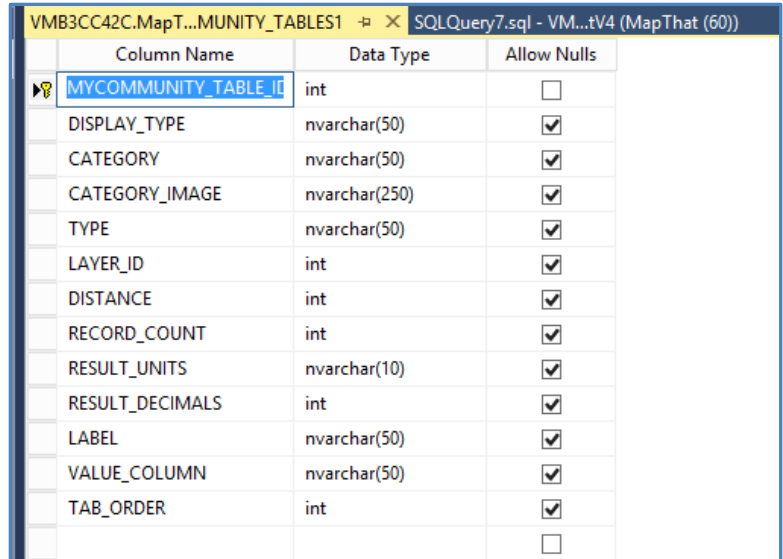
Leisure Centres = **9647**.

One Stop Shops = **9650**.

	Layer Id	Layer Caption	Layer Type	Layer SQL	URL Link	Zoom On
	9648	Liverpool Schools	SPATIAL	select * from edubase		1

Edit the VE MYCOMMUNITY TABLES1:

The MapThat MyCommunity Tool is controlled using the records and configuration within the MapThat Control table - **VE_MYCOMMUNITY_TABLES1**. The design of that table is as per the below:



Column Name	Data Type	Allow Nulls
MYCOMMUNITY_TABLE_ID	int	<input type="checkbox"/>
DISPLAY_TYPE	nvarchar(50)	<input checked="" type="checkbox"/>
CATEGORY	nvarchar(50)	<input checked="" type="checkbox"/>
CATEGORY_IMAGE	nvarchar(250)	<input checked="" type="checkbox"/>
TYPE	nvarchar(50)	<input checked="" type="checkbox"/>
LAYER_ID	int	<input checked="" type="checkbox"/>
DISTANCE	int	<input checked="" type="checkbox"/>
RECORD_COUNT	int	<input checked="" type="checkbox"/>
RESULT_UNITS	nvarchar(10)	<input checked="" type="checkbox"/>
RESULT_DECIMALS	int	<input checked="" type="checkbox"/>
LABEL	nvarchar(50)	<input checked="" type="checkbox"/>
VALUE_COLUMN	nvarchar(50)	<input checked="" type="checkbox"/>
TAB_ORDER	int	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

Where the fields listed will control the following:

- **MyCommunity_Table_ID** = a **unique ID** for each record.
- **Display_Type** = **TAB** or **DATA TABLE** – defining if the record is used in the top Summary/Constraints section of the tool or as a Find My Nearest Table.
- **Category** = The **Name** of the Category that the record is grouped into. E.g. is this record used in the Summary Tab or the Constraints Tab.
- **Category_Image** = **NULL**. As this is not yet used.
- **Type** =
 - **Value** – defined that the record will simply return the value of the field e.g. WardName.
 - **PIP** – defines that the record is used to do a Point in Polygon check.
 - **Area** – defines that the record is used to undertake an AREA Search analysis.
 - **Nearest** – defines that the record is used to undertake a Find My Nearest.

- **LAYER_ID** = the Layer_ID of the layer in the VE_LAYERS table to be used.
- **DISTANCE** = a numeric distance value used only when the Type is set to **AREA**.
- **RECORD_COUNT** = a numeric value used only when the Type is set to **Nearest**.
- **RESULT_UNITS** = a KM, METRES or MILES. To define the unit for any distant measurements shown.
- **RESULTS_DECIMAL** = a numeric value determining the decimal place for distance measurements.
- **LABEL** = an alias used in the MyCommunity Tool, instead of using the Layer_Caption.
- **VALUE_COLUMN** = the exact field name used when the TYPE = Value. This will reference the field name from the source table where you wish to retrieve values from e.g. Wardname
- **TAB_ORDER** = the order (left to right) of the top TABS. E.g. Summary (1), Constraints (2) etc.

An example **VE_MYCOMMUNITY_TABLES1** is shown below for the Layers that we have identified.








	MYCOMMUNITY_...	DISPLAY_TYPE	CATEGORY	TYPE	LAYER_ID	DISTANCE	RECORD_COUNT	RESULT_UNITS	RESULT_DECIMALS	LABEL	VALUE_COLUMN	TAB_ORDER
1	1	TAB	SUMMARY	VALUE	501	NULL	NULL	NULL	NULL	WARD NAME	stward_nam	1
2	2	TAB	SUMMARY	VALUE	501	NULL	NULL	NULL	NULL	LSOA CODE	lsoa_code	1
3	3	TAB	SUMMARY	VALUE	501	NULL	NULL	NULL	NULL	MSOA NAME	msoa_name	1
4	4	TAB	CONSTRAINTS	PIP	9656	NULL	NULL	NULL	NULL	Conservation	NULL	2
5	5	TAB	CONSTRAINTS	PIP	9654	NULL	NULL	NULL	NULL	OpenSpaces	NULL	2
6	6	TAB	CONSTRAINTS	PIP	9658	NULL	NULL	NULL	NULL	Parks	NULL	2
7	7	DATA TABLE	SCHOOLS	NEAREST	9648	NULL	5	METRES	0	Schools	NULL	NULL
8	8	DATA TABLE	LEISURE CENTRES	NEAREST	9647	NULL	5	METRES	0	Leisure Centres	NULL	NULL
9	9	DATA TABLE	ONE STOP SHOPS	NEAREST	9650	NULL	5	METRES	0	One Stop Shops	NULL	NULL
10	10	TAB	OTHER	AREA	9656	1000	NULL	NULL	NULL	Conservation	NULL	3


If we look at the **DISPLAY TYPE**:

- Record ids 1,2,3,4,5,6 and 10 are set as **TAB**
- And in the CATEGORY field
 - 1,2,3 are set to **SUMMARY**
 - 4,5,6 are set to **CONSTRAINTS**
 - 10 is set to **OTHER**

This means we will have 3 TABS in the top section of the MyCommunity Tool – **Summary**, **Constraints** and **Other**.

SUMMARY		CONSTRAINT		
Summary	Information			
WARD NAME	Kensington			
LSOA CODE	E01006690			
MSOA NAME	Liverpool 028			

SUMMARY		CONSTRAINTS		
Layer		Map		
Conservation				
OpenSpaces				
Parks				

CONSTRAINTS		OTHER	
Layer	Count	Map	
Conservation	2		

If we look at the **TYPE**:

- In the TYPE field
 - **1,2,3** are set to **VALUE** – where the fields `stward_nam`, `lsoa_code` and `msoa_name` are returned as the Information, with the label/alias set to WARD NAME, LSOA CODE and MSOA CODE.
 - **4,5,6** are set to **PIP** – where a point in polygon search is undertaken on the Conservation Areas, Open Spaces and Parks layers, with a Red X or Green Tick returned.
 - **10** is set to **AREA** – so an Area search of Distance 100 Metres is applied to the Conservation Layer, to count how many records are with 100 metres of the users location.

If we look at the **TAB_ORDER**:

- In the TAB ORDER field
 - **1,2,3** are **1** – So the Summary records will be set as the first TAB.
 - **4,5,6** are set as **2** - So the Constraint records will be set as the second TAB.
 - **And 10** is set to **3** - So the OTHER record will be set as the third TAB.



If we look at the **DISPLAY TYPE**:

- Record ids 7,8,9 are set as **DATA TABLE**.
- And in the TYPE field
 - 7,8 and 9 are all set to be **NEAREST**
 - With a **RECORD COUNT** of 5
 - And the **RESULT_UNITS** in Metres to 0 **Decimal places**
 - Where the **LABELS** are Schools, Leisure Centres and One Stop Shops

MYCOMMUNITY_...	DISPLAY_TYPE	CATEGORY	TYPE	LAYER_ID	DISTANCE	RECORD_COUNT	RESULT_UNITS	RESULT_DECIMALS	LABEL	VALUE_COLUMN	TAB_ORDER
1	TAB	SUMMARY	VALUE	501	NULL	NULL	NULL	NULL	WARD NAME	stward_nam	1
2	TAB	SUMMARY	VALUE	501	NULL	NULL	NULL	NULL	LSOA CODE	lsoa_code	1
3	TAB	SUMMARY	VALUE	501	NULL	NULL	NULL	NULL	MSOA NAME	msoa_name	1
4	TAB	CONSTRAINTS	PIP	9656	NULL	NULL	NULL	NULL	Conservation	NULL	2
5	TAB	CONSTRAINTS	PIP	9654	NULL	NULL	NULL	NULL	OpenSpaces	NULL	2
6	TAB	CONSTRAINTS	PIP	9658	NULL	NULL	NULL	NULL	Parks	NULL	2
7	DATA TABLE	SCHOOLS	NEAREST	9648	NULL	5	METRES	0	Schools	NULL	NULL
8	DATA TABLE	LEISURE CENTRES	NEAREST	9647	NULL	5	METRES	0	Leisure Centres	NULL	NULL
9	DATA TABLE	ONE STOP SHOPS	NEAREST	9650	NULL	5	METRES	0	One Stop Shops	NULL	NULL
10	TAB	OTHER	AREA	9656	1000	NULL	NULL	NULL	Conservation	NULL	3

This means we will have 3 DATA TABLES in the bottom section of the MyCommunity Tool – **Schools, Leisure Centres** and **One Stop Shops**.

SCHOOLS: 5 Nearest	
School Name	Distance
St Sebastian's C...	161 mtrs
Birchfield Primar...	488 mtrs
Phoenix Primary...	488 mtrs

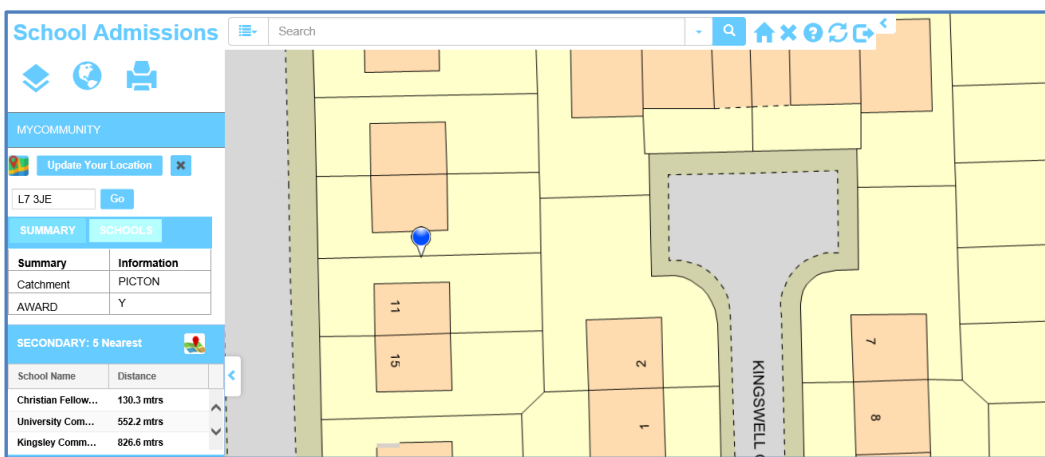
LEISURE CENTRES: 5 Nearest	
Name	Distance
WAVERTREE AT...	1731 mtrs
LIVERPOOL TEN...	1777 mtrs
LIFESTYLE PET...	2137 mtrs

ONE STOP SHOPS: 5 Nearest	
Shop Name	Distance
WAVERTREE OSS	1462 mtrs
OLD SWAN OSS	1767 mtrs
CITY CENTRE O...	3103 mtrs

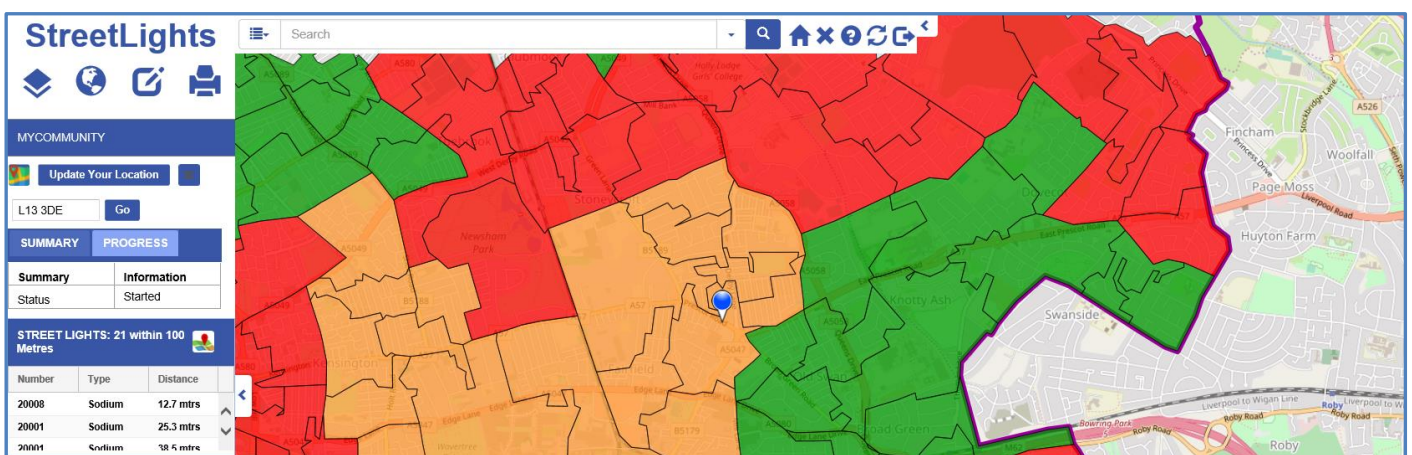
Edit the VE PROJECT MYCOMMUNITY TABLES:

The MapThat MyCommunity Tool can be configured differently per Project, which means for one MapThat Instance you can have a MyCommunity Tool that helps answers frequently asked questions for multiple Teams e.g. the Schools Team, Street Lighting, Environmental Team etc.

Schools Project – identifying which School Catchment Zone someone lives in, and whether that address is inside an area that provides free Travel Awards. It also allows the public to identify their nearest X Schools (secondary, primary, junior etc.)



Streetlighting Project – identifying whether a specific area has started, completed or has replacement works in progress. As well as identifying how many Street Lights are within X metres of a specific address.



The configuration of the MapThat MyCommunity Tool per Project is controlled using the records and configuration within the MapThat Control table - **VE_PROJECT_MYCOMMUNITY_TABLES** The design of that table is as per the below:

PROJECT_ID	MYCOMMUNITY_TABLE_ID	TABLE_ORDER	SHOW
1037	1	NULL	Y
1037	2	NULL	Y
1037	3	NULL	Y
1037	4	NULL	Y
1037	5	NULL	Y
1037	6	NULL	Y
1037	7	1	Y
1037	8	2	Y
1037	9	3	Y
1037	10	NULL	Y
NULL	NULL	NULL	NULL

Where the fields listed will control the following:

- **Project_ID** = a link to the Project in which that record will be used.
- **MyCommunity_Table_ID** = the ID of the record in VE_MYCOMMUNITY_TABLES1.
- **Table_Order** = This defines the order of the DATA TABLES in the bottom of the MyCommunity Tool. It is only used for records whose DISPLAY_TYPE = Data Table.
- **Show** = whether that MyCommunity record is revealed within a specific Project. Thus allowing you to configure different MyCommunity Tools per Project.

Other Settings:

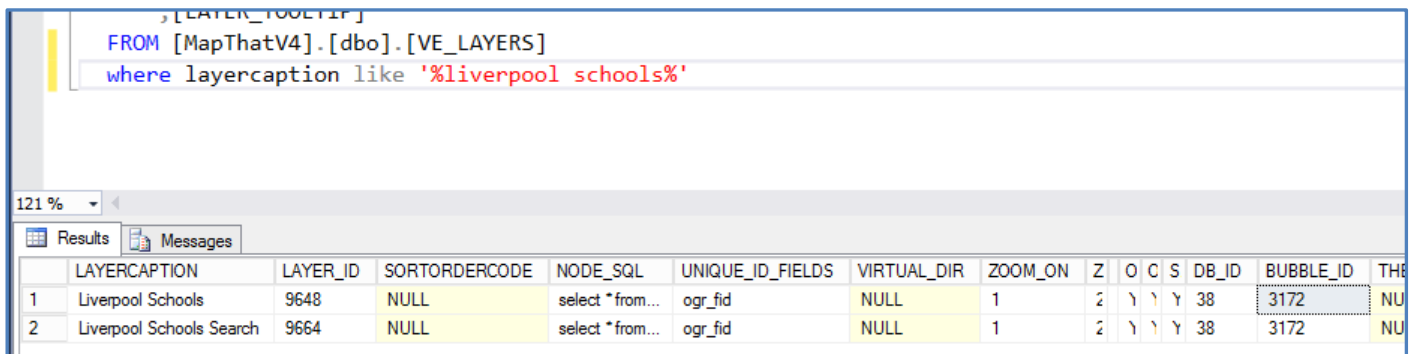
The final settings that can be configured are the **choice of fields** which are shown in the **Data Tables**. For example, the Data Table – 5 Nearest Schools – shows that the current list of fields being shown in the MyCommunity Tool is:

- **School Name**

Note – the Distance field is auto created.

SCHOOLS: 5 Nearest	
School Name	Distance
Heygreen Comm...	96 mtrs
Hey Green Road...	161 mtrs
Lawrence Comm...	579 mtrs

The choice of which fields are shown in the MyCommunity Data Table are defined within the **Information Bubble** settings for the chosen layer. In the case of the Schools we should first determine the **Information Bubble ID** being used, which is **3172**:

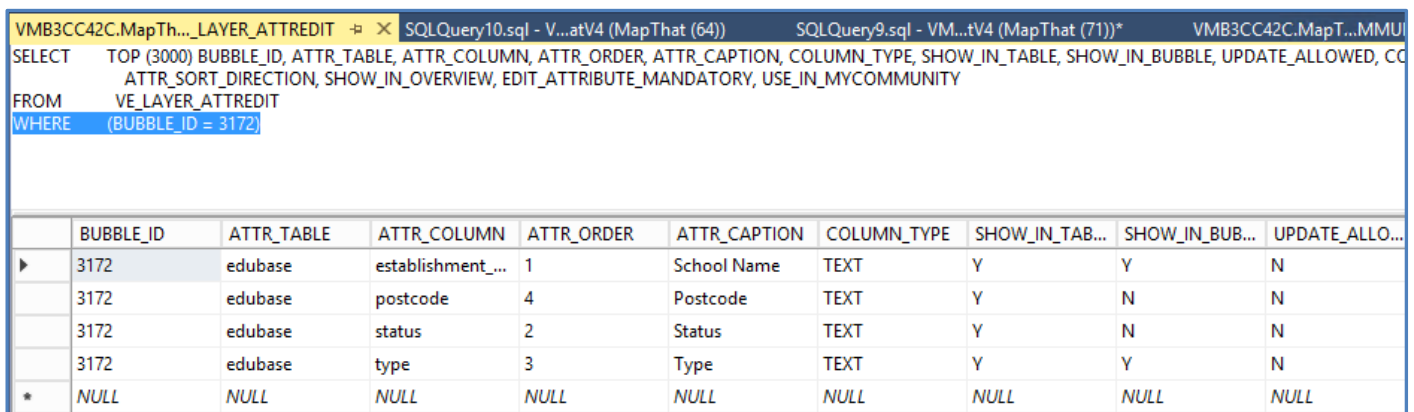


```

FROM [MapThatV4].[dbo].[VE_LAYERS]
where layercaption like '%liverpool schools%'
    
```

	LAYERCAPTION	LAYER_ID	SORTORDERCODE	NODE_SQL	UNIQUE_ID_FIELDS	VIRTUAL_DIR	ZOOM_ON	Z	O	C	S	DB_ID	BUBBLE_ID	THE
1	Liverpool Schools	9648	NULL	select * from...	ogr_fid	NULL	1	2	Y	Y	Y	38	3172	NU
2	Liverpool Schools Search	9664	NULL	select * from...	ogr_fid	NULL	1	2	Y	Y	Y	38	3172	NU

The fields being used for this layer are then stored as records in the **VE_LAYER_ATTREDIT** table and if we perform a SQL query we can see those records.



```

SELECT TOP (3000) BUBBLE_ID, ATTR_TABLE, ATTR_COLUMN, ATTR_ORDER, ATTR_CAPTION, COLUMN_TYPE, SHOW_IN_TABLE, SHOW_IN_BUBBLE, UPDATE_ALLOWED, CC
ATTR_SORT_DIRECTION, SHOW_IN_OVERVIEW, EDIT_ATTRIBUTE_MANDATORY, USE_IN_MYCOMMUNITY
FROM VE_LAYER_ATTREDIT
WHERE (BUBBLE_ID = 3172)
    
```

	BUBBLE_ID	ATTR_TABLE	ATTR_COLUMN	ATTR_ORDER	ATTR_CAPTION	COLUMN_TYPE	SHOW_IN_TAB...	SHOW_IN_BUB...	UPDATE_ALLO...
▶	3172	edubase	establishment_...	1	School Name	TEXT	Y	Y	N
	3172	edubase	postcode	4	Postcode	TEXT	Y	N	N
	3172	edubase	status	2	Status	TEXT	Y	N	N
	3172	edubase	type	3	Type	TEXT	Y	Y	N
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

While in **EDIT** mode in SQL, you can use the final column called **USE_IN_MYCOMMUNITY** to determine how many fields are displayed in the MyCommunity DATA TABLE results. In this case only the **School Name** field is marked with a Y value.

T...	ATTR_SORT_DI...	SHOW_IN_OVE...	EDIT_ATT...	USE_IN_MYCO..
	ASC	Y	N	Y
	ASC	N	N	NULL
	ASC	N	N	NULL