

## MapThat – Project Global Variables

Project Global Variables allow you to utilise one MapThat Layer which references a group of unique records from the same source table, to be shown in separate MapThat Projects.

For example, you may have a spatial table which contains Land Parcels, and a field that defines the organisation that manages that land. Using a Project Global Variable you can now create a MapThat Layer which can be exposed in multiple Projects and only render the Land Parcels for the records associated to that Organisation / Project.

This dramatically reduces the number of MapThat Layers that you need and as your Projects grow you can simply re-use the same layer with minimal administration.

Below we will outline an example of how to implement a Project Global Variable using Planning Applications for different Local Authorities who share the same MapThat Instance and/or spatial data.

### Step 1 – PROJECT\_GLOBALVAR table:

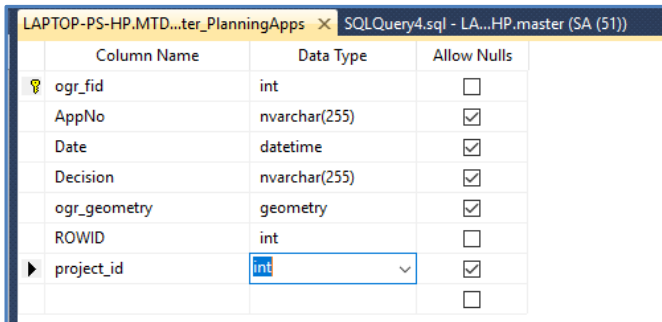
In the MapThat Database, choose to Edit the table called **VE\_PROJECT\_GLOBALVAR**, adding a new record into the table and completing the values as below:

- Global\_ID – any unique numeric value
- Project\_ID – the ID for the first Project the layer is revealed in
- GlobalName – any value used as the link with your Spatial Table (e.g. Planning Apps)
- GlobalValue – the value used to differentiate which records should be revealed in which MapThat Projects
- VarFormat – defining a number or textual value as the reference in the Spatial Table

	GLOBAL_ID	PROJECT_ID	GLOBALNAME	GLOBALVALUE	VARFORMAT
✎	1	28	PLANNING_APPS	28	NUMBER
✱	NULL	NULL	NULL	NULL	NULL

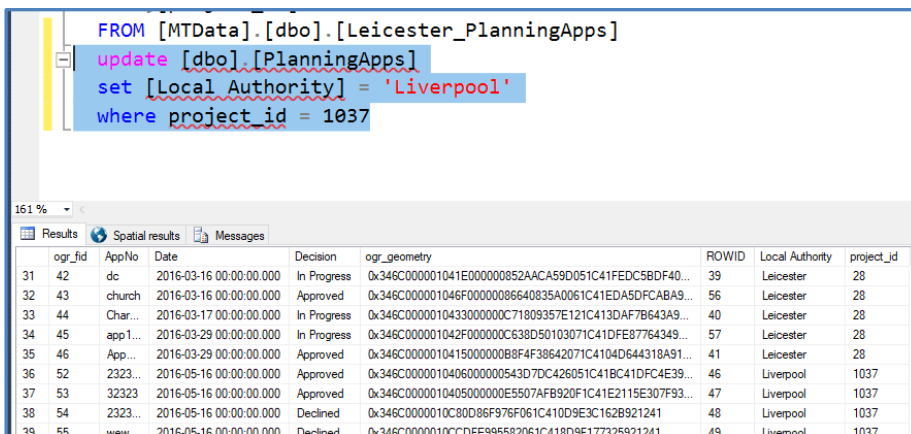
## Step 2 – Update your Spatial Table:

Next you will need to modify the Design of your source table so that there is a field that will store the Project\_ID of the Project that each record will be exposed within. Here we have called this new field – Project\_id and made the type numeric (int) as per the Project\_GlobalVar.VarFormat.



Column Name	Data Type	Allow Nulls
ogr_fid	int	<input type="checkbox"/>
AppNo	nvarchar(255)	<input checked="" type="checkbox"/>
Date	datetime	<input checked="" type="checkbox"/>
Decision	nvarchar(255)	<input checked="" type="checkbox"/>
ogr_geometry	geometry	<input checked="" type="checkbox"/>
ROWID	int	<input type="checkbox"/>
project_id	int	<input checked="" type="checkbox"/>

In your Spatial Table now run an **Update Statement** to update this new field with the corresponding Project\_ID. Here we have updated the Liverpool Planning Apps with an ID of 1037 and the Leicester Planning Apps with an ID of 28.



```

FROM [MTData].[dbo].[Leicester_PlanningApps]
update [dbo].[PlanningApps]
set [Local Authority] = 'Liverpool'
where project_id = 1037
    
```

ogr_fid	AppNo	Date	Decision	ogr_geometry	ROWID	Local Authority	project_id	
31	42	2016-03-16 00:00:00.000	In Progress	0x346C000001041E000000852AAC59D051C41FEDC58DF40...	39	Leicester	28	
32	43	2016-03-16 00:00:00.000	Approved	0x346C000001046F00000086640835A0061C41EDABDFCABA9...	56	Leicester	28	
33	44	2016-03-17 00:00:00.000	In Progress	0x346C0000010433000000C71809357E121C413DAF7B643A9...	40	Leicester	28	
34	45	2016-03-29 00:00:00.000	In Progress	0x346C000001042F000000C638D50103071C41DFE87764349...	57	Leicester	28	
35	46	2016-03-29 00:00:00.000	Approved	0x346C0000010415000000B8F4F39642071C4104D644318A91...	41	Leicester	28	
36	52	2323...	2016-05-16 00:00:00.000	Approved	0x346C0000010406000000543D7DC426051C41BC41DFC4E39...	46	Liverpool	1037
37	53	32323	2016-05-16 00:00:00.000	Approved	0x346C0000010405000000E5507AFB920F1C41E2115E307F93...	47	Liverpool	1037
38	54	2323...	2016-05-16 00:00:00.000	Declined	0x346C0000010C80D86F976F061C410D9E3C162B921241	48	Liverpool	1037
39	55	wew	2016-05-16 00:00:00.000	Declined	0x346C0000010CCDFE99582061C418D9F177325921241	49	Liverpool	1037

## Step 3 – Create a MapThat Layer:

You can now either edit an existing or create a new MapThat Layer, which will now include a **WHERE statement** within the SQL clause. Below is the Planning Apps layer that I will use to reference my Global Variable.

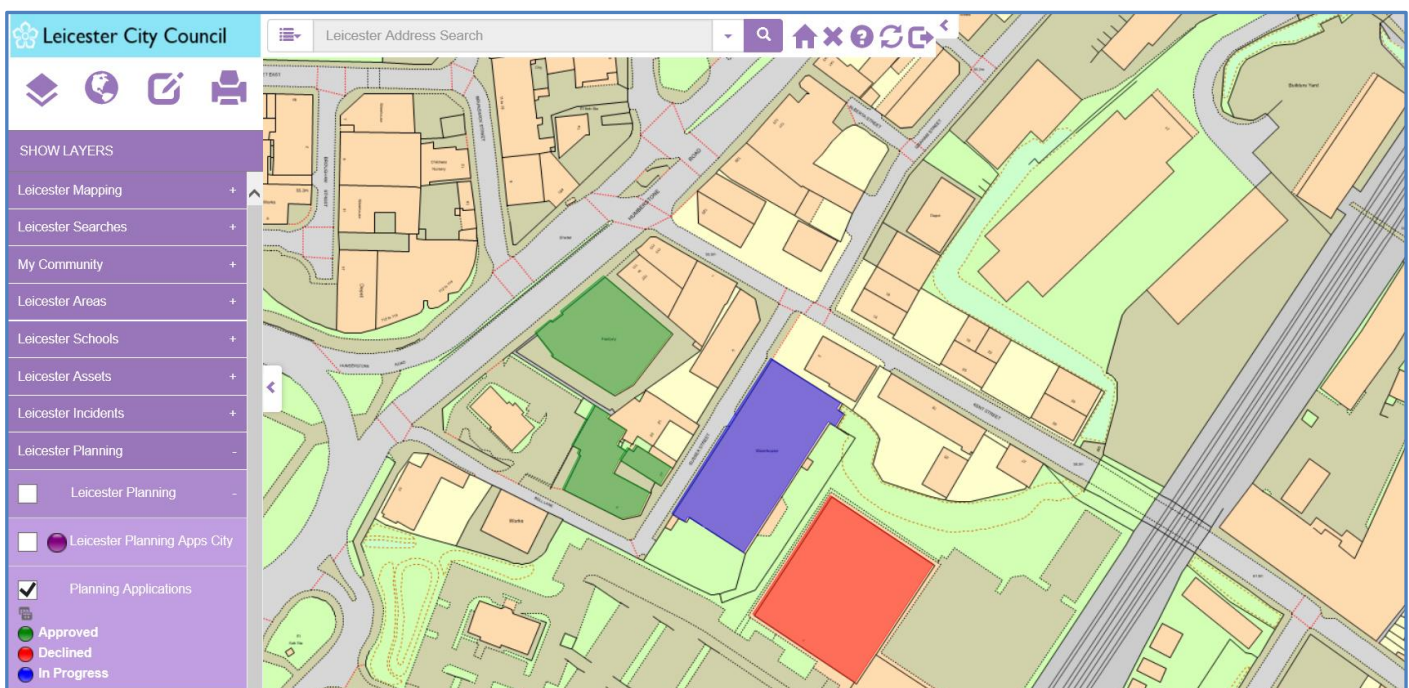
```
Layer SQL  
Select * from PlanningApps where project_id = '%PLANNING_APPS%'
```

We now have a link between the MapThat Layer – Planning Apps – and the Spatial Table – Planning Apps - using the Global Variable called 'PLANNING\_APPS'. Our Project\_GlobalVar table will then decide which records from the source table are rendered in each MapThat Project.

You should now choose to add/expose this Planning Apps layer to each of the Projects, e.g. Liverpool and Leicester.

### Test in MapThat:

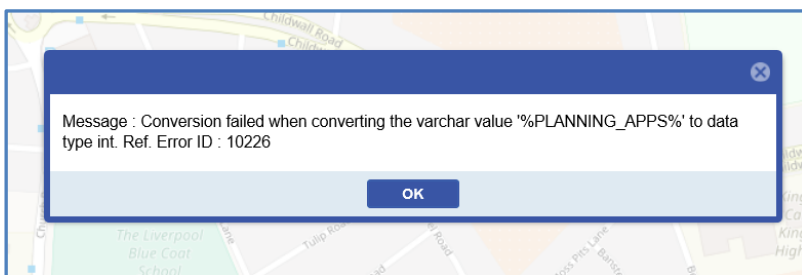
After opening the Leicester Project and choosing to display the Planning Apps layer, you will see that only the Planning Apps with the Project ID 28 are shown in the map.



Before we can view the Planning Apps that only relate to our Liverpool Project, we need to add a record into the Project\_GlobalVar table which holds the Project\_ID for the Liverpool Project. As per the below we have now added a new record for 1037.

GLOBAL_ID	PROJECT_ID	GLOBALNAME	GLOBALVALUE	VARFORMAT
1	28	PLANNING_APPS	28	NUMBER
2	1037	PLANNING_APPS	1037	NUMBER
NULL	NULL	NULL	NULL	NULL

**Note** - If you do not add a record for each of your Projects, then the following message will appear when the user tries to display the layer in their project.



If we now open the Liverpool Project and choose to display the Planning Apps layer, you will see that only the Planning Apps with the Project ID 1037 are shown in the map.

