

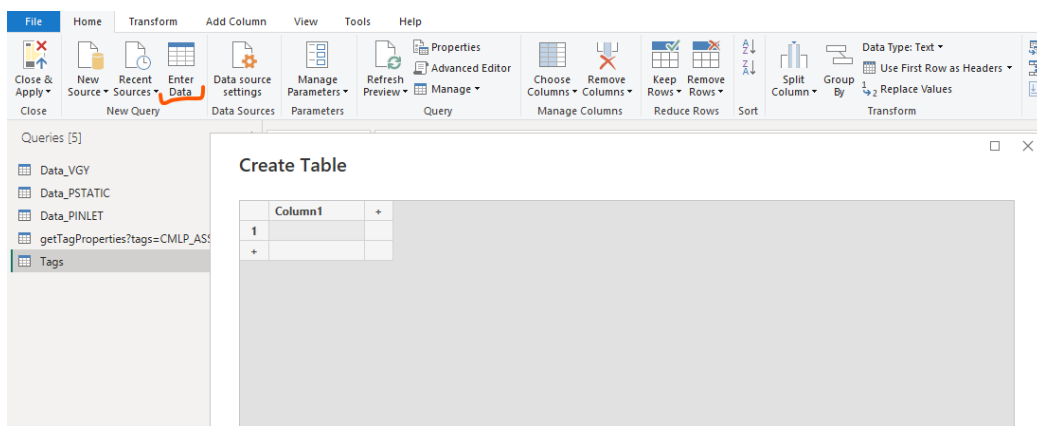
## Extracting Canary Tag Properties to Power BI using Web API call /getTagProperties

### Problem Statement

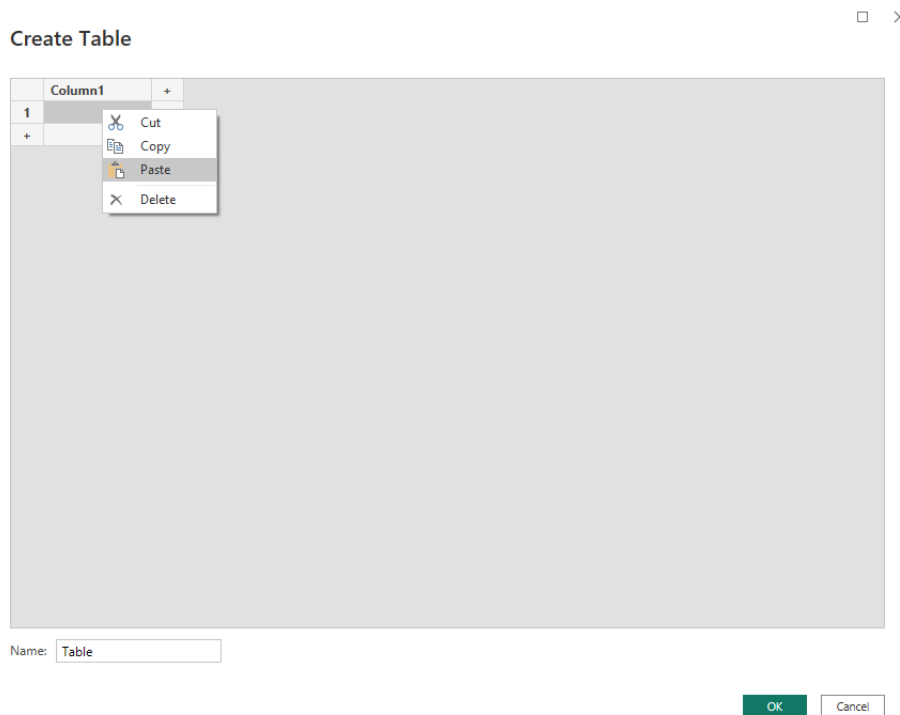
Currently /GetTagProperties call does not support path, deep & search parameters and passing array of tags using Power BI URL is challenging. So how to extract tag properties for multiple Tags using /GetTagProperties call from Power BI

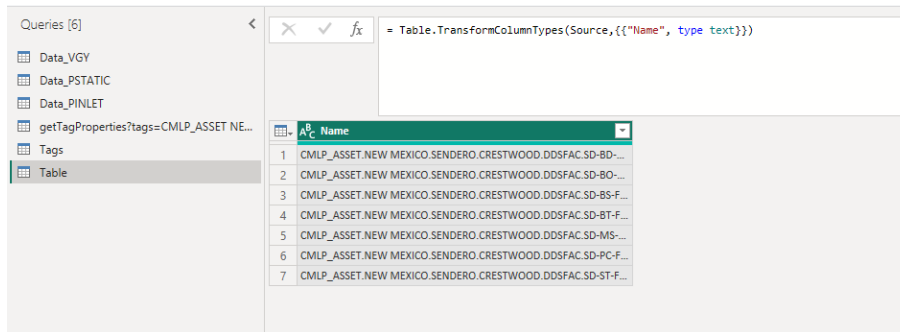
### Procedure

1. Create a table of tags for which properties need to be extracted
  - a. Click on Enter Data in Home page



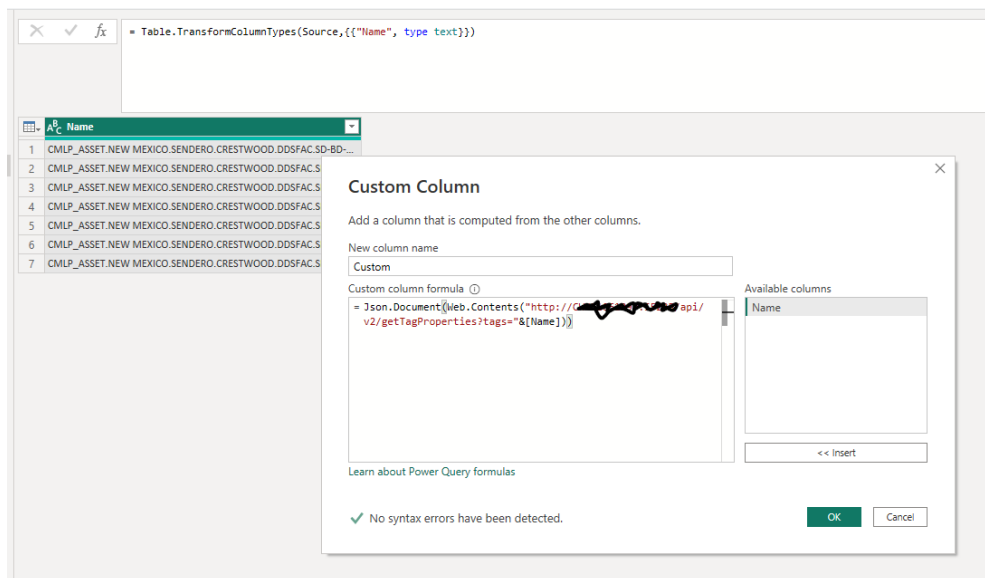
- b. Paste tags & press OK





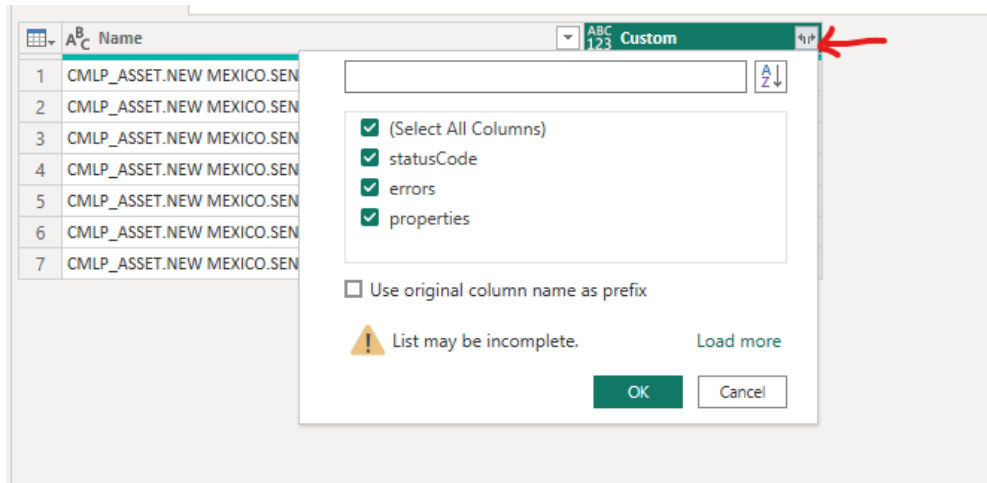
## 2. Create a Custom Column with Web API Call

- Go to add column tab and click on custom Column and create a `/getTagProperties` call for each value in Name Column



	<b>Name</b>	<b>Custom</b>
1	CMLP_ASSET.NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-BD-...	Record
2	CMLP_ASSET.NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-BO-...	Record
3	CMLP_ASSET.NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-BS-F...	Record
4	CMLP_ASSET.NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-BT-F...	Record
5	CMLP_ASSET.NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-MS-...	Record
6	CMLP_ASSET.NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-PC-F...	Record
7	CMLP_ASSET.NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-ST-F...	Record

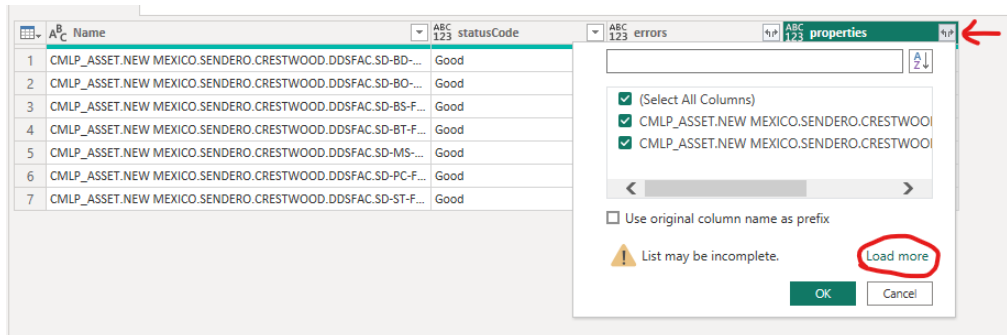
3. Press button on the right top corner to pivot record data in custom field

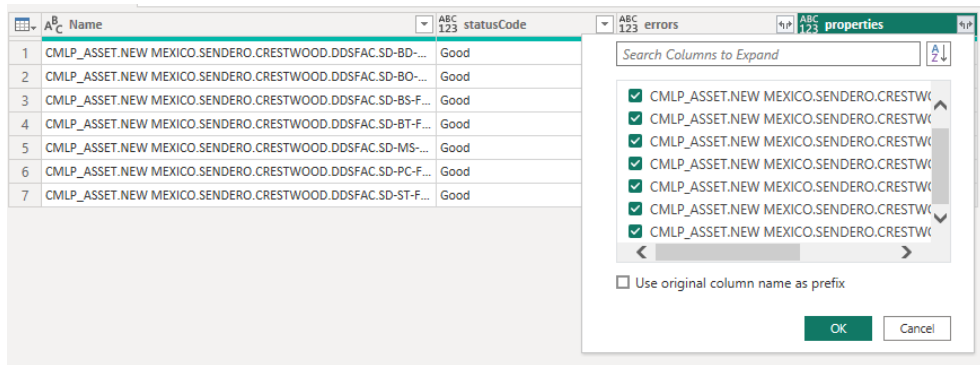


a. If Web API Call is a success, then status code for all rows will be 'Good'

	Name	statusCode	errors	properties
1	CMLP_ASSET.NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-BD-...	Good	List	Record
2	CMLP_ASSET.NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-BO-...	Good	List	Record
3	CMLP_ASSET.NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-B5-F-...	Good	List	Record
4	CMLP_ASSET.NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-BT-F-...	Good	List	Record
5	CMLP_ASSET.NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-MS-...	Good	List	Record
6	CMLP_ASSET.NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-PC-F-...	Good	List	Record
7	CMLP_ASSET.NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-ST-F-...	Good	List	Record

4. pivot record data in Properties column by clicking on button on top right of column. Also click on load more if all tags don't show up, make sure all tags are checked and then press OK button.





5. Previous step will create columns for each tag.
  - a. Let them remain selected and right click on one of them.

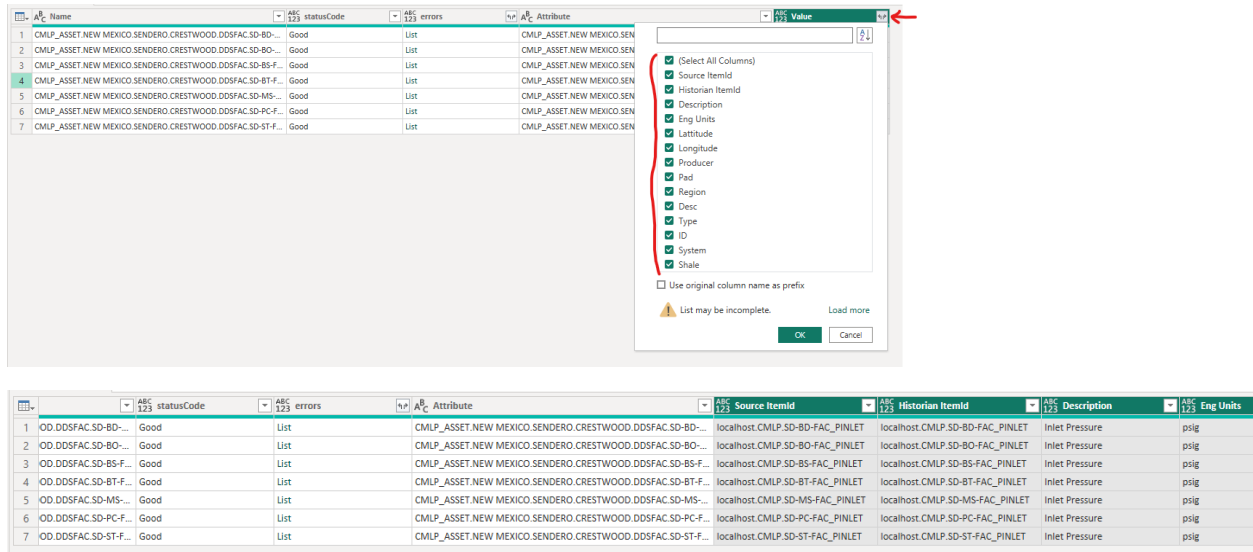
The screenshot shows a data table with columns: Name, statusCode, errors, and a new column for the asset name. The 'errors' column is highlighted with a red circle. The table has 7 rows of data.

- b. Click on 'Unpivot Only Select Columns' option. This will create value column for each attribute

The screenshot shows a data table with columns: Name, statusCode, errors, and a new column for the asset name. A right-click context menu is open over the 'errors' column, and the 'Unpivot Only Selected Columns' option is highlighted.

The screenshot shows a data table after unpivoting. The table has columns: Name, statusCode, errors, Attribute, and Value. The 'Attribute' column contains the asset names, and the 'Value' column contains the error codes. The table has 7 rows of data.

6. pivot record data by clicking on button on top right corner of Value Column and then selecting the properties needed.



The screenshot shows a data table with columns: Name, statusCode, errors, Attribute, and Value. A context menu is open over the Value column, displaying a list of columns to select. A red arrow points to the menu icon in the top right corner of the Value column header.

**Table 1: Initial Data Table**

	Name	statusCode	errors	Attribute	Value
1	CMPL_ASSET NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-BD-...	Good	List	CMPL_ASSET NEW MEXICO.SEN...	
2	CMPL_ASSET NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-BD-...	Good	List	CMPL_ASSET NEW MEXICO.SEN...	
3	CMPL_ASSET NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-B5-F...	Good	List	CMPL_ASSET NEW MEXICO.SEN...	
4	CMPL_ASSET NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-BT-F...	Good	List	CMPL_ASSET NEW MEXICO.SEN...	
5	CMPL_ASSET NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-MS-...	Good	List	CMPL_ASSET NEW MEXICO.SEN...	
6	CMPL_ASSET NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-PC-F...	Good	List	CMPL_ASSET NEW MEXICO.SEN...	
7	CMPL_ASSET NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-ST-F...	Good	List	CMPL_ASSET NEW MEXICO.SEN...	

**Table 2: Column Selection Dialog**

- (Select All Columns)
- ☒ Source ItemId
- ☒ Historian ItemId
- ☒ Description
- ☒ Eng Units
- ☒ Latitude
- ☒ Longitude
- ☒ Producer
- ☒ Pad
- ☒ Region
- ☒ Desc
- ☒ Type
- ☒ ID
- ☒ System
- ☒ Shale

☐ Use original column name as prefix

List may be incomplete. Load more

OK Cancel

**Table 3: Pivoted Data Table**

	statusCode	errors	Attribute	Source ItemId	Historian ItemId	Description	Eng Units
1	Good	List	CMPL_ASSET NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-BD-...	localhost.CMPL.SD-BD-FAC_PINLET	localhost.CMPL.SD-BD-FAC_PINLET	Inlet Pressure	psig
2	Good	List	CMPL_ASSET NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-BD-...	localhost.CMPL.SD-BD-FAC_PINLET	localhost.CMPL.SD-BD-FAC_PINLET	Inlet Pressure	psig
3	Good	List	CMPL_ASSET NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-B5-F...	localhost.CMPL.SD-B5-FAC_PINLET	localhost.CMPL.SD-B5-FAC_PINLET	Inlet Pressure	psig
4	Good	List	CMPL_ASSET NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-BT-F...	localhost.CMPL.SD-BT-FAC_PINLET	localhost.CMPL.SD-BT-FAC_PINLET	Inlet Pressure	psig
5	Good	List	CMPL_ASSET NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-MS-...	localhost.CMPL.SD-MS-FAC_PINLET	localhost.CMPL.SD-MS-FAC_PINLET	Inlet Pressure	psig
6	Good	List	CMPL_ASSET NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-PC-F...	localhost.CMPL.SD-PC-FAC_PINLET	localhost.CMPL.SD-PC-FAC_PINLET	Inlet Pressure	psig
7	Good	List	CMPL_ASSET NEW MEXICO.SENDERO.CRESTWOOD.DDSFAC.SD-ST-F...	localhost.CMPL.SD-ST-FAC_PINLET	localhost.CMPL.SD-ST-FAC_PINLET	Inlet Pressure	psig