



Write-back & Planning for Power BI. Period

Power ON Visual – Power XL Table

Documentation and Troubleshooting Guide

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Introduction

This document describes Power ON's **write-back** capable tool, **Power XL Table (PXLT)**. The product is a custom visual developed for Microsoft Power BI, that enhances the user experience by enabling end-users to make permanent changes on data – aka write-back – enriching it with text input controls (like how you can see on modern html pages, e.g.: date pickers, dropdowns, rich text) as well besides the traditional look and see feeling.

On the following pages you will see/ learn

- a **detailed** overview of Power XL Table,
- how to use it in your reports together with some common use-case implementations,
- how to configure it properly
- what the pitfalls are you might encounter and how to overcome them.

Audience

The **audience** of this document are both technicians (developers, DBAs, BI professionals) who are aware of the depths of SQL Server, SSAS Tabular models, Azure Services, Excel and Power BI, but also users who mostly focus on building and preparing reports using Excel or Power BI Desktop.

Some sections are focusing on more technical specific subjects.

Contact us

If you find something unclear for you, ask for support either from your local IT or from Power ON by submitting a ticket on our site: <https://support.poweronbi.com>.

Overview

Power XL Table let users edit any type of **row-level** information in Power BI. Most typical use case is managing dimension type data (e.g.: customers, products, materials etc.) – adding or removing records, editing existing members, changing attributes – as well as performing simple **data entry workloads**. One can consider this visual as a replacement for an existing, simple form-like application, designed for master data or dimension **data management**.

Power XL Table offers the following built-in features and components:

- Writing-back values to the underlying data source
- Date Time/ Month/ Time picker for DATETIME data type columns
- Color picker for color like data type columns
- Check Box or Radio button control for BIT data type columns
- Dropdown list (called Selection) control for replacing key with values
- Supports copy and paste selected cells to / from Power XL; Microsoft Excel
- Conditional formatting for any type of columns
- Setting tens of predefined table formats, cell styles, chart options, sparklines
- and many more.

It is worth to describe in high level **how write-back works** for Tabular models. Depending on your data source (SSAS In-Memory, SSAS Direct Query or SQL only) Power ON Write-Back Service performs the following operations:

- Captures the modified value together with its **tuple** and the user context; After the service understands what to do, determines what T-SQL statements should be executed based on the change and the structure of the model.
- Executes the compiled T-SQL statement against the underlying data source (fact table) to save the modifications
- In case of SSAS in-memory models it will reprocess the table.
- Initiates a refresh on the visual, so that the changes will appear in the report.

Support

Check out **Power ON Knowledge Base** articles at: <https://support.poweronbi.com> under [Visuals] » [Visual Planner] for common use cases, tips, troubleshooting tools.

Please note, that in order to access the articles, you need to **register** on the site. It is advised as you will be able **to submit tickets** if you encounter any difficulties or issues, so that our support team can give you the best service. You can also **email** us at: vizsupport@poweronbi.com

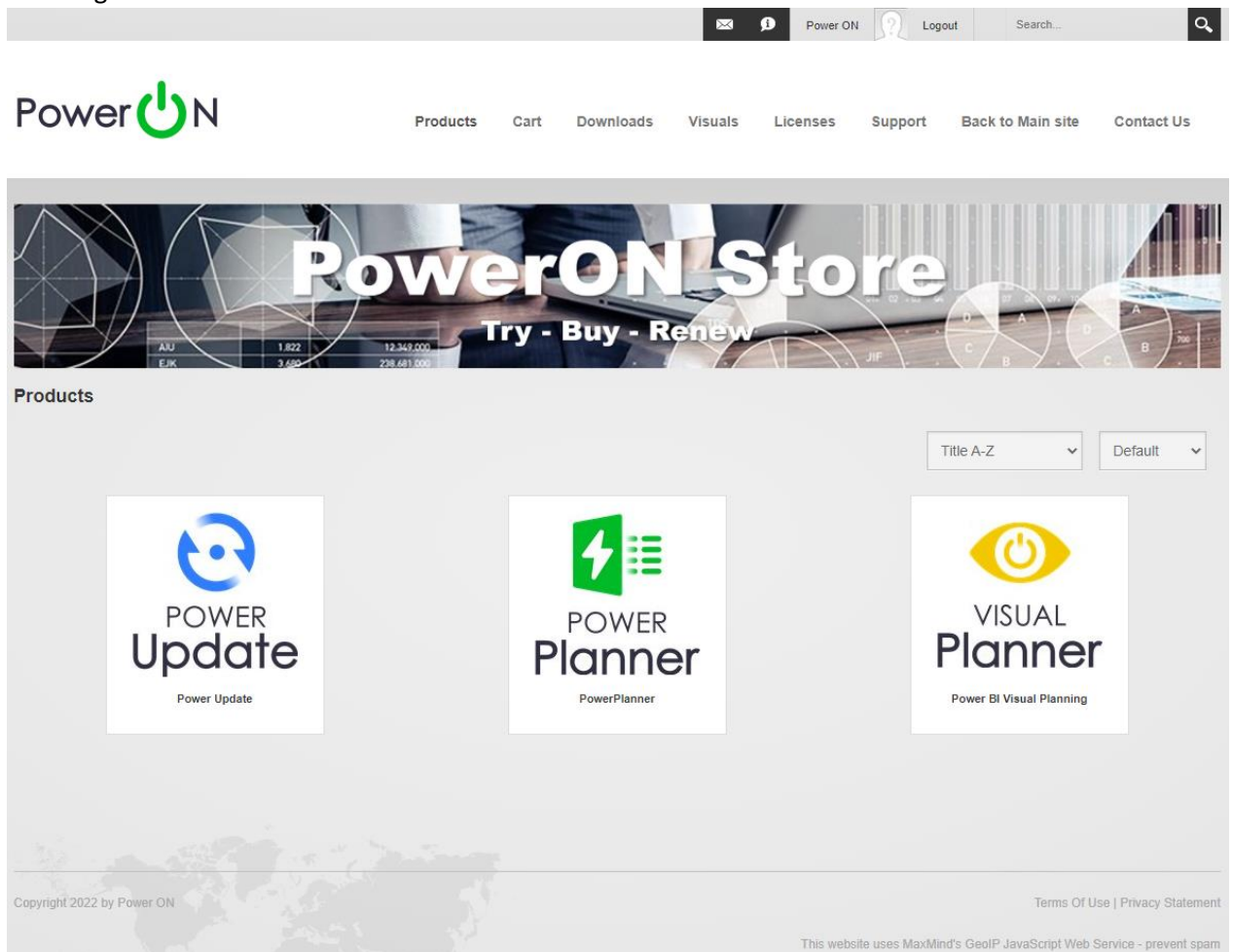
Versions

This document describes the **latest version** of Power XL Table.

The most recent visual is **Power XL.pbviz**.

How can you download the different versions?

1. Register at **store.poweronbi.com** site with the same domain name you have registered originally. During the registration, please make sure to use the email address for both the username and email address field.
2. After login:



3. Click on **Visuals** in upper right corner

4. You can find our available write-back capable visuals and their different versions.

Visuals			
barChart (automatically updated)			
Version	Date	Release Notes	Link
1.3.20	08/19/2021		Download
barChart for VPPortal			
Version	Date	Release Notes	Link
1.3.20	08/19/2021		Download
dataEntryMatrix v3 (automatically updated)			
Version	Date	Release Notes	Link
3.4.45	03/01/2021		Download
dataEntryMatrix v4			
Version	Date	Release Notes	Link
4.6.0	07/26/2021	Notes	Download
4.5.0	05/18/2021	Notes	Download
4.4.29	04/06/2021	Notes	Download
4.4.0	02/22/2021	Notes	Download
powerGantt			
Version	Date	Release Notes	Link
1.0.0	05/19/2021	Notes	Download
smartFilter (automatically updated)			
Version	Date	Release Notes	Link
1.1.15	08/18/2021		Download
smartFilter for VPPortal			
Version	Date	Release Notes	Link
1.1.15	08/19/2021		Download
tableEditor v2			
Version	Date	Release Notes	Link
2.8.0	08/10/2021	Notes	Download
2.7.52	05/17/2021	Notes	Download
2.7.51	05/05/2021	Notes	Download
2.7.47	03/01/2021	Notes	Download
vpService (automatically updated)			
Version	Date	Release Notes	Link
1.0.20	04/13/2021	Notes	Download
1.0.18	04/13/2021	Notes	

5. Pick the preferable version of Power XL Table and click on [Download](#)
- You can even download its **Release notes**, if you like.

Prerequisites

Write-back Service

You must have a working and **configured Write-Back Service** (PPWebService) installed in your environment. If that is set, in order to build a report, first you must **import the Power XL and vpService pbiviz files** into your Power BI Desktop instance. Naturally, you need to do that for each report in which you want to use PXL. The visuals will be stored in the report itself, so other people will also be able to use the write-back capabilities, if they open it. In case of PowerBI cloud services there is an option to store the custom visual in a centralized repository for easier management. You can find more information on this URL: <https://docs.microsoft.com/en-us/power-bi/developer/visuals/power-bi-custom-visuals-organization>

Legacy version of the visual can be found either in your **installation folder under Resources\PPWebService** in the **VPDemo.zip** archive file or you can download it from the following URL: <http://www.power-planner.com/Portals/0/Downloads/PPWebService/visuals.zip>

Before you begin, make sure that you have a properly configured Write-Back Service (PPWebService) that is accessible from the point of the Report Server.

For more information about configuring the PPWebService check out Power ON Knowledge Base articles at: <https://support.poweronbi.com> under [Visual Planner – Write-Back Service](#) for more details.

Please note, that in order to access the articles, you need to **register** on the site. It is advised as you will be able to submit tickets if you encounter any difficulties or issues, so that our support team can give you the best service.

In case of on-premise installations or virtual machines hosted in the cloud make sure that your Power BI Report Server can access the host IIS machine of the PPWebService.

In case of Azure, the Web Applications are accessible by default. The webservice must have a dedicated connection string configured for the data source in the web.config 'connectionStrings' section that is pointing to:

- In case of SSAS models: the used SSAS Cube
- In case of SQL only models: the used SQL database.

The web.config file can be found under the **WWWRoot** folder.

Connections to the data sources should be configured by your IT team. Please refer to the following article in our knowledge base on how to add ones at:

<https://support.poweronbi.com/portal/kb/articles/how-to-add-a-new-data-source-for-write-back>

You can find examples of valid connection strings for different data sources at:

<https://www.connectionstrings.com/>

The PPWebservice service account - used in the connection string - must have the following permissions:

- In case of SSAS models: administration right on the cube, plus data reader and data write roles on the underlying data source database of the cube.
- In case of SQL only models: data reader and data write roles on the SQL database.

The end users (or the user / Active Directory group they are in) must have:

- In case of SSAS models: data reader membership.
- In case of SQL only models: data reader role.

In case of impersonation enabled, then the end users must have data writer role on the underlying SQL databases.

VPService visual

The VPService is a helper visual which establishes the connection between our newest visuals and the Write-Back Service. VPService is updated automatically from the web, you do not need to update it manually, like other not-legacy versions of the visuals.


The benefits of this solution:

- faster release processes: switching from one version to another is much faster, which results in a quicker support from our side (e.g.: in case of implementing new features)
- You can change between the versions of the visuals easily.

The functions of VPService:

- Saves the changes
- Saves the comments (e.g.: in Data Entry Matrix visual)
- Sends the user information
- Opens the pop-up windows (e.g.: in Table Editor visual)

How to configure VPService visual

After importing the visual you can see its icon () under the built-in visuals. You can check its version by right clicking on the icon and selecting 'About' in the menu. A pop-up window appears with the version information.

Add the VPService helper visual to your Power XL Table related report.

Add an arbitrary field to VPService visual, e.g.: an ID.

The content of the [Web Service] » **Url** property has to be **exactly the same** as in Power XL Table ([Power XL] tab » [Data Entry] section » **Writeback Service URL**)!

Warning message

VPService is not connected!

This warning message can be seen, when

- the user is building the report *in PowerBI Desktop*,
- the report is in *Edit mode*,
- the report is in Reading View mode and the user tries to save the changes and *there is no VPService connection*.

**VPService is not connected.
Request has been queued.**

This applies to all VPService based visuals (e.g.: > TE v2.7.23, DEMx v4.x, PowerGantt, Power XL Table visuals).

Limitations

As all custom visuals developed for Power BI, due to Microsoft's policies Power XL Table also has the following limitations:

- **Renaming** editable **columns** and tables in the Power BI report are **not supported**. They must be the same as they are called in the used data source.
In case of SSAS models, the names should be equal to the names of the entities (visible in your model or in your report Fields sections).
In case of SQL data source, the names of the entities should be the same as they are in the SQL tables (e.g.: if your table in SQL is called Customer, it should NOT be called Customers in your report). This rule should be also applied for the names of the fields / columns.
- The characters '[' and ']' (**brackets**) are **not supported** in measure names
- The character '.' (**dot**) is **not supported in table names**, but they can exist in schema names. If you have unsupported characters in your table name, we recommend creating a view on top over the table that complies with the required format and use that view when writing back.
- All custom visuals developed for PowerBI have a default limitation set by Microsoft which is that **30.000 records** can be displayed at one time. If your underlying table has more rows, consider using slicers in your report so that you will edit only a subset of the data and have a seamless workflow.
- Write-back to **measures** is not supported by Power XL Table. Only **row level data** can be modified. If you want to change the values of measures use the Data Entry Matrix (DEMx) visual instead. Power XL Table is intended to be used in cases when you want to modify descriptive, dimension type data.
- Columns that are used as a data source for **Selection** cannot have TEXT or NTEXT data types if you DO NOT use the SmartFilter technique (described later). If you use this technique the restriction does not apply. To make sure if your column is supported for this control, execute a SELECT DISTINCT on the column. Error means that you cannot use this column. The solution is that you should change the data type of the column to VARCHAR(MAX) or NVARCHAR(MAX)
- Non-writable **views** which serve as a data source for the fact table are not supported for write-back. Either materialize your view into a physical table, reduce the complexity of the view or you can create INSTEAD OF INSERT | UPDATE triggers to handle the operation. Typically, non-writable views are that contains complex SQL queries with multiple joins, CASE statements in WHERE clauses, CTEs (Common Table Expressions), aggregations. You can test your view by duplicating it under a different name and executing an INSERT statement against it.
- In case of on-premise **Power BI Report Server** at least January 2019 version is required together with Power BI Desktop 2019 January or more recent versions.

Setup and configuration of the visual

This main section describes the available configuration options for Power XL Table. Also, the following pages describe a **short** step by step instructions for building a **simple** report using PXL. You will find the details of the configuration elements later in this document.

Validate the Write-Back Service

After installation you might want to be sure that the Write-Back Service is installed properly. You can validate that by navigating to your deployed URL, which is in the following format:

`http(s)://yourserverName/PPWebService/PPWebService.svc`

If you see the following page after the page load, then the Write-Back Service is up and running.

PPWebService Service

You have created a service.

To test this service, you will need to create a client and use it to call the service. You can do this using the `svcutil.exe` tool from the command line with the following syntax:

```
svcutil.exe https://tszdel12015/PPWebService/PPWebService.svc/mex
```

This will generate a configuration file and a code file that contains the client class. Add the two files to your client application and use the generated client class to call the Service. For example:

C#

```
class Test
{
    static void Main()
    {
        HelloClient client = new HelloClient();

        // Use the 'client' variable to call operations on the service.

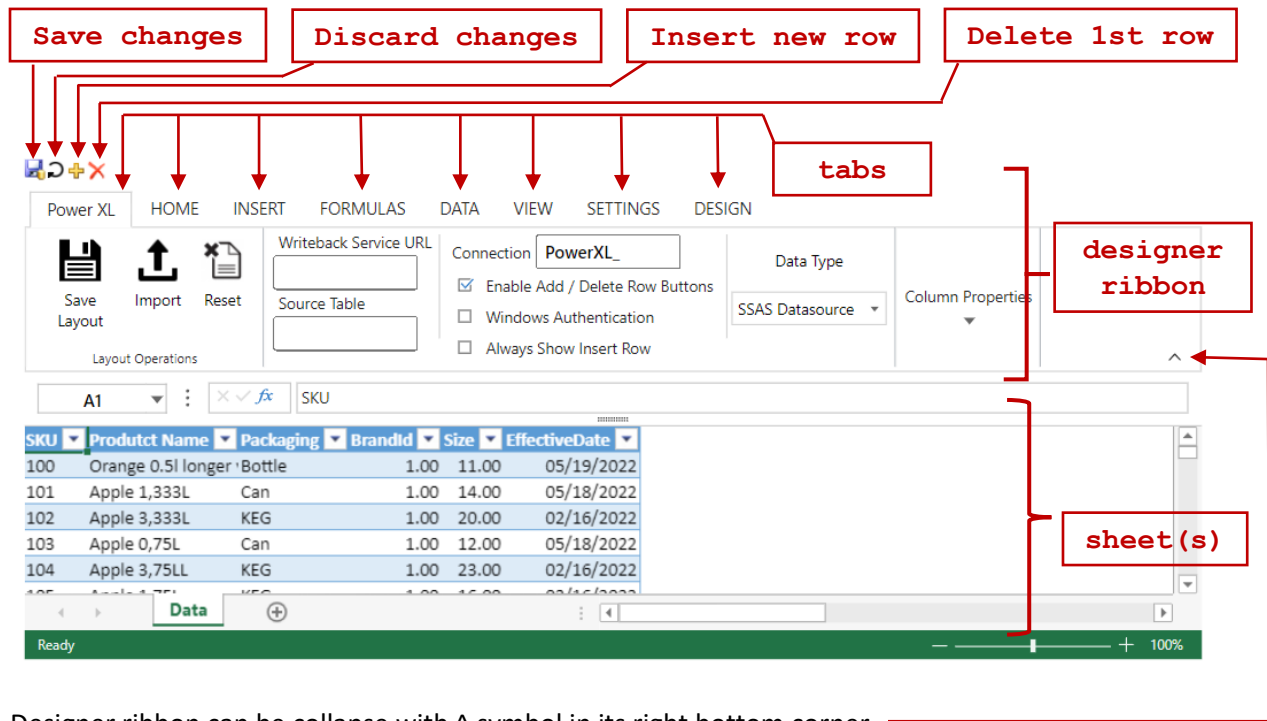
        // Always close the client.
        client.Close();
    }
}
```

Visual Basic

```
Class Test
    Shared Sub Main()
        Dim client As HelloClient = New HelloClient()
        ' Use the 'client' variable to call operations on the service.

        ' Always close the client.
        client.Close()
    End Sub
End Class
```

Power XL Table legend



Designer ribbon can be collapse with ^ symbol in its right bottom corner.

Helper tooltips appear if you hover above the icons:



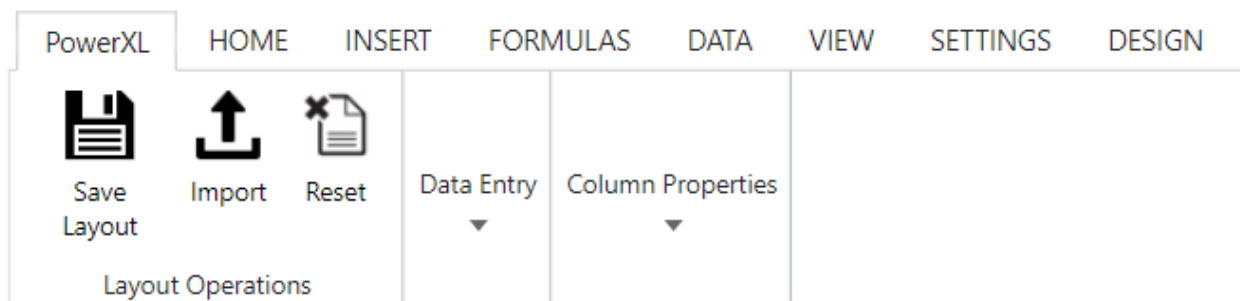
Setting up the basics

After you launched Power BI Desktop, connected to a data source and imported the visuals (VPSERVICE, Power XL Table) into your report, configure VPSERVICE visual.

We have to tell the visuals where they can find the Write-Back Service and which connection they should use during the process. [You can see detailed information in this chapter how to configure VPSERVICE.](#)

⚠ Unlike other Power ON custom visuals, in case of Power XL Table **please use the designer ribbon,** if you want to set something up.

The configuration options will appear in the designer ribbon **after** you dropped the first column into **Power XL Table** visual. You must complete the following steps in order to have a working report element for the write-back functionality.



Specific details

The target table for the write-back **must have a primary key** defined with the followings to keep in mind:

- composite keys are supported.
- in case of SSAS data source the primary key must be part of the SSAS model and visible for end users, and it **must be added to the visual as a field**.
- if there are any specific business rules for creating a key for a new record you either have to create your own custom trigger in your database to provide the new value during the operation. Or in case if you are able to compute the key based on existing data visible in the model with DAX, you can use the Computed Column property.

The image shows a configuration panel for the 'Data Entry' section. It has three main sections: 'Writeback Service URL' with a text input field, 'Source Table' with a text input field, and 'Connection' with a text input field and a 'Type' dropdown menu. There is also a checkbox for 'Windows Authentication'.

[Power XL] tab of the designer ribbon » [Data Entry] section: you must set the **Writeback Service URL**, **Source Table**, **Connection** and **Type** properties (see referring chapters) to make the Write-Back Service working.

Note! The content of **Writeback Service URL** property has to be **exactly the same** like in VPSERVICE visual ([Web Service] » **Url**).

Writeback Service URL

Here you must set the Write-Back Service URL which should point to the hosting machine – or app service – where it was installed. Typical URL is:

[http\(s\)://WEBSERVICE_COMPUTER_NAME/PPWebservice/PPWebservice.svc](http(s)://WEBSERVICE_COMPUTER_NAME/PPWebservice/PPWebservice.svc)

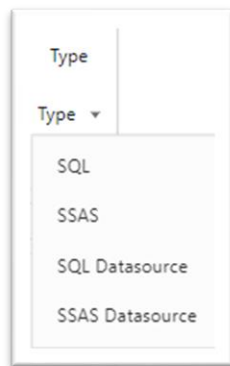
Be careful **not** to have an extra slash at the end of the URL.

Connection

Specify the name of the SQL or SSAS connection defined in the web.config file of the webservice, or the connection string directly, or **leave blank** depending on the 'Type' setting.

Note: Maximum length of this property is 250 characters.

Type



This option is referring to the connection type that the Write-Back Service will use.

The setting is required.

- *SSAS Datasource*: Set a connection name in the 'Connection' property defined in web.config of the webservice
- *SQL Datasource*: The connection is set in the PPWebService web.config and you will have to refer it by its name in 'Connection' property
- *SSAS*: Set the connection string directly in 'Connection' property (leave the connection blank if using the default "**SSASConnection**" in set in the web.config of the webservice)
- *SQL*: Set the connection string directly in the Connection property (leave the connection blank if using the default "**SQLConnection**" in set **in the web.config** of the write-back service; meaning, leaving it blank, it will automatically look for the connection called "SQLConnection" in web.config)

These last two options are used for testing, developing purposes primarily.

Source Table

It is important that you configure this property correctly as misconfiguration can lead to save errors. Please read this chapter carefully.

This property will tell the write-back service which table should be the **target** for data modifications. The name of the write-back target table needs to be entered here. Note, that the property is case sensitive! For example, if you put fields into the visual from the Product table, this property value should be Product as you want to save the modifications to the product table.

You should **not rename** tables or columns in your report.

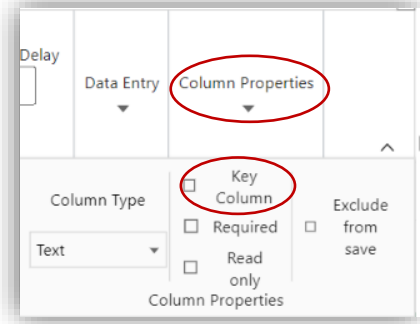
In case of SSAS data source the value must be the **name of the entity** exactly how it is specified in the model.

In case of SQL only data source the value must be the **name of the SQL table** that is being used with the visual.

In case of SQL connections when the table is in a **different schema than dbo**, you need to make some adjustments. When you import a table with a schema to a report, Power BI automatically try to rename the table for you. For instance if you are importing hr.SalesPerson table, in the Fields section you will see it renamed like Hr Sales Person. Because of this operation, Power XL Table will not be able to determine on which table should it initiate the write-back process. Please do the followings to overcome this situation:

1. Rename the table in the Fields list so that it contains exactly the actual SQL table name **without** the schema (in the example it is SalesPerson)
2. Remove and re-add the columns to your Power XL Table
3. Enter the full qualified table name into the 'Source Table' property in the format of schema.table (in our example: hr.SalesPerson)

Setting Primary key



[Power XL] tab of the designer ribbon » [Column Properties] section: Last but not least you need to set the '**Key Column**' for the primary key of your source table.

Primary key can be a single column or even a composite one too. In this last case you need to check in 'Key Column' for every column which represents as primary key in your table.

Numeric type of fields which have no aggregation on top of them are must be set to *Don't summarize* in the Visualizations » Fields »

Values section. Especially check this setting in case of an auto-increment primary key. Otherwise, you will not be able to change values in those columns on which you have aggregations defined.

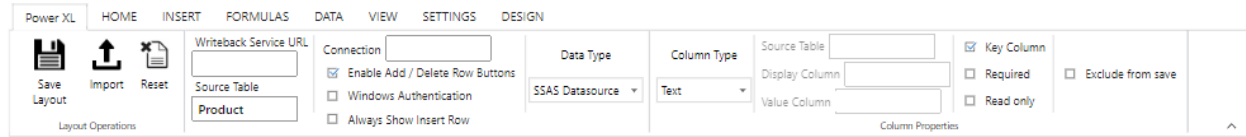
On the other hand, you can still display aggregated values in your visual, but you will not be able to modify those inputs.

Publishing and testing the report

When you finished with your report, publish it to either your on-premise Power BI Report server, or to PowerBI.com. The **write-back will work only** when your report is **published**, so you cannot test the full functionality in Power BI Desktop while you are authoring it. After publishing your report try to modify a cell value and click on save changes. Your modification should be visible in your report.

Completing the above steps, you should have a working, simple, write-back capable report using Power XL Table visual.

[Power XL] tab



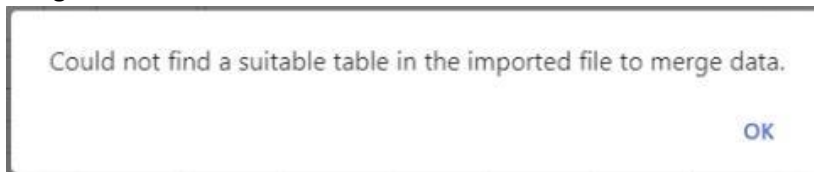
Save Layout

Saving the configurations which have been set up on designer ribbon.

Import

With this button you can import an Excel file which can contain more sheets with tables and data. If you import another file on top of the existing one, then the new import overwrites the previous import.

If there is no data table in Power BI to where it could merge the Excel data table, then you get the below error message:



Importing data underneath, the existing data table is not supported.

Reset

If you click on [Reset] button, it deletes the layout, the content of external cells and cancels import.

It does not reset Power BI settings on designer ribbon.

Enable Add / Delete Rows Buttons

Turning them ON, they add the “Insert row” and “Delete row” buttons on top of the visual.



Windows Authentication

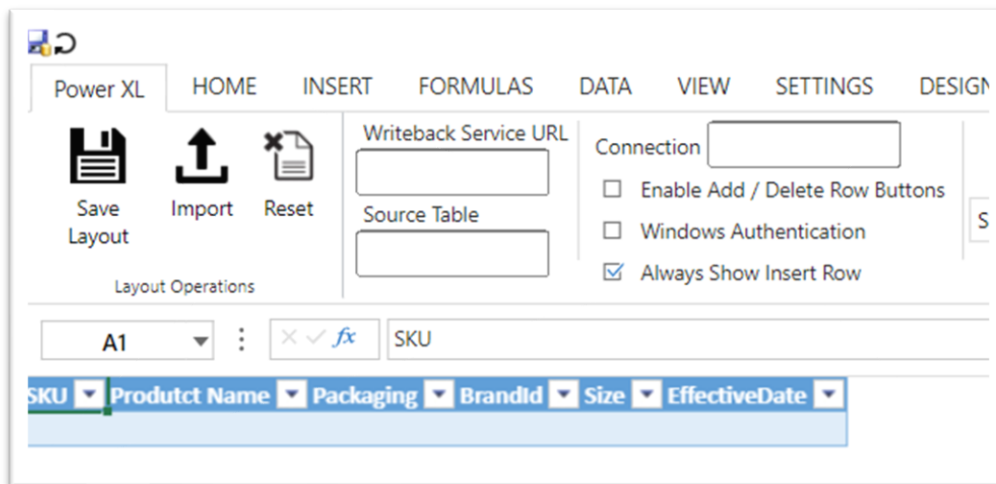
If you are in an on-premise environment using Power BI Report Server this setting has to be turned on, so that the Windows credentials can be passed back to the underlying data source. If you are completely in the cloud - your reports are published to PowerBI.com service - and you are using Azure AD, the setting should be turned off, so that AD credentials will be used when accessing the data source.

In case of Gateway by turning on Windows Authentication will have the following effects: Instead of setting the PowerBI.com credentials in the Write-Back Service request, the visual posts the windows login context. This value (e.g.: domain\user instead of [username@domain.com](#)) will be set if you use USERNAME() in computed and/or default value columns (see later in this document) as well in SQL context variables. Also, this makes possible to use impersonation, and it is **necessary to be turned on if Windows Authentication** is the required option set for authentication in IIS for the Write-Back Service.

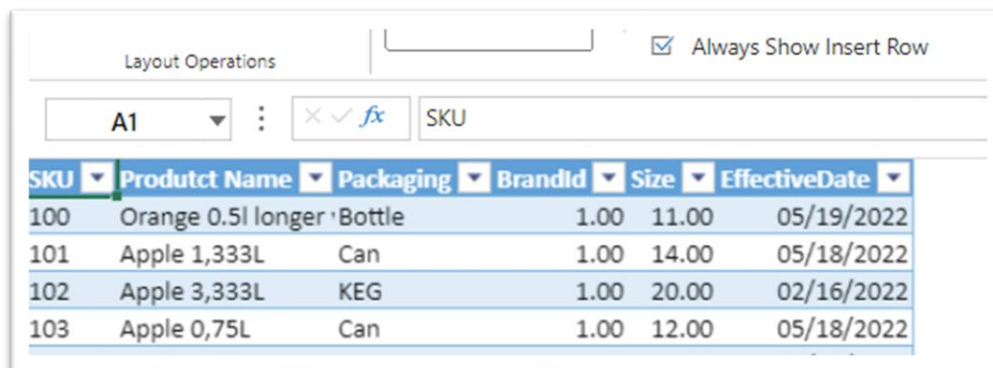
Always Show Insert Row

After turning it ON

If there is no data shown in Power XL Table in the current filter context, a new empty row will appear at the top to be able to insert new values into the source table.



When there are rows to display, the empty row will not show up.



Column Properties

Column Type

You do not need to set the data types for the columns that are on the visual, because Power BI recognizes them automatically. However, making changes in this setting will influence how the cell will be rendered and how it is going to behave. Types can only be set for those columns for which the aggregation is set to *Don't summarize* in the report field's list window as only these fields can be saved during write-back. For columns which are not part of the Power BI dataset, this setting remains hidden. You can choose from the types below:

Text

One-line Textbox in the grid.

Number

This type should be used in all numeric data types: decimal, currency, whole number.

Selection

Using this column type, a **dropdown** control will be rendered for each cell in that column. If you use this type, additional properties must be set, as the values are coming from another related – or lookup – table.

In this case the table has a foreign key with a numeric column which is in relationship with another table. The intention is instead of showing the numbers, you want to show the actual text representation of them and provide the possibility to choose from a set of values.

Usage of *Selection* type column:

1. Set **Column Type** to *Selection*
2. **Source Table** that contains the values for the dropdown list. You need to enter the name of the table as it is displayed in the Fields panel. If you connected to a SQL database directly, you need to provide here the name of the SQL table. If it is in a different schema then **dbo**, you need to provide that as well in the following format: *schemaName.TableName*
3. **Display Column** value will be displayed after the lookup. Usually this is the text field of your lookup table.
4. **Value Column** is the value that will be matched in the lookup table using the value in the current cell. Usually this is the key column in your lookup table.

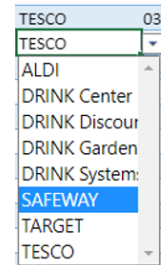
When a source table provided there can be two ways of getting the data for the visual. By default, the visual will use the Write-back Service to retrieve the data by **querying** the underlying data source. With this method, RLS defined in SSAS will not be honored, as all data will be fetched from the source SQL table.

In some cases, this extra round trip to the server can be slow. You can increase the performance and honor any existing RLS with the following technique.

1. Import **SmartFilter Helper** visual to your report and add it to the report page. Use that one which is provided in the setup kit, or you can download it from Power ON Store (store.poweronbi.com).
2. Add those fields (ID and name) to the SmartFilter visual, that are used for the dropdown, 'Display Column' and 'Value Column'.
3. By this way the available values for the dropdown will be stored in the SmartFilter. Power XL Table will recognize it, so it will not query the Write-back Service.

If the dropdown value list is that long you cannot see every one of it, a scroll bar appears automatically on its right side. You can even search among the values by typing the 1st letter, it jumps to the 1st value which starts with that letter and it'll be highlighted.

When you hit "s" in your keyboard, it will jump the "SAFEBWAY" value automatically.



Filter on SmartFilter

If you want to restrict the available values in the dropdown, you can do that.

After adding the fields (ID and name) to the SmartFilter in your report, apply a *visual level* filter on the SmartFilter to restrict the available values. In this case you will not see all possible values in the dropdown for selecting purposes, however you will be able to see those rows in the Table Editor visual, which have other values than the available ones.

[You can find a detailed possible use case in this Knowledge Base article in this topic.](#)

Date

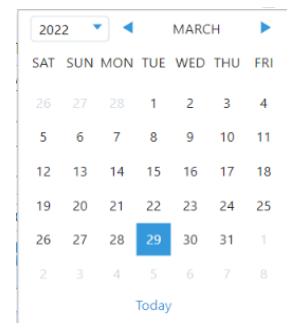
Date type brings up a data picker where you can set the date:

The SQL Database field should be of the type Date or DateTime.

Custom

Changing the cell type/validation/setting of an existing column type will set the type to custom.

This kind of a column can be deleted by clicking on [Reset] button.



Checkbox

Column types for Boolean values can be set to Check box.

Key Column

Power XL Table requires a primary key column (a unique value per row) to be defined in the table, which might be an identity column from SQL Server. If the key is not automatically determined by the SQL Server when inserting new records, then you must enter a value for it, or use some DAX calculations to define a default value.

You just need to check in Key Column for the proper column(s) as representing the primary key. You can use composite primary keys too.

Required

Turning this setting ON makes the column mandatory. If the required field has blank value, changes will not be saved.

Read only

Turning this setting ON prohibits any kind of update on the given column.

If a column is originated from a different table than the source, it will be automatically set to read-only.

Exclude from save

If it is turned ON, the value will not be saved during write-back.

Read only setting should be checked in, when 'Exclude from save' is checked in.

If a column is originated from a different table than the source, or it is an aggregated column, it will be automatically set to exclude from save.

Debug

Diagnostic Mode

Turning it ON, it reveals debug settings.

Known issues

⚠ Please keep in mind, that when we support our clients and partners we are focusing on our product and not on Excel functionalities.

Issue Description	Reproducing steps
Column names cannot be modified (primarily in Edit mode, so that we can alias technical column names)	
Write security measure	We need the ability to restrict edit in certain rows (same as in Table Editor)
Interaction with other visuals	Currently Power XL rows cannot interact with other visuals, when I click a row in a Table Editor, it is not creating any filter context for the other visuals visible on the Power BI page

<p>Keep Power XL filters after save</p>	<ol style="list-style-type: none"> 1) Filter in the data sheet grid 2) apply changes 3) hit save 4) the filters are being reset in the data sheet grid, which is incorrect, filters should persist
<p>Pull down is not pulling down form controls</p>	<ol style="list-style-type: none"> 1) pull down the product column (little dot in the right bottom corner) 2) new records are added below the table, but the field controls (such as the slider on the number field) are not being pulled down 3) when adding a new record with the + icon, then the field controls are being pulled down properly
<p>Hyperlinks are not working</p>	<ol style="list-style-type: none"> 1) add a new sheet in PXL 2) type www.google.com in a cell 3) this cell will turn into a hyperlink automatically 4) go to reading view and click this hyperlink 5) the hyperlink won't navigate anywhere, it is not working
<p>Missing checkbox and dropdown input controls on new record when filtered on all records</p>	<ol style="list-style-type: none"> 1) filter on all records (with PBIX filters) so that no record is returned in the PXL grid 2) click the + button to add a new row 3) input controls (e.g.: checkbox, selection, but potentially others too) are not being added for the new record
<p>Conditional formatting order</p>	<ol style="list-style-type: none"> 1) add multiple conditional formatting rules to your report 2) save the rules in the conditional formatting pop up 3) open the rules again 4) their order is changed, but this is important to keep the order of these rules, because rules should be applied in the defined order
<p>Some of the cells are invalid error message on data entry below data table</p>	<ol style="list-style-type: none"> 0) make sure that the date and quantity column are not in the view sight of the data table 1) start typing below the last row of the data table in column B 3) hit save 4) you get the some of the cells invalid error 5) do the same things when you zoom out on the data table, so that all the columns are in view sight 6) if all columns are in view sight, then you don't get this error

Troubleshooting

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For all cases, please visit our Knowledge Base at: <https://support.poweronbi.com/> to find a solution for your problem. Below you can find common cases. If your issue cannot be solved by the provided materials, please open a ticket on our support site, and Power ON will assist you.

Network Error

Symptom: You receive Network Error message when you try to save data.

Cause: You may get this error typically in the following cases:

- the Write-Back Service URL is not set correctly – or it is malformed – in [Data Entry] settings
- the Write-Back Service is not reachable or off-line
- bad connection name or/and type was specified
- the license service is stopped unexpectedly
- in case of on-premise or Gateway installations the Windows Authentication setting is turned accordingly in the visual under Data Entry based on the IIS authentication settings
- Missing files in the web service folder, or typo / malformed strings in the web.config file
- Windows / Kerberos authentication issue
- Missing Service Principal Names
- Missing Active Directory permissions for service accounts
- Report server URL web service URL format mismatch
- Invalid SSL certificate

Solution: Make sure that the Write-Back Service is up and running and reachable (firewall not interfering) as it is described earlier in this document. Verify that the referenced connection exists in the Write-Back Service configuration and the connection type is selected correctly.

A particular error can indicate a license service failure. Please refer to this article:

<https://support.poweronbi.com/portal/kb/articles/error-the-communication-object-system-servicemodel-channels-servicechannel-cannot-be-used-for-communication-because-it-is-in-the-faulted-state>

If you encounter CORS issue, please check the web.config file of the Write-Back Service for typos, and also missing DLL-s and config files inside the web service folder. As a last resort, try updating the web service file following these articles:

- <https://support.poweronbi.com/portal/kb/articles/how-to-update-the-service-manually-azure-cloud>
- <https://support.poweronbi.com/portal/kb/articles/how-to-update>

If you encounter SSL error, make sure that the certificate is issued by a trusted authority for the full qualified domain name of the IIS server, or that the certificate is set to ignore by the client's browser in case of self-signed certificate, or if the certificate is issued internally by your organization and you try to reach the report outside of the organization domain.

If you are using Power BI Reporting Services on-premise, make sure that the report server URL and the web service URL format matches. Either both have to reference the machine name or the full qualified domain name, and both have to be http or https. Also, if Windows Authentication is set in the IIS configuration make sure that **Windows Authentication** is enabled in your visual under [Data Entry] group.

In case of on-premise installation in a domain with Windows Authentication, make sure that Service Principal Names are created for your SQL and SSAS servers and the correct domain users are used for the services. An SPN is also needed for the service account that is running the PPWebService on the IIS machine as the Application Pool user. Make sure that delegation is enabled in your Active Directory from the App Pool's user (which has to be a trusted user) to the SQL/SSAS services. If these are not set correctly, Kerberos authentication issues can occur, which might result in HTTP 403 or 404 errors or appearing log-in popups. Please refer to the following article and contact your internal IT team: <https://support.poweronbi.com/portal/kb/articles/configure-iis-for-kerberos-authentication>

The visual is not working in Power BI Desktop or the settings are not shown

Symptom: The visual is not rendered, or Power XL specific setting are not displayed.

Cause: Generally, there can be two reasons for this:

- your machine is running out of memory, therefore Power BI Desktop cannot render the elements properly
- your Power BI Desktop Cache is outdated.

Solution: Free up memory on your computer by closing other applications. For clearing the Power BI Desktop cache, please refer to the article in our Knowledge Base at:

<https://support.poweronbi.com/portal/kb/articles/power-bi-desktop-clear-cache>

Save Failed

Symptom: You receive Save Failed message when you try to write-back to the selected cell.

Cause: You may get this error if there is a configuration error in your visual, the Write-Back Service is not configured properly, or in the following cases:

- there is a custom validation implemented that prohibits write-back
- SQL objects are interfering with the data modification TSQL statements (like security policies, triggers, unique constraints, etc.)
- the service account used by the Write-Back Service does not have permission on the underlying SQL database to make the necessary modification on the source table

Solution:

- Check if the service account has the necessary permissions, the password has not expired
- Verify that RLS policies or triggers are not prohibiting the operations

If you were not able to overcome your issue, please submit a ticket on our support site or write at vizsupport@poweronbi.com and we will contact you shortly to help you investigate and fix the problem.