



Power XL Best Practices

Purpose of this document

The purpose of this document is to provide guidance to Power XL developers to get the best out of Power XL. This document will cover best practices, which enable a smooth UI/UX and a good Power XL performance.

What is Power XL?

- Power XL (PXL) is a **writeback capable** Power BI visual
- It **utilizes Excel's grid** and all the broadly used Excel features and functions
- It is embedded into the **Power BI ecosystem**
- Power XL can be best described with the following equation:

$$Power\ XL = (Excel + Writeback) \times Power\ BI$$

Filter on a few records

Location Management

Back Filter Map View Table View Pick Rates Settings

Select a location on the map, in order to drill through to the pick rate management page!

Power XL HOME INSERT FORMULAS DATA VIEW SETTINGS

I3 : $\text{=SUM(Data[CurrentSkuUnits])}$

Location Name	Type	Country	State	City
Chicago (FA)	Factory	United States	Illinois	Chicago
Los Angeles (WH)	Warehouse	United States	California	Los Angeles
New York (DC)	Distribution Center	United States	New York	New York

Total: 14,705,089

While working on the Power XL report on your Power BI desktop, it is recommended to filter on a few records only. That way it is easier to maintain the Power XL table, it is quicker and easier to set formula references.

Power XL HOME INSERT FORMULAS DATA VIEW SETTINGS

I3 : $\text{=SUM(Data[CurrentSkuUnits])}$

Lat.	Long.	Current SKU Units
41.88	-87.63	2,718,782
34.05	-118.24	3,884,307
40.71	-74.01	8,102,000

Total: $\text{=SUM(Data[CurrentSkuUnits])}$

As shown here, it is easier to select an entire column for a formula reference if filtered on 3 rows. This is better than referencing thousands of records in the data table.

Help the users to prefilter the data

When building a report, it is recommended to use Power BI slicers instead of pulling in high volume of data to the front end.

For example, you can add some warning text, in case users select more than 5000 records at a time.

Add filters, so that users can easily filter for those records only, with which they would like to work.

Location Management

Power ON

Back Filter Map View Table View Pick Rates Settings

Location Name: All

You are pulling too many records to the visual. In order to achieve better performance, apply filters and pull only that intersection of data, which you wish to edit or work on!

HOME INSERT FORMULAS DATA VIEW SETTINGS DESIGN

LocationId

Location Name	Type	Country	State	City	Lat.	Long.	Current SKU Units
Albuquerque (PL)	Plant	United States	New Mexico	Albuquerque	35.09	-106.61	10,000,000
Atlanta (PL)	Plant	United States	Georgia	Atlanta	33.75	-84.39	447,841
Austin (FA)	Factory	United States	Texas	Austin	30.27	-97.74	885,400
Baltimore (WH)	Warehouse	United States	Maryland	Baltimore	39.29	-76.61	622,104
Boston (PL)	Plant	United States	Massachusetts	Boston	42.36	-71.06	645,966
Charlotte (PL)	Plant	United States	North Carolina	Charlotte	35.23	-80.84	792,862
Chicago (FA)	Factory	United States	Illinois	Chicago	41.88	-87.63	2,718,782
Cleveland (PL)	Plant	United States	Ohio	Cleveland	41.50	-81.69	390,113
Colorado Springs (DC)	Distribution Center	United States	Colorado	Colorado Springs	38.83	-104.82	439,886
Columbus (FA)	Factory	United States	Ohio	Columbus	39.96	-83.00	822,553

Total: 60,864,816

Ready

TableName[ColumnName] type of formula references

Power XL HOME INSERT FORMULAS DATA VIEW

I3 : X ✓ fx =SUM(Data[CurrentSkuUnits])

	G	H	I	J
1				
2				
3		Total:	=SUM(Data[CurrentSkuUnits])	
4				
5				
6		Lat.	Long.	Current SKU Units
7				
8		41.88	-87.63	2,718,782
9		34.05	-118.24	3,884,307
10		40.71	-74.01	8,102,000
11				

Whenever possible, use TableName[ColumnName] type of references.

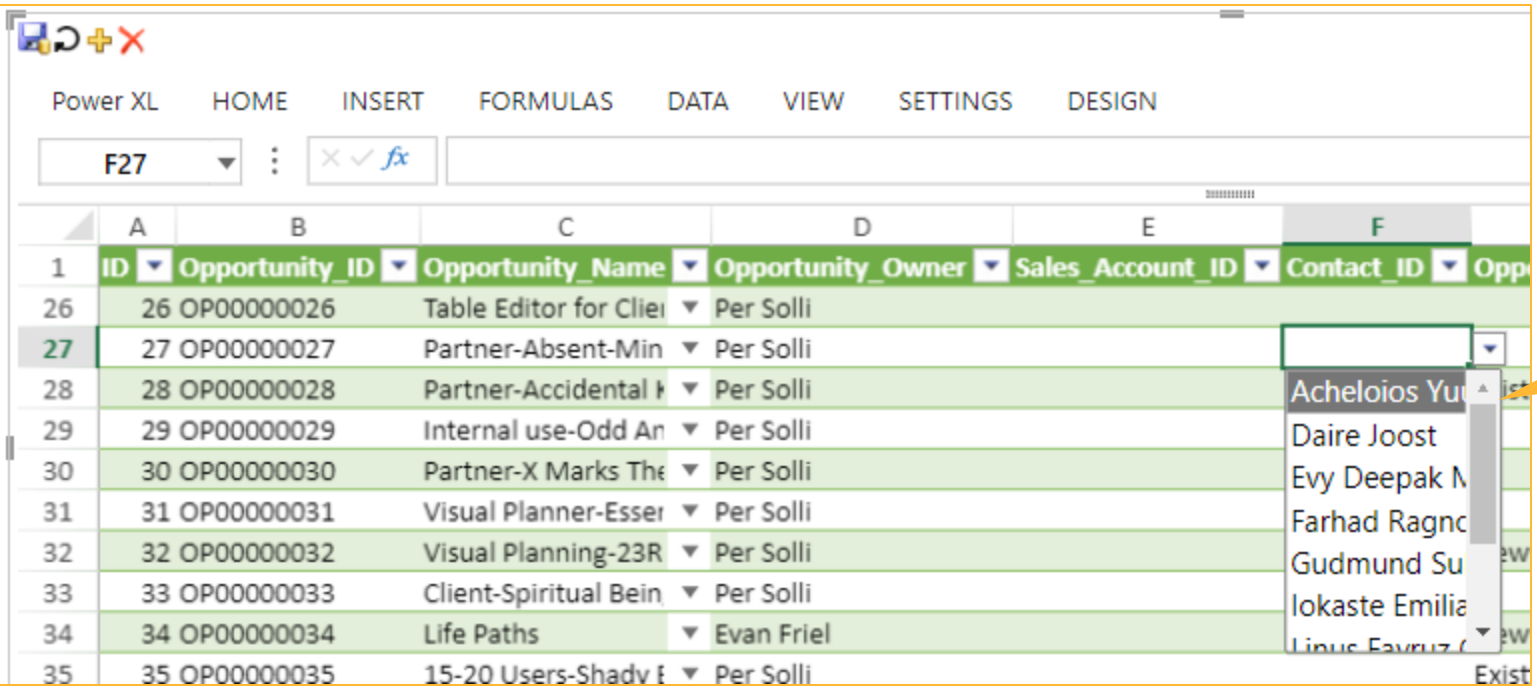
Power XL HOME INSERT FORMULAS DATA

I3 : X ✓ fx =SUM(I8:I1000)

	G	H	I	J
1				
2				
3		Total:	14,705,089	
4				
5				
6		Lat.	Long.	Current SKU Units
7				
8		41.88	-87.63	2,718,782
9		34.05	-118.24	3,884,307
10		40.71	-74.01	8,102,000
11				

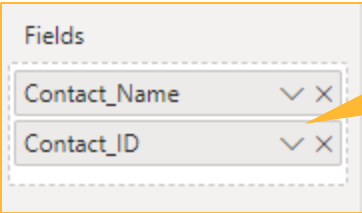
Avoid referencing on column and row positions, because those formulas are less flexible.

Sort SmartFilter Alphabetically



	A	B	C	D	E	F
	ID	Opportunity_ID	Opportunity_Name	Opportunity_Owner	Sales_Account_ID	Contact_ID
26	26	OP00000026	Table Editor for Clie	Per Solli		
27	27	OP00000027	Partner-Absent-Min	Per Solli		
28	28	OP00000028	Partner-Accidental	Per Solli		
29	29	OP00000029	Internal use-Odd An	Per Solli		
30	30	OP00000030	Partner-X Marks The	Per Solli		
31	31	OP00000031	Visual Planner-Esser	Per Solli		
32	32	OP00000032	Visual Planning-23R	Per Solli		
33	33	OP00000033	Client-Spiritual Bein	Per Solli		
34	34	OP00000034	Life Paths	Evan Friel		
35	35	OP00000035	15-20 Users-Shadv	Per Solli		

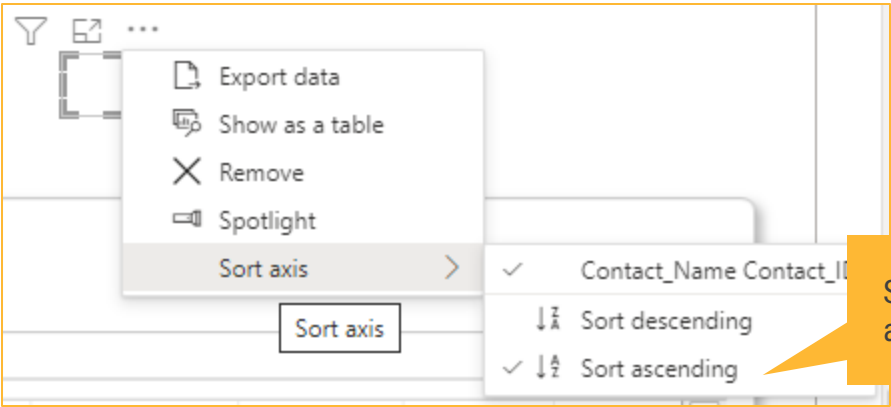
It is recommended to sort selection columns alphabetically, otherwise it is hard to find items in it.



Fields

- Contact_Name
- Contact_ID

Make sure you have the SmartFilter visual with the display value first (Contact Name) and the ID value second (Contact ID).



Export data

Show as a table

Remove

Spotlight

Sort axis

Sort axis

- ✓ Contact_Name Contact_ID
- Sort descending
- ✓ Sort ascending

Set the SmartFilter to be sorted alphabetically.

Avoid Ambiguity in Display and Value

DESIGN

☒ Enable Add / Delete Row Buttons
☐ Always Show Insert Row
☐ Fetch All Data Before Load

Column Properties

Column Type: Selection

Source Table: Dim_Contacts

Display Column: Contact_Name

Value Column: Contact_ID

Column Properties

Make sure that the display and value columns are in a 1:1 match and there is no ambiguity or duplication in them. Selection columns assume this 1:1 match between the display and value columns, hence this needs to be respected.

Ideally this is enforced on the database level by setting unique constraints on both the display and value columns, otherwise ambiguity can arise.

```
ALTER TABLE [dbo].[Dim_Contacts] ADD CONSTRAINT [UQ__Contact_Name] UNIQUE NONCLUSTERED  
(  
[Contact_Name] ASC  
)WITH (STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ONLINE = OFF, OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]  
GO
```

Use Icons for Dropdowns

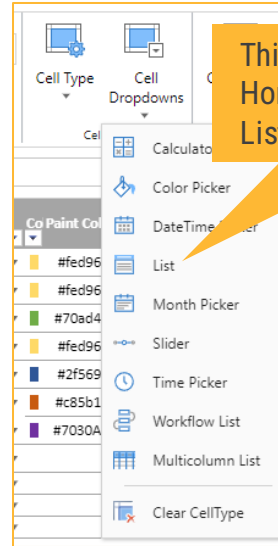
To achieve a more visually appealing look and feel, it is recommended to use icons in dropdowns, as seen in the example below.

Due Date	Design
18 Mar. 2022	Waiting for Approval
19 Apr. 2022	Waiting for Approval
15 Oct. 2021	Waiting for Approval
22 Sep. 2021	Delayed
31 Aug. 2021	Working on it
20 Aug. 2021	Done
19 May. 2022	
04 Aug. 2022	

Reason Code
Other

- Regulatory
- Strategic
- Contract
- Other

This can be added under Home >> Cell Dropdowns >> List.



Then clicking the 3 dots.

Caption	
BackColor	
Hover BackColor	
Image Type	Dropdown
Visibility	Always
Command	List

Finally browsing an icon to the given list item.

Multi-select

Value Type: String

Root

- Waiting for Approval
- Delayed
- Working on it
- Done

Has Children

Text: Waiting for Appro

Value: Waiting for Appro

Icon:

Select File

OK

Cancel

Form Mode

Unlike in Excel, in Power XL users can use circular references. The following form references the original data from the blue data sheet to the form and then referencing that back to the blue data sheet for writeback.

Voting Form

UPC Code: TSKU00000004 SKU Name: Raspberry

Vote List
National Keep

Action List
Under Consideration

Reason Code
Other

Cross Functional Comments

The form's C10 cell is getting the data from Data!F2.

Power XL HOME INSERT FORMULAS DATA VIEW SETTINGS

C10 =IF(Data!F2=0,"",Data!F2)

	A	B	C	D	E
7					
8					
9			Vote List		Cross Functional Comr
10			National Keep		
11					

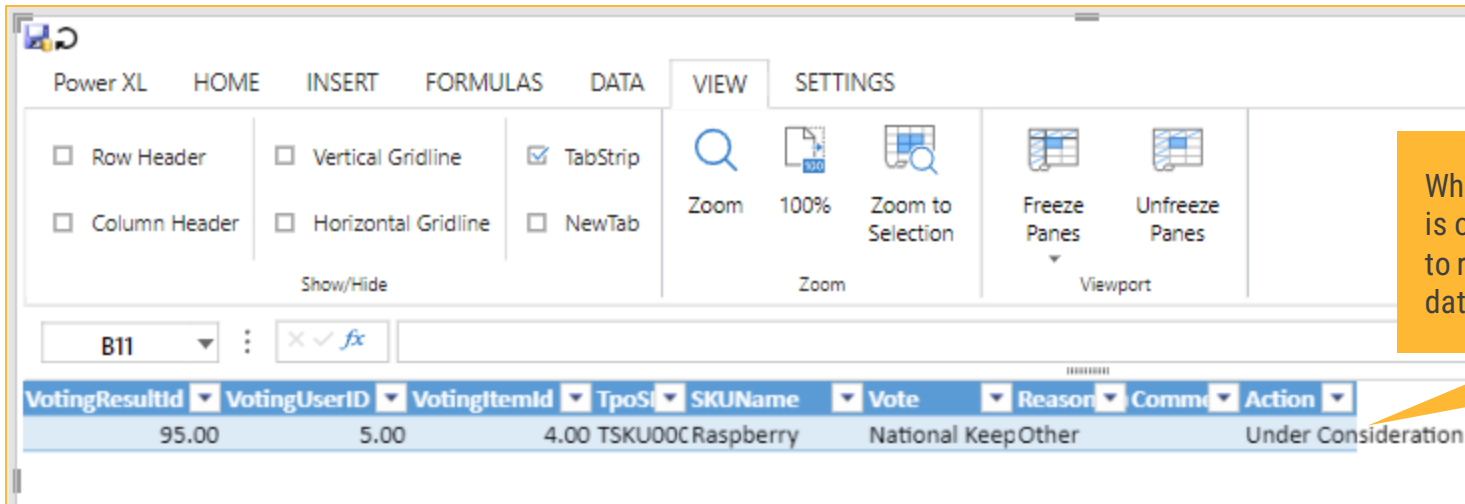
Data!F2 is pulling the data back from Form!C10, hence once the users change the original value on the form, it is referenced back to the writeback capable blue table area of the Power XL grid.

Power XL HOME INSERT FORMULAS DATA VIEW SETTINGS DESIGN

F2 =Form!C10

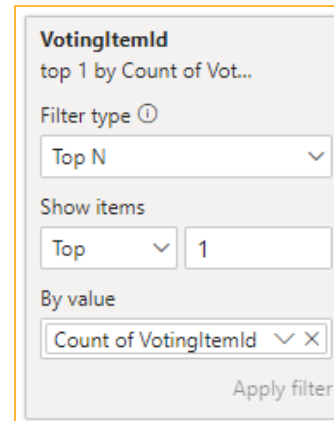
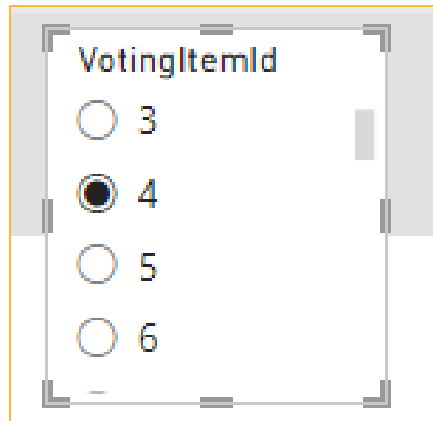
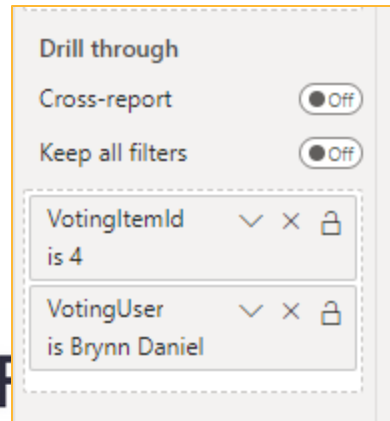
	A	B	C	D	E	F	G
1	VotingResultId	VotingUserID	VotingItemId	TpoSl	SKUName	Vote	ReasonCode
2	95.00	5.00	4.00	TSKU00C	Raspberry	National Keep	Other
3							
4							

Form Mode



When using Power XL for form use cases, make sure that there is only 1 record in the Power XL grid, otherwise it is not possible to reference values properly between the form sheet and the data sheet.

This can be enforced in multiple ways, either by a drill through based approach, a single selection slicer or a top 1 filter on the visual.



Insert New Record in Form Mode

Add New Snapshot

Power XL HOME INSERT FORMULAS DATA VIEW SETTINGS

B9

You are about to take a snapshot of Version: 'test'

Add note and s

Ready

When using form mode for new data entry, instead of true insert, you can use an insert instead of update.

Create a dedicated record, on which the update is translated to an insert.

Add New Snapshot

Power XL HOME INSERT FORMULAS DATA VIEW SETTINGS

E3

	A	B	C	D
1	BudgetSnapshotId	BudgetVersionId	Versions	ActualVersion
2		1.00	46.00 *1;Actuals*27;Bu	46.0
3				
4				
5				
6				
7				
8				
9				
10				

Data VersionLKP Form

Ready

```
CREATE trigger [dbo].[trg_HandleNew_BudgetSnapshot] on [dbo].[BudgetSnapshot]
after update
as
begin

declare
    @BudgetSnapshotId int = (select [BudgetSnapshotId] from inserted),
    @BudgetVersionId int = (select [BudgetVersionId] from inserted),
    @CreatedAt datetime = dateadd(ms,-datepart(ms,getdate()),getdate()),
    @CreatedBy nvarchar(50) = coalesce(cast(session_context(N'user_name') as varchar(max)),system_user),
    @NewBudgetSnapshotId int

if @BudgetSnapshotId=1
begin
    insert into [dbo].[BudgetSnapshot]
    (
        [BudgetVersionId],
        [SnapshotNote],
        [CreatedAt],
        [CreatedBy]
    )
    select
        [BudgetVersionId],
        [SnapshotNote],
        @CreatedAt,
        @CreatedBy
    from [dbo].[BudgetSnapshot]
    where
        [BudgetSnapshotId]=1

    set @NewBudgetSnapshotId = IDENT_CURRENT('BudgetSnapshot')
```

Every time this record is updated, translate that update operation to an insert operation with a trigger.

Insert New Record in Form Mode

Add New Snapshot

Power XL HOME INSERT FORMULAS DATA VIEW SETTINGS

B9

You are about to take a snapshot of Version: 'test'

Add note and save!

Ready

Power XL HOME INSERT FORMULAS DATA VIEW SETTINGS

Layout Operations

Save Layout Import Reset

Writeback Service URL

Source Table

Connection

Data Type

☐ Windows Authentication

☐ Enable Add / Delete Row Buttons

☒ Always Show Insert Row

☐ Fetch All Data Before Load

Alternatively you can use the "Always show insert row" feature and filter out all records from the Power XL table.

Add New Snapshot

Power XL HOME INSERT FORMULAS DATA VIEW SETTINGS

Layout Operations

Save Layout Import Reset

Column Properties

B2

BudgetSnapshotId	BudgetVersionId	CreatedAt	CreatedBy	SnapshotNo

Ready

If this setting is enabled and the result set of the Power XL table is empty, it will show an extra row, which can be used automatically for data entry.

Dynamic Dropdown in Form Mode

 Add New Version 

 Back

Power XL HOME INSERT FORMULAS DATA VIEW SETTINGS

I6 : X ✓ fx

Add New Budget Version

Version Name	**		Source Version (Optional)	Actuals Budget Scenario Version (Optimistic Optimistic Budget What If 2023 2023 Sales Budget
Version Category	*			
Version Type	*			
Version Status	*			

* field is mandatory
** field is mandatory and must be unique

Ready | Data | VersionLKP | **Form** | 100%

At this point, using the dynamic dropdown list in form mode can only be achieved with some DAX and Excel formula tricks.

As the first step, create a DAX measure, which concatenates the key and value pairs in a structured format, for example with a | delimiter.

| 1 | Apple | 2 | Orange | 3 | Banana | 4 | Pear | 5 | Pinapple |

Dynamic Dropdown in Form Mode

Pass this measure to the Power XL visual and create an extra sheet, where you extract the key value pairs with some text parsing formulas.

Then create some Excel functions, which are splitting the information encapsulated in that single string.

[illegible]

Finally pass this range of values to a list validation on the form.

Data Validation

Settings | Input Message | Error Alert | Highlight Style

Validation Criteria

Allow
List ▼

Data:
between ▼

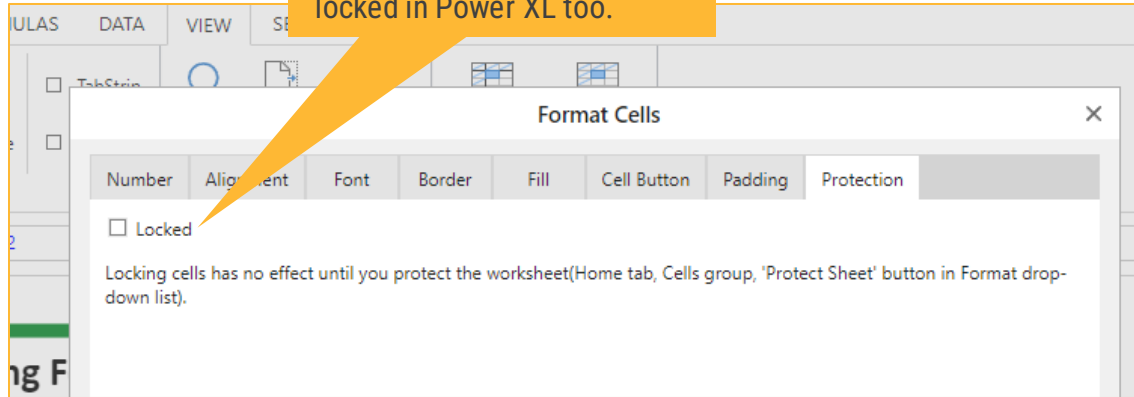
Source:
 

☒ Ignore Blank

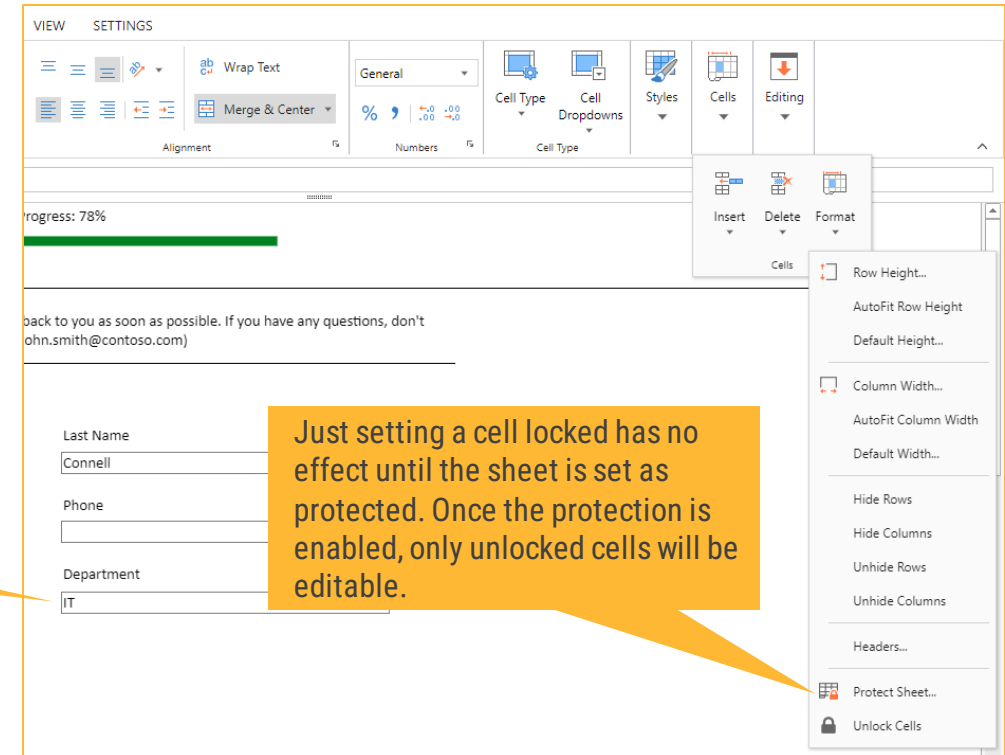
☒ In-cell dropdown

Sheet Protection

Similarly, as in Excel, users can set a cell as locked or not locked in Power XL too.

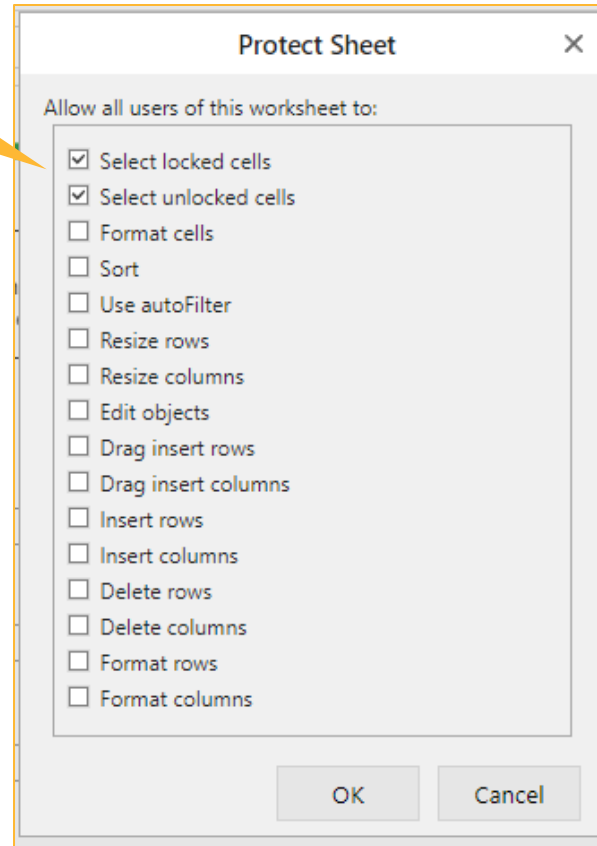


It is recommended to set only those cells as unlocked, which we want the users to edit, especially in form-based use cases.



Sheet Protection

In the protect sheet menu users can further define which actions they allow in protected mode.



Sheet Protection

Power XL

HOME INSERT FORMULAS DATA VIEW SETTINGS DESIGN

Save Layout Import Reset

Writeback Service URL: <https://advanced>

Connection: VPPOC_PowerXL

Data Type: SSAS Datasource

Layout Operations

Enable Add / Delete Row Buttons

Always Show Insert Row

Fetch All Data Before Load

Column Properties

Column Type: Text

Source Table: Lookup

Display Column: DisplayValue

Value Column: Attribute1

Key Column

Exclude from save

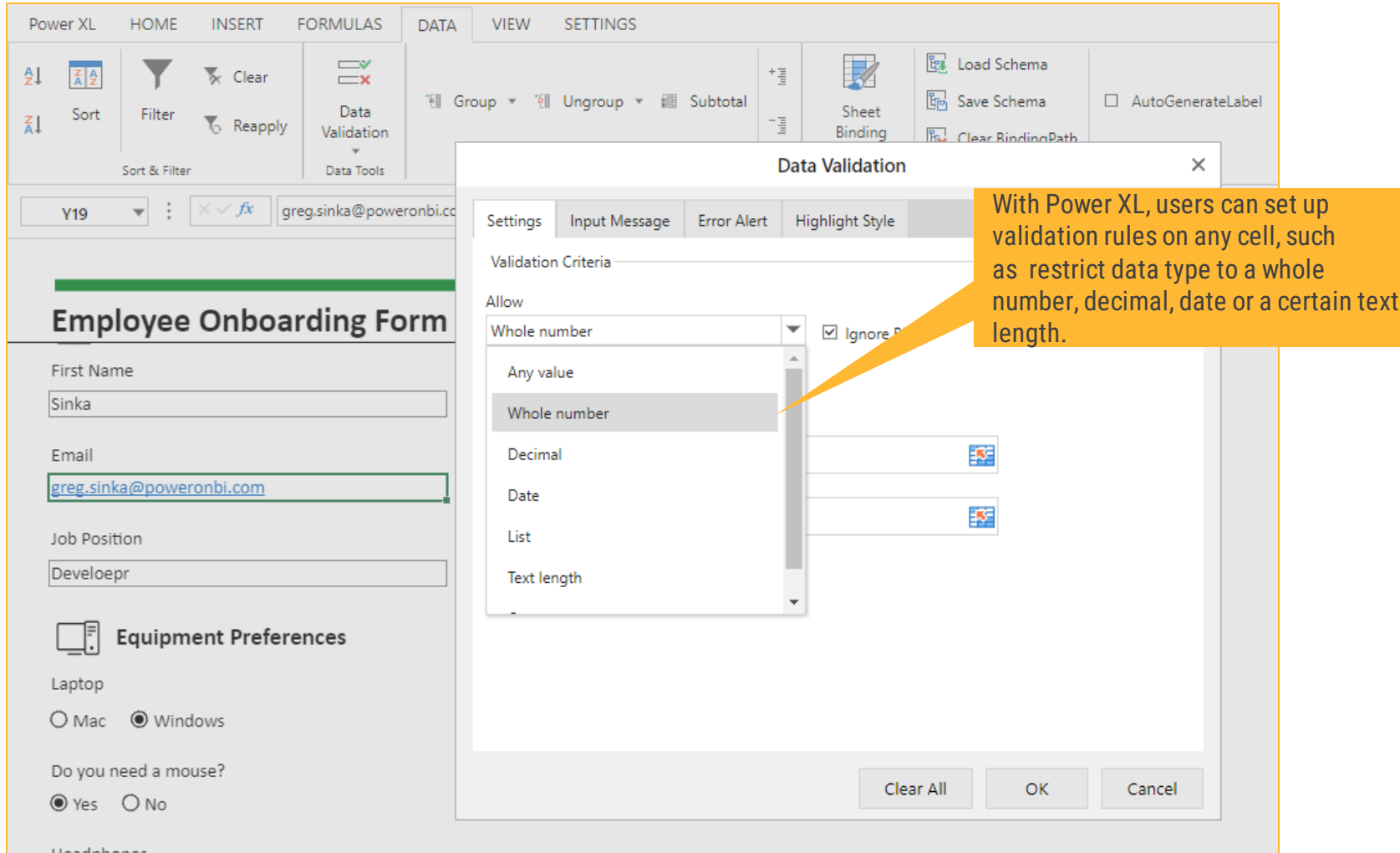
Required

Read only

Write Security

	A	B	C	D	E	F	G
1	Index	Attribute1	Value3				
10032	10,031.00	A46	853.36				
10033	10,032.00	A10	517.41				

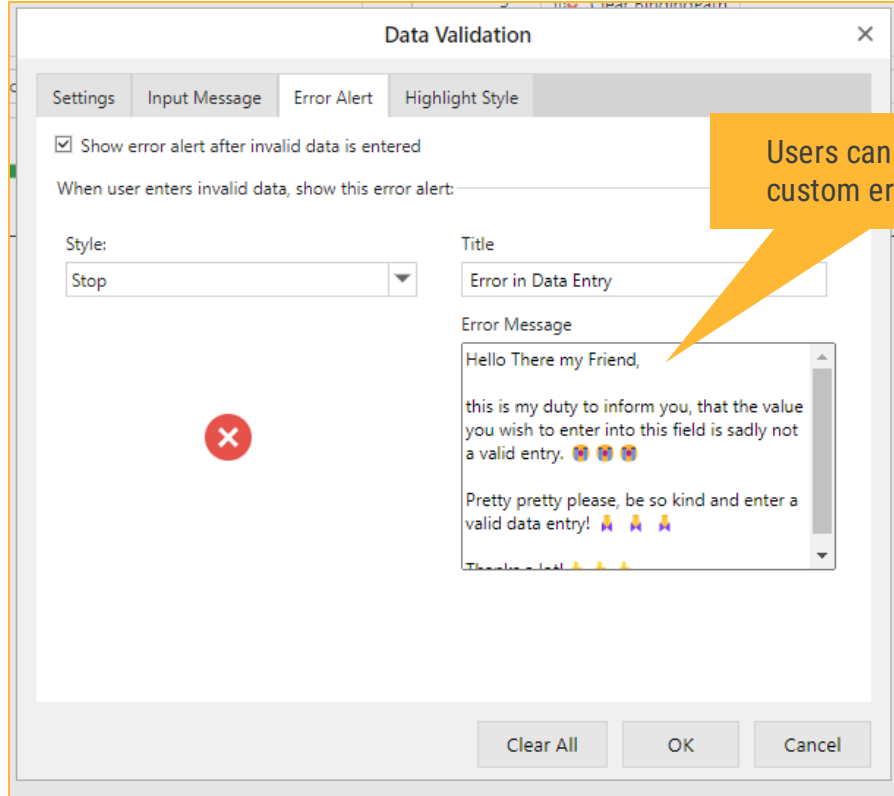
Data Validation



The screenshot shows the Power XL application interface with the 'Data Validation' dialog box open. The dialog has four tabs: 'Settings', 'Input Message', 'Error Alert', and 'Highlight Style'. The 'Settings' tab is active, showing 'Validation Criteria' with 'Allow' set to 'Whole number'. An orange callout box points to the 'Whole number' option in the dropdown menu, with the text: 'With Power XL, users can set up validation rules on any cell, such as restrict data type to a whole number, decimal, date or a certain text length.'

The background interface includes a ribbon with tabs: Power XL, HOME, INSERT, FORMULAS, DATA, VIEW, and SETTINGS. The 'DATA' tab is active, showing options like Sort, Filter, Clear, Reapply, Data Validation, Group, Ungroup, Subtotal, Sheet Binding, Load Schema, Save Schema, and Clear Binding Path. Below the ribbon is a form titled 'Employee Onboarding Form' with fields for First Name (Sinka), Email (greg.sinka@poweronbi.com), Job Position (Develoepr), and Equipment Preferences (Laptop: Mac, Windows; Do you need a mouse? Yes, No).

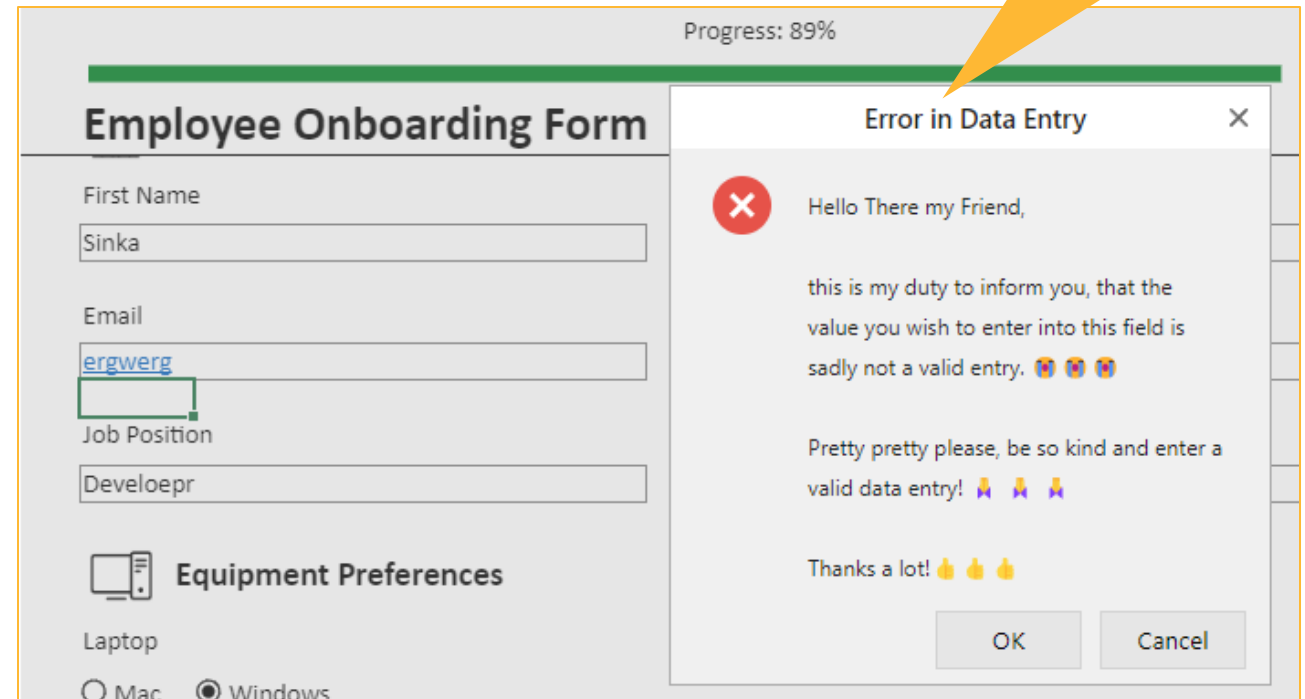
Data Validation



The screenshot shows the 'Data Validation' dialog box with the 'Error Alert' tab selected. The 'Show error alert after invalid data is entered' checkbox is checked. The 'Style' dropdown is set to 'Stop'. The 'Title' field contains 'Error in Data Entry'. The 'Error Message' field contains a multi-line text: 'Hello There my Friend, this is my duty to inform you, that the value you wish to enter into this field is sadly not a valid entry. 🙄🙄🙄 Pretty pretty please, be so kind and enter a valid data entry! 🙏🙏🙏 Thanks a lot! 🙌🙌🙌'. A red 'X' icon is visible in the background. At the bottom are 'Clear All', 'OK', and 'Cancel' buttons.

Users can also define custom error alerts.

If a data validation rule is violated, this error message will be shown to the user.



The screenshot shows the 'Employee Onboarding Form' with a progress bar at 89%. The form fields are: First Name (Sinka), Email (ergwerg), Job Position (Develoepr), and Equipment Preferences (Laptop selected, Mac and Windows unselected). An 'Error in Data Entry' dialog box is overlaid on the form, displaying the same error message as the first screenshot. The dialog box has 'OK' and 'Cancel' buttons at the bottom.

Data Validation

The screenshot displays the Microsoft Excel interface with the 'DATA' tab selected. The ribbon includes options for Sort, Filter, Data Validation, Group, Ungroup, Subtotal, Sheet Binding, Load Schema, Save Schema, and Clear BindingPath. Below the ribbon, the 'Employee Onboarding Form' is visible, featuring input fields for First Name (Sinka), Email (greg.sinka@poweronbi.com), and Job Position (Develoepr). The Data Validation dialog box is open, showing the 'Settings' tab. The 'Validation Criteria' section is configured with 'Allow' set to 'Custom', 'Data' set to 'between', and the 'Formula' set to '=NOT(ISERR(SEARCH("@",Y19)+SEARCH(".",Y19,SEARCH("@",Y19))))'. An orange callout bubble points to the formula field, explaining that users can set up custom formula-based validation rules.

Power XL HOME INSERT FORMULAS DATA VIEW SETTINGS

Sort Filter Clear Reapply Data Validation Data Tools

Y19 greg.sinka@poweronbi.com

Employee Onboarding Form

First Name
Sinka

Email
greg.sinka@poweronbi.com

Job Position
Develoepr

Data Validation

Settings Input Message Error Alert Highlight Style

Validation Criteria

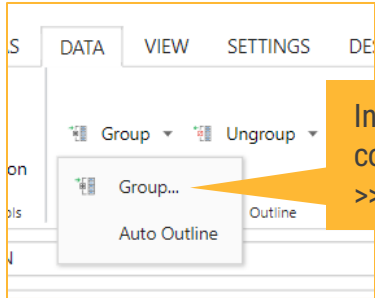
Allow
Custom ☒ Ignore Blank

Data:
between

Formula:
=NOT(ISERR(SEARCH("@",Y19)+SEARCH(".",Y19,SEARCH("@",Y19))))

Users can even set up custom formula-based validation. Any kind of custom rules can be implemented, such as to check if the field is a valid e-mail address or follows a certain pattern.

Collapse and Expand Columns



In Power XL users can set certain columns as collapsible, under the Data >> Group option.

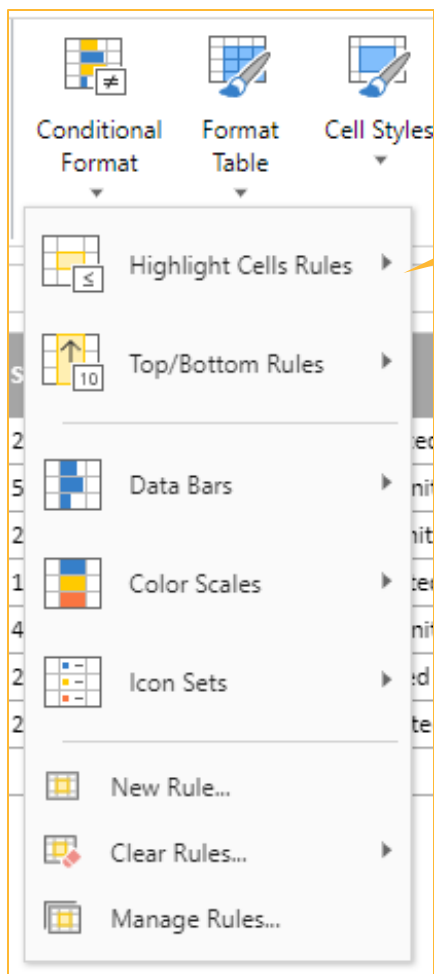
Once set as grouped, report users can expand and collapse the columns. Thus, they can align the grid to their needs.

Edit the employee data in the grid!

B	C	D	E	F	G	H	I	J	K	L	M
Employee Name	Cost Center	Job Sub-Activity	Employee Type	GPID	Leadership Group/Level	Position Title	Line Name	Crew/Shift	Area	Packaging Roles	Processing Roles
Alanna Dickson	PRODUCTION	Processing	Hourly	5400022	L04	Buyer	LN001	5	Other		
Livia Shields	PRODUCTION	Processing	Hourly	5400023	L04	Analyst	LN020	5	Other		
Omari Carter	PRODUCTION	Processing	Hourly	5400024	L04	General Assistant	LN020	2	Sanitation		

B	I	J	K	L	M	N	O	P	Q	R	S
Employee Name	Line Name	Crew/Shift	Area	Packaging Roles	Processing Roles	Maintenance	Quality	Sanitation	Other		
Alanna Dickson	LN001	5	Other								
Livia Shields	LN020	5	Other								
Omari Carter	LN020	2	Sanitation								

Conditional Formatting



It is highly recommended to enrich the data grid with conditional formatting. Power XL provides a variety of conditional formatting options, such as background color, font color, data bars, icons and more.

The below example shows the same grid with and without conditional formatting. With conditional formatting the grid looks more visually appealing and easier to understand.

C Product	Quantity	Due Date	Design	Build	Ship	Progress	Paint Color	Order Link	Ship To
Personalised Noteboo...	1,000	18 Mar. 2022	Waiting for Approval	Delayed	Working on it	34%	#7030A0	AUG0001	235 Bowery, New York, NY 10002, United St...
Leather Journal	500	18 Nov. 2021	Working on it	Delayed	Delayed	44%	#3a5823	AUG0002	558 Broadway, New York, NY 10012, United...
Vintage Necklace	800	08 Nov. 2021	Done	Done	Working on it	67%	#abd08f	AUG0003	215 Centre St, New York, NY 10013, United ...
Scandinavian Print	800	20 Oct. 2021	Done	Delayed	Delayed	54%	#f4b185	AUG0004	175 5th Ave, New York, NY 10010, United S...
Blue Wall Art	1,000	01 Oct. 2021	Delayed	Waiting for Approval	Waiting for Approval	15%	#2f5697	AUG0005	475 Broadway, New York, NY 10013, United...
Christmas Tree Kit.	500	22 Sep. 2021	Done	Waiting for Approval	Working on it	32%	#00B050	AUG0006	29 E 4th St, New York, NY 10003, United Sta...
Miniature Dollhouse	800	18 Aug. 2021	Working on it	Working on it	Delayed	78%	#C00000	AUG0007	252 1st Ave., New York, NY 10009, United S...
New item...									

C Product	Quantity	Due Date	Design	Build	Ship	Progress	Paint Color	Order Link	Ship To
Personalised Noteboo...	1,000	18 Mar. 2022	Waiting for Approval	Delayed	Working on it	34%	#7030A0	AUG0001	235 Bowery, New York, NY 10002, United St...
Leather Journal	500	18 Nov. 2021	Working on it	Delayed	Delayed	44%	#3a5823	AUG0002	558 Broadway, New York, NY 10012, United...
Vintage Necklace	800	08 Nov. 2021	Done	Done	Working on it	67%	#abd08f	AUG0003	215 Centre St, New York, NY 10013, United ...
Scandinavian Print	800	20 Oct. 2021	Done	Delayed	Delayed	54%	#f4b185	AUG0004	175 5th Ave, New York, NY 10010, United S...
Blue Wall Art	1,000	01 Oct. 2021	Delayed	Waiting for Approval	Waiting for Approval	15%	#2f5697	AUG0005	475 Broadway, New York, NY 10013, United...
Christmas Tree Kit.	500	22 Sep. 2021	Done	Waiting for Approval	Working on it	32%	#00B050	AUG0006	29 E 4th St, New York, NY 10003, United Sta...
Miniature Dollhouse	800	18 Aug. 2021	Working on it	Working on it	Delayed	78%	#C00000	AUG0007	252 1st Ave., New York, NY 10009, United S...
New item...									

Client Side Calculations

Power XL supports client-side calculations. Users can add their own calculations on the flight, while using the report.

For some use cases, it is recommended to pull in some values as measures, which will serve as a baseline for calculations. Users then can reference this measure value (original value) and change it using the client-side calculations.

	A	B	C	D	E
1					
2			Current	New	Delta
3		Total	77,620	62,096	-20%
4					
5					
6					
7					
8	Supplier Name	Industry	Current Monthly Capacity	New Monthly Capacity	Delta
9					
10	Supplier1	Metals	12,626	=C10*0.8	-20%
11	Supplier2	Plastics	7,702	6,162	-20%
12	Supplier3	Engineering Services	12,353	9,882	-20%
13	Supplier4	Metals	12,626	10,101	-20%
14	Supplier5	Plastics	10,176	8,141	-20%
15	Supplier6	Engineering Services	10,176	8,141	-20%
16	Supplier7	Plastics	11,961	9,569	-20%

Current capacity is pulled in as a measure (not writeback capable).

New capacity is the writeback capable column.

Users can use formulas in the front-end to change the current value. For example, multiply the current capacity by 80% and calculate the new capacity value.

Client Side Calculations

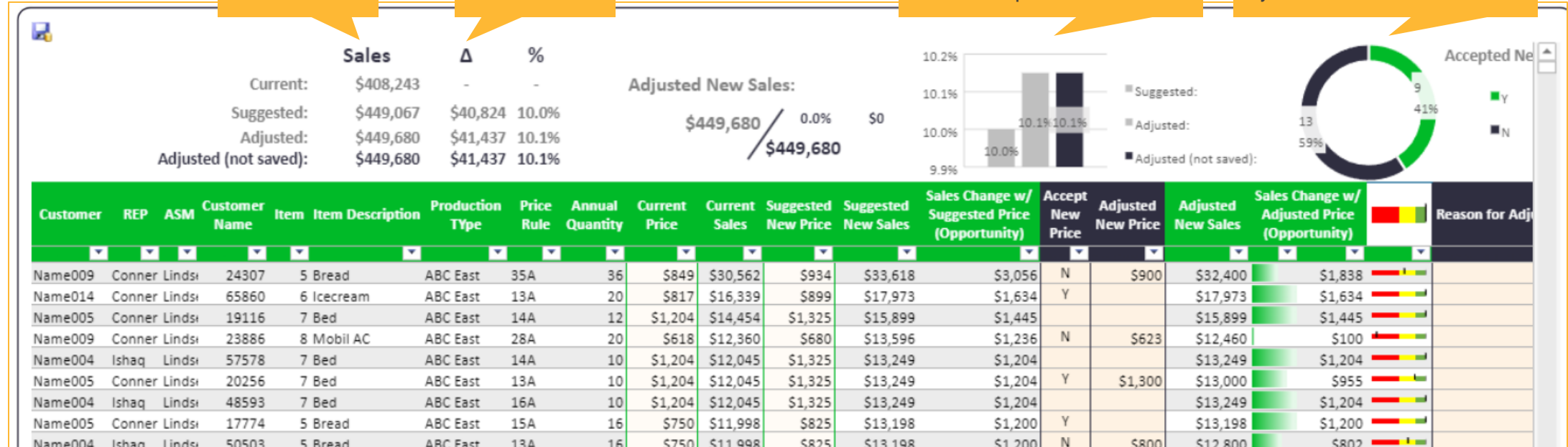
It is recommended to add further client-side calculations to the report. This will give the users instant feedback, so they can see the effects of the changes before values are saved.

Show totals.

Add delta calculations.

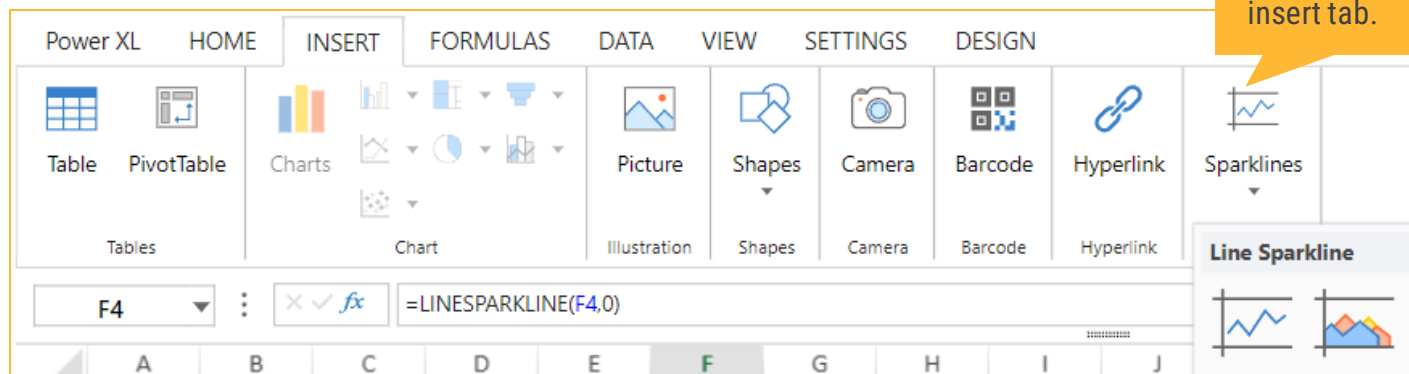
Show some values on a bar chart on top of the data table.

Use a pie chart to show values by certain attributes.



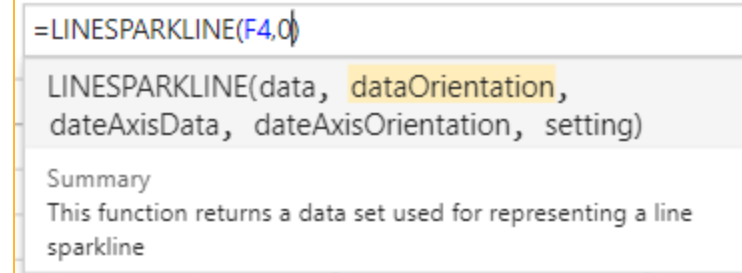
Sparklines

Power XL provides a variety of sparklines. They can be added as excel formulas; however, they will be rendered as small charts inside the cell.



Sparklines can be added using the insert tab.

Alternatively, sparklines can be written as a formula directly in the cell. A tooltip helps to define the attributes of the sparkline.



Some sparklines have an additional setting property, where more settings can be defined in the JSON format.

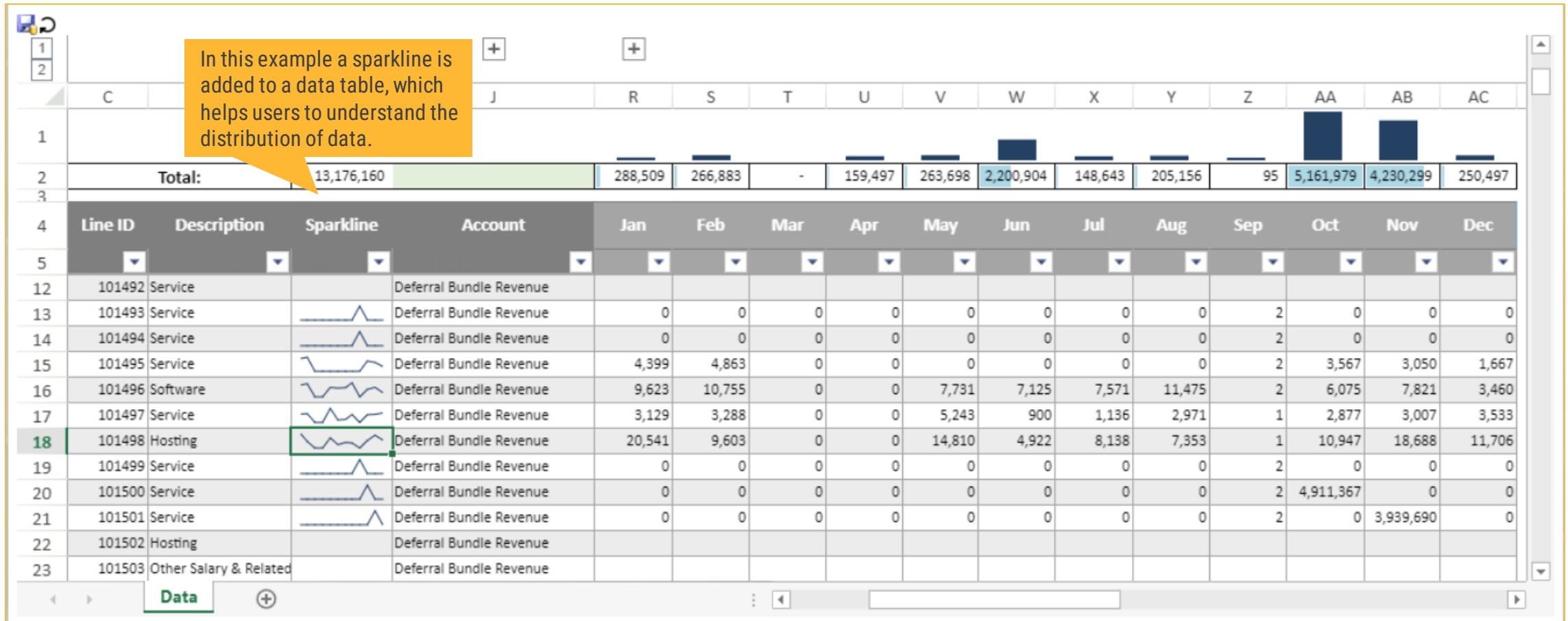
`=COLUMNSPARKLINE(U12:AF12,1,"{seriesColor:#B8D6A3,showNegative:1,negativeSeriesColor:#FF0000,displayEmptyCellsAs:0,maxAxisType:0,minAxisType:0}")`

	Aug	Sep	Oct	Nov	Dec	Total	Trend
0	19,487,171	21,435,888	23,579,477	25,937,425	28,531,167	↑ 213,842,838	
0	5,712,560	5,769,686	5,827,382	5,885,656	5,944,513	↓ 69,361,426	
0	13,774,611	15,666,203	17,752,094	20,051,768	22,586,654	↑ 144,481,411	
0	700,000	700,000	500,000	500,000	500,000	↓ 9,500,000	

COLUMNSPARKLINE(data, dataOrientation, dateAxisData, dateAxisOrientation, setting)

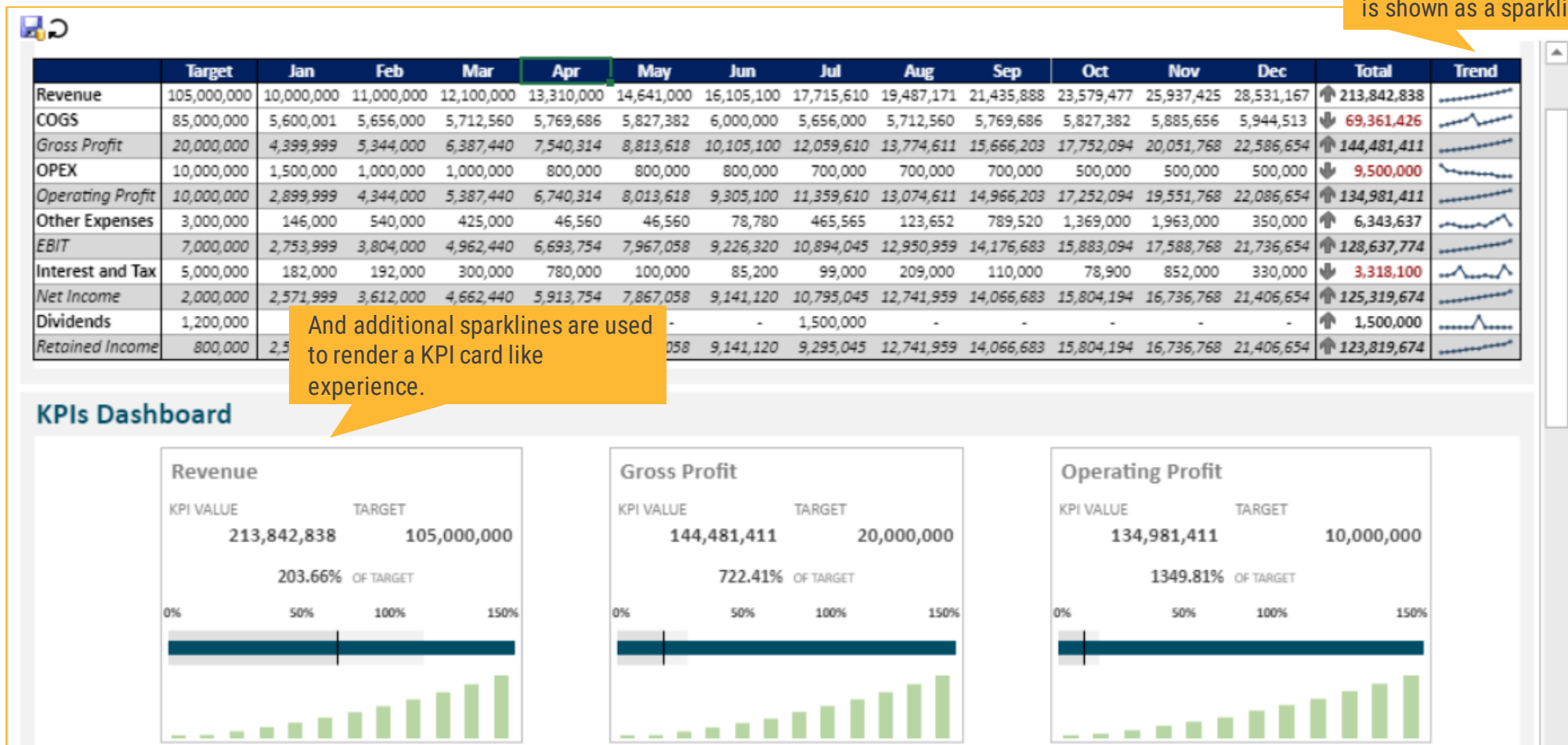
Summary
This function returns a data set used for representing a column sparkline

Sparklines

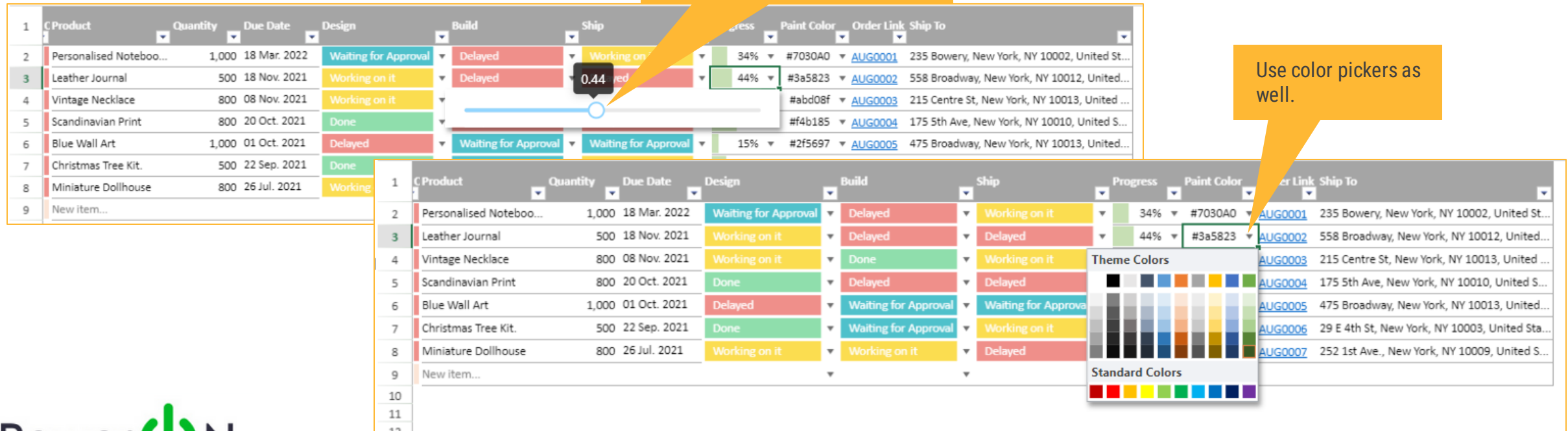
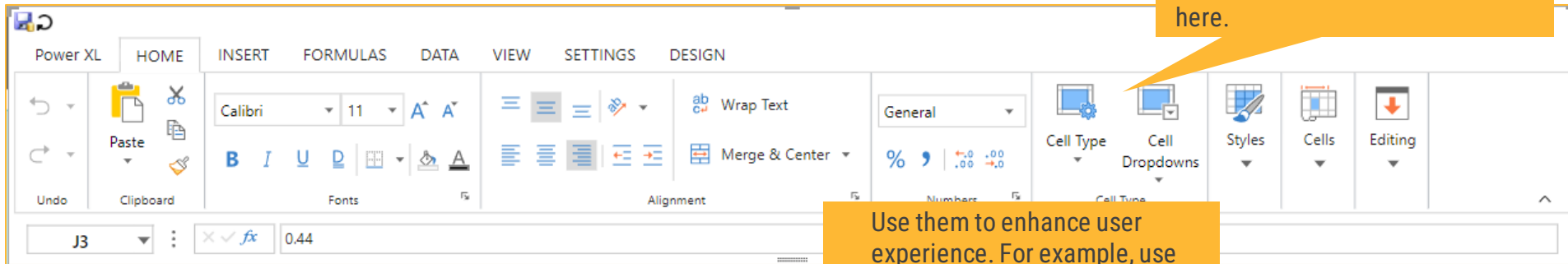


Sparklines

In this example a trend is shown as a sparkline.



Use wide variety of input controls



Alias Columns

If you wish to display a different alias for a column than the original column name in the database, you can add a new row above the header of the table.

Add the aliases in this row and set the font color and background color to the same color code of the true header of the table, so that the original column names are not visible.

Expense Type	Expense Category	Expense Details	Description	Project	Account	Notes	Financial Tag	Vendor	PO Number	Pillar / Product / Sub-Product	Multiple	Sum By
Capex	Facilities	Hardware	Hardware	STAKING JEWEL	Serving Costs			Ace Data L...	ABC			
Opex	Non-Cap	Recruiting	Recruiting	OBEISANT LAUGH	Contracted Servi...			Itsukatsu	Build Submis...			
Opex	Non-Cap & ...		Service	OBEISANT LAUGH	Contracted Servi...			Hustle Sm...	Content Pro...			
Opex	Non-Cap & ...			LAND	Returns 2			Googlion IT	Content Pro...			
Opex	Non-Cap & ...			LAND	Returns 2			Enkso Tech	Source Contr...			
Opex	Non-Cap & ...			LAND	Returns 2			Zoom Tele...	Portal			
Opex	Non-Cap & ...			LAND	Deferral Bundle ...			Institute L...	Test Case M...			
Opex	Non-Cap & ...			LAND	Deferral Bundle			Eve Social	Content Pro...			

Best way to edit Power XL visual



Select the visual and hit the **Focus mode** button in the top-right corner to enter the full screen mode.

If you have a smaller size Power XL visual in the report, you might struggle with editing it without resizing or moving.

The screenshot shows the Power ON Manufacturing Process Planning interface in full screen mode. The interface is divided into two main sections. The top section is a navigation bar with buttons for 'Save', 'Import', and 'Reset'. The bottom section is a data table with columns for Product Name, QTY, Due Date, Design, Build, Ship, Progress, Paint Color, Order link, and Ship to.

Product Name	QTY	Due Date	Design	Build	Ship	Progress	Paint Color	Order link	Ship to
Personalised Note	80	3/18/2022	Working on it	Waiting for Approval	Working on it	50%	#fed967	AUG0001	235 Bowery, New York, NY 10002, Unit
Leather Journal	400	4/19/2022	Waiting for Approval	Delayed	Working on it	79%	#fed967	AUG0002	558 Broadway, New York, NY 10012, Un
Vintage Necklace	850	10/15/2022	Done	Waiting for Approval	Done	39%	#70ad47	AUG0003	215 Centre St, New York, NY 10013, Un
Scandinavian Print	800	9/22/2021	Done	Waiting for Approval	Delayed	44%	#fed967	AUG0004	175 5th Ave, New York, NY 10010, Unit
Blue Wall Art	998	8/31/2021	Delayed	Working on it	Waiting for Approval	73%	#2f5697	AUG0005	475 Broadway, New York, NY 10013, Un
Christmas Tree Kit	70	8/1/2021	Working on it	Waiting for Approval	Working on it	82%	#c85b11	AUG0006	29 E 4th St, New York, NY 10003, Unite
Miniature Dollhou	100	5/19/2022	Done	Delayed	Delayed	55%	#7030a0	AUG0007	252 1st Ave., New York, NY 10009, Unit
Golden Hawk statu	120	8/11/2021	Working on it	Working on it		22%	#f7ccae		