



PowerTable
by Lumel

PowerTable

Configuring Columns



Microsoft Fabric

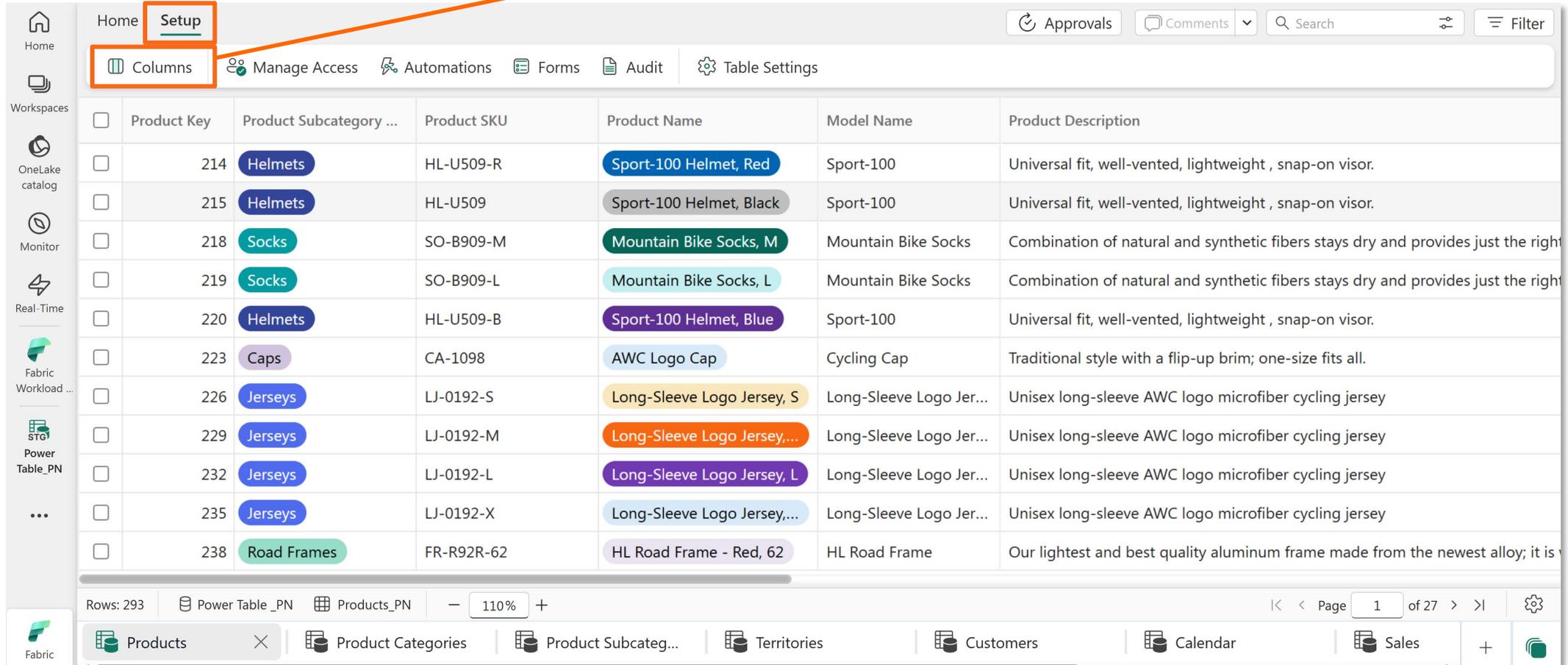
Outline

1. Configuring columns
2. Configuring Cascading filters
3. Add visual Columns
 - a) Formula Column
 - b) Multi-Select Column
 - c) Reference Column
4. Add Database Columns

Configuring Columns

Your PowerTable App

Click Setup → Columns to open Column settings



The screenshot shows the PowerTable app interface. At the top, there are navigation tabs for 'Home' and 'Setup'. The 'Setup' tab is active, and a sub-menu is open with 'Columns' selected. Below the navigation, there are icons for 'Manage Access', 'Automations', 'Forms', 'Audit', and 'Table Settings'. The main area displays a table with columns: Product Key, Product Subcategory, Product SKU, Product Name, Model Name, and Product Description. The table contains 10 rows of product data. At the bottom, there is a status bar showing 'Rows: 293', 'Power Table_PN', 'Products_PN', a zoom level of '110%', and a page indicator 'Page 1 of 27'. The bottom-most bar shows a list of active tabs: 'Products', 'Product Categories', 'Product Subcateg...', 'Territories', 'Customers', 'Calendar', and 'Sales'.

Product Key	Product Subcategory	Product SKU	Product Name	Model Name	Product Description
214	Helmets	HL-U509-R	Sport-100 Helmet, Red	Sport-100	Universal fit, well-vented, lightweight , snap-on visor.
215	Helmets	HL-U509	Sport-100 Helmet, Black	Sport-100	Universal fit, well-vented, lightweight , snap-on visor.
218	Socks	SO-B909-M	Mountain Bike Socks, M	Mountain Bike Socks	Combination of natural and synthetic fibers stays dry and provides just the right
219	Socks	SO-B909-L	Mountain Bike Socks, L	Mountain Bike Socks	Combination of natural and synthetic fibers stays dry and provides just the right
220	Helmets	HL-U509-B	Sport-100 Helmet, Blue	Sport-100	Universal fit, well-vented, lightweight , snap-on visor.
223	Caps	CA-1098	AWC Logo Cap	Cycling Cap	Traditional style with a flip-up brim; one-size fits all.
226	Jerseys	LJ-0192-S	Long-Sleeve Logo Jersey, S	Long-Sleeve Logo Jer...	Unisex long-sleeve AWC logo microfiber cycling jersey
229	Jerseys	LJ-0192-M	Long-Sleeve Logo Jersey,...	Long-Sleeve Logo Jer...	Unisex long-sleeve AWC logo microfiber cycling jersey
232	Jerseys	LJ-0192-L	Long-Sleeve Logo Jersey, L	Long-Sleeve Logo Jer...	Unisex long-sleeve AWC logo microfiber cycling jersey
235	Jerseys	LJ-0192-X	Long-Sleeve Logo Jersey,...	Long-Sleeve Logo Jer...	Unisex long-sleeve AWC logo microfiber cycling jersey
238	Road Frames	FR-R92R-62	HL Road Frame - Red, 62	HL Road Frame	Our lightest and best quality aluminum frame made from the newest alloy; it is v

Configuring Columns: Home Screen

← Back to Setup

Columns

Add Visual Column ▾

Add Database Column

	Column Name (16/16)	Type	Display	Required	Display Name	Default Value	Min	Max
	ProductKey	# Number	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Product Key			
	ProductSubcategoryKey	☑ Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Subcategory			
	ProductSKU	T Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product SKU			
	ProductName	☑ Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Name			
	ModelName	T Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
	ProductDescription	T Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Description			
	ProductColor	☑ Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Color			
	ProductSize	☑ Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Size			
	ProductStyle	☑ Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Style			
	ProductCost	•00 Decimal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Cost			

Products ×

Product Categories

Product Subcateg...

Territories

Customers

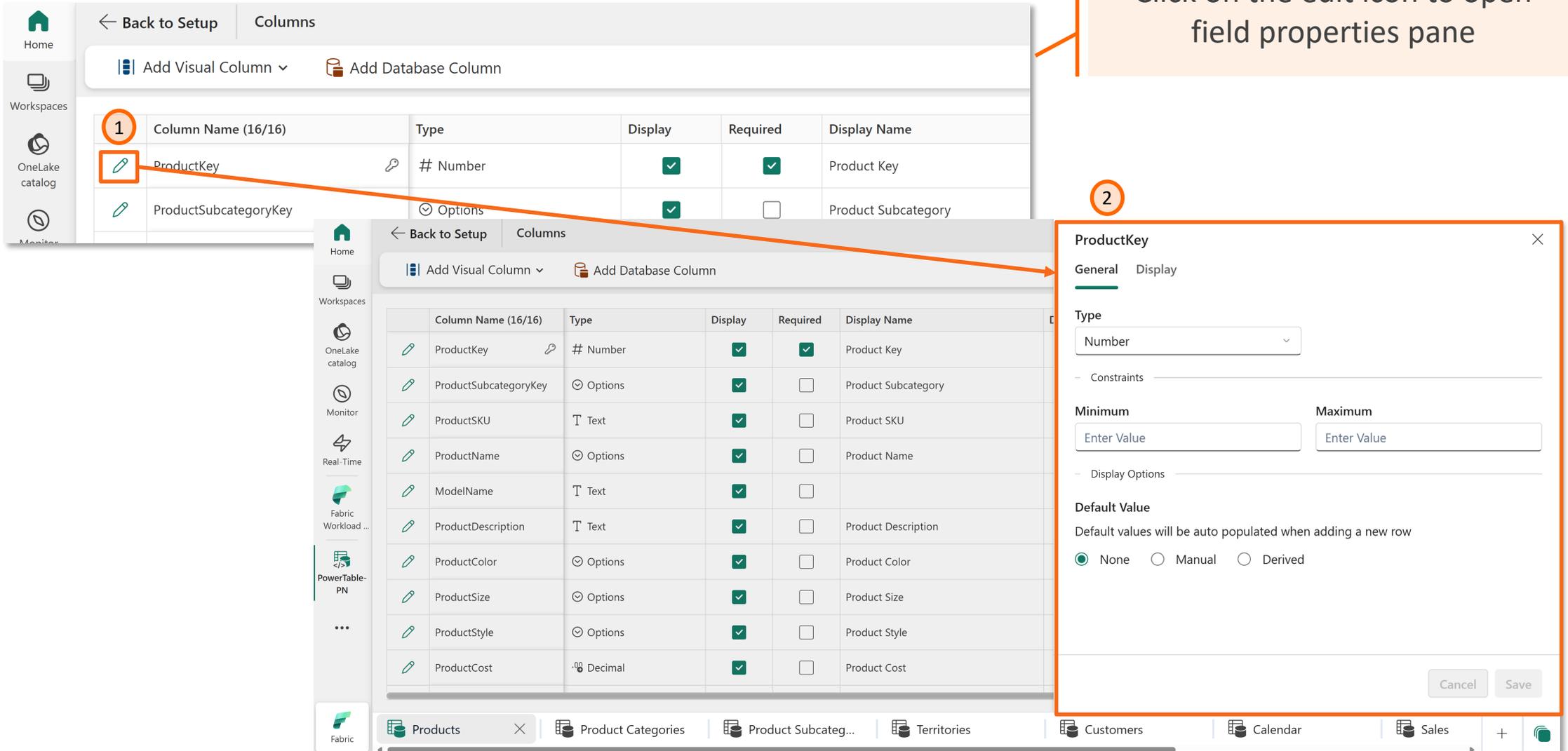
Calendar

Sales

+

Configuring Columns

Click on the edit icon to open field properties pane



The screenshot shows the PowerTable interface with a table of columns. The 'ProductKey' column is selected, and its properties pane is open. The table has the following columns:

Column Name (16/16)	Type	Display	Required	Display Name
ProductKey	# Number	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Product Key
ProductSubcategoryKey	Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Subcategory
ProductSKU	T Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product SKU
ProductName	Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Name
ModelName	T Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
ProductDescription	T Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Description
ProductColor	Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Color
ProductSize	Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Size
ProductStyle	Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Style
ProductCost	Decimal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Cost

The 'ProductKey' properties pane is open, showing the following configuration:

- General** tab is selected.
- Type**: Number
- Constraints**: (empty)
- Minimum**: Enter Value
- Maximum**: Enter Value
- Display Options**: (empty)
- Default Value**: None (selected), Manual, Derived

Let's take a closer look at some of the field types

Field Type: Single Select (Manually set up values)

ProductKey

General Display

Type: Single Select

Values Type: Manual

Lookup Table

Option	Label
1	Pending
2	In Progress
3	Completed

Display Options

Default Value

Default values will be auto populated when adding a new row

None Manual

Cancel Save

- Manual
- Distinct Values
- Lookup

Configure dropdown values manually

Field Type: Single Select (Automatically choose distinct Values)

ProductKey ×

General **Display**

Type
Single Select

Values Type
Distinct Values

Lookup Table

i Restrict to distinct values already present in the table

Display Options

Default Value
Default values will be auto populated when adding a new row

None Manual

Cancel Save

Manual

✓ Distinct Values

Lookup

Populate dropdown with unique values already present in the column

Field Type: Single Select (Lookup values from another table)

ProductSubcategoryKey

General Display

Type: Single Select

Values Type: **Lookup** 1

Lookup Table

Schema*: dbo

Lookup Table*: **Subcategories_PN** 3

Lookup Table Key: ProductSubcategoryKey

Lookup Table Value*: SubcategoryName

Filter based on another column

Display Options

Default Value

Default values will be auto populated when adding a new row

None Manual

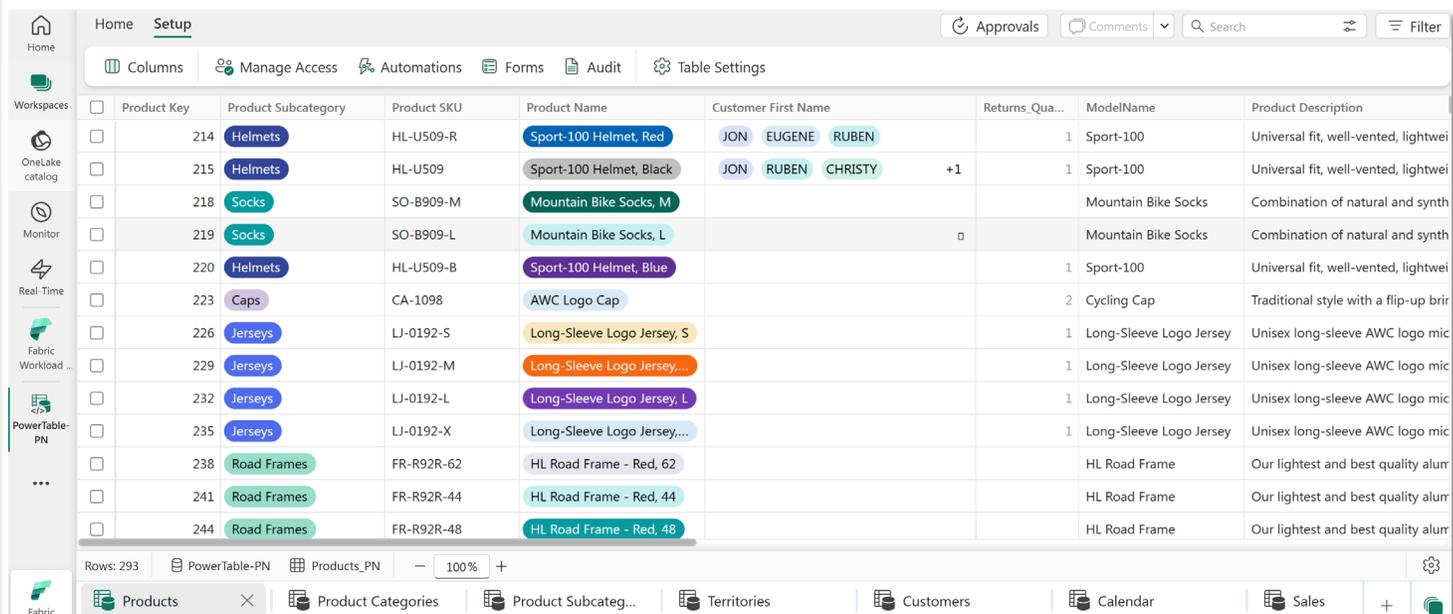
Cancel Save

Manual

Distinct Values

✓ **Lookup** 2

Look up another table and replace ID field with meaningful text



Product Key	Product Subcategory	Product SKU	Product Name	Customer First Name	Returns	ModelName	Product Description
214	Helmets	HL-U509-R	Sport-100 Helmet, Red	JON EUGENE RUBEN	1	Sport-100	Universal fit, well-vented, lightwei
215	Helmets	HL-U509	Sport-100 Helmet, Black	JON RUBEN CHRISTY	+1	1 Sport-100	Universal fit, well-vented, lightwei
218	Socks	SO-B909-M	Mountain Bike Socks, M			Mountain Bike Socks	Combination of natural and synth
219	Socks	SO-B909-L	Mountain Bike Socks, L			Mountain Bike Socks	Combination of natural and synth
220	Helmets	HL-U509-B	Sport-100 Helmet, Blue		1	Sport-100	Universal fit, well-vented, lightwei
223	Caps	CA-1098	AWC Logo Cap		2	Cycling Cap	Traditional style with a flip-up brim
226	Jerseys	LJ-0192-S	Long-Sleeve Logo Jersey, S		1	Long-Sleeve Logo Jersey	Unisex long-sleeve AWC logo mic
229	Jerseys	LJ-0192-M	Long-Sleeve Logo Jersey, M		1	Long-Sleeve Logo Jersey	Unisex long-sleeve AWC logo mic
232	Jerseys	LJ-0192-L	Long-Sleeve Logo Jersey, L		1	Long-Sleeve Logo Jersey	Unisex long-sleeve AWC logo mic
235	Jerseys	LJ-0192-X	Long-Sleeve Logo Jersey, X		1	Long-Sleeve Logo Jersey	Unisex long-sleeve AWC logo mic
238	Road Frames	FR-R92R-62	HL Road Frame - Red, 62			HL Road Frame	Our lightest and best quality alumi
241	Road Frames	FR-R92R-44	HL Road Frame - Red, 44			HL Road Frame	Our lightest and best quality alumi
244	Road Frames	FR-R92R-48	HL Road Frame - Red, 48			HL Road Frame	Our lightest and best quality alumi

Columns: Display Settings

Text field

ProductKey ✕

General **Display**

Description

Visible on hover of the column header

Display Name

Product Key

Change column display name here

Numeric/decimal field

ProductKey ✕

General **Display**

Description

Identify the product

Display Name **Thousand Separator**

ProductID Enter value

Prefix **Suffix**

Enter Value Enter Value

Date/Date Time field

ProductKey ✕

General **Display**

Format

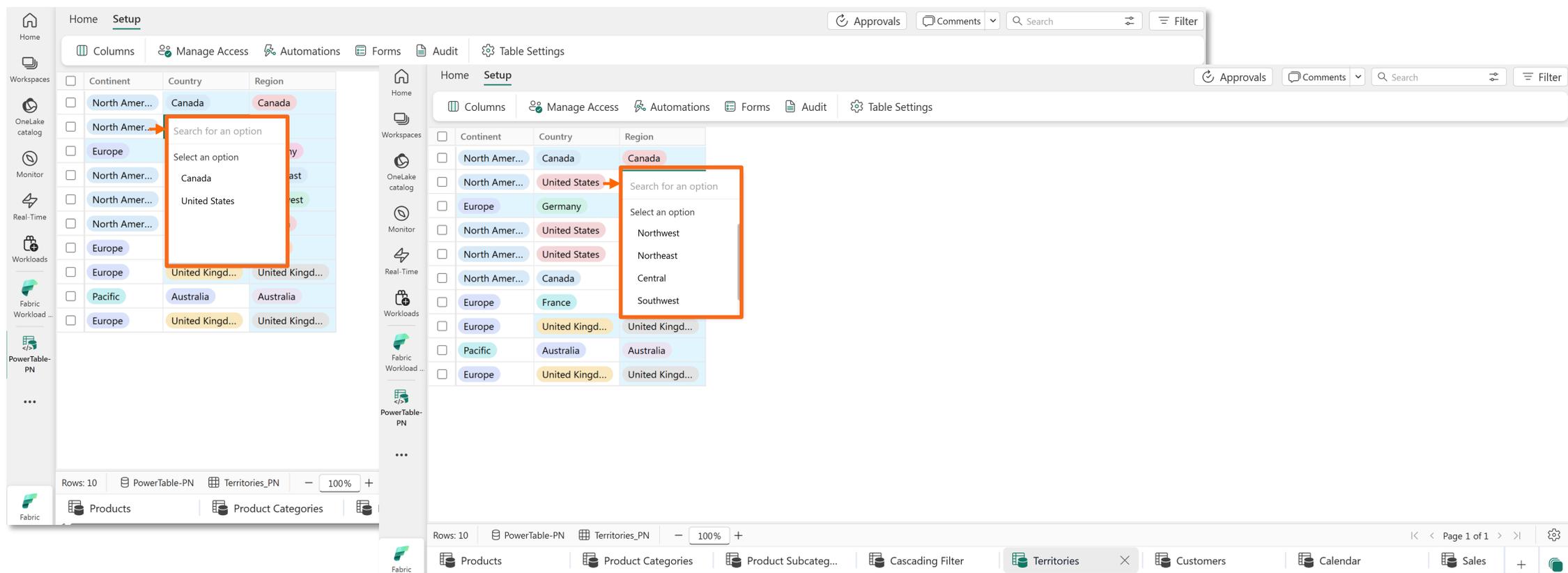
Default Locale ▼

- ✓ Default Locale
- Jan 31, 2022 01:00
- 01 Jan, 2022 01:00
- 01 January, 2022 01:00
- 31/01/2022 01:00

Configuring Cascading Filters

Cascading Filters – An Example

→ Values in one dropdown (e.g., Country) are determined by value selected in another dropdown (e.g., Continent)



The image displays two screenshots of the PowerTable interface, illustrating cascading filters. The left screenshot shows a table with columns for Continent, Country, and Region. The 'Continent' dropdown is set to 'North America', and the 'Country' dropdown is open, showing a search box and options for 'Canada' and 'United States'. The right screenshot shows the 'Country' dropdown set to 'United States', and the 'Region' dropdown is open, showing a search box and options for 'Northwest', 'Northeast', 'Central', and 'Southwest'. The interface includes a top navigation bar with 'Home', 'Setup', 'Approvals', 'Comments', 'Search', and 'Filter' buttons. A sidebar on the left contains various workspace and workload icons. The bottom of the interface shows a status bar with 'Rows: 10', 'PowerTable-PN', 'Territories_PN', and a zoom level of '100%'. The bottom right corner of the interface shows a taskbar with several open tabs: 'Products', 'Product Categories', 'Product Subcateg...', 'Cascading Filter', 'Territories', 'Customers', 'Calendar', and 'Sales'.

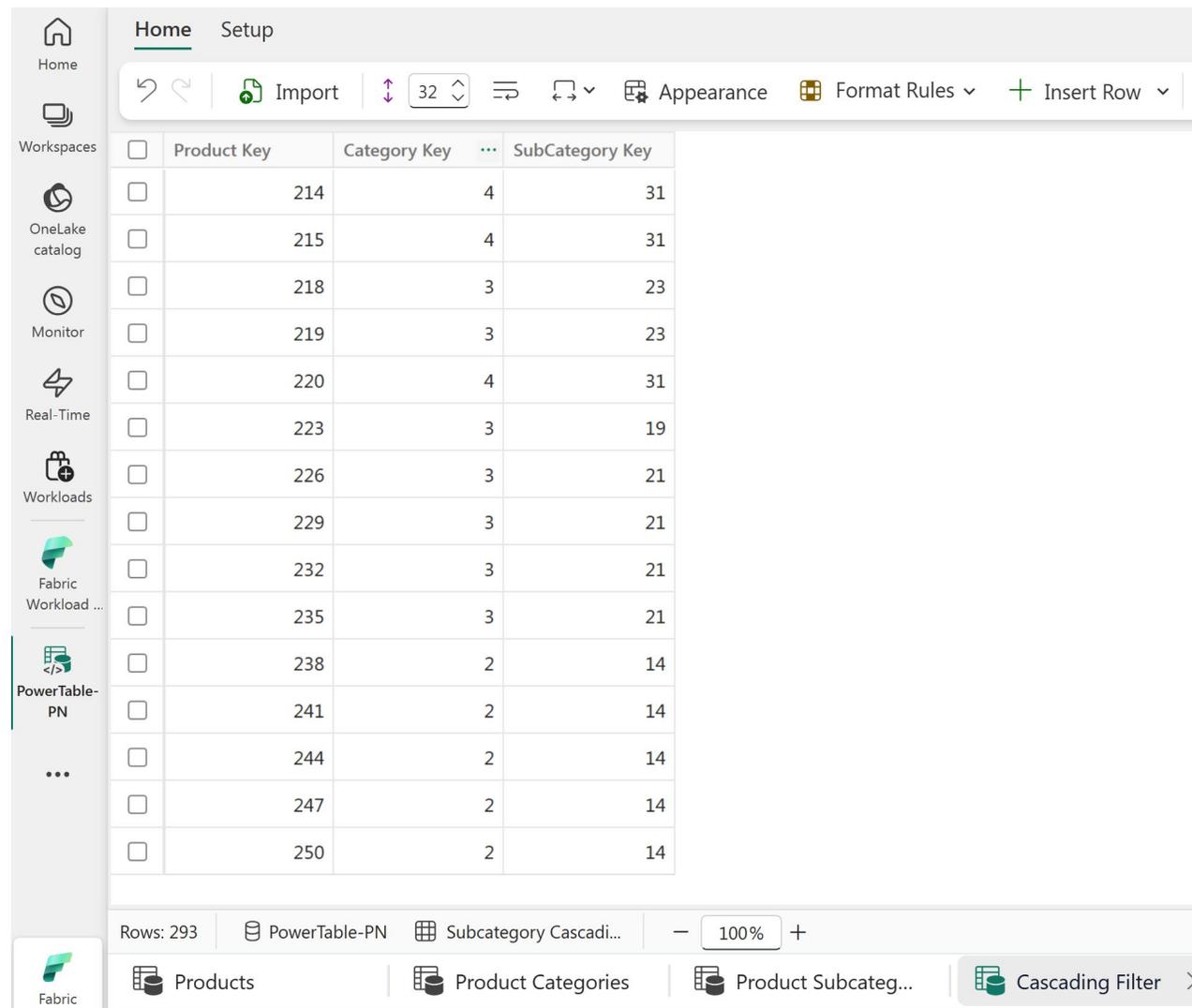
Setting up cascading filter: Step #1

→ You have three ID fields in a table

→ Product Key (Primary Key)

→ Category Key (Foreign Key) and

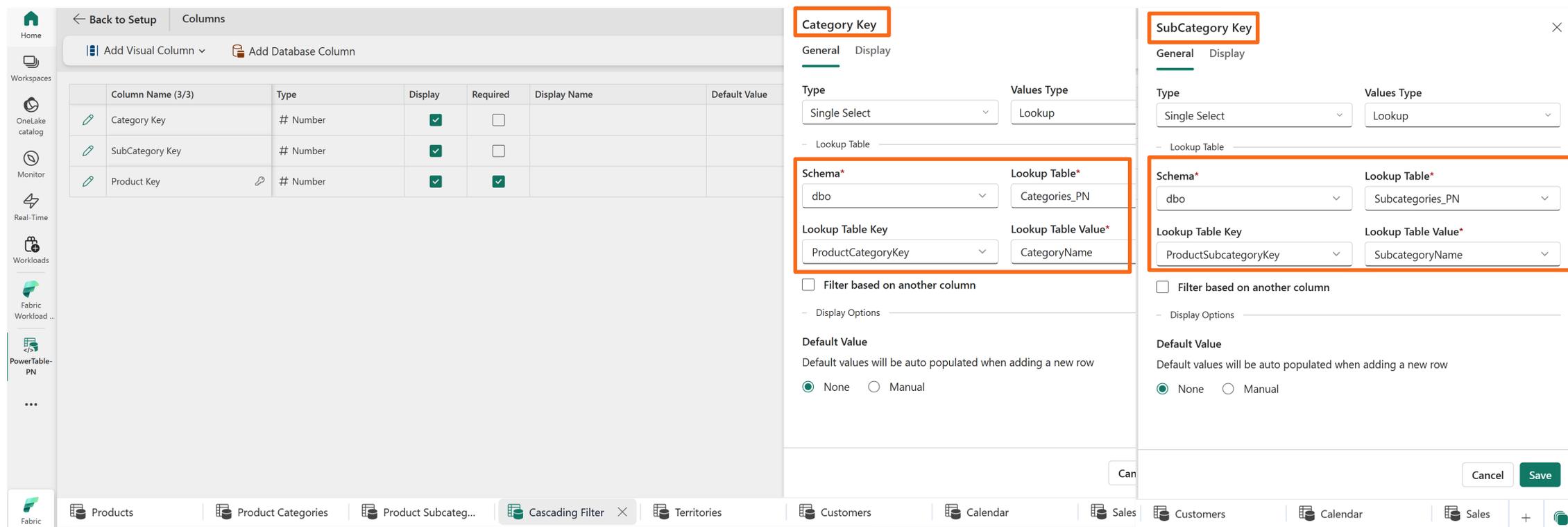
→ Subcategory Key (Foreign Key)



	Product Key	Category Key	...	SubCategory Key
<input type="checkbox"/>	214	4		31
<input type="checkbox"/>	215	4		31
<input type="checkbox"/>	218	3		23
<input type="checkbox"/>	219	3		23
<input type="checkbox"/>	220	4		31
<input type="checkbox"/>	223	3		19
<input type="checkbox"/>	226	3		21
<input type="checkbox"/>	229	3		21
<input type="checkbox"/>	232	3		21
<input type="checkbox"/>	235	3		21
<input type="checkbox"/>	238	2		14
<input type="checkbox"/>	241	2		14
<input type="checkbox"/>	244	2		14
<input type="checkbox"/>	247	2		14
<input type="checkbox"/>	250	2		14

Setting up cascading filter: Step #2

---> Look up text values for these id fields. It will show up in a dropdown in the table.



The screenshot shows the PowerTable interface with a 'Columns' table and two configuration panels for 'Category Key' and 'SubCategory Key'.

Column Name (3/3)	Type	Display	Required	Display Name	Default Value
Category Key	# Number	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
SubCategory Key	# Number	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Product Key	# Number	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

Category Key

General | Display

Type: Single Select | Values Type: Lookup

Lookup Table: _____

Schema*: dbo | Lookup Table*: Categories_PN

Lookup Table Key: ProductCategoryKey | Lookup Table Value*: CategoryName

Filter based on another column

Display Options: _____

Default Value: None | Manual

SubCategory Key

General | Display

Type: Single Select | Values Type: Lookup

Lookup Table: _____

Schema*: dbo | Lookup Table*: Subcategories_PN

Lookup Table Key: ProductSubcategoryKey | Lookup Table Value*: SubcategoryName

Filter based on another column

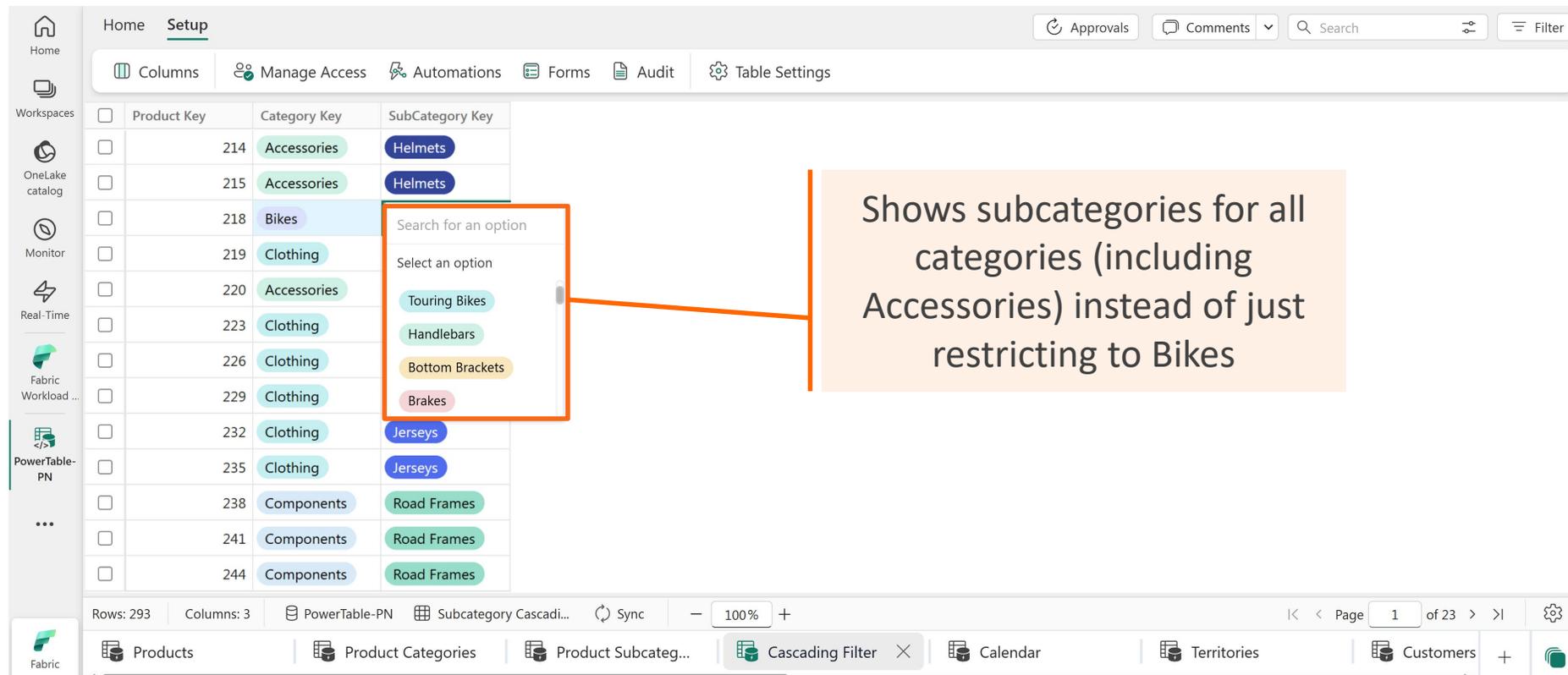
Display Options: _____

Default Value: None | Manual

Buttons: Cancel, Save

Setting up cascading filter: Step #2 (...cont'd)

- The category and Subcategory names are now shown in the table
- Note that these dropdowns are not cascading yet – meaning the App allows you to choose ANY subcategory (and does not restrict you to subcategories for the chosen category)

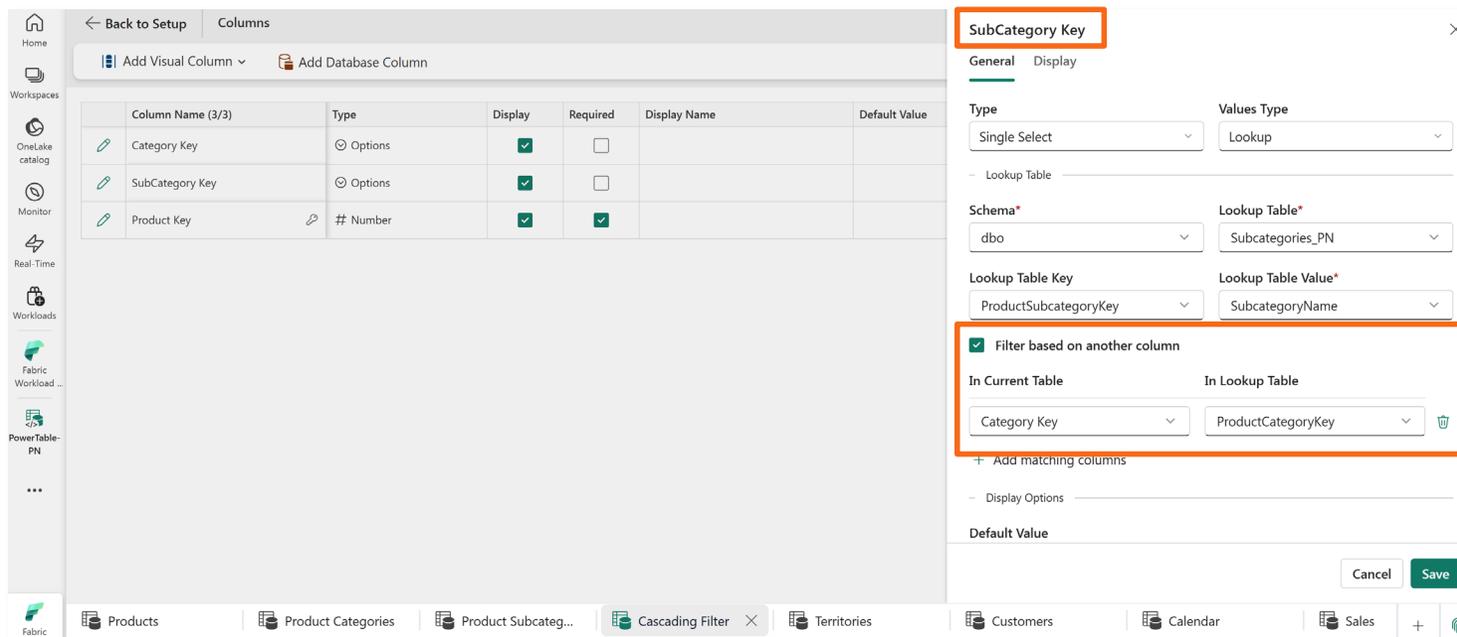


Product Key	Category Key	SubCategory Key
214	Accessories	Helmets
215	Accessories	Helmets
218	Bikes	[Dropdown Open]
219	Clothing	
220	Accessories	
223	Clothing	
226	Clothing	
229	Clothing	
232	Clothing	Jerseys
235	Clothing	Jerseys
238	Components	Road Frames
241	Components	Road Frames
244	Components	Road Frames

Shows subcategories for all categories (including Accessories) instead of just restricting to Bikes

Setting up cascading filter: Step #3

- In the SubCategory Key properties, enable 'Filter based on another column'
- The Subcategory field must be filtered based on Category. Hence choose Category Key in current table and the lookup table. This will send the Category Key from the current row to the Lookup Table and fetch only subcategories for the given category key.



The screenshot shows the PowerTable interface with a 'Columns' table and a 'SubCategory Key' properties dialog. The dialog is configured to filter based on another column.

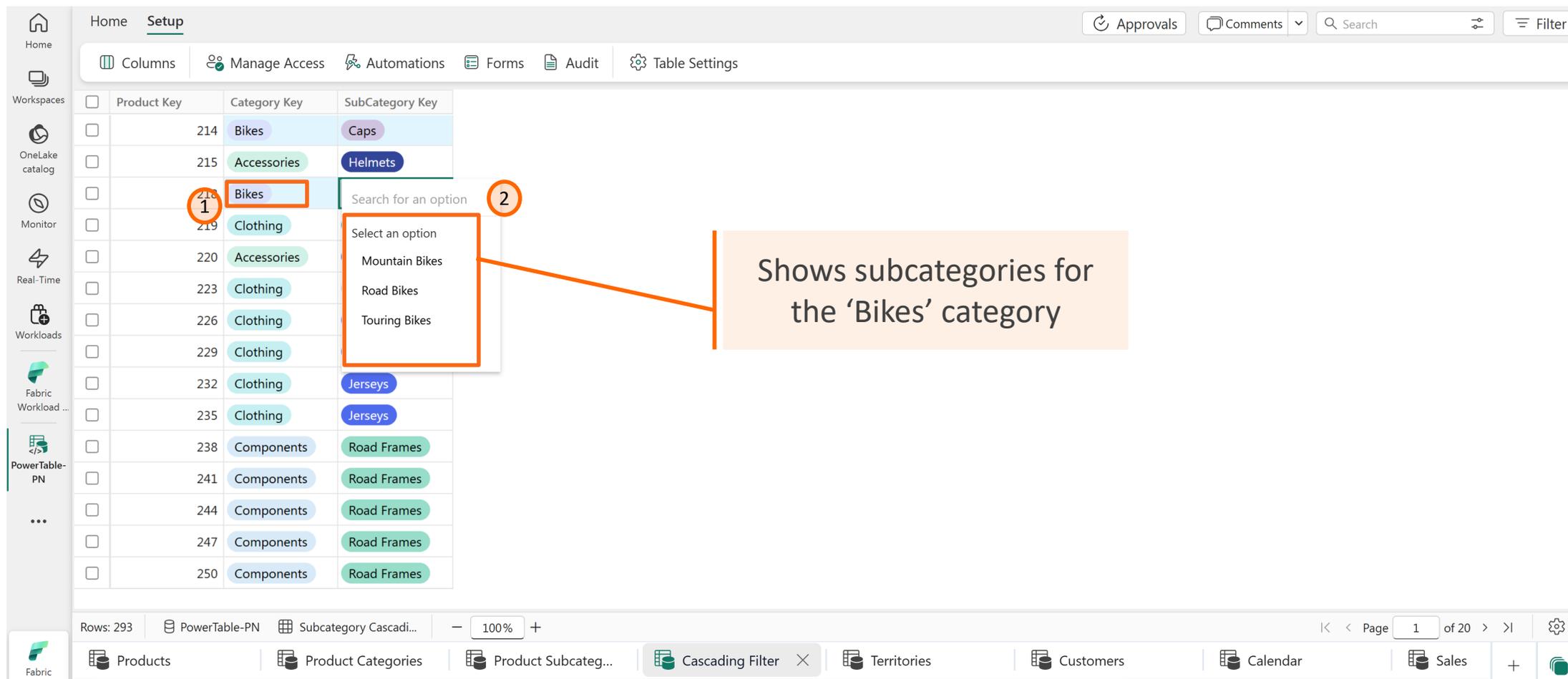
Column Name (3/3)	Type	Display	Required	Display Name	Default Value
Category Key	Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
SubCategory Key	Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Product Key	# Number	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

SubCategory Key Properties Dialog:

- General** tab selected.
- Type:** Single Select
- Values Type:** Lookup
- Schema:** dbo
- Lookup Table:** Subcategories_PN
- Lookup Table Key:** ProductSubcategoryKey
- Lookup Table Value:** SubcategoryName
- Filter based on another column**
- In Current Table:** Category Key
- In Lookup Table:** ProductCategoryKey
- Buttons:** Cancel, Save

Setting up cascading filter: Step #4

→ The cascading filter is now complete



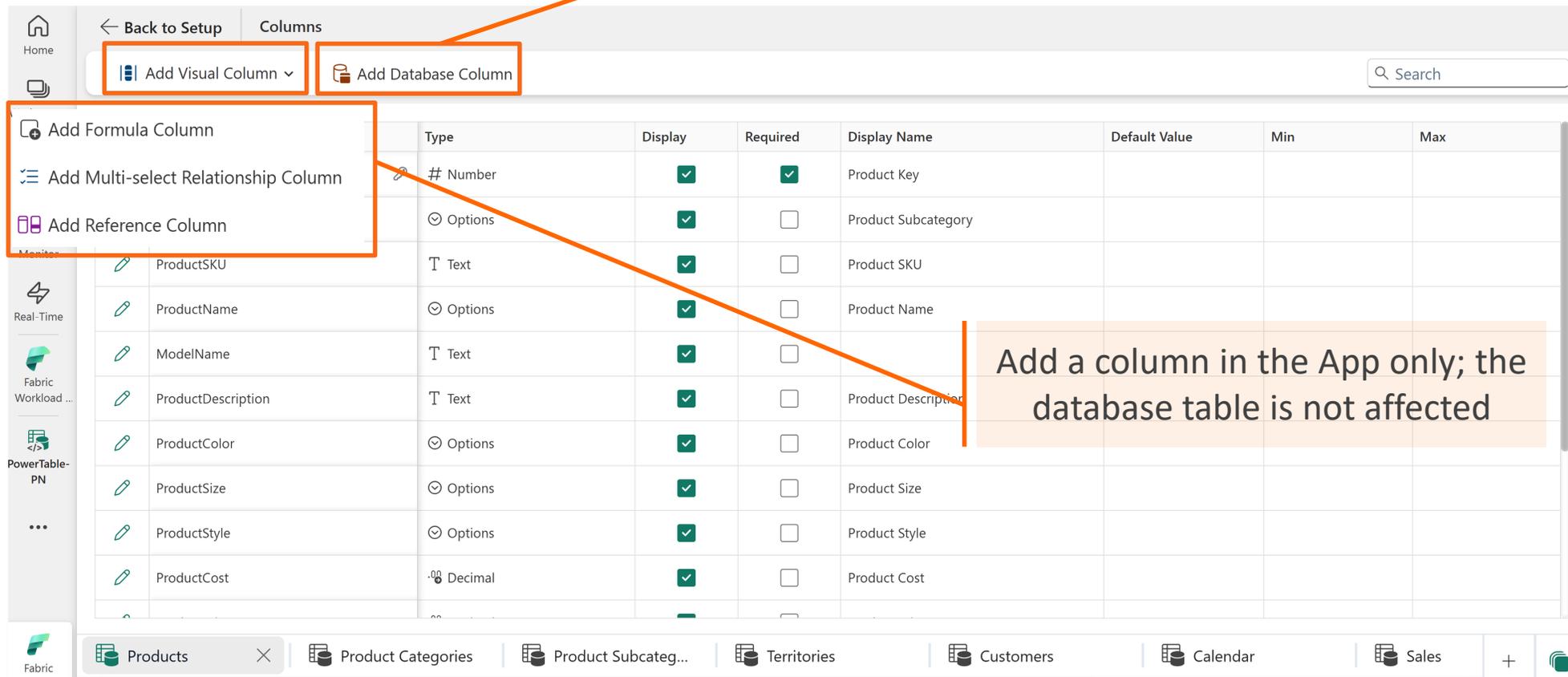
The screenshot shows the PowerTable interface with a table of products. The table has columns for Product Key, Category Key, and SubCategory Key. A dropdown menu is open for the 'Bikes' category, showing subcategories: Mountain Bikes, Road Bikes, and Touring Bikes. An orange box highlights the dropdown menu, and an arrow points to a text box that says 'Shows subcategories for the 'Bikes' category'.

Product Key	Category Key	SubCategory Key
214	Bikes	Caps
215	Accessories	Helmets
216	Bikes	
219	Clothing	
220	Accessories	
223	Clothing	
226	Clothing	
229	Clothing	
232	Clothing	Jerseys
235	Clothing	Jerseys
238	Components	Road Frames
241	Components	Road Frames
244	Components	Road Frames
247	Components	Road Frames
250	Components	Road Frames

Add Columns

You can add four (4) types of columns

Add a column in the database table directly from the App



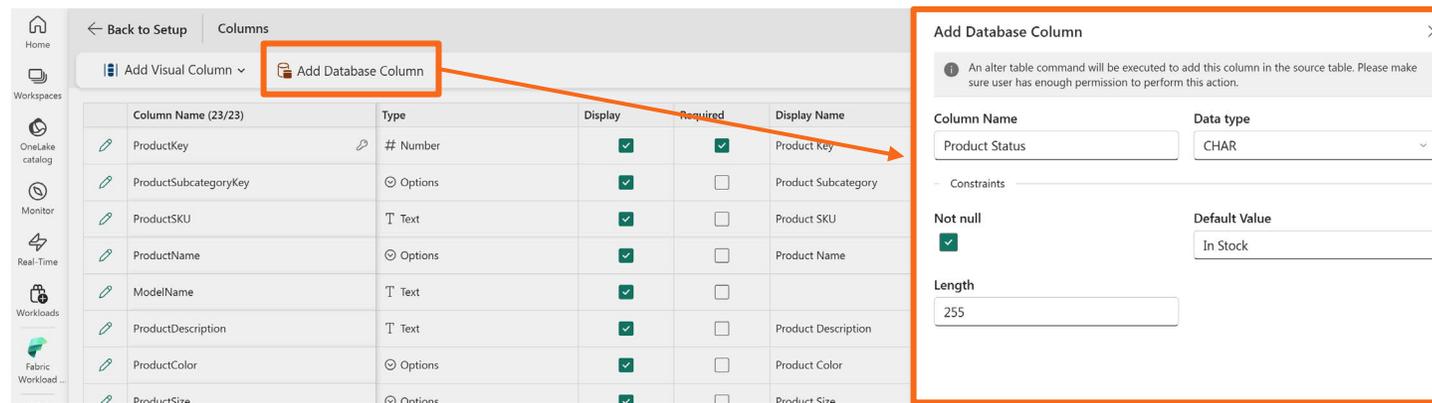
Type	Display	Required	Display Name	Default Value	Min	Max
# Number	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Product Key			
Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Subcategory			
T Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product SKU			
Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Name			
T Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Description			
Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Color			
Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Size			
Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Style			
Decimal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Cost			

We will take a look at each of these in the upcoming sections

Add a Database Column

4. Add a Database Column

You can add a column in the database table directly from your app



Add Database Column

An alter table command will be executed to add this column in the source table. Please make sure user has enough permission to perform this action.

Column Name: Data type:

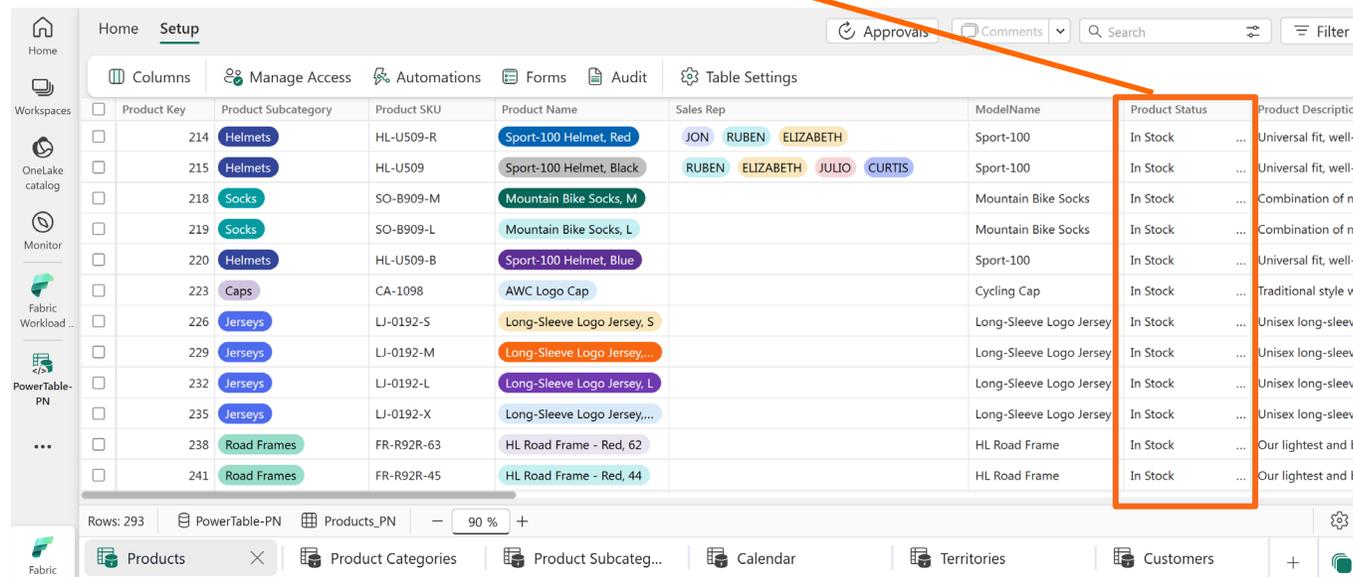
Not null: Default Value:

Length:

Column Name (23/23)	Type	Display	Required	Display Name
<input type="text" value="ProductKey"/>	# Number	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Product Key
<input type="text" value="ProductSubcategoryKey"/>	Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Subcategory
<input type="text" value="ProductSKU"/>	T Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product SKU
<input type="text" value="ProductName"/>	Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Name
<input type="text" value="ModelName"/>	T Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="text" value="ProductDescription"/>	T Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Description
<input type="text" value="ProductColor"/>	Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Color
<input type="text" value="ProductSize"/>	Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Size

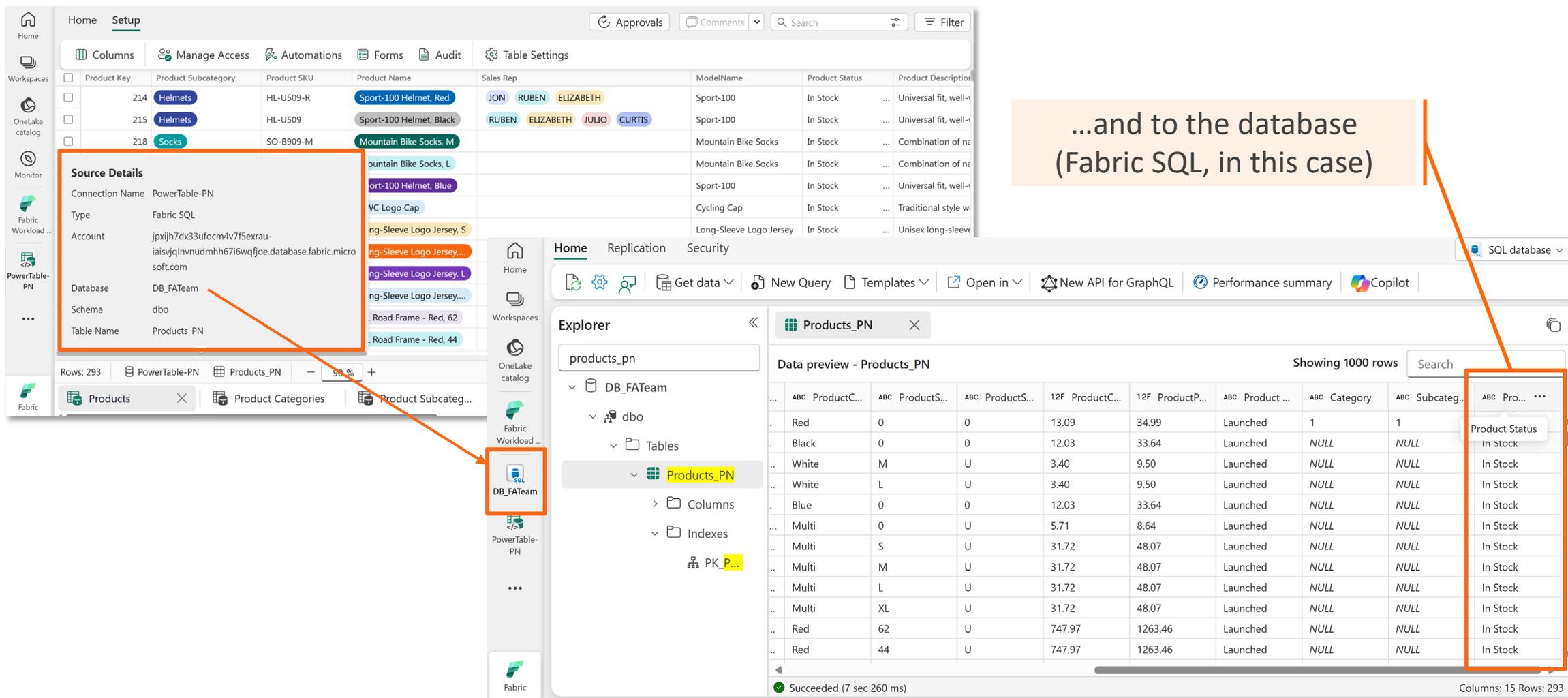
Specify the column name and properties

This column gets added to the table...



Product Key	Product Subcategory	Product SKU	Product Name	Sales Rep	ModelName	Product Status	Product Description
214	Helmet	HL-U509-R	Sport-100 Helmet, Red	JON RUBEN ELIZABETH	Sport-100	In Stock	Universal fit, well-
215	Helmet	HL-U509	Sport-100 Helmet, Black	RUBEN ELIZABETH JULIO CURTIS	Sport-100	In Stock	Universal fit, well-
218	Socks	SO-B909-M	Mountain Bike Socks, M		Mountain Bike Socks	In Stock	Combination of ne
219	Socks	SO-B909-L	Mountain Bike Socks, L		Mountain Bike Socks	In Stock	Combination of ne
220	Helmet	HL-U509-B	Sport-100 Helmet, Blue		Sport-100	In Stock	Universal fit, well-
223	Caps	CA-1098	AWC Logo Cap		Cycling Cap	In Stock	Traditional style wi
226	Jerseys	LJ-0192-S	Long-Sleeve Logo Jersey, S		Long-Sleeve Logo Jersey	In Stock	Unisex long-sleeve
229	Jerseys	LJ-0192-M	Long-Sleeve Logo Jersey,...		Long-Sleeve Logo Jersey	In Stock	Unisex long-sleeve
232	Jerseys	LJ-0192-L	Long-Sleeve Logo Jersey, L		Long-Sleeve Logo Jersey	In Stock	Unisex long-sleeve
235	Jerseys	LJ-0192-X	Long-Sleeve Logo Jersey,...		Long-Sleeve Logo Jersey	In Stock	Unisex long-sleeve
238	Road Frames	FR-R92R-63	HL Road Frame - Red, 62		HL Road Frame	In Stock	Our lightest and b
241	Road Frames	FR-R92R-45	HL Road Frame - Red, 44		HL Road Frame	In Stock	Our lightest and b

4. Add a Database Column (...cont'd)



The screenshot shows the PowerTable interface. On the left, the 'Source Details' panel is highlighted with an orange box, showing the connection name 'PowerTable-PN', type 'Fabric SQL', account 'jpjxjh7dx33ufocm4v7f5exrau-iaisyqlnvnudmhh6716wqfjoe.database.fabric.microsoft.com', database 'DB_FATeam', schema 'dbo', and table name 'Products_PN'. An orange arrow points from this box to the 'DB_FATeam' icon in the bottom left sidebar.

On the right, the 'SQL database' view is shown. The 'Explorer' pane displays the 'Products_PN' table. The 'Data preview - Products_PN' table is shown with 1000 rows. The 'Product Status' column is highlighted with an orange box, and an orange arrow points from a text box above to this column.

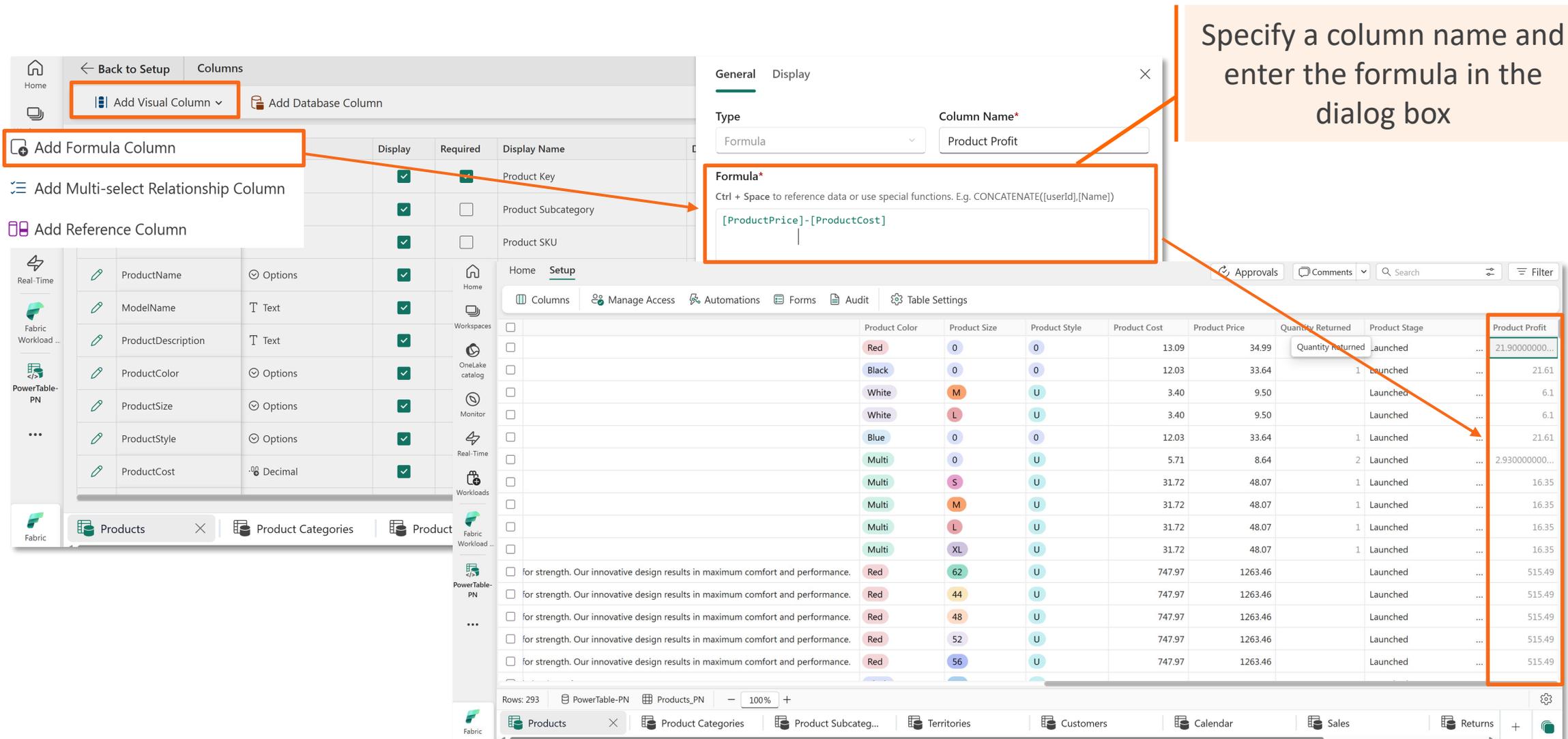
Text box: ...and to the database (Fabric SQL, in this case)

ABC ProductC...	ABC ProductS...	ABC ProductS...	12F ProductC...	12F ProductP...	ABC Product ...	ABC Category	ABC Subcateg...	ABC Pro...	...
Red	0	0	13.09	34.99	Launched	1	1	Product Status	In Stock
Black	0	0	12.03	33.64	Launched	NULL	NULL		In Stock
White	M	U	3.40	9.50	Launched	NULL	NULL		In Stock
White	L	U	3.40	9.50	Launched	NULL	NULL		In Stock
Blue	0	0	12.03	33.64	Launched	NULL	NULL		In Stock
Multi	0	U	5.71	8.64	Launched	NULL	NULL		In Stock
Multi	S	U	31.72	48.07	Launched	NULL	NULL		In Stock
Multi	M	U	31.72	48.07	Launched	NULL	NULL		In Stock
Multi	L	U	31.72	48.07	Launched	NULL	NULL		In Stock
Multi	XL	U	31.72	48.07	Launched	NULL	NULL		In Stock
Red	62	U	747.97	1263.46	Launched	NULL	NULL		In Stock
Red	44	U	747.97	1263.46	Launched	NULL	NULL		In Stock

Exercise care while adding columns. Once created, you cannot modify or delete them from the app.

Add Visual Columns

1. Add a Formula Column



The screenshot shows the PowerTable interface with a 'Columns' dialog box open. The 'Add Formula Column' option is selected. The dialog box has the following fields:

- Type:** Formula
- Column Name*:** Product Profit
- Formula*:** [ProductPrice]-[ProductCost]

An orange callout box points to the 'Column Name*' field with the text: "Specify a column name and enter the formula in the dialog box".

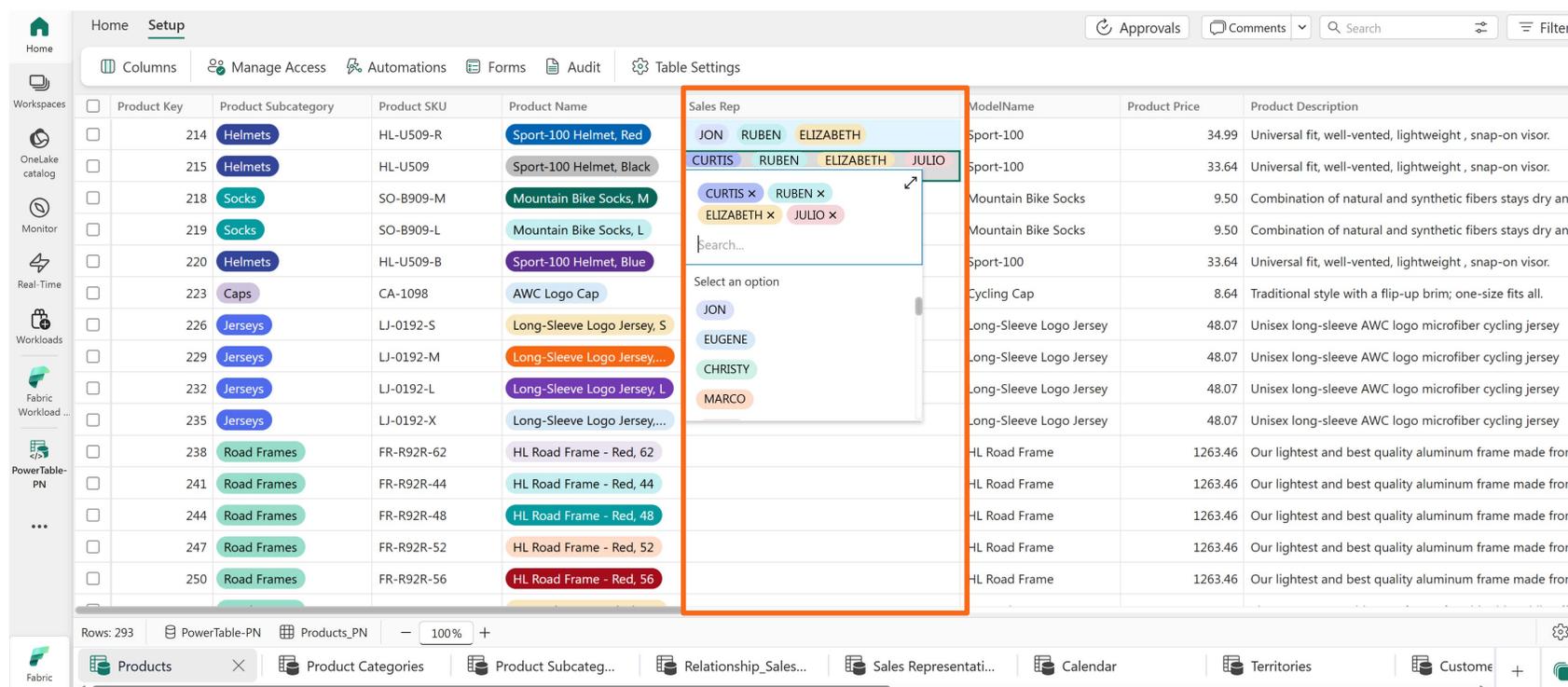
The main table below shows the 'Product Profit' column calculated for various products. The table has the following columns: Product Color, Product Size, Product Style, Product Cost, Product Price, Quantity Returned, Product Stage, and Product Profit.

Product Color	Product Size	Product Style	Product Cost	Product Price	Quantity Returned	Product Stage	Product Profit
Red	0	0	13.09	34.99	1	Launched	21.90000000...
Black	0	0	12.03	33.64	1	Launched	21.61
White	M	U	3.40	9.50	1	Launched	6.1
White	L	U	3.40	9.50	1	Launched	6.1
Blue	0	0	12.03	33.64	1	Launched	21.61
Multi	0	U	5.71	8.64	2	Launched	2.930000000...
Multi	S	U	31.72	48.07	1	Launched	16.35
Multi	M	U	31.72	48.07	1	Launched	16.35
Multi	L	U	31.72	48.07	1	Launched	16.35
Multi	XL	U	31.72	48.07	1	Launched	16.35
Red	62	U	747.97	1263.46	1	Launched	515.49
Red	44	U	747.97	1263.46	1	Launched	515.49
Red	48	U	747.97	1263.46	1	Launched	515.49
Red	52	U	747.97	1263.46	1	Launched	515.49
Red	56	U	747.97	1263.46	1	Launched	515.49

2. Add a Multi-select Relationship Column – An Example

→ Map multiple values (e.g., Sales Rep) to a specific entity (e.g., Product) within a table (Products).

→ Prerequisite: A separate relationship table with three fields (Primary ID, Product ID, Sales Rep ID) must exist in the database.

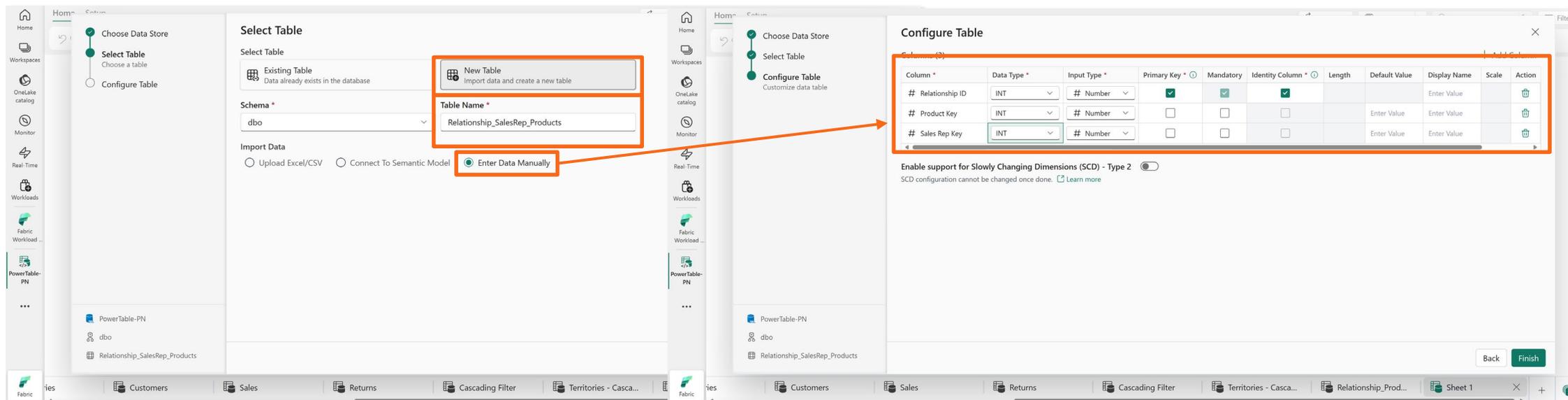


The screenshot displays the PowerTable interface for a 'Products' table. A multi-select relationship column named 'Sales Rep' is highlighted with an orange box. The dropdown menu is open, showing selected options (JON, RUBEN, ELIZABETH) and available options (CURTIS, RUBEN, ELIZABETH, JULIO). The table data is as follows:

Product Key	Product Subcategory	Product SKU	Product Name	Sales Rep	ModelName	Product Price	Product Description
214	Helmets	HL-U509-R	Sport-100 Helmet, Red	JON RUBEN ELIZABETH	Sport-100	34.99	Universal fit, well-vented, lightweight, snap-on visor.
215	Helmets	HL-U509	Sport-100 Helmet, Black	CURTIS RUBEN ELIZABETH JULIO	Sport-100	33.64	Universal fit, well-vented, lightweight, snap-on visor.
218	Socks	SO-B909-M	Mountain Bike Socks, M		Mountain Bike Socks	9.50	Combination of natural and synthetic fibers stays dry and
219	Socks	SO-B909-L	Mountain Bike Socks, L		Mountain Bike Socks	9.50	Combination of natural and synthetic fibers stays dry and
220	Helmets	HL-U509-B	Sport-100 Helmet, Blue		Sport-100	33.64	Universal fit, well-vented, lightweight, snap-on visor.
223	Caps	CA-1098	AWC Logo Cap		Cycling Cap	8.64	Traditional style with a flip-up brim; one-size fits all.
226	Jerseys	LJ-0192-S	Long-Sleeve Logo Jersey, S		Long-Sleeve Logo Jersey	48.07	Unisex long-sleeve AWC logo microfiber cycling jersey
229	Jerseys	LJ-0192-M	Long-Sleeve Logo Jersey, M		Long-Sleeve Logo Jersey	48.07	Unisex long-sleeve AWC logo microfiber cycling jersey
232	Jerseys	LJ-0192-L	Long-Sleeve Logo Jersey, L		Long-Sleeve Logo Jersey	48.07	Unisex long-sleeve AWC logo microfiber cycling jersey
235	Jerseys	LJ-0192-X	Long-Sleeve Logo Jersey, X		Long-Sleeve Logo Jersey	48.07	Unisex long-sleeve AWC logo microfiber cycling jersey
238	Road Frames	FR-R92R-62	HL Road Frame - Red, 62		HL Road Frame	1263.46	Our lightest and best quality aluminum frame made from
241	Road Frames	FR-R92R-44	HL Road Frame - Red, 44		HL Road Frame	1263.46	Our lightest and best quality aluminum frame made from
244	Road Frames	FR-R92R-48	HL Road Frame - Red, 48		HL Road Frame	1263.46	Our lightest and best quality aluminum frame made from
247	Road Frames	FR-R92R-52	HL Road Frame - Red, 52		HL Road Frame	1263.46	Our lightest and best quality aluminum frame made from
250	Road Frames	FR-R92R-56	HL Road Frame - Red, 56		HL Road Frame	1263.46	Our lightest and best quality aluminum frame made from

2. Add a Multi-select Relationship Column: Step #1

→ If you do not already have a relationship table, create one manually using PowerTable (using the 'New Table' option)



The screenshot shows the PowerTable interface with two panels: 'Select Table' and 'Configure Table'.

Select Table Panel:

- Select Table:** Existing Table (Data already exists in the database), **New Table** (Import data and create a new table), Existing Table
- Schema:** dbo
- Import Data:** Upload Excel/CSV, Connect To Semantic Model, **Enter Data Manually** (selected)

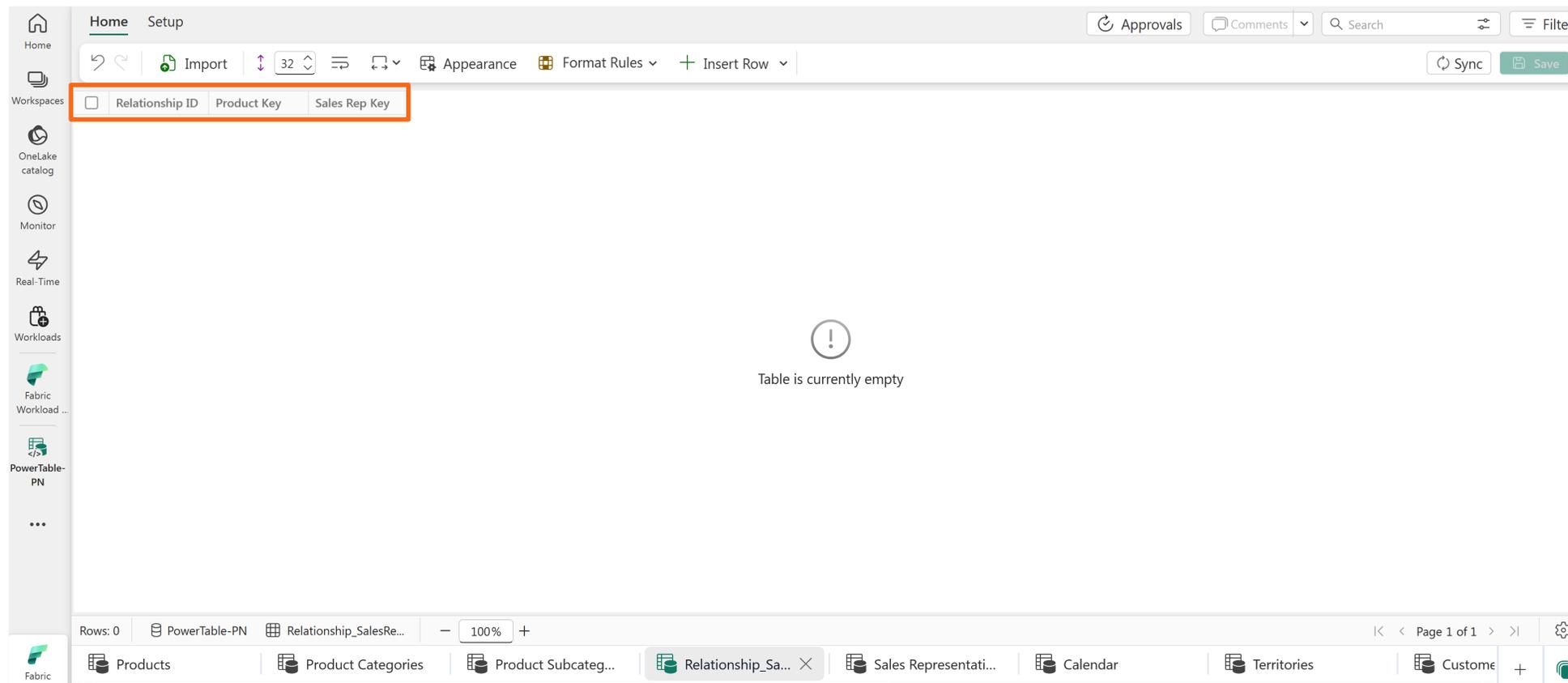
Configure Table Panel:

Column *	Data Type *	Input Type *	Primary Key *	Mandatory	Identity Column *	Length	Default Value	Display Name	Scale	Action
# Relationship ID	INT	# Number	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			Enter Value		
# Product Key	INT	# Number	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Enter Value	Enter Value		
# Sales Rep Key	INT	# Number	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Enter Value	Enter Value		

Below the table, there is a toggle for 'Enable support for Slowly Changing Dimensions (SCD) - Type 2' which is currently turned off.

2. Add a Multi-select Relationship Column: Step #1 (...cont'd)

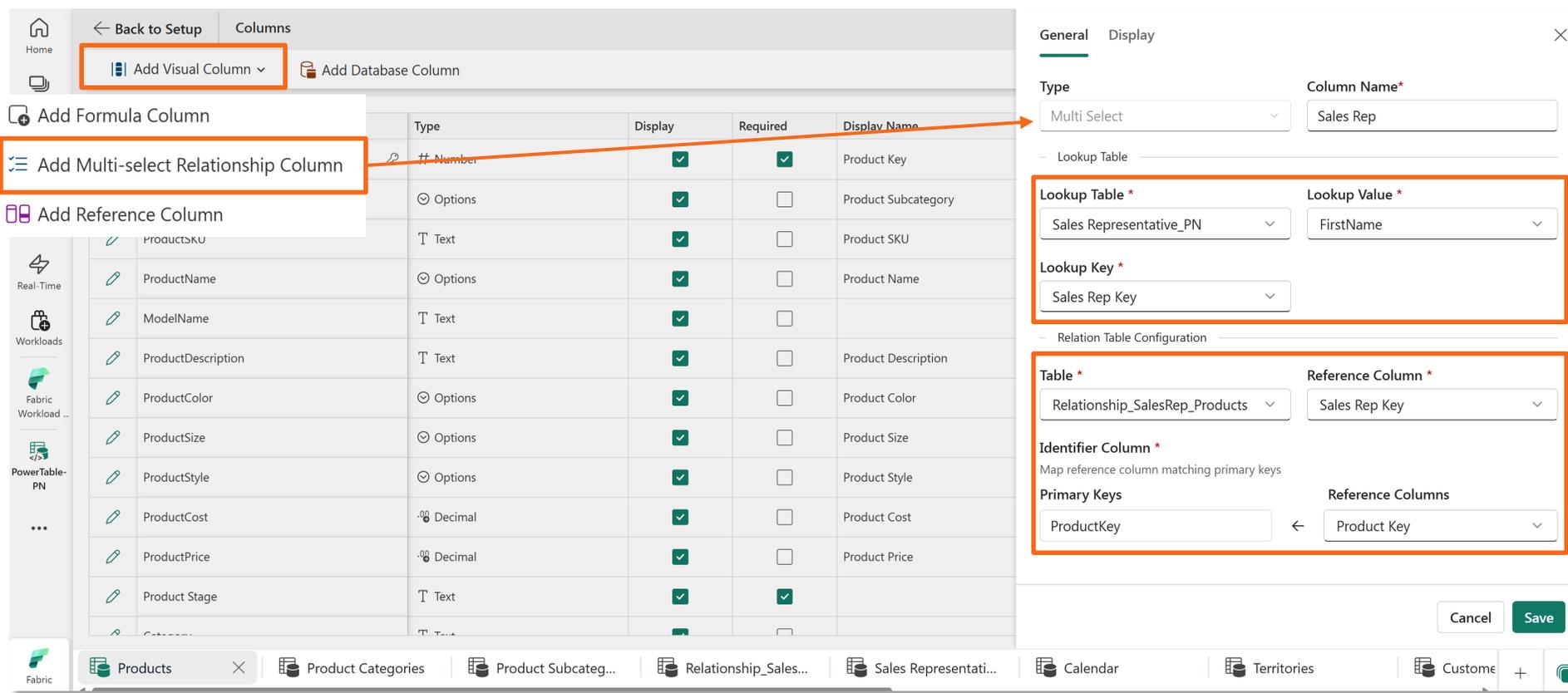
→ An empty table is created



The screenshot shows the PowerTable application interface. At the top, there is a navigation bar with 'Home' and 'Setup' tabs, and a search bar. Below this is a toolbar with various icons and buttons, including 'Import', 'Appearance', 'Format Rules', and 'Insert Row'. The main workspace area contains a table with three columns: 'Relationship ID', 'Product Key', and 'Sales Rep Key'. The table is currently empty, and a message in the center reads 'Table is currently empty'. The bottom of the interface shows a status bar with 'Rows: 0' and a taskbar with several open tabs, including 'Products', 'Product Categories', 'Product Subcateg...', 'Relationship_Sa...', 'Sales Representati...', 'Calendar', 'Territories', and 'Custom'.

2. Add a Multi-select Relationship Column: Step #2

→ Go back to your Products app. Add a multi-select column and name it 'Sales Rep'



The screenshot shows the 'Columns' configuration screen in PowerTable. On the left, a sidebar contains options: 'Add Visual Column', 'Add Formula Column', 'Add Multi-select Relationship Column' (highlighted with an orange box), and 'Add Reference Column'. The main table lists existing columns with their types, display status, and required status. An orange arrow points from the 'Add Multi-select Relationship Column' button to the configuration dialog.

The configuration dialog is titled 'General' and 'Display'. It contains the following fields:

- Type:** Multi Select
- Column Name*:** Sales Rep
- Lookup Table*:** Sales Representative_PN
- Lookup Value*:** FirstName
- Lookup Key*:** Sales Rep Key
- Table*:** Relationship_SalesRep_Products
- Reference Column*:** Sales Rep Key
- Identifier Column*:** ProductKey (with a note: 'Map reference column matching primary keys')
- Primary Keys:** ProductKey
- Reference Columns:** Product Key

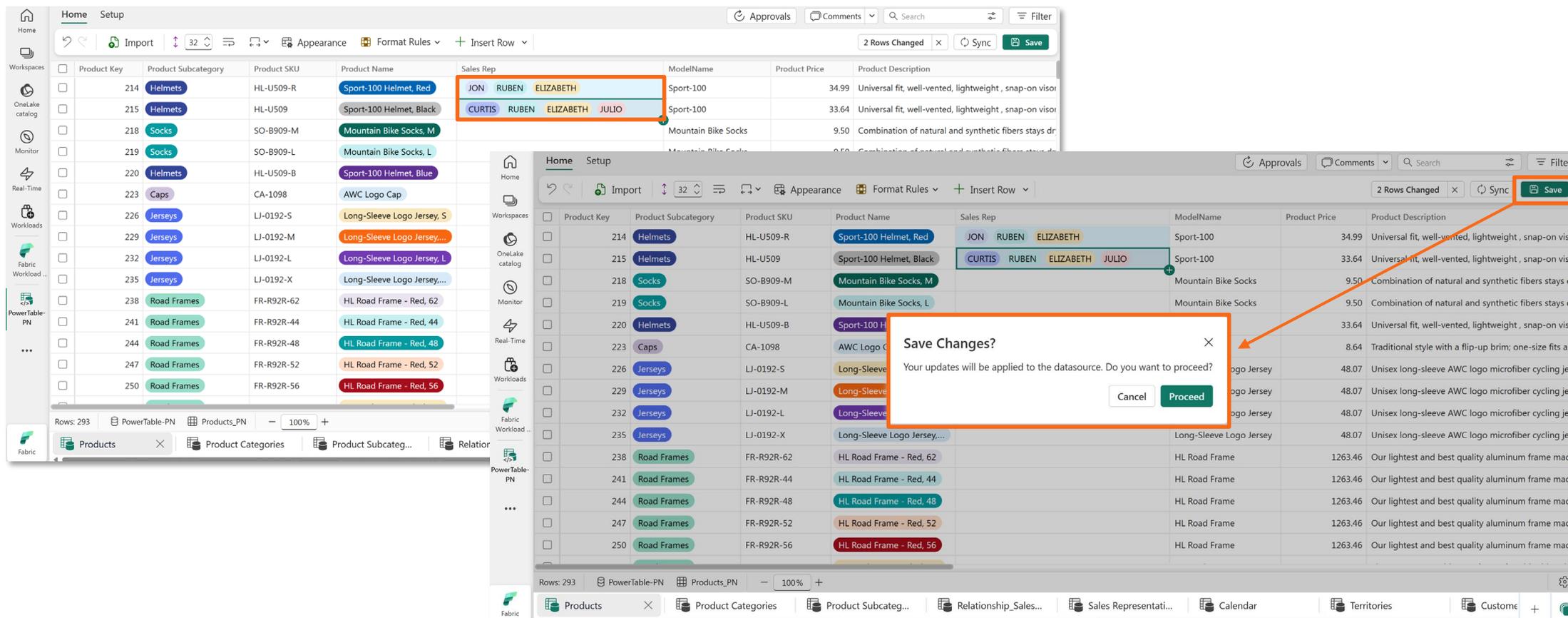
Buttons for 'Cancel' and 'Save' are at the bottom right of the dialog.

Looks up sales rep names and shows them in the dropdown

Stores/updates product-sales rep mapping in the relationship table as we assign/un-assign sales reps to products in the app

2. Add a Multi-select Relationship Column: Step #2 (...cont'd)

→ Now you can select multiple sales reps for products and save it.

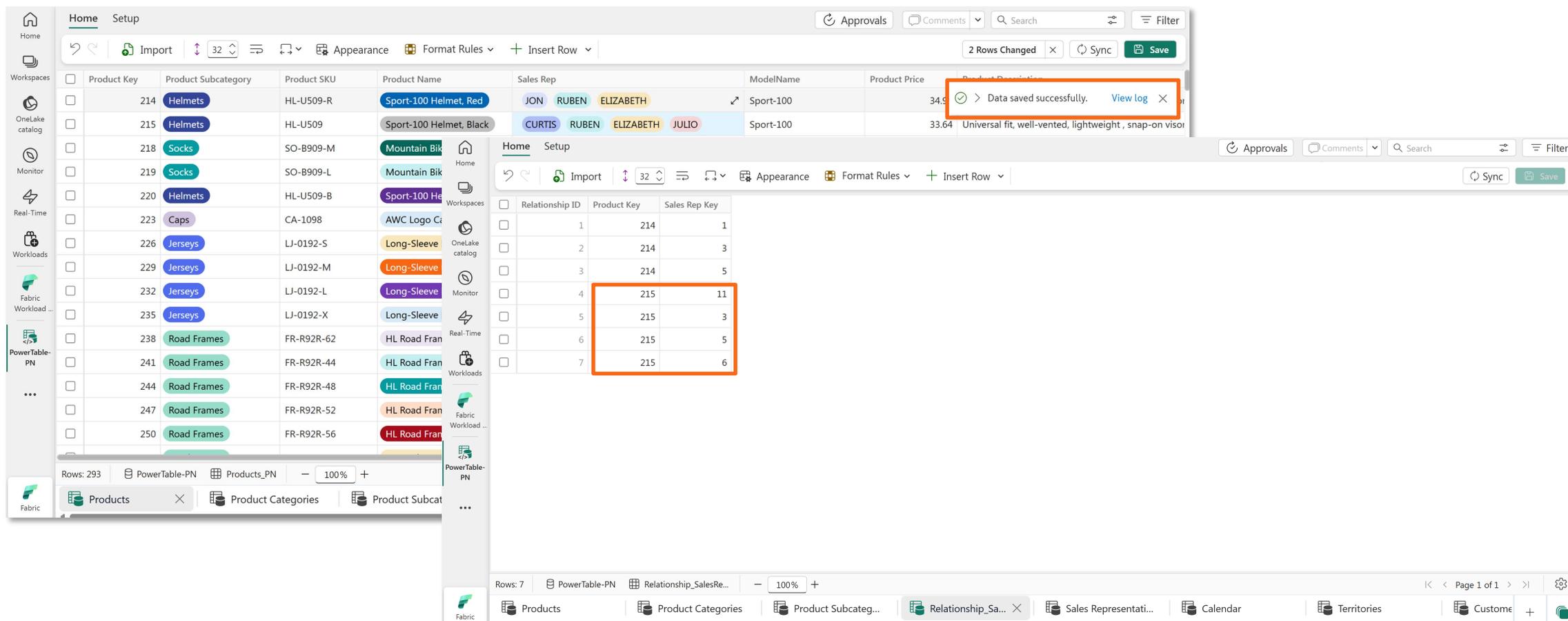


The screenshot displays the PowerTable interface with a table of products. The 'Sales Rep' column is highlighted in orange, showing a multi-select relationship with values: JON, RUBEN, ELIZABETH, CURTIS, RUBEN, ELIZABETH, JULIO. A dialog box titled 'Save Changes?' is overlaid on the table, asking 'Your updates will be applied to the datasource. Do you want to proceed?' with 'Cancel' and 'Proceed' buttons. An orange arrow points from the 'Save' button in the top right of the table to the 'Proceed' button in the dialog box.

Product Key	Product Subcategory	Product SKU	Product Name	Sales Rep	ModelName	Product Price	Product Description
214	Helmets	HL-U509-R	Sport-100 Helmet, Red	JON RUBEN ELIZABETH	Sport-100	34.99	Universal fit, well-vented, lightweight, snap-on visor
215	Helmets	HL-U509	Sport-100 Helmet, Black	CURTIS RUBEN ELIZABETH JULIO	Sport-100	33.64	Universal fit, well-vented, lightweight, snap-on visor
218	Socks	SO-B909-M	Mountain Bike Socks, M		Mountain Bike Socks	9.50	Combination of natural and synthetic fibers stays dr
219	Socks	SO-B909-L	Mountain Bike Socks, L		Mountain Bike Socks	9.50	Combination of natural and synthetic fibers stays dr
220	Helmets	HL-U509-B	Sport-100 Helmet, Blue		Sport-100 H	33.64	Universal fit, well-vented, lightweight, snap-on visor
223	Caps	CA-1098	AWC Logo Cap		AWC Logo C	8.64	Traditional style with a flip-up brim; one-size fits all.
226	Jerseys	LJ-0192-S	Long-Sleeve Logo Jersey, S		Long-Sleeve	48.07	Unisex long-sleeve AWC logo microfiber cycling jers
229	Jerseys	LJ-0192-M	Long-Sleeve Logo Jersey, M		Long-Sleeve	48.07	Unisex long-sleeve AWC logo microfiber cycling jers
232	Jerseys	LJ-0192-L	Long-Sleeve Logo Jersey, L		Long-Sleeve	48.07	Unisex long-sleeve AWC logo microfiber cycling jers
235	Jerseys	LJ-0192-X	Long-Sleeve Logo Jersey, X		Long-Sleeve Logo Jersey	48.07	Unisex long-sleeve AWC logo microfiber cycling jers
238	Road Frames	FR-R92R-62	HL Road Frame - Red, 62		HL Road Frame	1263.46	Our lightest and best quality aluminum frame made
241	Road Frames	FR-R92R-44	HL Road Frame - Red, 44		HL Road Frame	1263.46	Our lightest and best quality aluminum frame made
244	Road Frames	FR-R92R-48	HL Road Frame - Red, 48		HL Road Frame	1263.46	Our lightest and best quality aluminum frame made
247	Road Frames	FR-R92R-52	HL Road Frame - Red, 52		HL Road Frame	1263.46	Our lightest and best quality aluminum frame made
250	Road Frames	FR-R92R-56	HL Road Frame - Red, 56		HL Road Frame	1263.46	Our lightest and best quality aluminum frame made

2. Add a Multi-select Relationship Column: Step #3

→ Upon saving, you will notice multiple rows (one for each sales rep) for a given product



The screenshot displays the PowerTable interface with two overlapping windows. The background window shows a table of products with columns: Product Key, Product Subcategory, Product SKU, Product Name, Sales Rep, ModelName, and Product Price. A notification at the top right states "Data saved successfully." with a "View log" link.

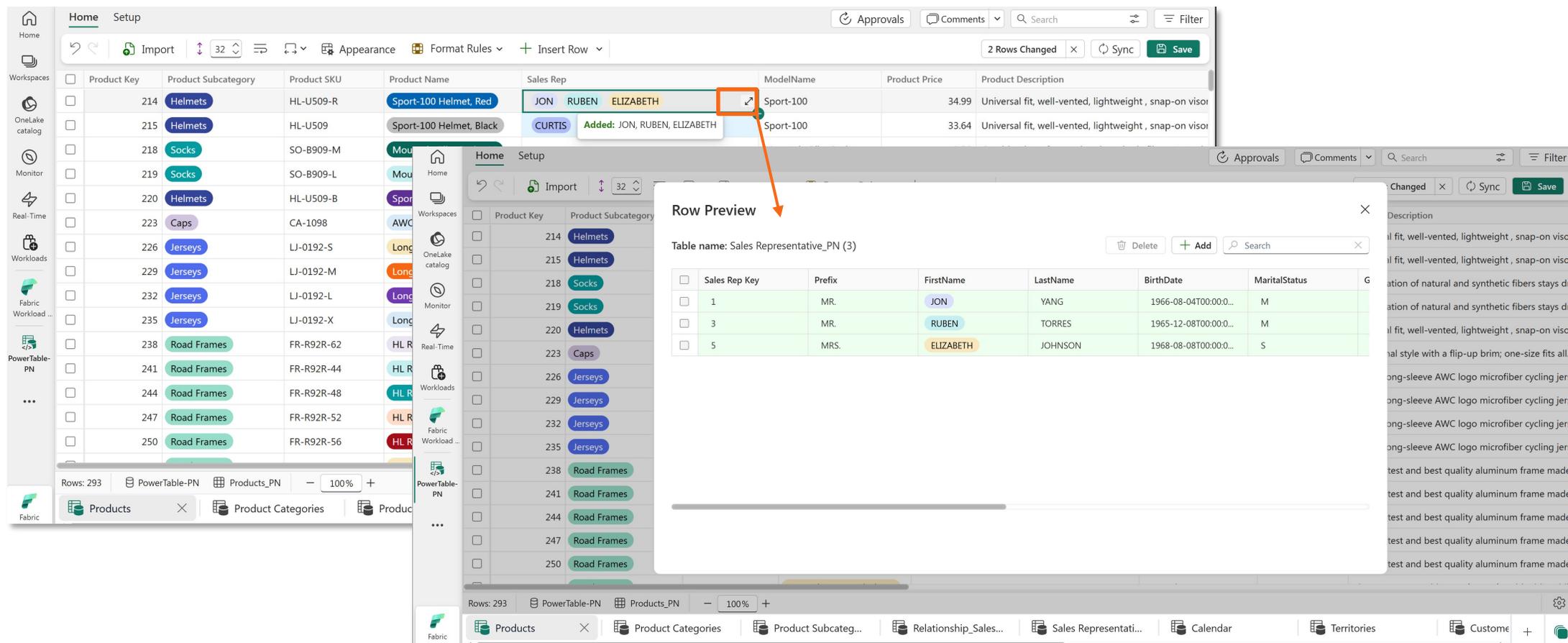
The foreground window shows a table with columns: Relationship ID, Product Key, and Sales Rep Key. The data in this table is as follows:

Relationship ID	Product Key	Sales Rep Key
1	214	1
2	214	3
3	214	5
4	215	11
5	215	3
6	215	5
7	215	6

The rows with Product Key 215 are highlighted with an orange box, demonstrating multiple relationship rows for a single product.

2. Add a Multi-select Relationship Column

→ Clicking on the Expand icon next to the dropdown list will reveal the details of the Sales Reps

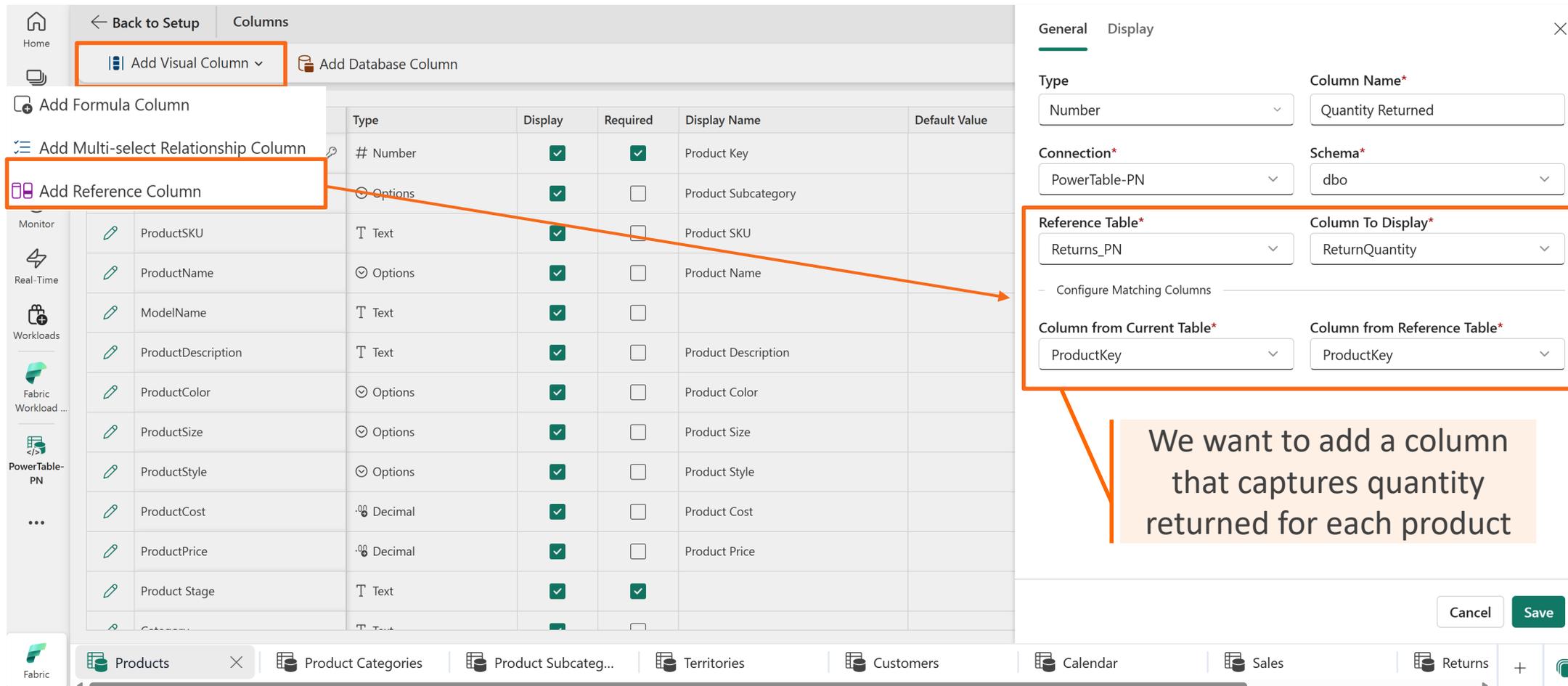


The screenshot displays the PowerTable interface with a table containing product information. A multi-select relationship column, 'Sales Rep', is highlighted. An orange box around the expand icon (a checkmark) indicates that clicking it will reveal the details of the selected sales representatives.

The 'Row Preview' dialog box shows the following data for the selected sales representatives:

Sales Rep Key	Prefix	FirstName	LastName	BirthDate	MaritalStatus
1	MR.	JON	YANG	1966-08-04T00:00:00...	M
3	MR.	RUBEN	TORRES	1965-12-08T00:00:00...	M
5	MRS.	ELIZABETH	JOHNSON	1968-08-08T00:00:00...	S

3. Add a Reference Column



Columns

← Back to Setup

Add Visual Column

Add Database Column

Add Formula Column

Add Multi-select Relationship Column

Add Reference Column

Type	Display	Required	Display Name	Default Value
# Number	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Product Key	
Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Subcategory	
T Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product SKU	
Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Name	
T Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Description	
Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Color	
Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Size	
Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Style	
Decimal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Cost	
Decimal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Product Price	
T Text	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Product Stage	
T Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Category	

General Display

Type: Number

Column Name*: Quantity Returned

Connection*: PowerTable-PN

Schema*: dbo

Reference Table*: Returns_PN

Column To Display*: ReturnQuantity

Configure Matching Columns

Column from Current Table*: ProductKey

Column from Reference Table*: ProductKey

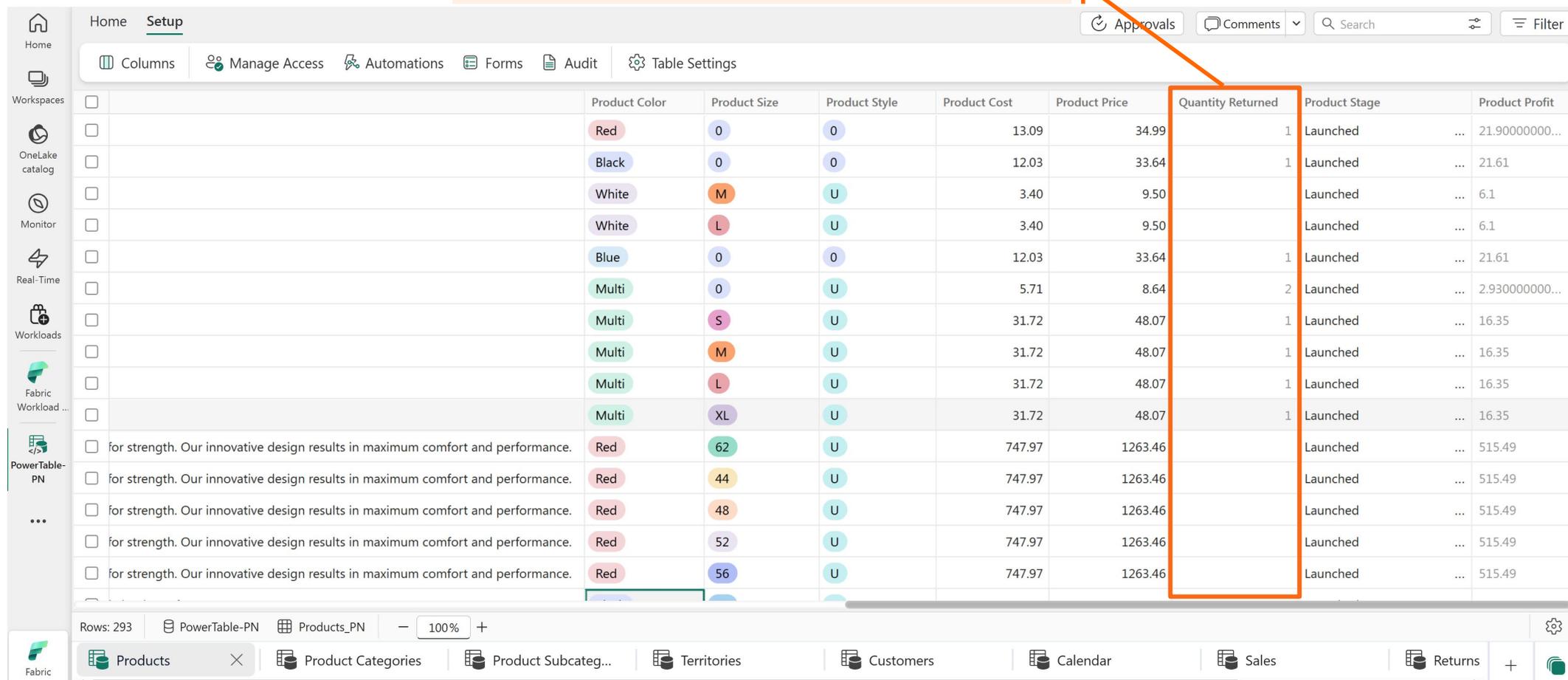
Cancel Save

Products Product Categories Product Subcateg... Territories Customers Calendar Sales Returns

We want to add a column that captures quantity returned for each product

3. Add a Reference Column (...cont'd)

We have added returns data to the table



		Product Color	Product Size	Product Style	Product Cost	Product Price	Quantity Returned	Product Stage	Product Profit
<input type="checkbox"/>		Red	0	0	13.09	34.99	1	Launched	21.90000000...
<input type="checkbox"/>		Black	0	0	12.03	33.64	1	Launched	21.61
<input type="checkbox"/>		White	M	U	3.40	9.50		Launched	6.1
<input type="checkbox"/>		White	L	U	3.40	9.50		Launched	6.1
<input type="checkbox"/>		Blue	0	0	12.03	33.64	1	Launched	21.61
<input type="checkbox"/>		Multi	0	U	5.71	8.64	2	Launched	2.930000000...
<input type="checkbox"/>		Multi	S	U	31.72	48.07	1	Launched	16.35
<input type="checkbox"/>		Multi	M	U	31.72	48.07	1	Launched	16.35
<input type="checkbox"/>		Multi	L	U	31.72	48.07	1	Launched	16.35
<input type="checkbox"/>		Multi	XL	U	31.72	48.07	1	Launched	16.35
<input type="checkbox"/>	for strength. Our innovative design results in maximum comfort and performance.	Red	62	U	747.97	1263.46		Launched	515.49
<input type="checkbox"/>	for strength. Our innovative design results in maximum comfort and performance.	Red	44	U	747.97	1263.46		Launched	515.49
<input type="checkbox"/>	for strength. Our innovative design results in maximum comfort and performance.	Red	48	U	747.97	1263.46		Launched	515.49
<input type="checkbox"/>	for strength. Our innovative design results in maximum comfort and performance.	Red	52	U	747.97	1263.46		Launched	515.49
<input type="checkbox"/>	for strength. Our innovative design results in maximum comfort and performance.	Red	56	U	747.97	1263.46		Launched	515.49

Resources

- Get Started: <https://powertable.com/getting-started/>
- Questions/Help: <https://community.powertable.com>
- Documentation: <https://docs.powertable.com>
- Our website: www.powertable.com



Thank you!

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