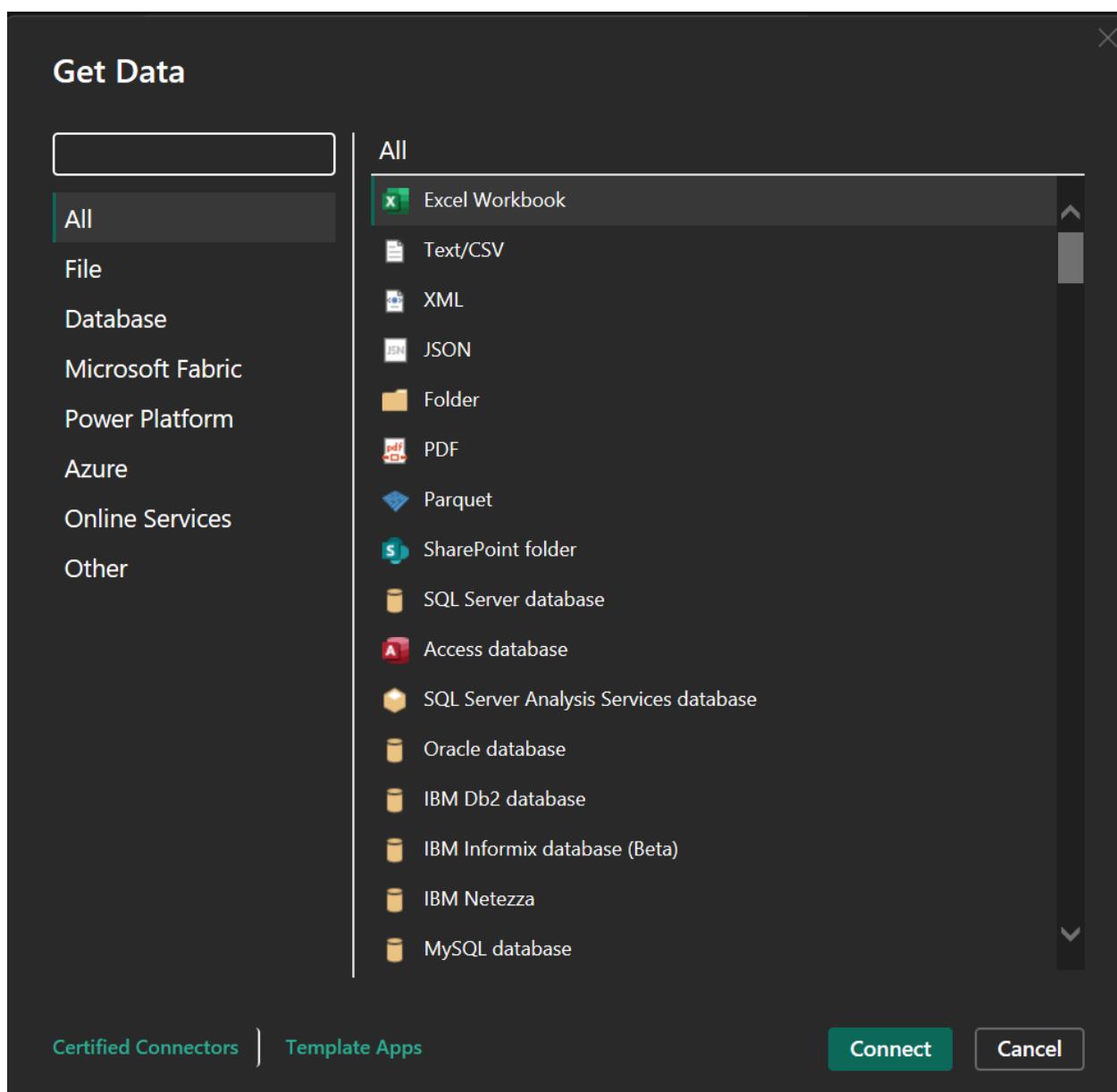


# Data Analyst BootCamp

## Power Bi

Download: From Microsoft Store

Then Get data from:



use excel and connect and use that file which is given

## Navigator

Sheet1

Store	Product	Price	Date
Walmart	Rice	25	01-01-2022
Costco	Rice	23	01-01-2022
Target	Rice	22.99	01-01-2022
Walmart	Rice	25.75	01-02-2022
Costco	Rice	23.99	01-02-2022
Target	Rice	23.25	01-02-2022
Walmart	Rice	26.99	01-03-2022
Costco	Rice	24.99	01-03-2022
Target	Rice	24.25	01-03-2022
Walmart	Rice	26.99	01-04-2022
Costco	Rice	25.25	01-04-2022
Target	Rice	24.75	01-04-2022
Walmart	Dried Beans	22.99	01-01-2022
Costco	Dried Beans	20.99	01-01-2022
Target	Dried Beans	23.99	01-01-2022
Walmart	Dried Beans	23.99	01-02-2022
Costco	Dried Beans	22.99	01-02-2022
Target	Dried Beans	24.99	01-02-2022
Walmart	Dried Beans	24.25	01-03-2022
Costco	Dried Beans	22.99	01-03-2022
Target	Dried Beans	25.45	01-03-2022
Walmart	Dried Beans	24.49	01-04-2022
Costco	Dried Beans	23.99	01-04-2022

Load    Transform Data    Cancel

click the check box and do the transform data

= Table.RenameColumns(#"Changed Type",{{"Date", "Purchased Date"}})

A <sup>B</sup> C	Product	1.2	Price	Purchased Date
	Rice		25	01-01-2022
	Rice		23	01-01-2022
	Rice		22.99	01-01-2022
	Rice		25.75	01-02-2022
	Rice		23.99	01-02-2022
	Rice		23.25	01-02-2022
	Rice		26.99	01-03-2022
	Rice		24.99	01-03-2022
	Rice		24.25	01-03-2022
	Rice		26.99	01-04-2022
	Rice		25.25	01-04-2022

Query Settings

**PROPERTIES**

- Name: Sheet1
- All Properties

**APPLIED STEPS**

- Source
- Navigation
- Promoted Headers
- Changed Type
- Renamed Columns

Rename the columns

Home    Transform    Add Column    View    Tools    Help

Close & Apply    New Source    Recent Sources    Enter Data    Data source settings    Manage Parameters    Refresh Preview    Properties Advanced Editor    Manage    Choose Columns    Remove Columns    Keep Rows    Remove Rows    Reduce Rows    Sort

Queries [1]  = Table.SelectRows(#"Renamed Columns", each ([Product] <> "Milk"))

**Sheet1**

	A <sup>b</sup> c Store	A <sup>b</sup> c Product	1.2 Price	Purchased Date
1	Walmart	Rice	25	01-01-2022
2	Costco	Rice	23	01-01-2022
3	Target	Rice	22.99	01-01-2022
4	Walmart	Rice	25.75	01-02-2022
5	Costco	Rice	23.99	01-02-2022
6	Target	Rice	23.25	01-02-2022
7	Walmart	Rice	26.99	01-03-2022
8	Costco	Rice	24.99	01-03-2022
9	Target	Rice	24.25	01-03-2022
10	Walmart	Rice	26.99	01-04-2022
11	Costco	Rice	25.25	01-04-2022

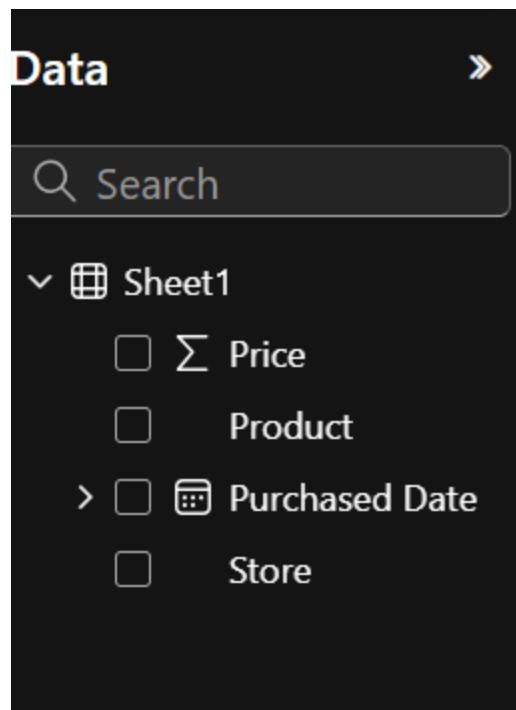
after changing the data click on close and apply in home

Auto recovery contains some recovered files that haven't been opened.

Build visuals with your data

Select or drag fields from the Data pane onto the visual.

check the side 3 options



Select from here what u want to do and act accordingly

The screenshot shows the 'Visualizations' and 'Data' panes in Power BI. The 'Visualizations' pane on the left contains a 'Build visual' section with two icons and a grid of visualization icons. The 'Data' pane on the right is identical to the one shown in the first screenshot, displaying the 'Sheet1' fields.

**Visualizations**

Build visual

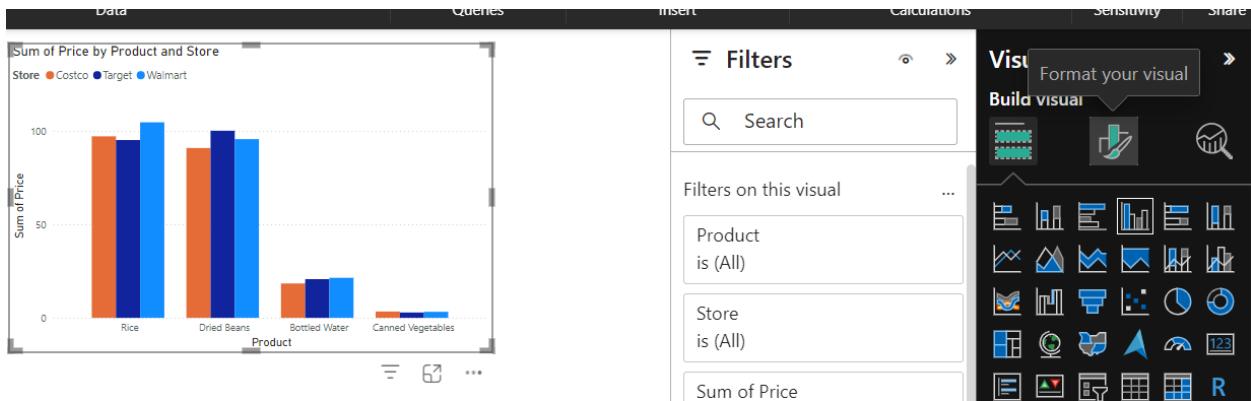
**Data**

Search

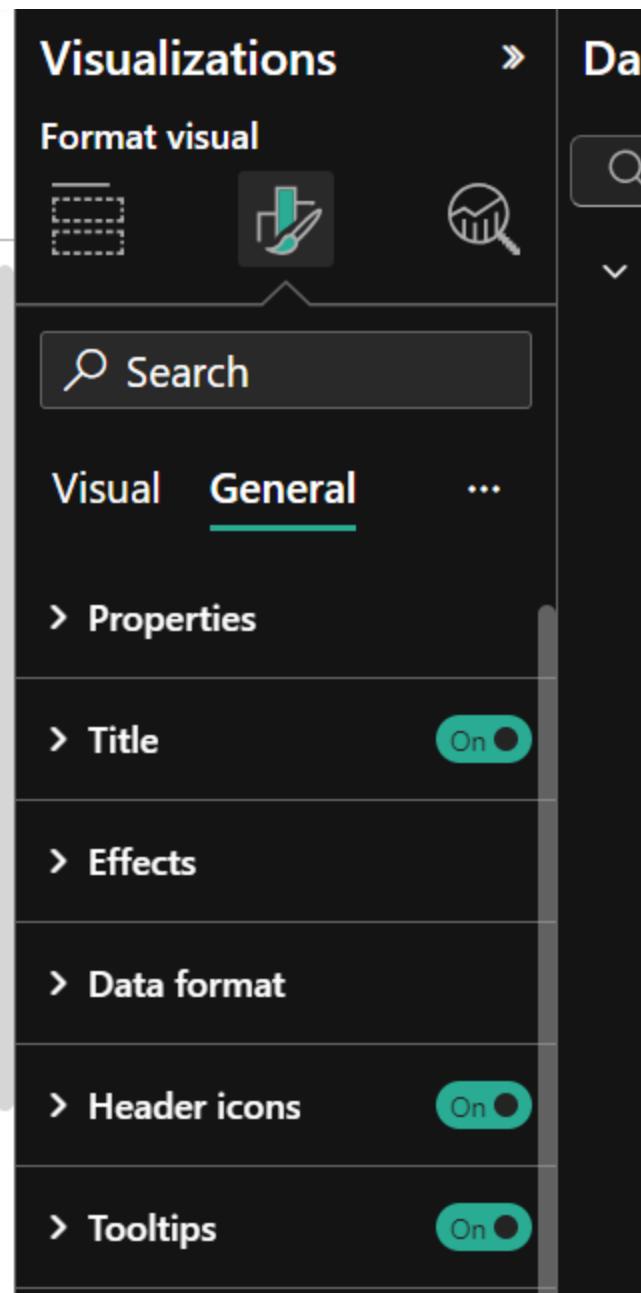
Sheet1

- $\Sigma$  Price
- Product
- >  Purchased Date
- Store

now after adding that click on any graph and do the visualization click on store and put it in legend



To change title just click on format your visual and change the necessary labelling



## How to use Power Query

Click import and then click excel and then transform the data to get to the query tab

Untitled - Power Query Editor

**Home** Transform Add Column View Tools Help

Close & Apply v New Source v Recent Sources v Enter Data Data source settings Manage Parameters v Refresh Properties Advanced Editor Preview v Manage v Choose Columns v Remove Columns v Keep Rows v Remove Rows v Sort Split Column v

Close New Query Data Sources Parameters Query Manage Columns Manage Rows Reduce Rows Sort

**Queries [1]**

Sheet1

	Store	Product	Price	Date
1	Walmart	Rice	25	01-01-2022
2	Costco	Rice	23	01-01-2022
3	Target	Rice	22.99	01-01-2022
4	Walmart	Rice	25.75	01-02-2022
5	Costco	Rice	23.99	01-02-2022
6	Target	Rice	23.25	01-02-2022

## Remove top rows

Untitled - Power Query Editor

**Home** Transform Add Column View Tools Help

Close & Apply v New Source v Recent Sources v Enter Data Data source settings Manage Parameters v Refresh Properties Advanced Editor Preview v Manage v Choose Columns v Remove Columns v Keep Rows v Remove Rows v Sort Split Column v

Close New Query Data Sources Parameters Query Manage Columns Manage Rows Reduce Rows Sort

**Queries [2]**

Pivot Table Purchase Overview

	Column2	Column3	Column4
1	Location	Products	01-01-2022
2	Costco	Bottled Water	4.25
3	Costco	Canned Vegetables	0.85
4	Costco	Dried Beans	20.99
5	Costco	Duct Tape	5

Remove the top 2 rows

- Remove Top Rows
- Remove Bottom Rows
- Remove Alternate Rows
- Remove Duplicates
- Remove Blank Rows
- Remove Errors

## Change type

Untitled - Power Query Editor

Home Transform Add Column View Tools Help

Transpose  
Unpivot Columns  
Replace Values  
Data Type: Decimal Number  
Group By  
Use First Row By  
Reverse Rows  
Count Rows  
Detect Data Type  
Rename  
Fill  
Move  
Pivot Column  
Convert to List  
Merge Columns  
Split  
Format  
Extract  
Text Column  
Any Column

Queries [2]

Pivot Table Purchase Overview

	Location	Products	\$	01-01-2022	1.2 01-02-2022	1.2 01-03-2022
1	Costco	Bottled Water	4.25		1.2 Decimal Number	
2	Costco	Canned Vegetables	0.85		\$ Fixed decimal number	
3	Costco	Dried Beans	20.99		123 Whole Number	
4	Costco	Duct Tape	5.00		% Percentage	
5	Costco	Flashlight	13.00		Date/Time	
6	Costco	Milk	2.30		Date	
7	Costco	Rice	23.00		Time	
8	Costco	Rope	13.50		Date/Time/Timezone	
9	Costco	Water Filter	29.00		Duration	
10		null Costco Total	111.89		Text	
11	Target	Bottled Water	4.99		True/False	

## Remove Empty

By as Headers  Count Rows  Rename  Pivot Column  Convert to Li

Table Any Column

Queries [2]    = Table.SelectRows(#"Changed Type1", each

Pivot Table  Location  Products

A  Sort Ascending  
Z  Sort Descending  
Clear Sort

Y  Clear Filter  
Remove Empty

Text Filters

(Select All)  
 (null)  
 (blank)  
 Costco  
 Target  
 Walmart

OK Cancel

	A B C	Products	<input type="button" value="\\$ 01-02"/>
1		Bottled Water	
2		Canned Vegetables	
3		Dried Beans	
4		Duct Tape	
5		Flashlight	
6		Milk	
7		Rice	
8		Rope	
9		Water Filter	
10		Bottled Water	
11		Canned Vegetables	
12		Dried Beans	
13		Duct Tape	
14		Flashlight	
15		Milk	
16		Rice	
17		Rope	

Does not contain filter

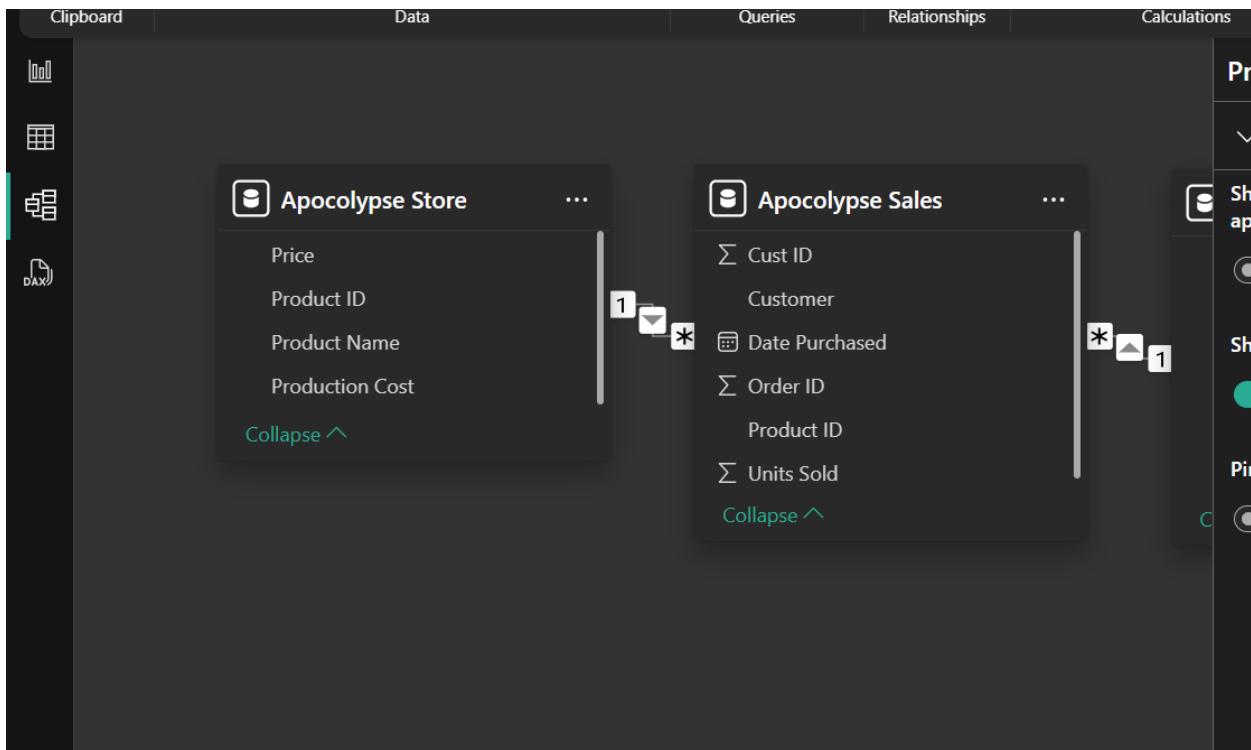
AB <sub>C</sub> Location	AB <sub>C</sub> Products	\$ 01-01-2022	\$ 01-02
A <sub>Z</sub> Sort Ascending		4.25	
Z <sub>A</sub> Sort Descending		0.85	
Clear Sort		20.99	
Clear Filter		5.00	
Remove Empty		13.00	
Text Filters		2.30	
Search			
<input checked="" type="checkbox"/> (Select All) <input checked="" type="checkbox"/> Bottled Water <input checked="" type="checkbox"/> Canned Vegetables <input checked="" type="checkbox"/> Dried Beans <input checked="" type="checkbox"/> Duct Tape <input checked="" type="checkbox"/> Flashlight <input checked="" type="checkbox"/> Milk <input checked="" type="checkbox"/> Rice <input checked="" type="checkbox"/> Rope <input checked="" type="checkbox"/> Water Filter		Equals... Does Not Equal... Begins With... Does Not Begin With... Ends With... Does Not End With... Contains... Does Not Contain...	
		15.00	
		38.00	
		5.00	

Select last 3 date columns go to transform go to unpivot columns

To get to the visualization part click on Close and apply and after that if u want to go back click on the transform data again

Create and Manage Relationships in PowerBI

Import all the data(load) which u want relationship to be maintained and go to the model tab



click on between line and establish a relationship between them

The screenshot shows the Power BI Desktop interface with the 'Edit relationship' dialog open. The 'From table' is set to 'Apocalypse Sales' and the 'To table' is set to 'Customer Information'. Both the 'Customer' column in the Sales table and the 'Customer' column in the Customer Information table are selected. The 'Cardinality' section shows 'Many to one (\*:1)' and 'Cross-filter direction' set to 'Single'. There are checkboxes for 'Make this relationship active' and 'Assume referential integrity'. At the bottom, there are 'Save' and 'Cancel' buttons.

Cust ID	Customer	Date Purchased	Order ID	Product ID	Units Sold
1234	Uncle Joe's Pr...	01 January 20...	1904	10006	32
9876	Alex The Anal...	02 January 20...	3966	10005	68
2468	Apocalypse P...	03 January 20...	7348	10004	69

Address	City	Customer	Customer ID	State	Zipcode
123 Main Stree...	Dallas	Uncle Joe's Pr...	1234	Texas	70571
369 Real Avenu...	New York	Alex The Anal...	9876	New York	12546
444 Four Street	Benson	Apocalypse P...	2468	Minnesota	93873

For accurate results use cross filter as both and tick the make this relationship active

Drag and drop one on another box column from scratch if u want

DAX( Data Analysis Expression) in Power BI:

Download data and open the data

The screenshot shows the Power BI Report view. On the left is a bar chart with four bars. Above the chart, the formula bar displays "Measure =". To the right of the chart are several toolbars: Structure, Formatting, Properties, Calculations, Visualizations, and Data. The Data toolbar shows a tree view of data sources: "Apocalypse Sales" (Count of Sales, Sum of Cust ID, Customer), "Date Purchased" (Sum of Order ID, Product ID, Sum of Units Sold), and "Apocalypse Store" (Price, Product ID, Product Name, Production Cost). The "Measure" node under "Apocalypse Sales" is selected.

In report view go to apocalypse sales click on left and measure and then formula tab will open click like count of sales= count u will get recommendations and use that and it will form the one tab there and click on it to display it on white screen

The screenshot shows the Power BI Report view. On the left is a table with columns "Customer" and "Count of Sales". The table has four rows: "Uncle Joe's Prep Shop" (22), "Apocalypse Preppers United" (20), "Alex The Analyst Apocalypse Preppers" (16), and "PrepAnything Prepping Store" (16). The total count is 74. Above the table, the formula bar displays "Measure =". To the right of the table are the same toolbars as in the previous screenshot. The "Measure" node under "Apocalypse Sales" is selected in the Data toolbar.

also choose the necessary columns to get displayed =count(sales)

The screenshot shows the Power BI desktop interface. On the left, there's a table visual titled "Customer" with a count of 22 rows. The table lists various prep stores and their counts. In the center, there's a "Filters" pane with sections for "Filters on this visual", "Filters on this page", and "Filters on all pages". To the right, there's a "Visualizations" pane showing a list of chart types and a "Data" pane listing data sources like "Apocalypse Sales" and "Apocalypse Store".

Customer	Count of Sales
Uncle Joe's Prep Shop	22
Apocalypse Preppers United	20
Alex The Analyst Apocalypse Preppers	16
Prep4Anything Prepping Store	16
Total	74

=sum(units sold) for product

The screenshot shows the Power BI desktop interface with a table visual. A calculated column named "Profit\_Column\_SUMx" has been added to the table, which contains the formula: `1 Profit_Column_SUMx = SUMX('Apocalypse Sales',('Apocalypse Store'[Price] - 'Apocalypse Store'[Production Cost]) * 'Apocalypse Sales'[Units Sold])`. The table lists products with their respective prices, production costs, and calculated profit values.

Product ID	Product Name	Price	Production Cost	Profit_Column_SUMx
10001	Nylon Rope	30.99	13.67	434754.87
10002	Waterproof Matches	7.99	2.89	434754.87
10003	Stainless Steel Axe	45.5	32.45	434754.87
10004	Backpack	39.99	26.92	434754.87
10005	Multitool Survival Knife	28.99	10.58	434754.87
10006	Solar Battery Flashlight	26.49	13.41	434754.87
10007	Weatherproof Jacket	79.99	30.59	434754.87
10008	Duct Tape	6.25	4.87	434754.87
10009	Water Purifier	30.25	17.93	434754.87
10010	N95 Mask	2.75	1.01	434754.87

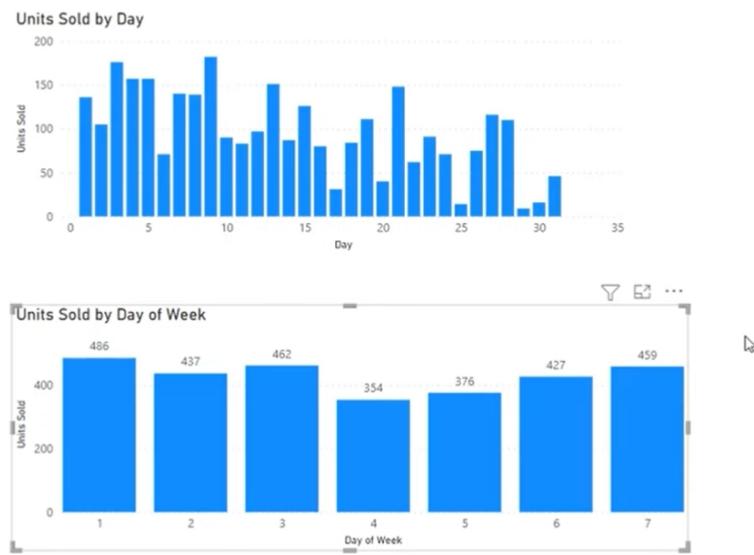
=sumx for individual row

Structure      Formatting      Properties      Sort      Groups      Relationships      Calculations

1 Day of Week = WEEKDAY('Apocalypse Sales'[Date Purchased],2)

Customer	Product ID	Order ID	Units Sold	Date Purchased	Day of Week
Uncle Joe's Prep Shop	10006	1904	32	Saturday, January 1, 2022	6
Alex The Analyst Apocalypse Preppers	10005	3966	68	Sunday, January 2, 2022	7
Apocalypse Preppers United	10004	7348	69	Monday, January 3, 2022	1
Prep4Anything Prepping Store	10005	2409	48	Tuesday, January 4, 2022	2
Uncle Joe's Prep Shop	10010	2045	70	Wednesday, January 5, 2022	3
Alex The Analyst Apocalypse Preppers	10008	9151	6	Thursday, January 6, 2022	4
Apocalypse Preppers United	10003	1065	59	Friday, January 7, 2022	5
Prep4Anything Prepping Store	10003	3780	72	Saturday, January 8, 2022	6
Uncle Joe's Prep Shop	10001	1043	67	Sunday, January 9, 2022	7
Alex The Analyst Apocalypse Preppers	10007	7075	7	Monday, January 10, 2022	1
Apocalypse Preppers United	10001	6778	23	Tuesday, January 11, 2022	2
Prep4Anything Prepping Store	10008	3572	56	Wednesday, January 12, 2022	3
Uncle Joe's Prep Shop	10006	4033	51	Thursday, January 13, 2022	4
Alex The Analyst Apocalypse Preppers	10005	2073	2	Friday, January 14, 2022	5
Apocalypse Preppers United	10010	7333	45	Saturday, January 15, 2022	6
Prep4Anything Prepping Store	10005	3352	13	Sunday, January 16, 2022	7
Uncle Joe's Prep Shop	10003	2078	4	Monday, January 17, 2022	1
Uncle Joe's Prep Shop	10005	7616	78	Tuesday, January 18, 2022	2

## day of the week



Visualizations      Fields

Build visual

Filters

Search

Apocalypse Sales

- Count
- Customer
- Date Purchased
- Day of Week
- Order ID
- Product ID
- Sum of Order ID
- Sum of Product ID
- Sum of Units Sold

X-axis

Day of Week

Y-axis

Units Sold

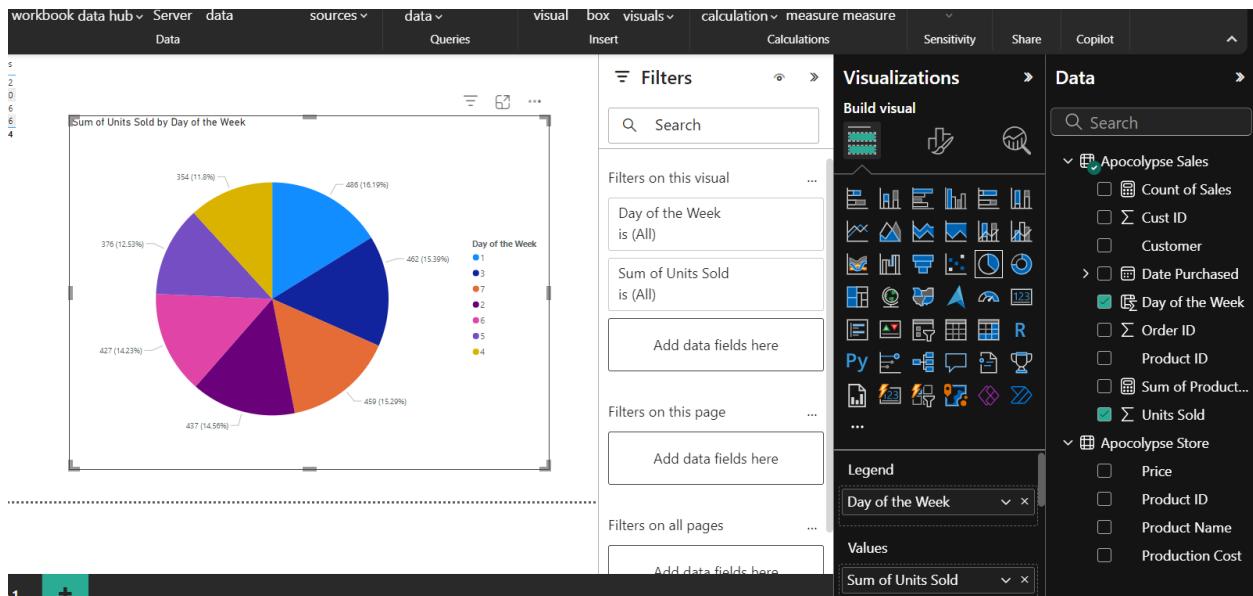
Legend

Add data fields here

Small multiples

Add data fields here

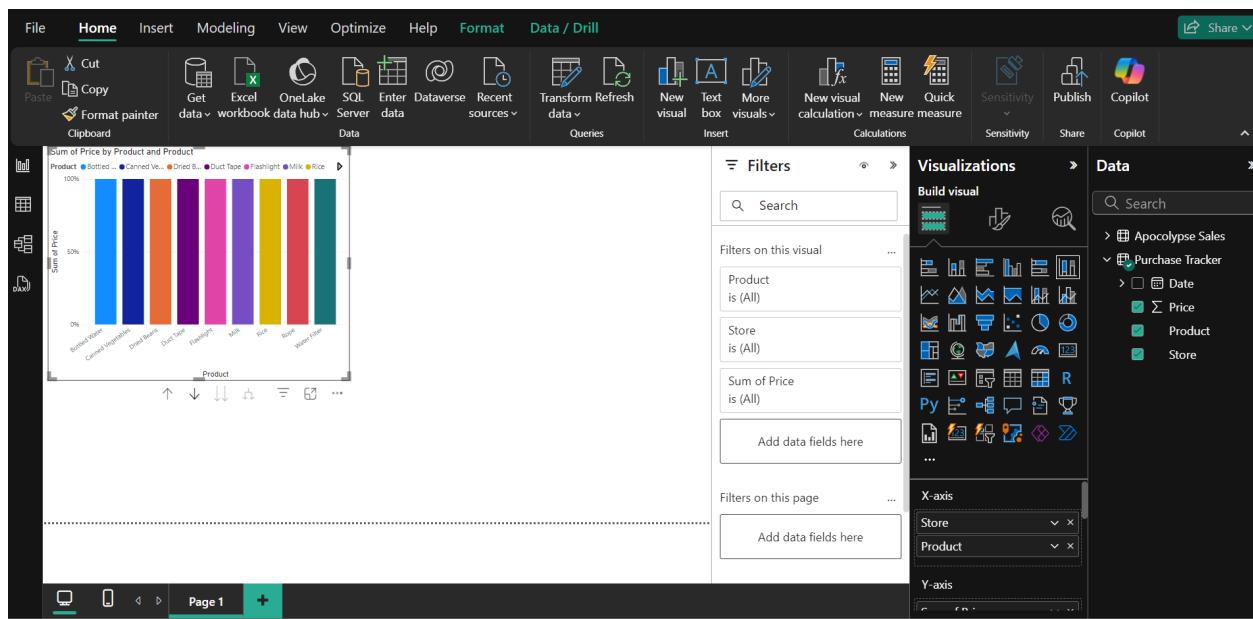
Tooltips



Customer	Product ID	Order ID	Units Sold	Date Purchased	Day of Week	Order_Size
Uncle Joe's Prep Shop	10006	1904	32	Saturday, January 1, 2022	6	Big Order
Alex The Analyst Apocalypse Preppers	10005	3966	68	Sunday, January 2, 2022	7	Big Order
Apocalypse Preppers United	10004	7348	69	Monday, January 3, 2022	1	Big Order
Prep4Anything Prepping Store	10005	2409	48	Tuesday, January 4, 2022	2	Big Order
Uncle Joe's Prep Shop	10010	2045	70	Wednesday, January 5, 2022	3	Big Order
Alex The Analyst Apocalypse Preppers	10008	9151	6	Thursday, January 6, 2022	4	Small Order
Apocalypse Preppers United	10003	1065	59	Friday, January 7, 2022	5	Big Order
Prep4Anything Prepping Store	10003	3780	72	Saturday, January 8, 2022	6	Big Order
Uncle Joe's Prep Shop	10001	1043	67	Sunday, January 9, 2022	7	Big Order
Alex The Analyst Apocalypse Preppers	10007	7075	7	Monday, January 10, 2022	1	Small Order
Apocalypse Preppers United	10001	6778	23	Tuesday, January 11, 2022	2	Small Order
Prep4Anything Prepping Store	10008	3572	56	Wednesday, January 12, 2022	3	Big Order
Uncle Joe's Prep Shop	10006	4033	51	Thursday, January 13, 2022	4	Big Order
Alex The Analyst Apocalypse Preppers	10005	2073	2	Friday, January 14, 2022	5	Small Order
Apocalypse Preppers United	10010	7333	45	Saturday, January 15, 2022	6	Big Order
Prep4Anything Prepping Store	10005	3352	13	Sunday, January 16, 2022	7	Small Order
Uncle Joe's Prep Shop	10003	2078	4	Monday, January 17, 2022	1	Small Order
Uncle Joe's Prep Shop	10005	7616	78	Tuesday, January 18, 2022	2	Big Order
Alex The Analyst Apocalypse Preppers	10009	6762	70	Wednesday, January 19, 2022	3	Big Order
Apocalypse Preppers United	10005	4556	4	Thursday, January 20, 2022	4	Small Order
Prep4Anything Prepping Store	10008	2659	73	Friday, January 21, 2022	5	Big Order

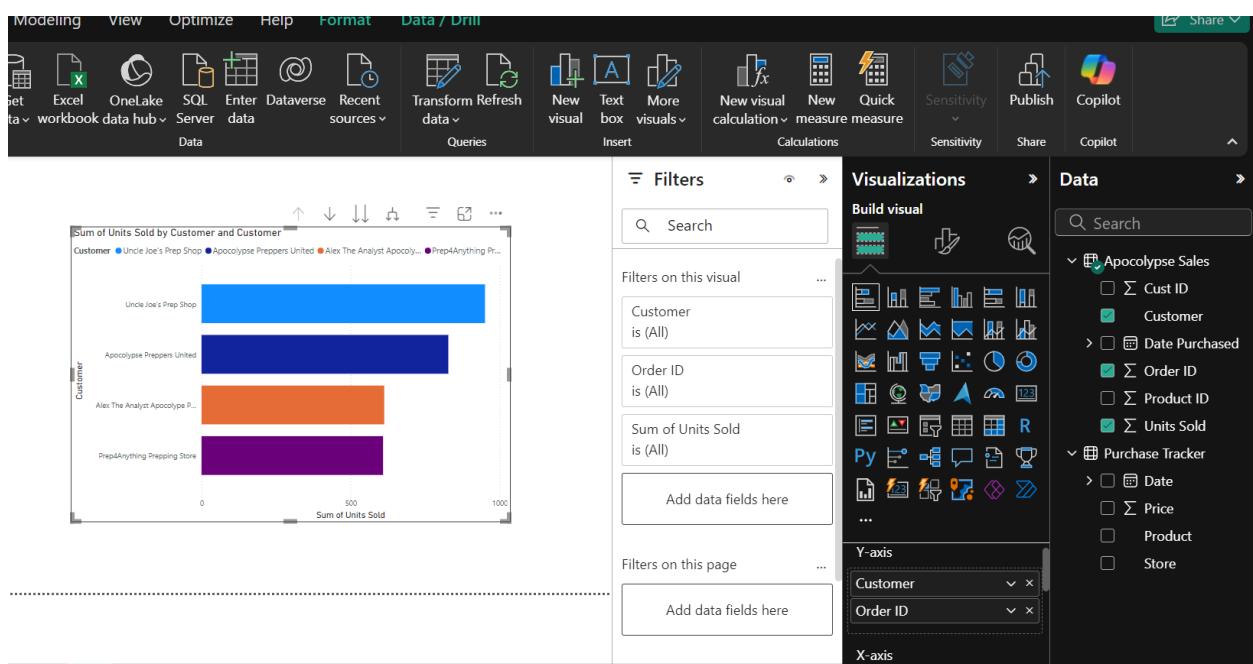
## Drill down in PowerBI

load the data and store and price and put store in legend

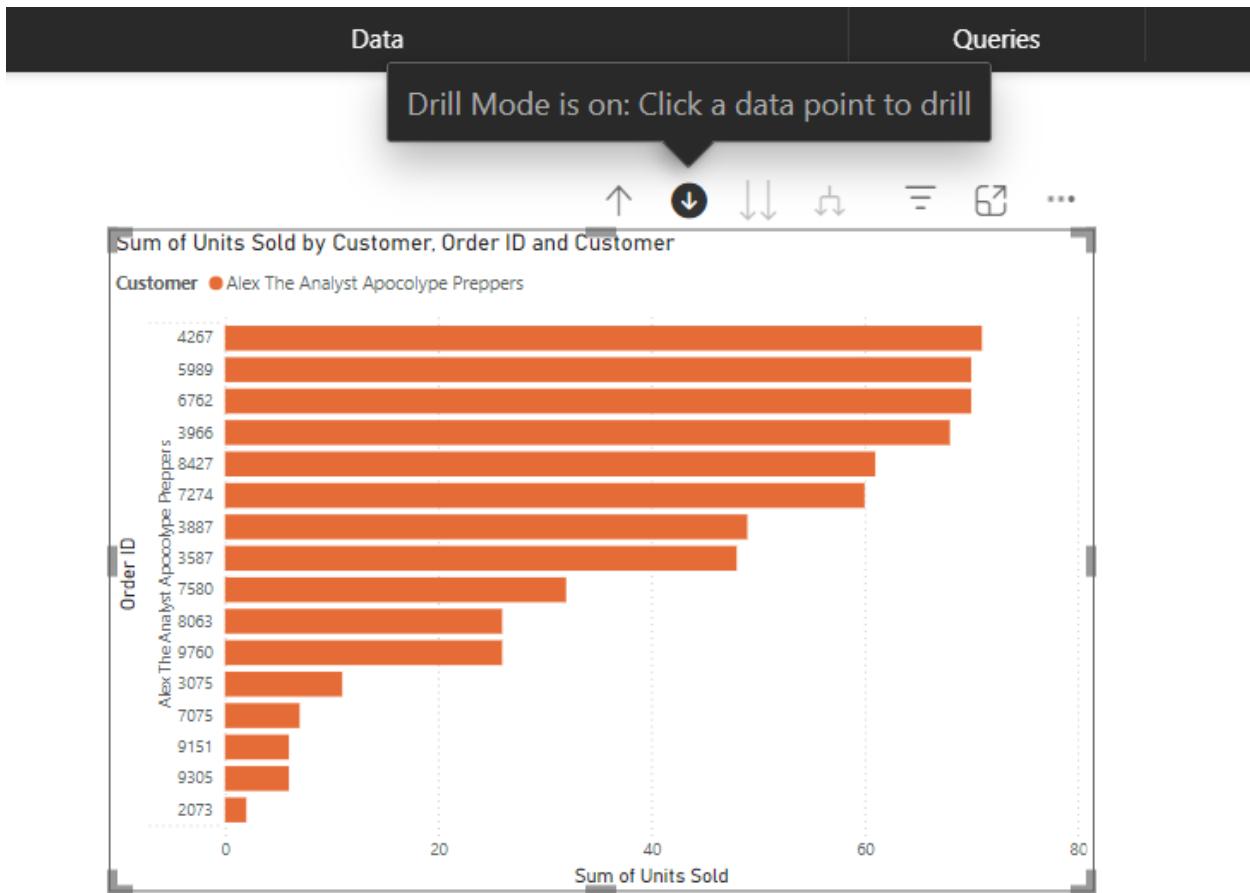


under x axis if you put two things then u get this drill down option and u can use as per ur wish

This is drill down



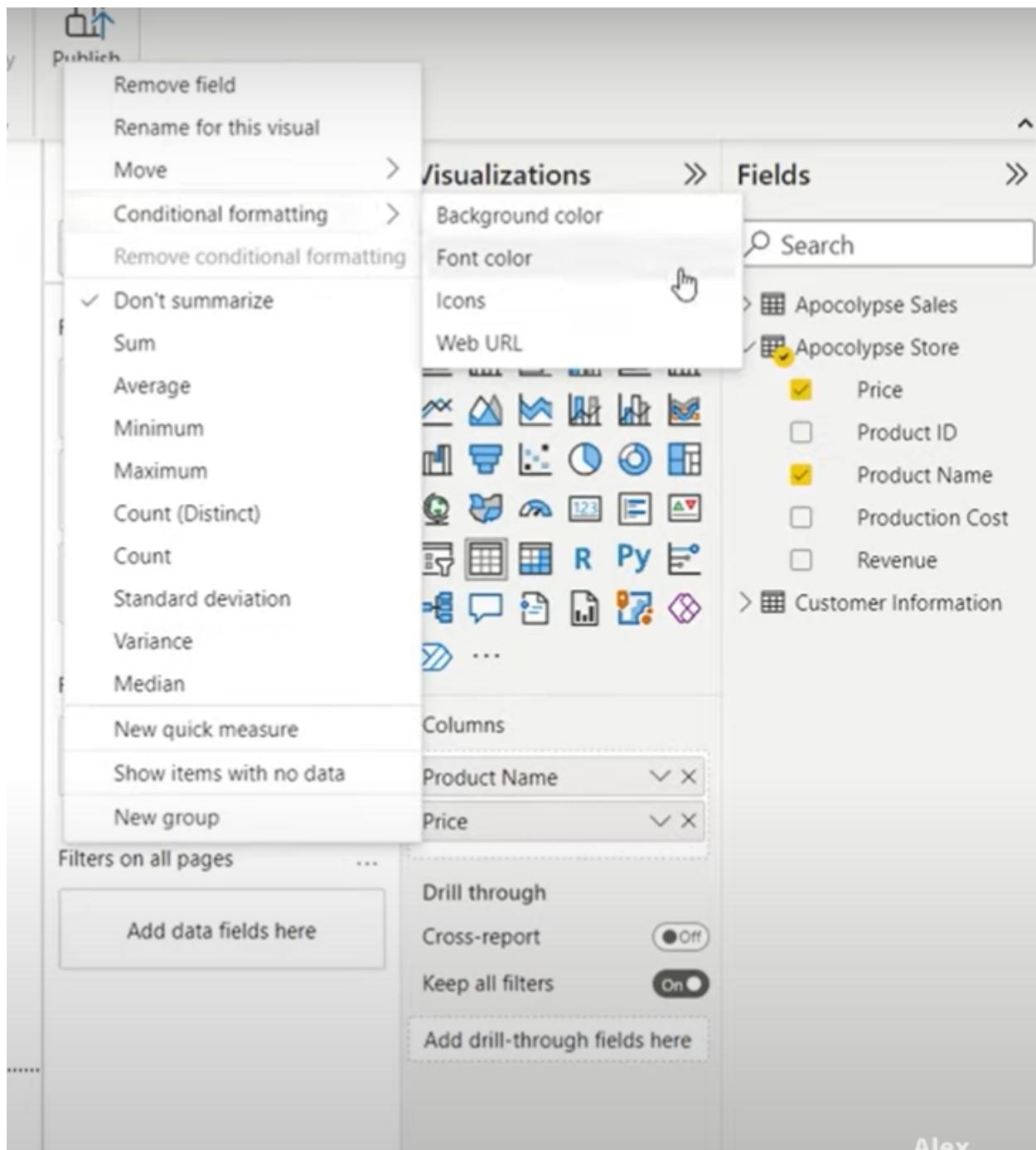
after creating a graph and take another var like order id and now if u click on blue and drill down it will show another data which is quite useful



like this

Conditional Formatting:

we will use background color most compared to others



A screenshot of the Power BI service interface showing the settings for a visualization. The left pane displays a context menu with options like 'Remove field', 'Rename for this visual', 'Move', 'Conditional formatting', and 'Don't summarize' (which is checked). Below these are various aggregation functions: Sum, Average, Minimum, Maximum, Count (Distinct), Count, Standard deviation, Variance, and Median. Further down are 'New quick measure', 'Show items with no data', and 'New group'. A section for 'Filters on all pages' includes a button to 'Add data fields here'. The right pane shows the 'visualizations' and 'Fields' tabs selected. Under 'Fields', there is a search bar and a list of fields from the 'Apocalypse Store' dataset, including 'Price' (checked), 'Product ID', 'Product Name' (checked), 'Production Cost', and 'Revenue'. Below this is a section for 'Customer Information'. At the bottom of the right pane, there are buttons for 'Drill through', 'Cross-report' (off), and 'Keep all filters' (on), with a placeholder 'Add drill-through fields here'.

Remove field

Rename for this visual

Move > /visualizations > Fields

Conditional formatting >

Remove conditional formatting

✓ Don't summarize

Sum

Average

Minimum

Maximum

Count (Distinct)

Count

Standard deviation

Variance

Median

New quick measure

Show items with no data

New group

Filters on all pages

Add data fields here

Background color

Font color

Icons

Web URL

Columns

Product Name

Price

Product ID

Product Name

Production Cost

Revenue

Customer Information

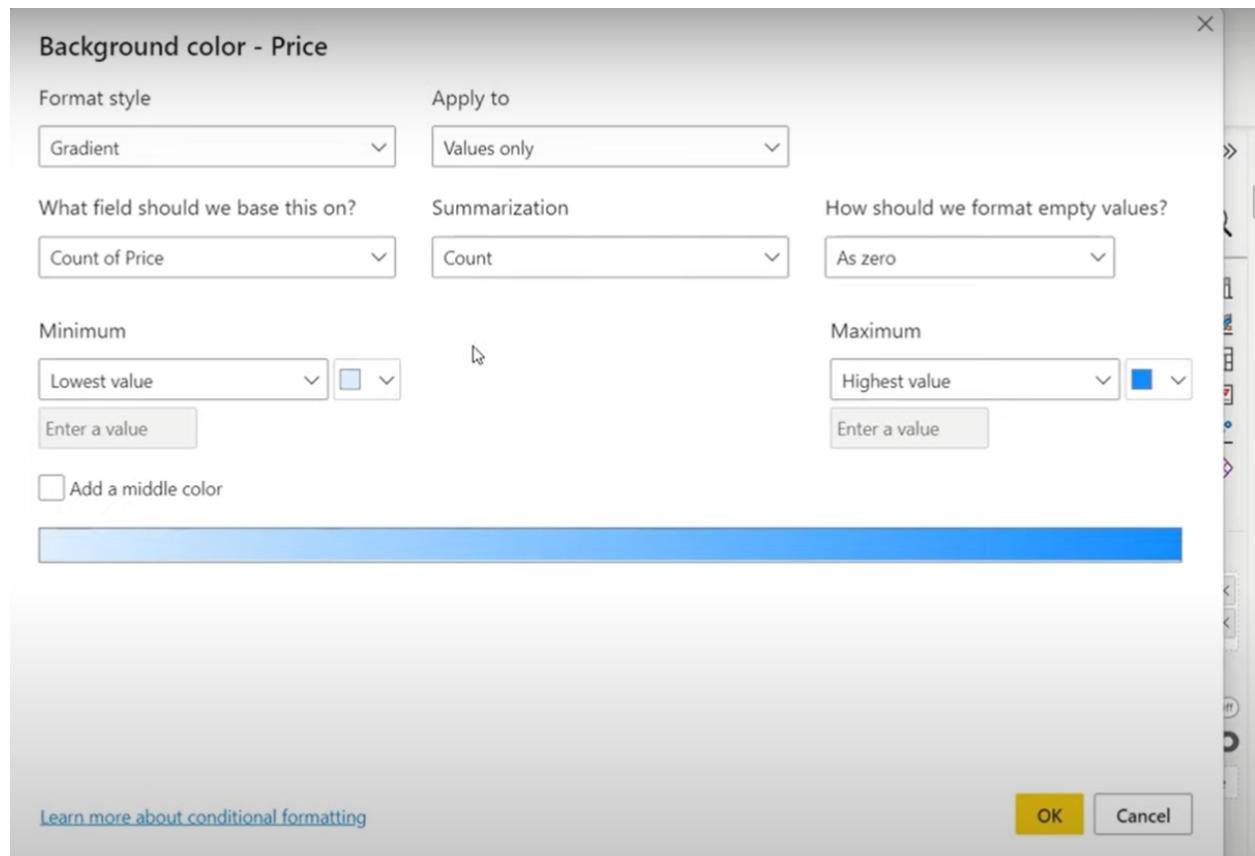
Drill through

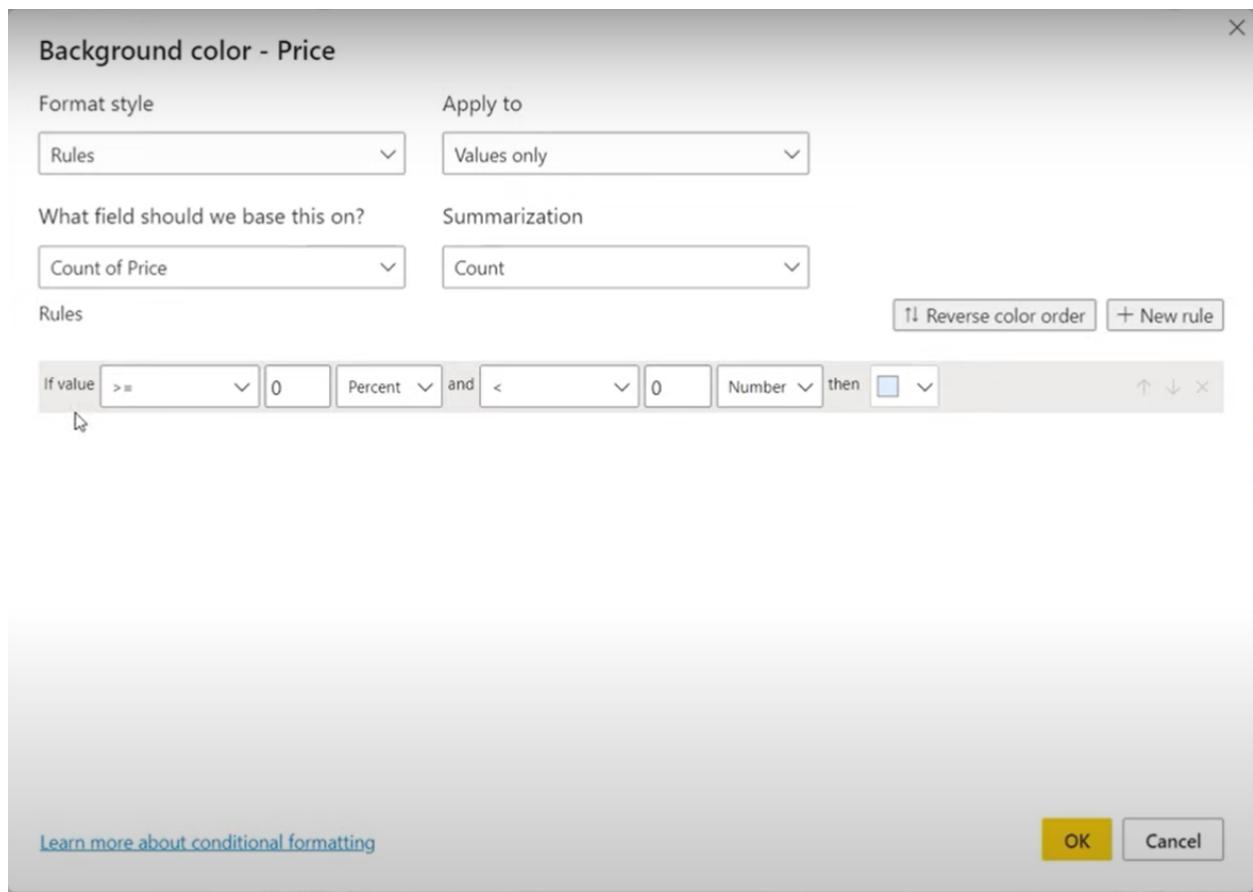
Cross-report (Off)

Keep all filters (On)

Add drill-through fields here

Alex





**Icons - Units Sold**

Format style      Apply to

Rules      Values only

What field should we base this on?      Summarization

Sum of Units Sold      Sum

Icon layout      Icon alignment      Style

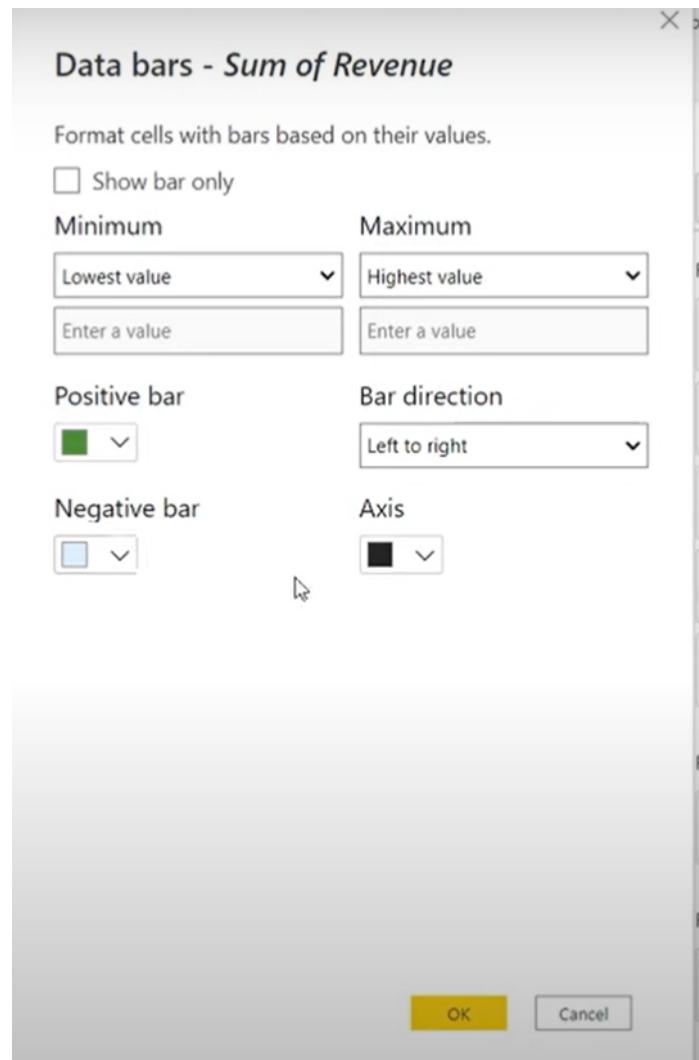
Left of data      Top        

Rules       

If value $\geq$ 0 Percent and < 33 Percent then 	  
If value $\geq$ 33 Percent and < 67 Percent then 	  
If value $\geq$ 67 Percent and $\leq$ 100 Percent then 	  

[Learn more about conditional formatting](#)

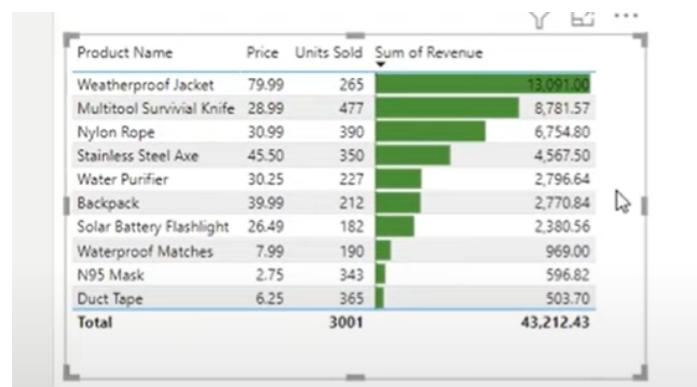


To which column ur applying select from it

The screenshot shows the Power BI desktop interface with three main panes:

- Filters** pane (left):
  - Search bar: Search
  - Filters on this visual:
    - Price is (All)
    - Product Name is (All)
    - Sum of Revenue is (All)
    - Units Sold is (All)
  - Add data fields here
  - Filters on this page:
    - Add data fields here
  - Filters on all pages:
    - Add data fields here
- Visualizations** pane (center):
  - Build visual: A grid of visualization icons.
  - Columns: Product Name, Price, Units Sold, Sum of Revenue.
  - Drill through, Cross-report, Keep all filters options.
  - Add drill-through fields here
- Fields** pane (right):
  - Search bar: Search
  - Apocalypse Sales:
    - Cust ID
    - Customer
    - Date Purchased
    - Order ID
    - Product ID
    - Units Sold
  - Apocalypse Store:
    - Price
    - Product ID
    - Product Name
    - Production Cost
    - Revenue
  - > Customer Information

like here example select from columns anything and left click and apply the necessary conditional formatting



How to use bins and lists:

## Groups

Name \*

Customer (List)

Field

Customer

Group type

List

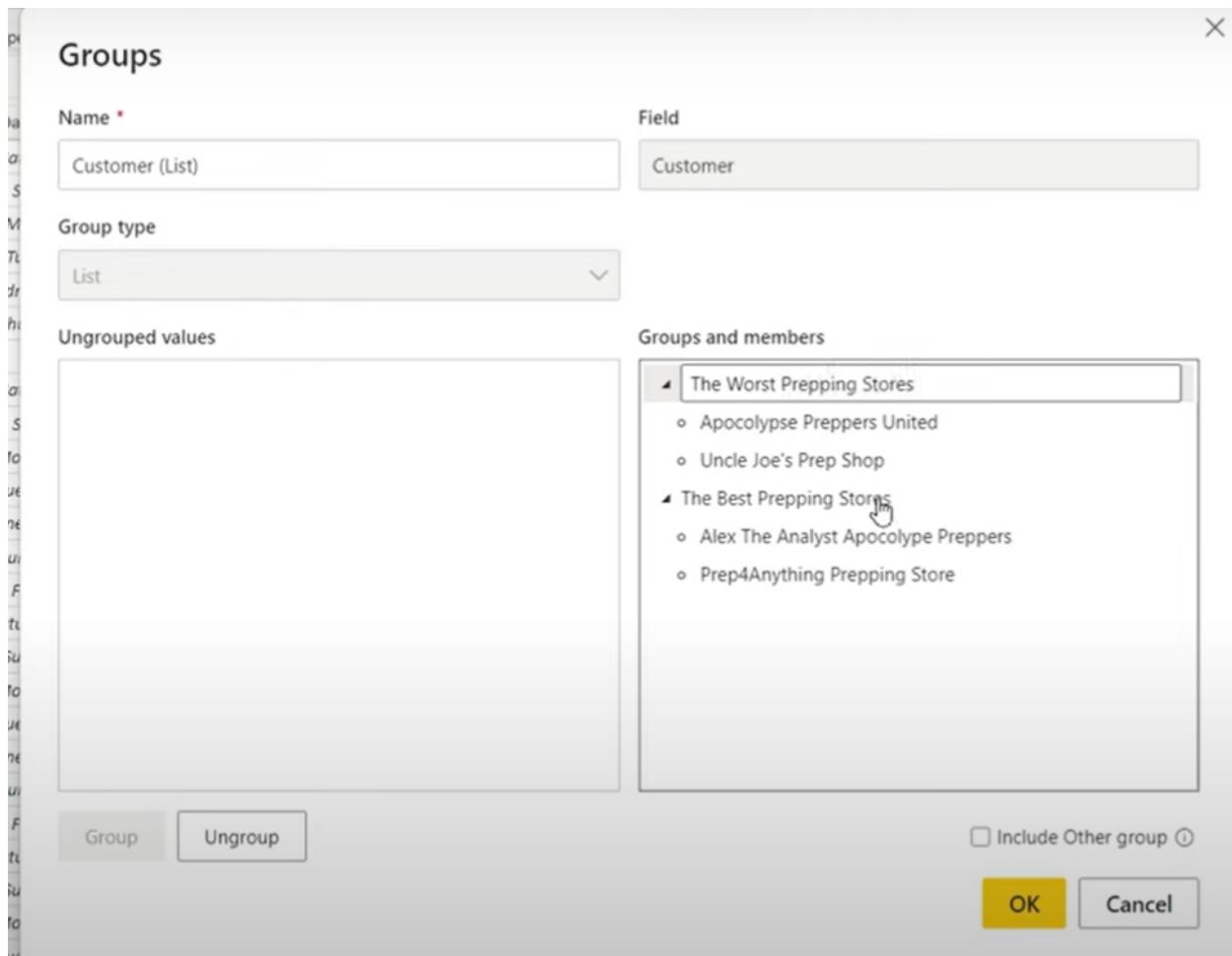
Ungrouped values

Apocalypse Preppers United

Uncle Joe's Prep Shop

Groups and members

- ▲ The Best Prepping Stores
  - Alex The Analyst Apocalypse Preppers
  - Prep4Anything Prepping Store



New group of customer(list) is created here

Cust ID	Customer	Product ID	Order ID	Units Sold	Date Purchased	Customer (List)
1234	Uncle Joe's Prep Shop	10006	1904	32	Saturday, January 1, 2022	The Worst Prepping Stores
9876	Alex The Analyst Apocolypse Preppers	10005	3966	68	Sunday, January 2, 2022	The Best Prepping Stores
2468	Apocolypse Preppers United	10004	7348	69	Monday, January 3, 2022	The Worst Prepping Stores
1357	Prep4Anything Prepping Store	10005	2409	48	Tuesday, January 4, 2022	The Best Prepping Stores
1234	Uncle Joe's Prep Shop	10010	2045	70	Wednesday, January 5, 2022	The Worst Prepping Stores
9876	Alex The Analyst Apocolypse Preppers	10008	9151	6	Thursday, January 6, 2022	The Best Prepping Stores
2468	Apocolypse Preppers United	10003	1065	59	Friday, January 7, 2022	The Worst Prepping Stores
1357	Prep4Anything Prepping Store	10003	3780	72	Saturday, January 8, 2022	The Best Prepping Stores
1234	Uncle Joe's Prep Shop	10001	1043	67	Sunday, January 9, 2022	The Worst Prepping Stores
9876	Alex The Analyst Apocolypse Preppers	10007	7075	7	Monday, January 10, 2022	The Best Prepping Stores
2468	Apocolypse Preppers United	10001	6778	23	Tuesday, January 11, 2022	The Worst Prepping Stores
1357	Prep4Anything Prepping Store	10008	3572	56	Wednesday, January 12, 2022	The Best Prepping Stores
1234	Uncle Joe's Prep Shop	10006	4033	51	Thursday, January 13, 2022	The Worst Prepping Stores
9876	Alex The Analyst Apocolypse Preppers	10005	2073	2	Friday, January 14, 2022	The Best Prepping Stores
2468	Apocolypse Preppers United	10010	7323	45	Saturday, January 15, 2022	The Worst Prepping Stores

## Bins for ages

**Groups**

Name *	Field
Age (bins)	Age
Group type	Bin type
Bin	Size of bins
Min value	Max value
18	79

Binning splits numeric or date/time data into equally sized groups. Enter bin size.

Bin size \*

Reset to default

OK Cancel

Buyer ID	Product ID Purchased	Total Purchased	State	Age	Customer ID	Age {bins}
115371	10003	396	TX	78	1234	70
110477	10010	12	MI	66	9876	60
158272	10002	112	TX	32	2468	30
182115	10009	454	FL	41	1357	40
183142	10005	102	NY	44	1234	40
189763	10007	68	NY	46	9876	40
133758	10010	496	DE	41	2468	40
133732	10009	956	DE	79	1357	70
109880	10009	218	MI	62	1234	60
165031	10008	677	IL	30	9876	30
159401	10006	62	DE	44	2468	40
152614	10007	893	IL	64	1357	60
187245	10009	42	FL	30	1234	30
129003	10007	597	NC	29	9876	20
175723	10006	977	NY	46	2468	40
157298	10006	40	MN	23	1357	20
167781	10009	423	DE	72	1234	70
135992	10010	315	IL	20	9876	20
132519	10002	759	NY	28	1234	20
194710	10004	926	MN	25	9876	20
150412	10009	561	MN	65	1234	60
139566	10003	321	MI	44	9876	40
173007	10004	740	MI	37	2468	30

71 72 73 will fall under 70

for dates

**Groups**

Name *	Field
Date Purchased (bins)	Date Purchased
Group type	Bin type
Bin	Size of bins
Min value	Max value
Saturday, January 01, 2022	Tuesday, March 15, 2022

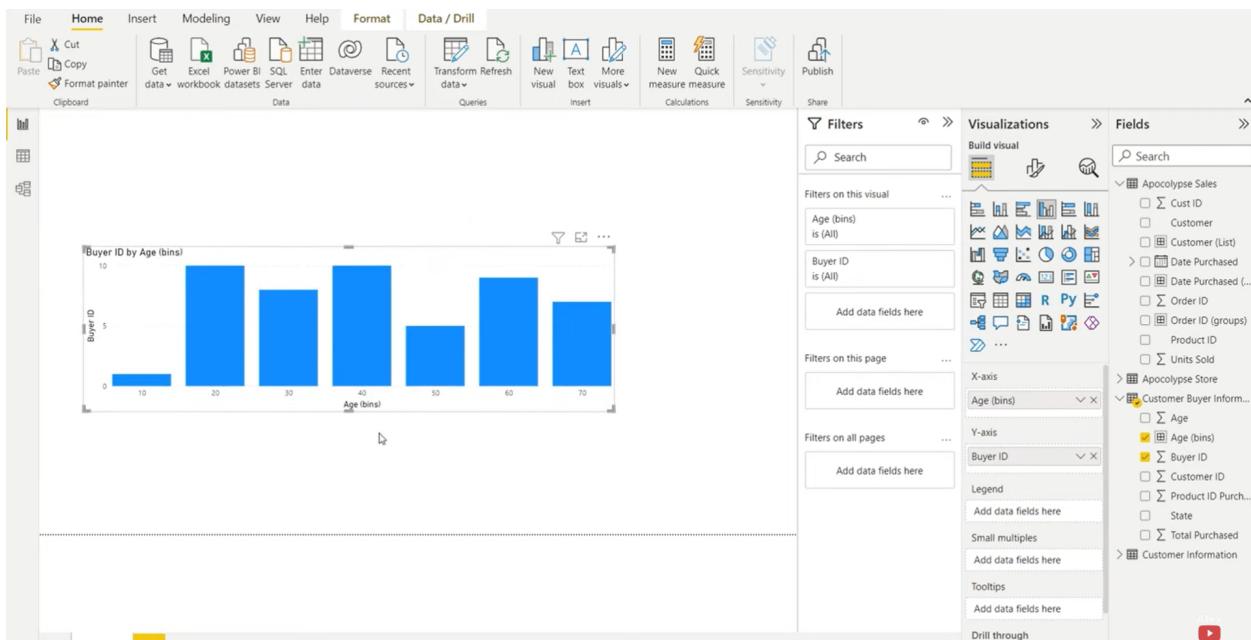
Binning splits numeric or date/time data into equally sized groups. Enter bin size.

Bin size

1 Months

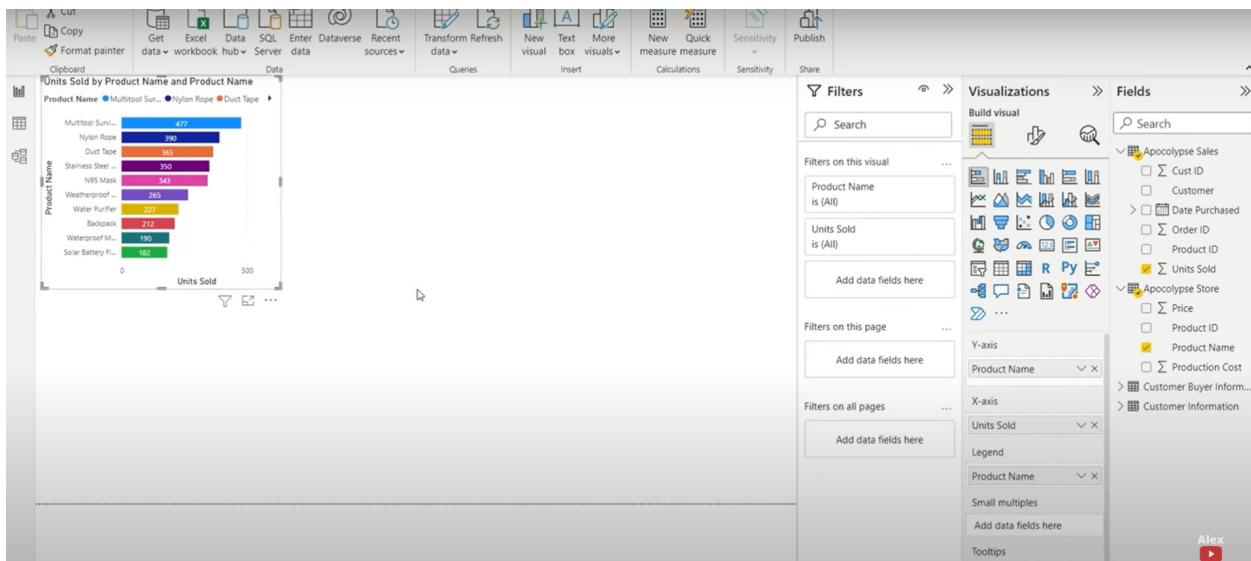
Reset to default

OK Cancel

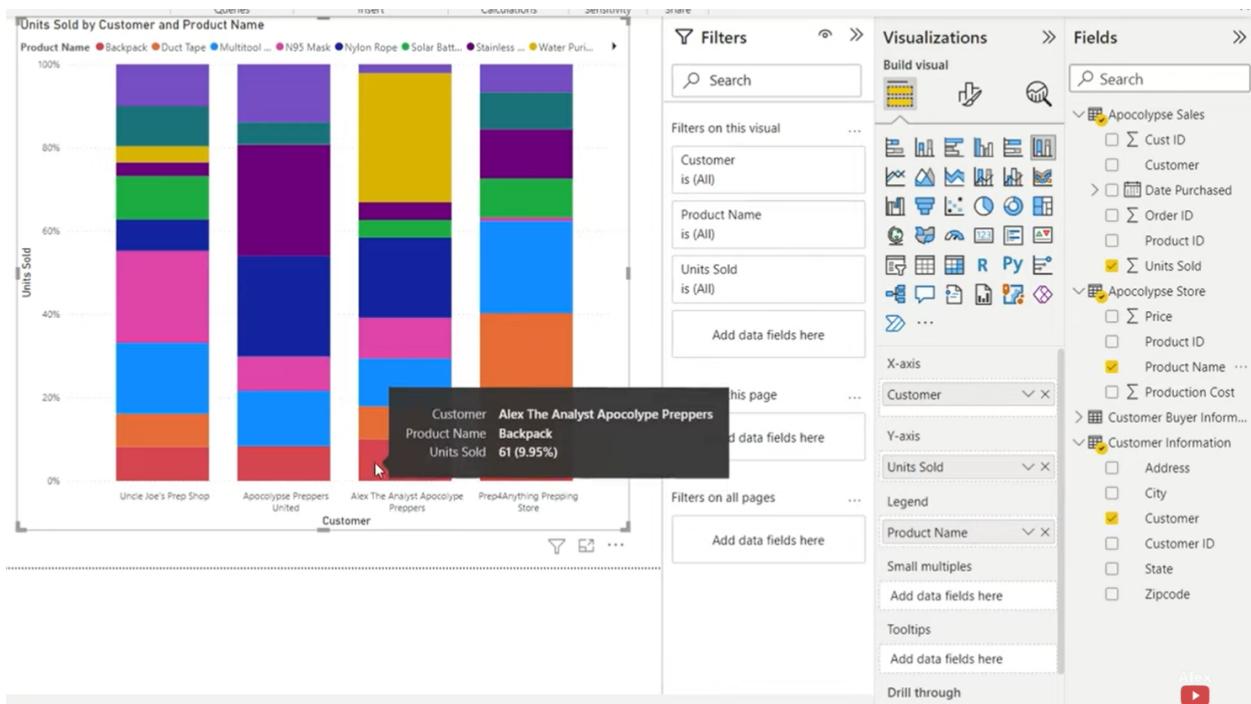


## Power Visualizations:

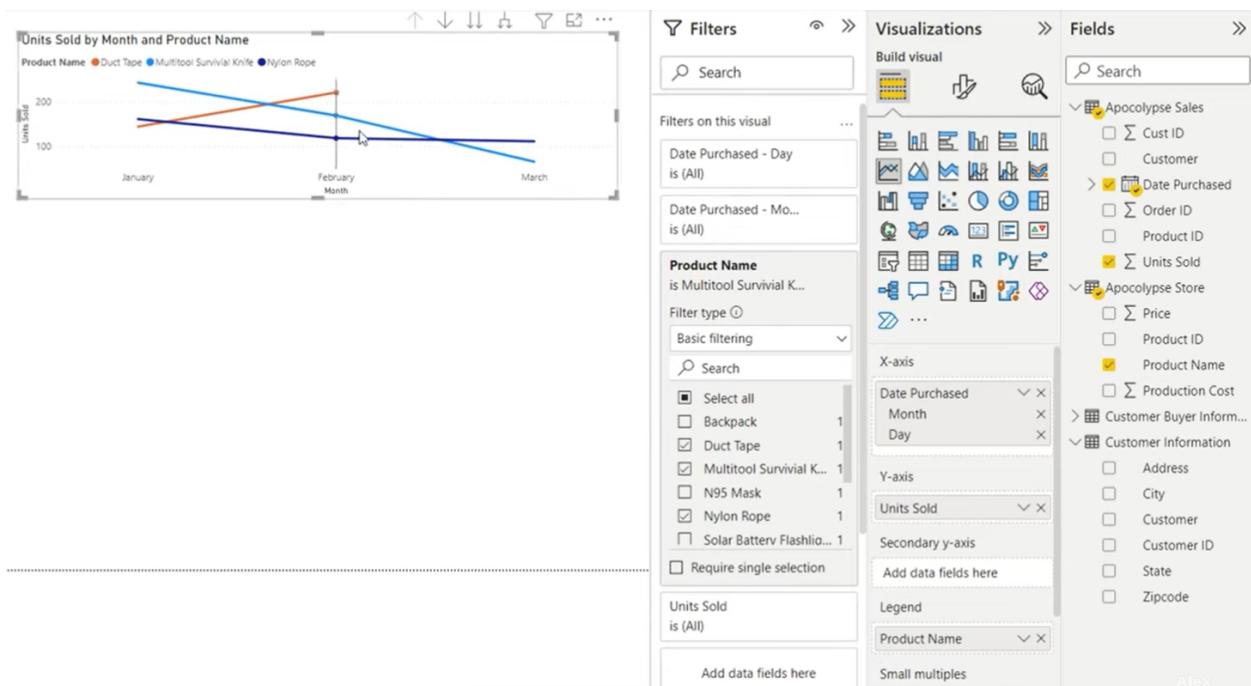
1.



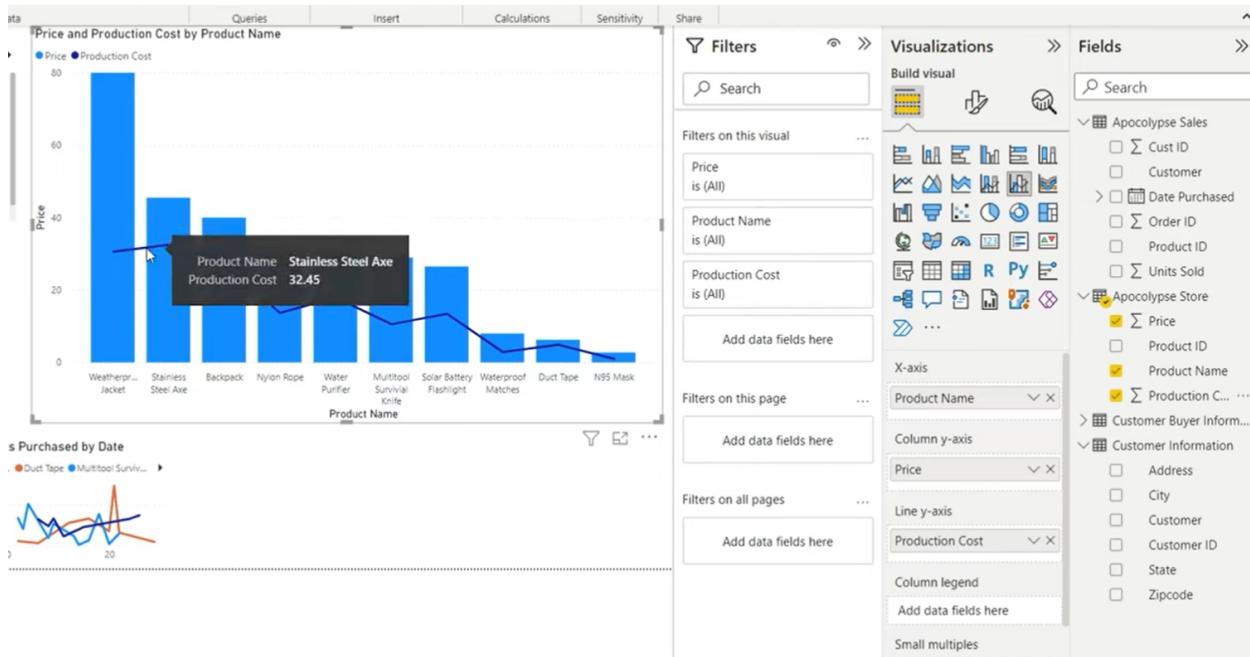
2.



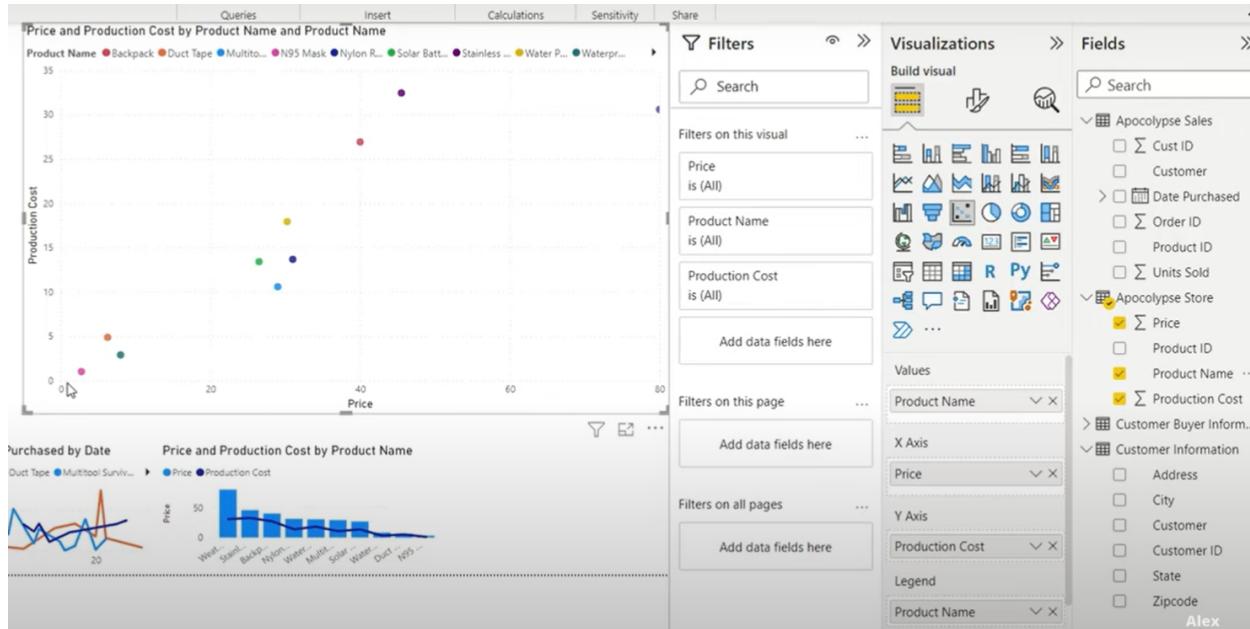
3.



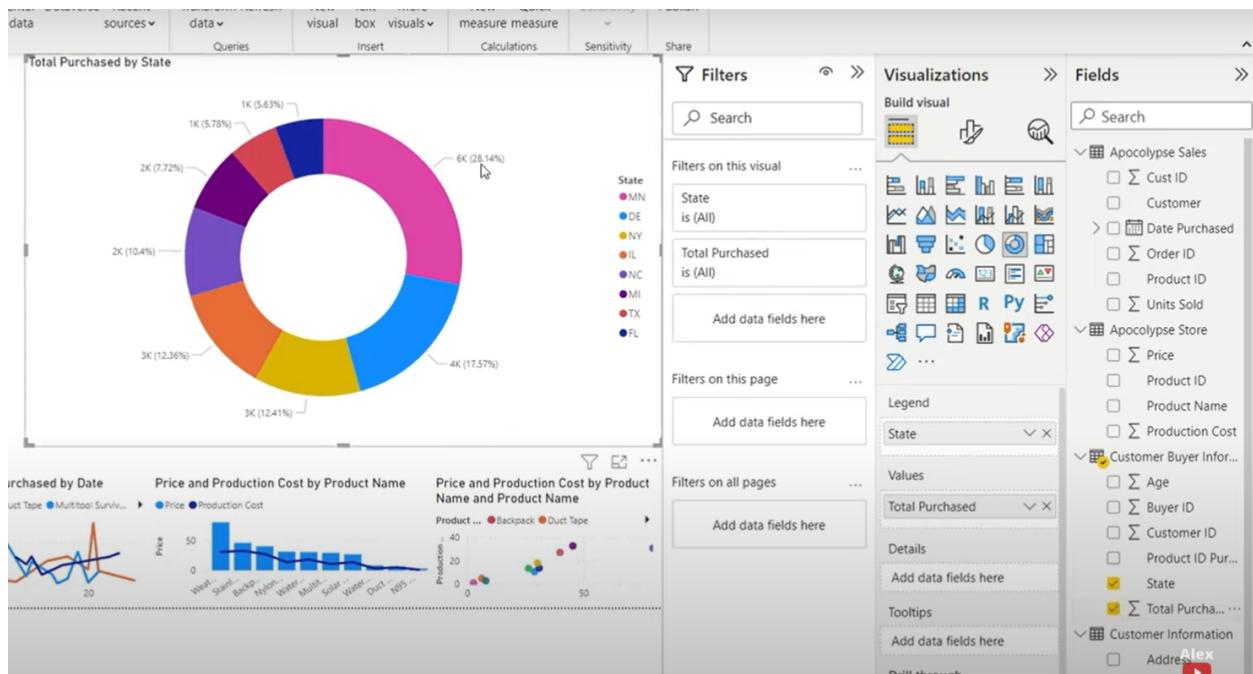
4.



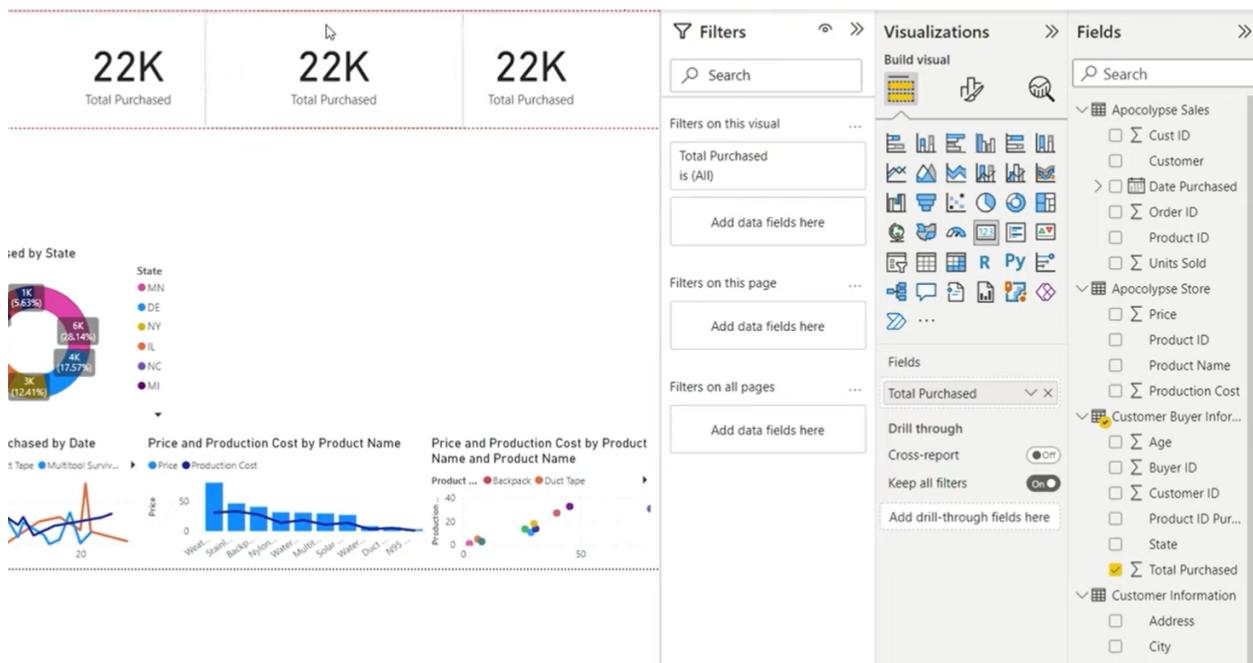
5.

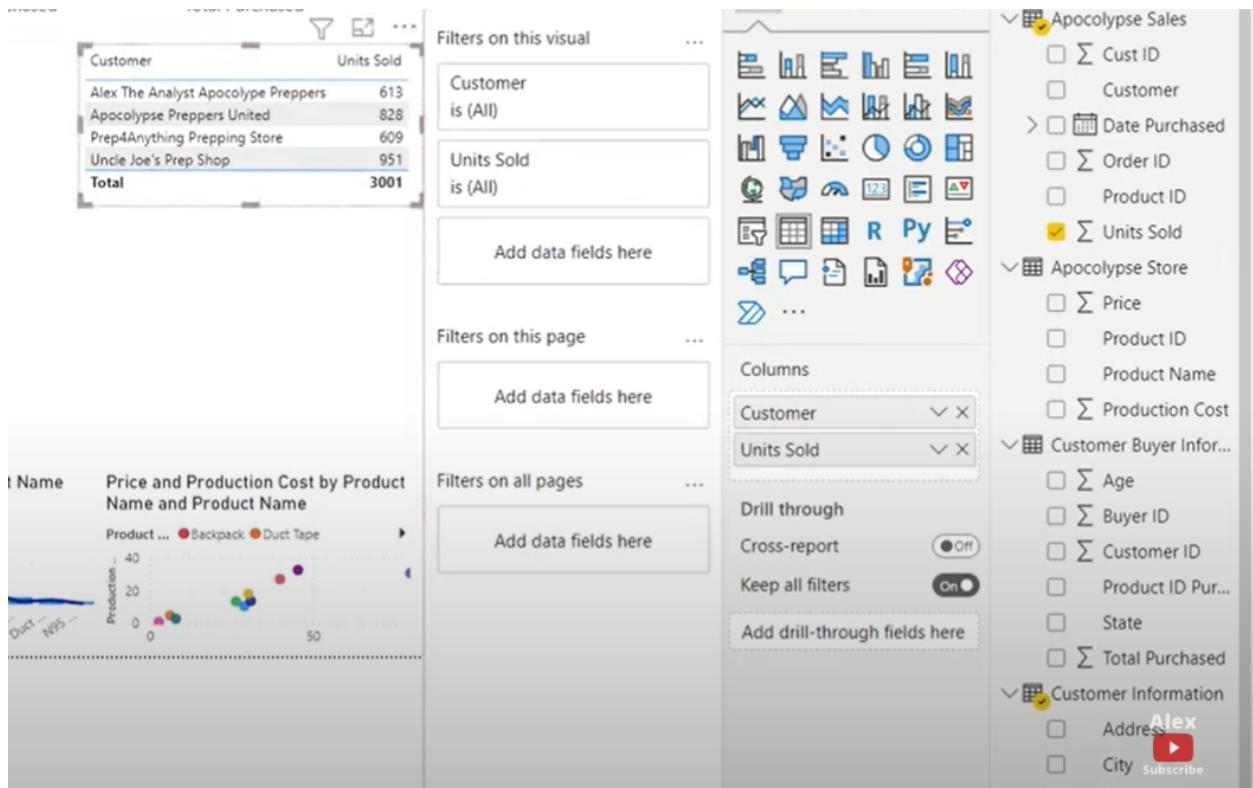


6.



we cant tell the size which is higher so it doesnt used general



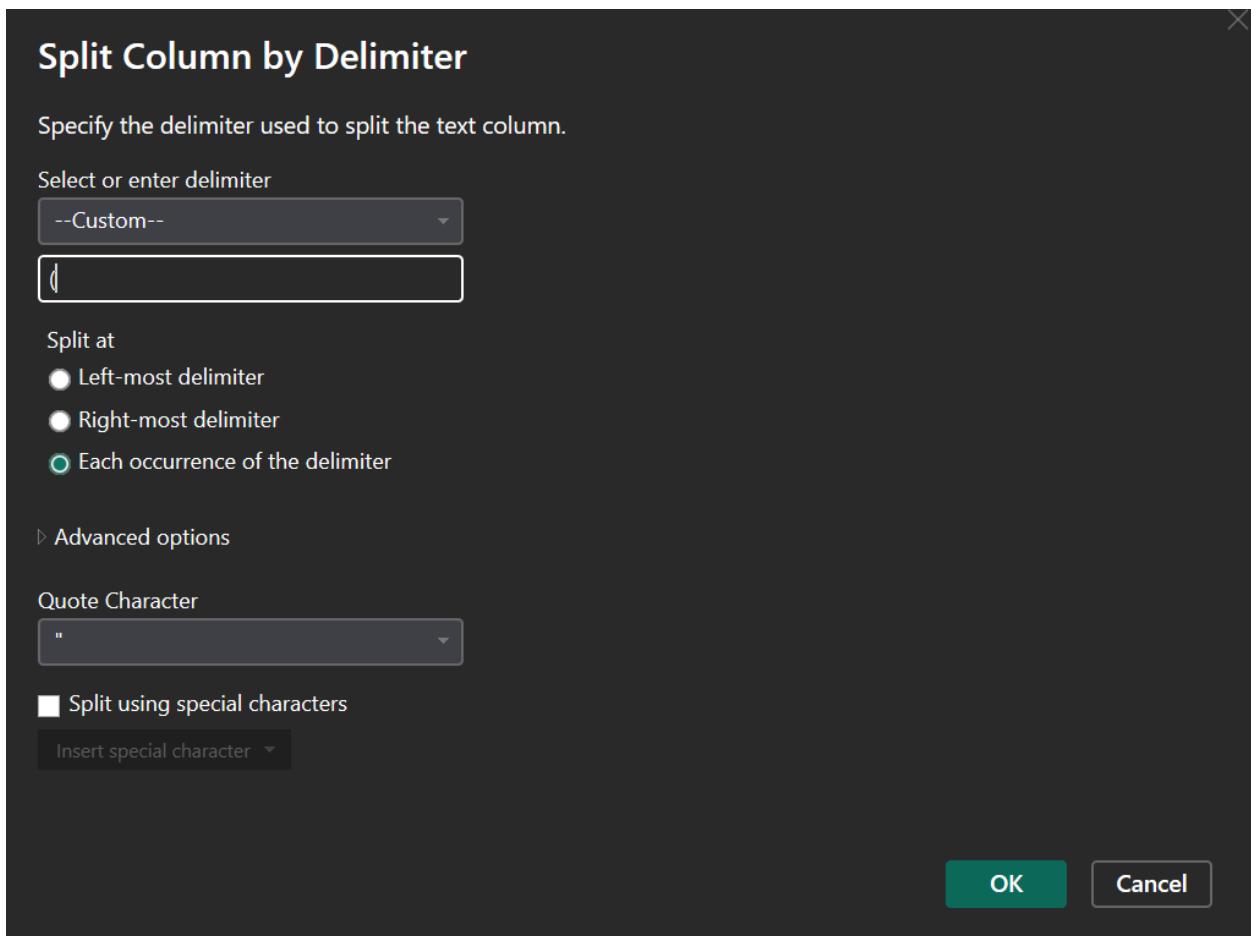


## Power BI Final Project:

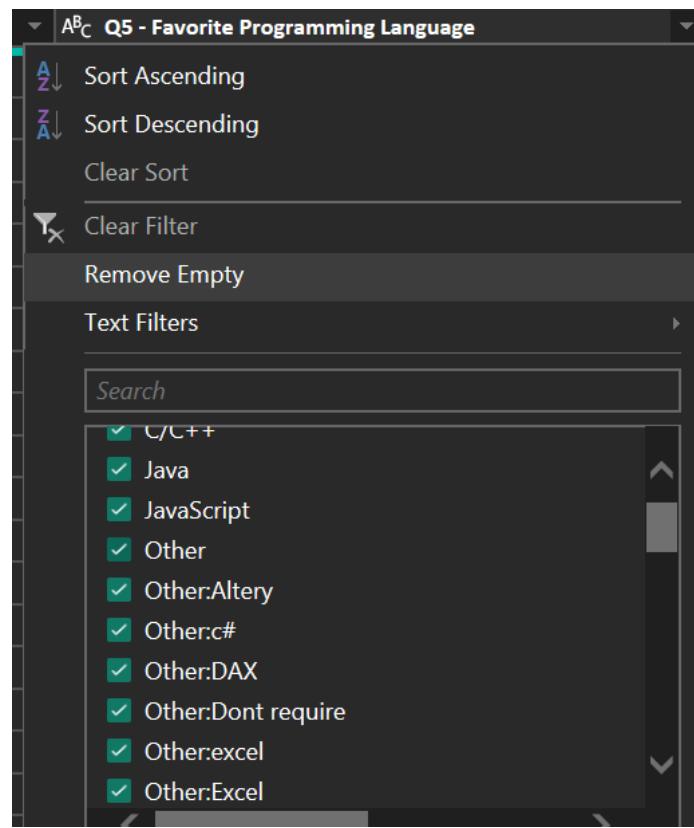
data → transform data

remove empty columns

for many job titles split column like this because other( specify) so other will come only once and remove the other column



to clean this



same split column but use : as delimiter and split and remove the other one

salary 100k-150k duplicate that column and now split column by digit to non digit and remove the last column and use replace by to modify

## Replace Values

Replace one value with another in the selected columns.

Value To Find

k

Replace With

▷ Advanced options

OK

Cancel

lian roots	0	-40
	0	40

to find avg salary

### Custom Column

Add a column that is computed from the other columns.

New column name

Average Salary

Custom column formula ⓘ

```
= ([#"Q3 - Current Yearly Salary (in USD) - Copy.1"]+[#"Q3 - Current Yearly Salary (in USD) - Copy.2"])/2
```

Available columns

Q9 - Male/Female?  
Q10 - Current Age  
Q11 - Which Country do you live in?  
Q12 - Highest Level of Education  
Q13 - Ethnicity  
Q3 - Current Yearly Salary (in USD)  
Q3 - Current Yearly Salary (in USD)

<< Insert

Learn about Power Query formulas

✓ No syntax errors have been detected.

OK Cancel

column should be numbers to get avg

then close and apply

The screenshot shows the Power Query Editor interface. The ribbon at the top has tabs for Home, Transform, Add Column, View, Tools, and Help. The Home tab is selected. In the ribbon, there is a 'Close & Apply' button. Below the ribbon, a message says 'Close the Query Editor window and apply any pending changes.' A dropdown menu labeled 'Parameters' is open. The main area shows a table titled 'Data Professional Survey' with two columns: 'Unique ID' and 'Email'. The data consists of five rows:

	Unique ID	Email
1	62a33b3db4da29969c62df3d	anonymous
2	62a33ba1bae91e4b8b82e35c	anonymous
3	62a33c2cbc6861bf3176bec1	anonymous
4	62a33c8624a26260273822f9	anonymous
5	62a33c91f3072dd892621e03	anonymous

title as dashboard after clicking it

The screenshot shows the Power BI desktop interface. The ribbon at the top has tabs for File, Home, Insert, Modeling, View, Optimize, Help, Format, and Data / Drill. The Home tab is selected. On the left, there are various data source icons like Excel, OneLake, and SQL Server. The main area shows a dashboard with a title 'DashBoard' highlighted with a pink background. The ribbon also shows the 'Format' tab is selected. The right side of the screen displays the 'Format' pane for the title, which includes sections for General, Title, Effects, Background, Color, and Transparency.

card → unique id → count

final dashboard

Untitled - Power BI Desktop

Search

File Home Insert Modeling View Optimize Help

Current theme (Highrise) Themes

Gridlines Snap to grid Lock objects

Page view Mobile layout Mobile Scale to fit

Show panes

**Survey Dashboard**

Average Salary by Role and Role

Role: Sales Rep, Other, Business, Data Analyst, Data Sci.

29.87

Average Age

420

Happy wrt salary

4.27

work life balance

5.74

Filters

Search

Filters on this page Add data fields here

Filters on all pages Add data fields here

Values

Add data fields here

Drill through

Cross-report (Off)

Keep all filters

Visualizations

Build visual

Data

Search

- Σ Q3 - Current Yearly Salary (in USD) - Copy.1
- Σ Q3 - Current Yearly Salary (in USD) - Copy.2
- Q4 - What Industry do you work in? 1
- Q5 - Favorite Programming Language.1
- Σ Q6 - How Happy are you in your Current Positio...
- Σ Q6 - How Happy are you in your Current Positio...
- Σ Q6 - How Happy are you in your Current Positio...
- Σ Q6 - How Happy are you in your Current Positio...
- Σ Q6 - How Happy are you in your Current Positio...
- Σ Q6 - How Happy are you in your Current Positio...
- Σ Q6 - How Happy are you in your Current Positio...
- Σ Q6 - How Happy are you in your Current Positio...
- Σ Q6 - How Happy are you in your Current Positio...
- Σ Q6 - How Happy are you in your Current Positio...
- Σ Q7 - How difficult was it for you to break into Da...
- Q8 - If you were to look for a new job today, wh...
- Q9 - Male/Female?
- Time Spent
- Time Taken (America/New\_York)
- Unique ID