





CRASH COURSE NOTES

BY SATISH DHAWALE





What is Power BI?

Microsoft Power BI is a Powerful Business Intelligence (BI) platform that provides nontechnical business users with tools for aggregating, analyzing, visualizing and sharing data. It is used to created interactive dashboards on any kind of Data Sets.

Users can download an application as POWER BI DESKTOP for their use and they can learn to create dashboard

Let's learn How to Download and Install Power BI





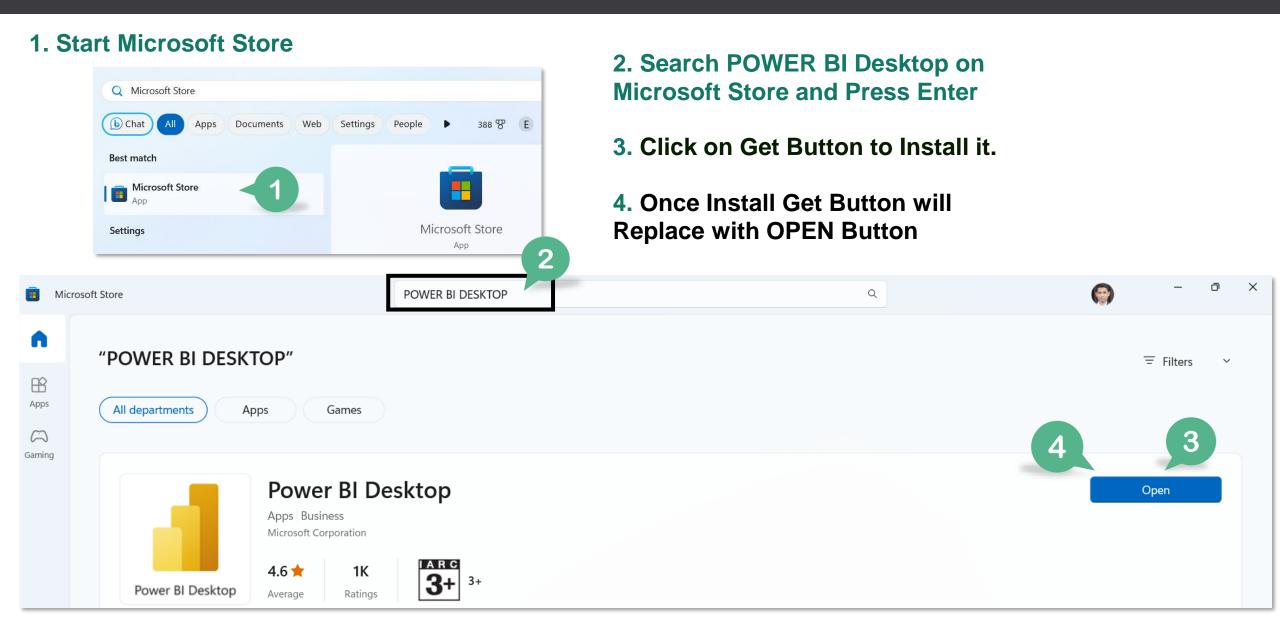
How to Download and Install Power BI?

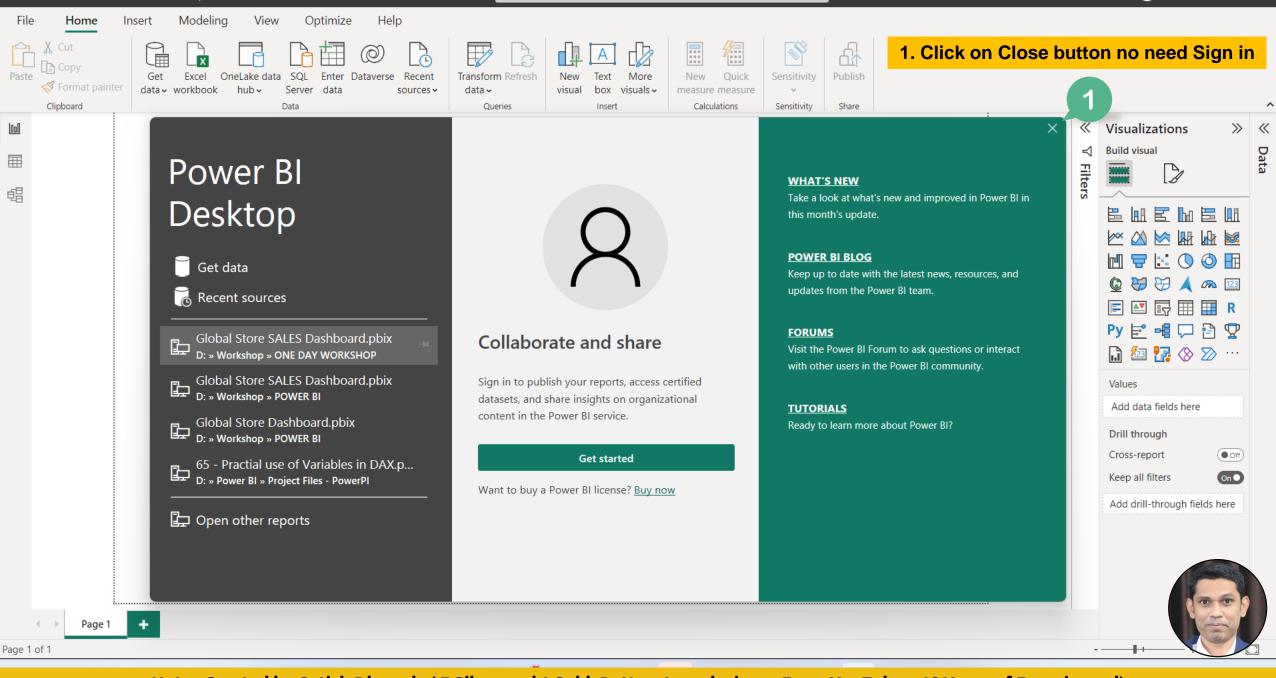
- 1 Start Microsoft store in Your Computer / Laptop
- 2 Search Power BI Desktop
- 3 Click on GET button, now POWER BI will get installed in your system
- 4 Now Click on Open to Start POWER BI

For Reference you can check next page screenshot....



Download and Install Power BI

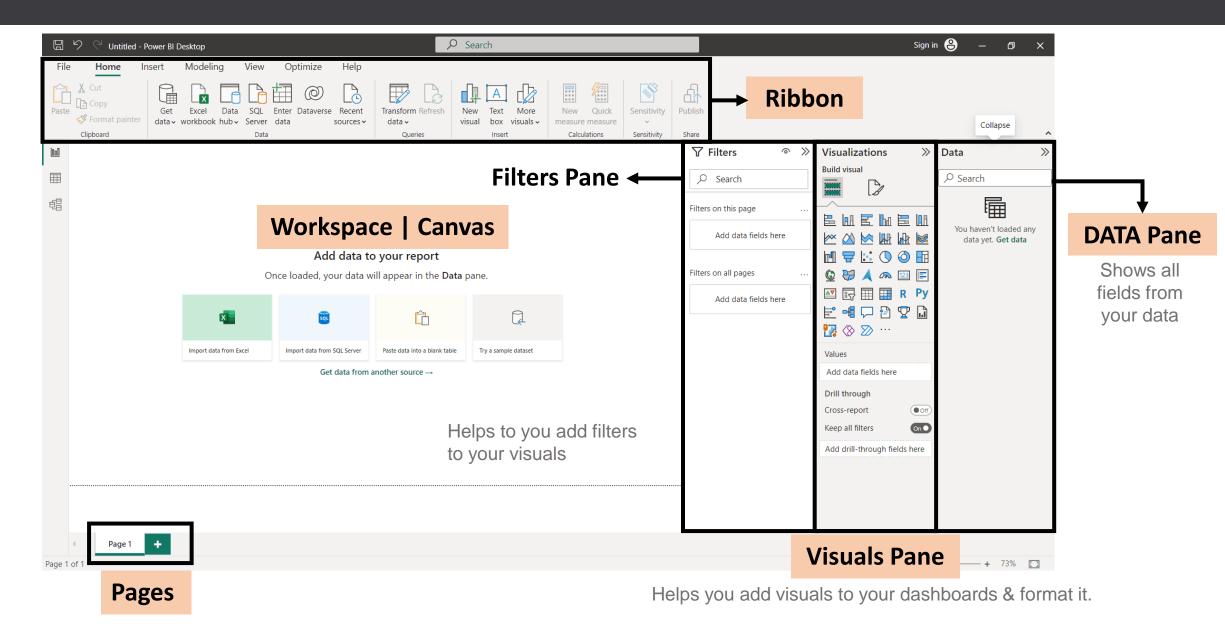




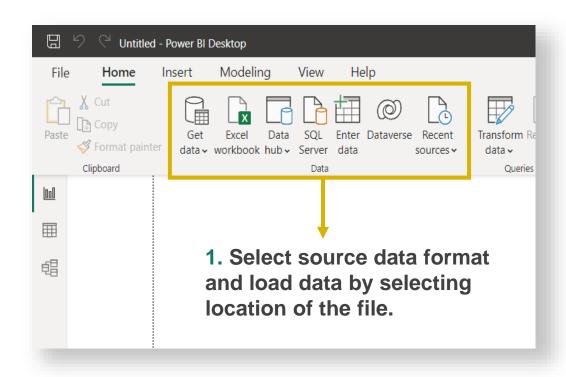
∠ Search

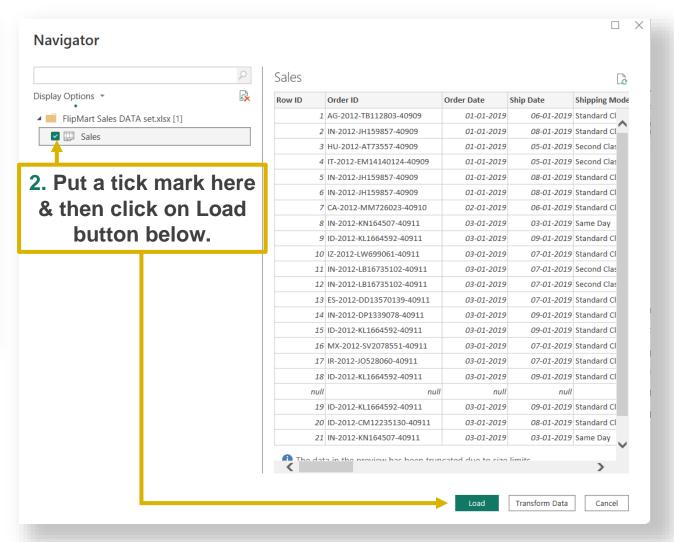
Untitled - Power BI Desktop

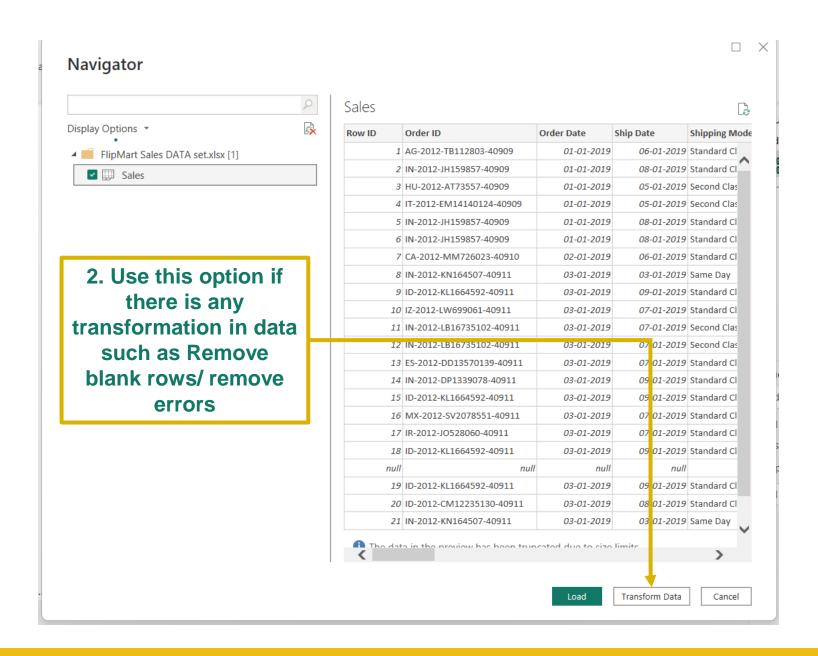
Power Bl Interface - Explained

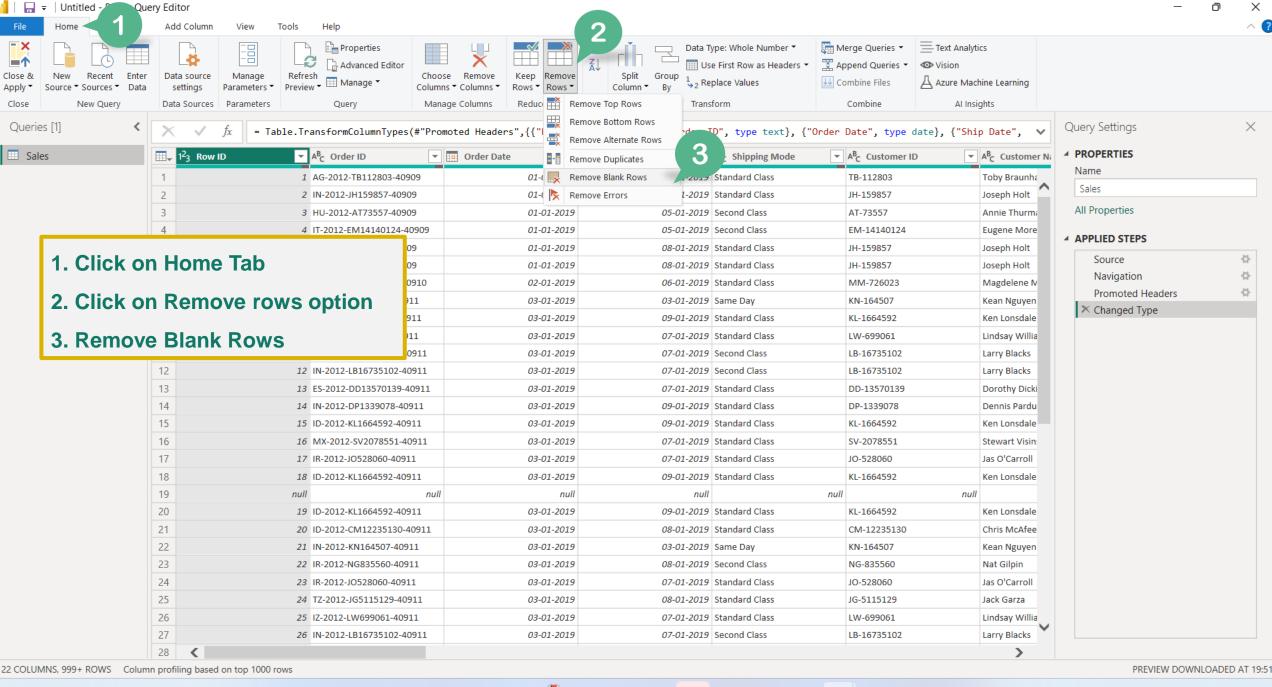


Loading your data























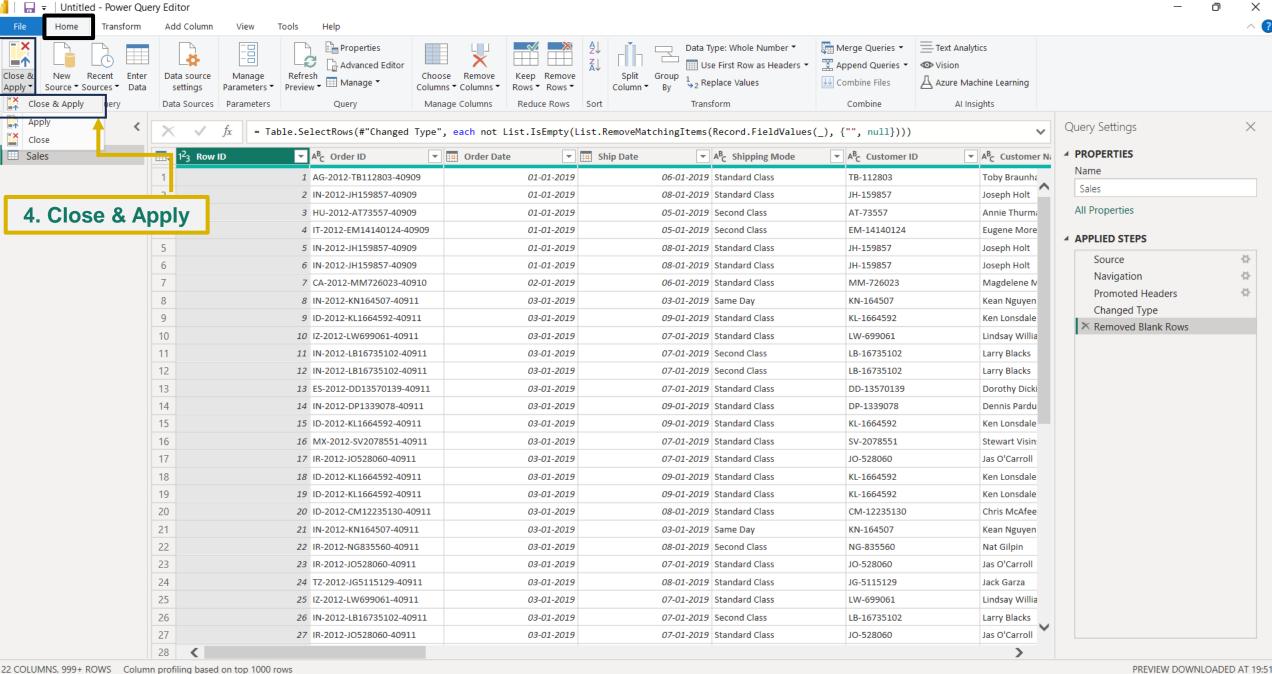




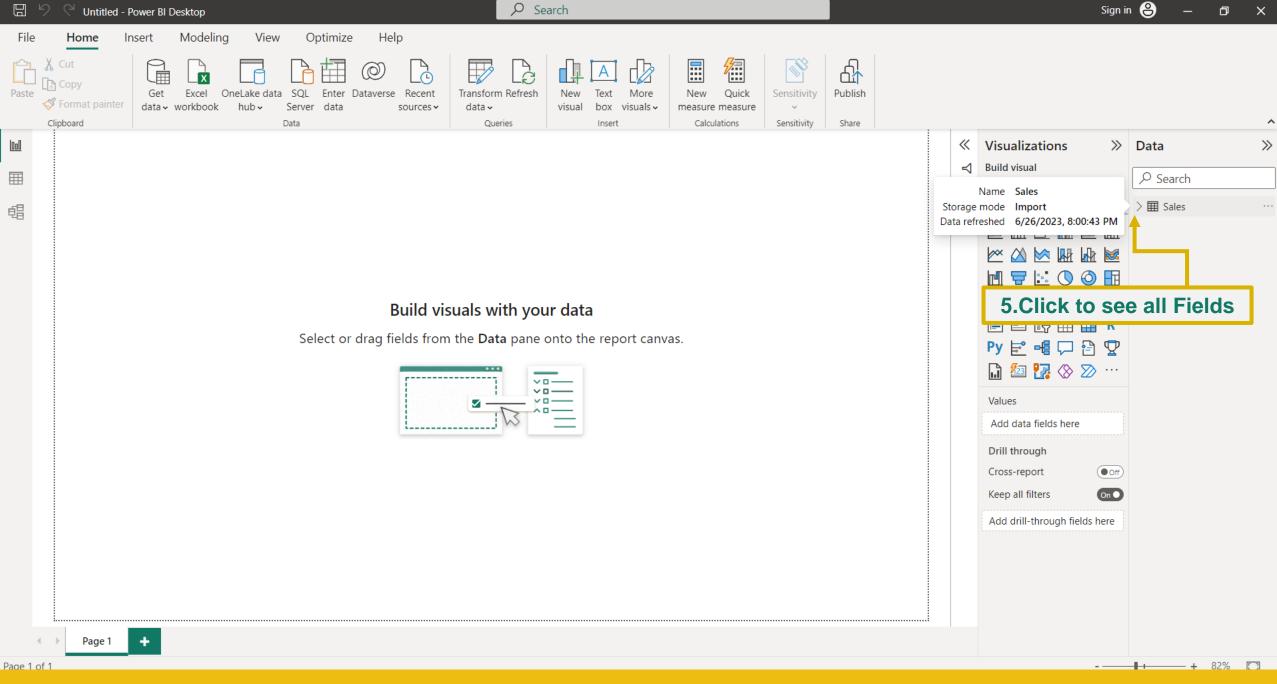




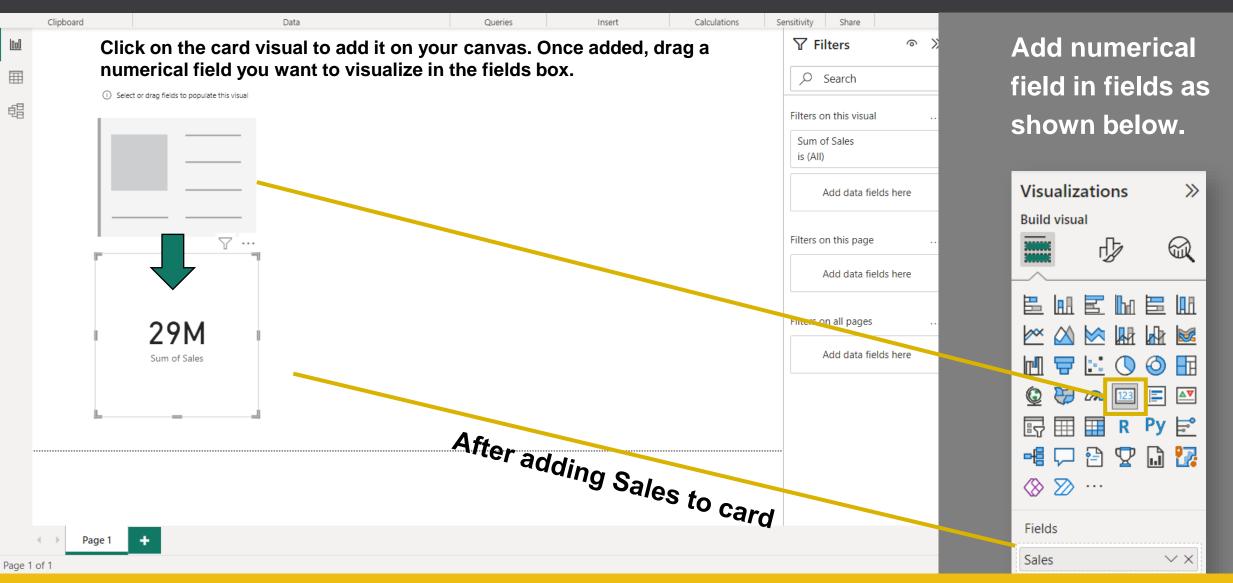




T proming based on top 1000 Tows



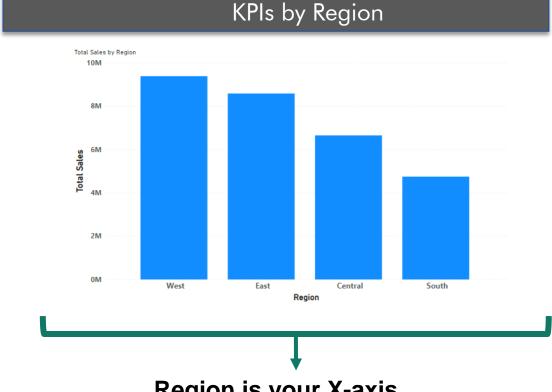
Creating a card



Creating a Column Chart - X-axis & Y-axis

Total Sales is your Y-axis

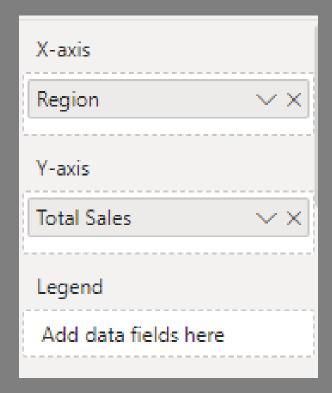
Adding numerical metric as Y-axis helps the user understand the extent of it by the column height.



Region is your X-axis

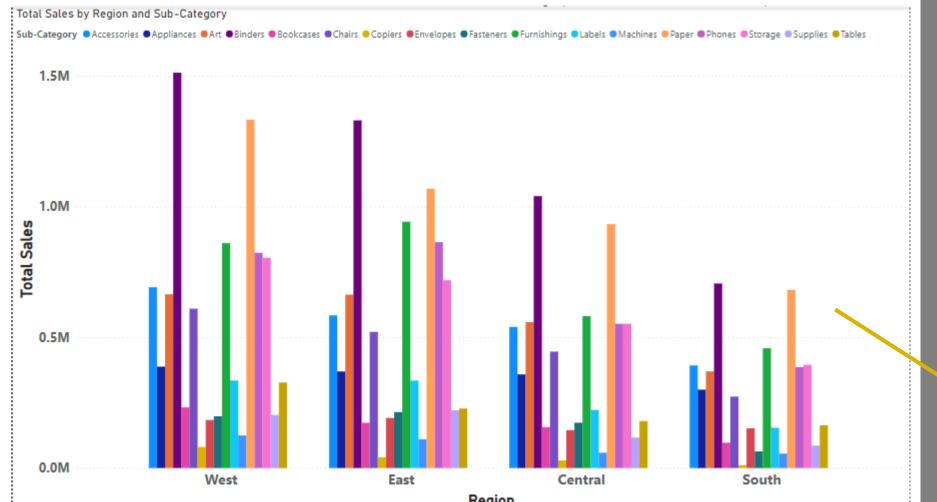
Add the text based field that you want to see in the X-axis. As we are using a column chart, numerical metrics like sales, profit etc., will become Y-axis as we want the column HEIGHT to show the extent of that metric.

Add fields in X & Y Axis as shown below.



Creating a Column Chart - Legend

Legend further divides your visual into different colors by adding a second level of breakdown.

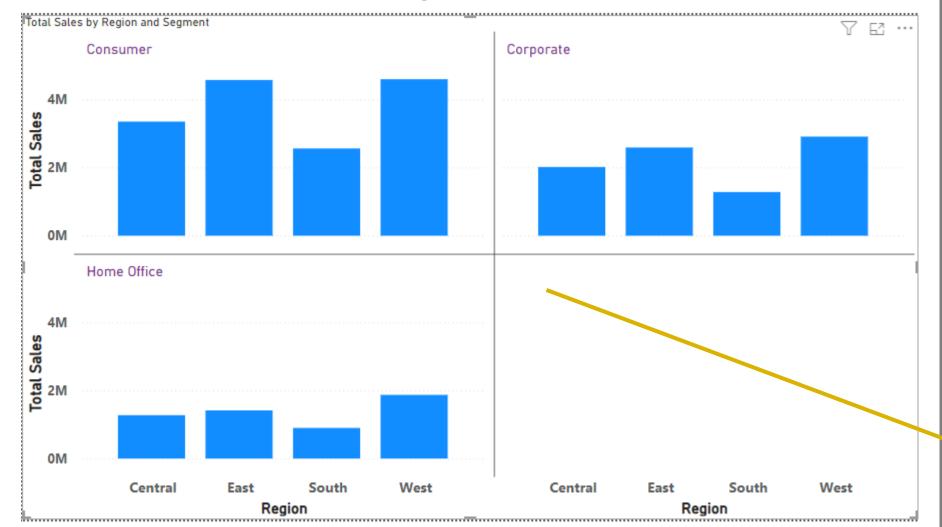


Add fields in Legend as shown below.

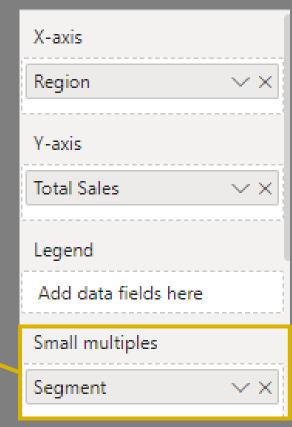
X-axis	
Region	V×
Y-axis	
Total Sales	V×
Legend	
Sub-Category	V×

Creating a Column Chart – SMALL MUTIPLES

Using Small Multiples, you can divide Regions into separate Charts acc to Segment



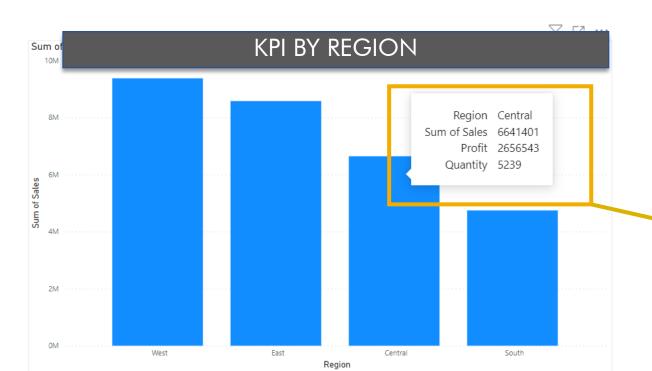
Add fields in Tooltips as shown below.



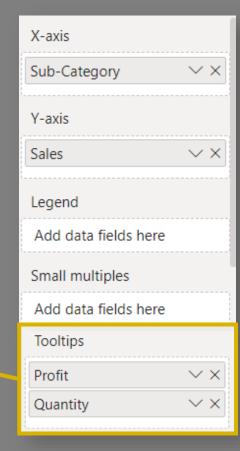
Creating a Column Chart - Tooltips

Any metric (numerical field) that you add in Tooltips will be visible to you when you hover over different elements of the visual.

For ex- After adding Profit to tooltips, whenever user hovers over ANY column of the column chart, they will see profit of that subcategory along with the Sales amount as well. Profit amount will only be visible as a value in the hover box and not as an additional column in the chart.

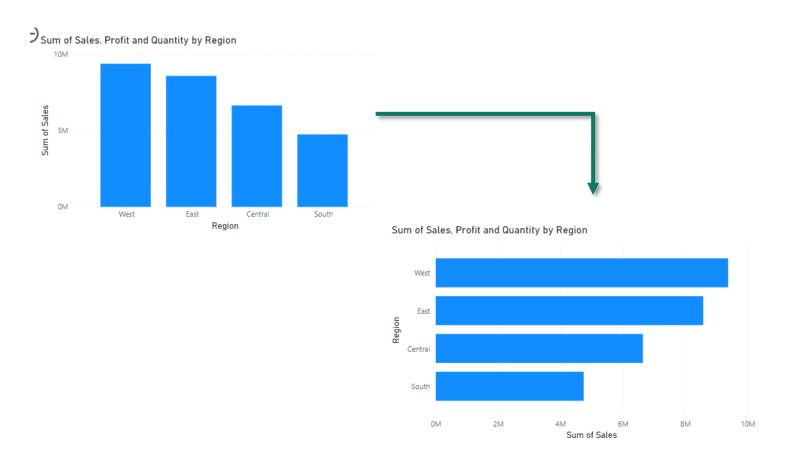


Add fields in Tooltips as shown below.

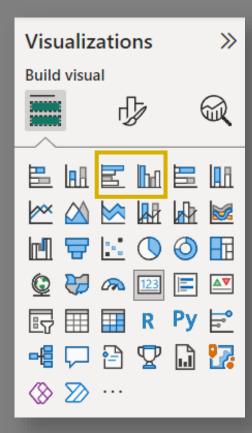


Creating a Bar Chart from a Column Chart

To create a Bar Chart, all you have to do is create a Column Chart & then click on Bar Chart icon in Visualization Pane to convert it to a Bar Chart.



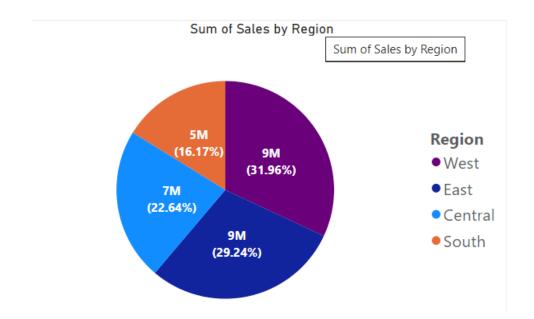
Switch from right icon to left icon.



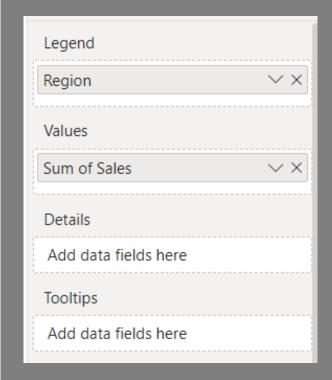
Creating a Pie Chart

To create a Pie Chart, all you have to add your Region in Legend and Sales in Values

By doing the above you will get one line showing trend of the numerical field over your date range. If you want to break it into multiple lines based on another field, such as Shipping Mode, add it to the legend as shown below.



Once completed, this is how your inputs will look like.

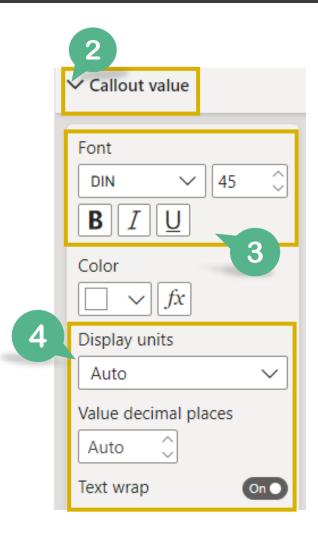


FAQ: How to Font color & Size of the Cards

(or any other visual)

1. Select the visual by clicking on it.





2. Click on the Format Visual icon under the Visualizations Pane and Click on Callout Value

3. Click on Font Tab and change the styles

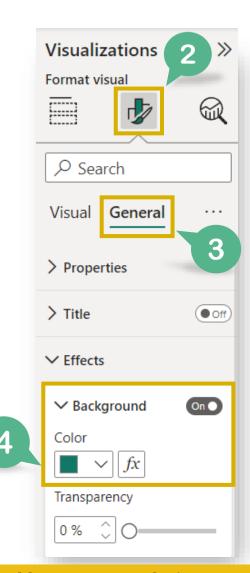
4. Go To Display units and change the Unit

FAQ: How to change background of a Card

(or any other visual)

1. Select the visual by clicking on it.





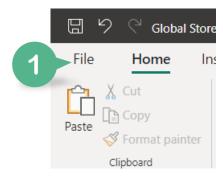
2. Click on the Format Visual icon under the Visualizations Pane.

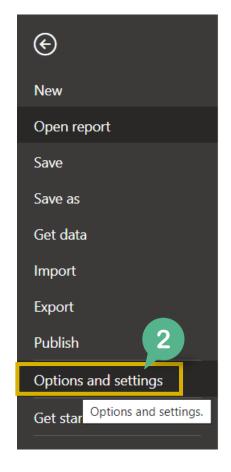
3. Click on the General Tab

4. Go to "Background" under the Effects Section & Change the color by clicking on color icon.

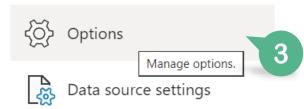
Add MAP Visual

1. Click on File Menu.





Options and settings



2. Click on Options and settings

- 3. Then Click on Options
- 4. Click on Security Options and Click on ...

Options

Report settings

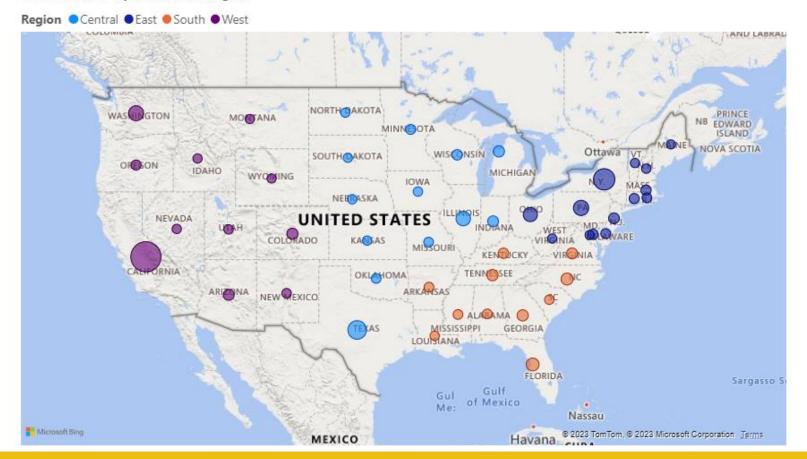
Native Database Queries GLOBAL Require user approval for new native database queries Data Load Power Query Editor **Certificate Revocation** ① DirectQuery O Comprehensive check (i) R scripting Basic check (i) Python scripting ○ None (i) Security Learn more about certificate revocation Privacy 4 Regional Settings Web Preview Warning Level ① Updates Moderate ▼ Usage Data Diagnostics **Data Extensions** Preview features Auto recovery (Recommended) Only allow Microsoft certified and other trusted third-party extensions to load (Not Recommended) Allow any extension to load without validation or warning Report settings Learn more about data extensions CURRENT FILE Data Load **Custom visuals** Regional Settings Show security warning when adding a custom visual to a report Privacy ArcGIS for Power BI Auto recovery Published dataset settings Use ArcGIS for Power BI Query reduction Map and Filled Map visuals

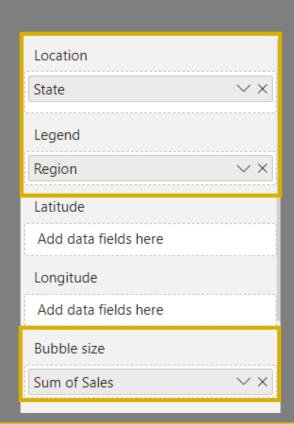
Check this option Use Map and Filed Map Visuals

Creating Map Chart

To create a Map Chart, all you have to do is add your State/City/Country Field in Location and Sales into Bubble size if you want show it Region wise Colored then add Region as a legend

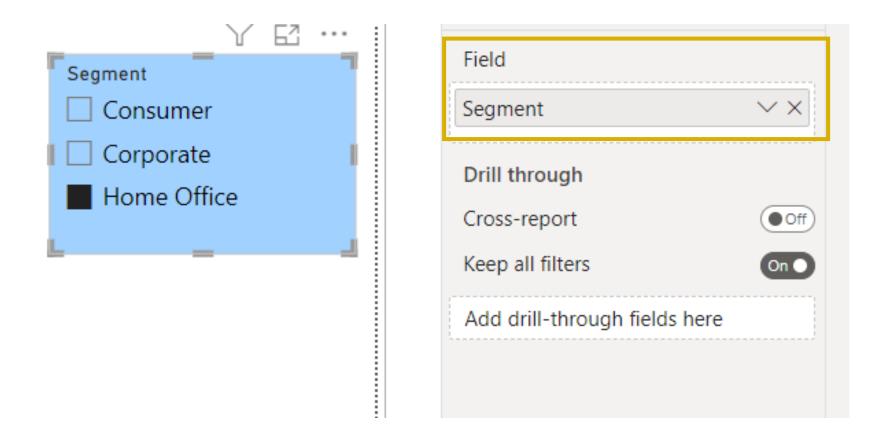
Sum of Sales by State and Region





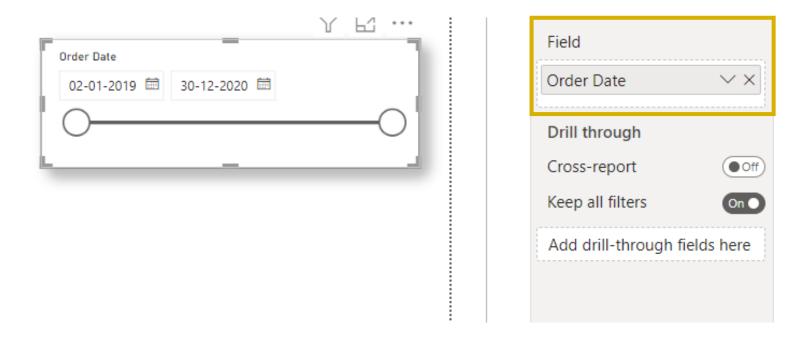
Creating Slicer

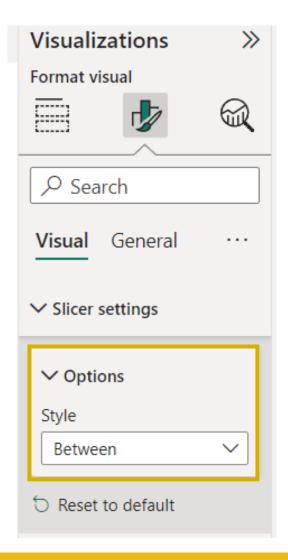
To create a Slicers, all you have to do is add Segment / Region / Country / City / State etc. inside field



Creating date Slider

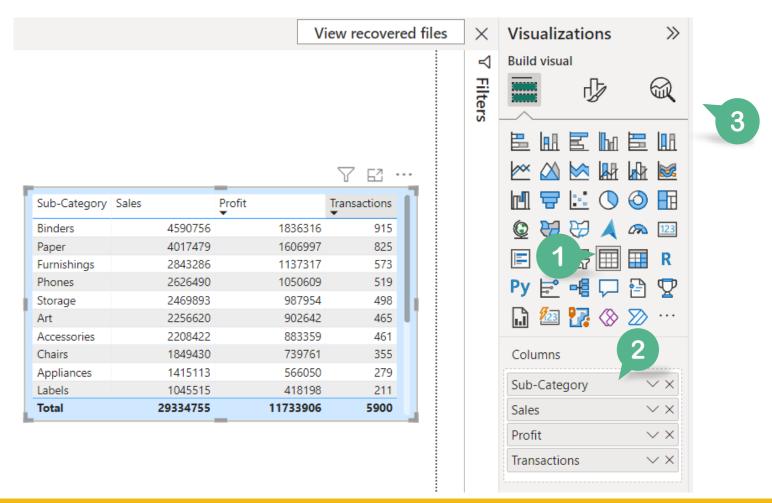
To create a Date Slicers, all have to do is add Order Date inside field section. Then change the formatting from format visuals – Slicer Settings – Options - style – Between





FAQ: How to add Table Visuals

1. Add Table visual by clicking on it.

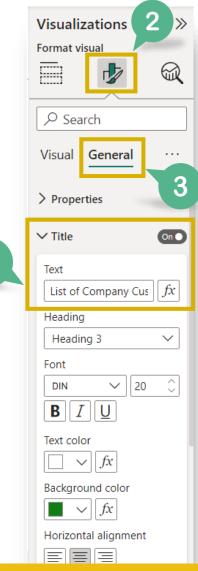


2. Add Fields like, Sub – Category, Sales, Profit, Transactions etc.

FAQ: How to add / change title of a visual

1. Select the visual by clicking on it.





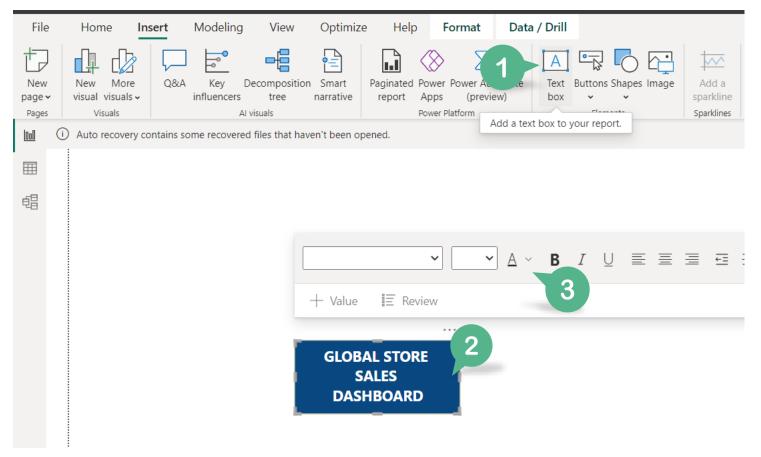
- 2. Click on the Format Visual icon under the Visualizations Pane.
- 3. Click on the General Tab

4. Enable title & add your title under "Text"

Tip: You can further format title by adding background, changing font style, etc., by using the options below "text".

FAQ: How to add Text Box in Visual

1. Click on Insert tab – Click on Text Box



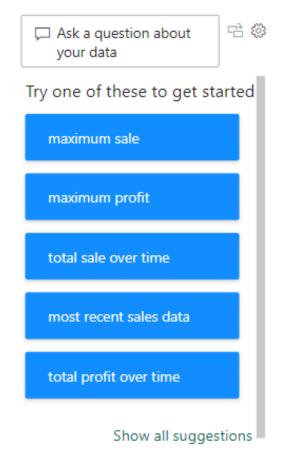
2. Click inside text box type text

3. Click to apply text color and formatting

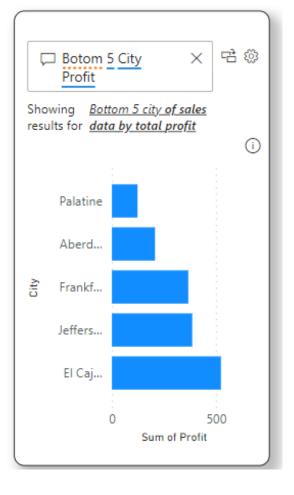
4. Format Pane allow you to change background color and other formatting for text box

Al in Power Bl

To use Al Features of Power BI – Just double click on canvas blank area – you will get Ask a questions about your data option, now type your question there like shown in image.2 & 3.

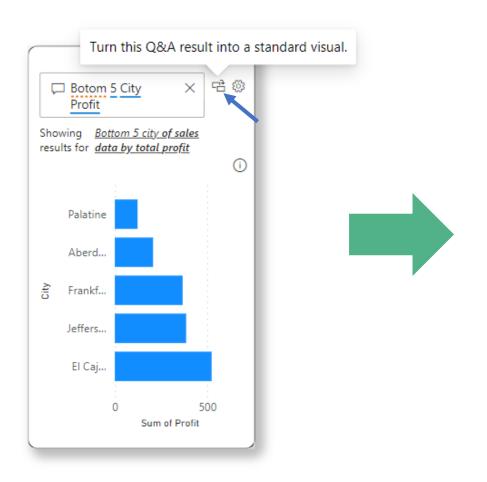


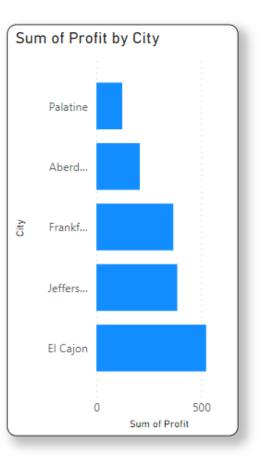




Al in Power Bl

To Turn this Q& A result into a Standard Visual your need to click on this option





Refresh Dashboard to Get update Records

1. Click on Home Tab

2. Click on Refresh Dashboard

