Chapter 6
Advanced POWER BI

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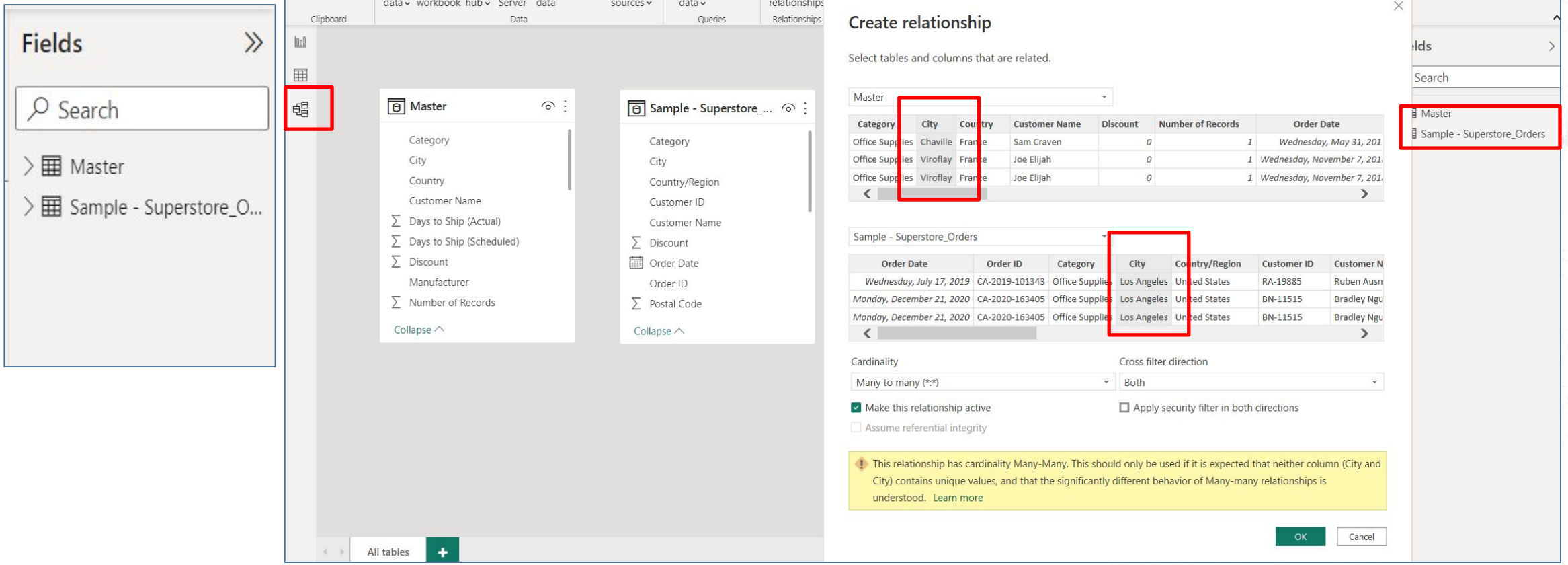
POWER BI: Connecting two datasets

*You can load and connect two data sources in POWER BI. Once you load, you should be able to see the names of the table under **FIELDS** panel. In **MODEL** view, you can choose to connect two data sources. In below snap, two data sources are being connected wit respect to **CITY***



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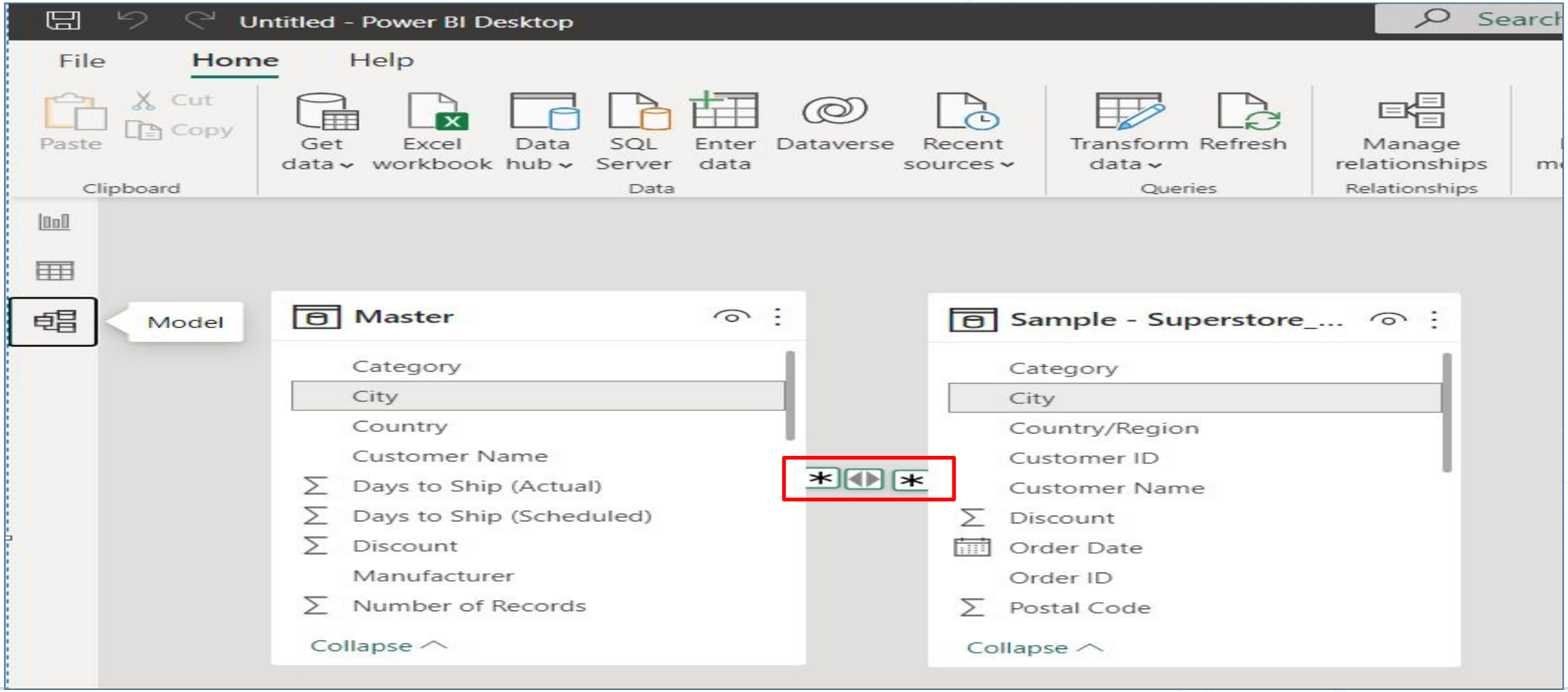
POWER BI: Connecting two datasets

Once tables are connected, they will show a connecting line using arrows and snowflake icon. Arrows show if the connection is two way. Snowflake icon shows, connection can use information of many columns against CITY through both databases.



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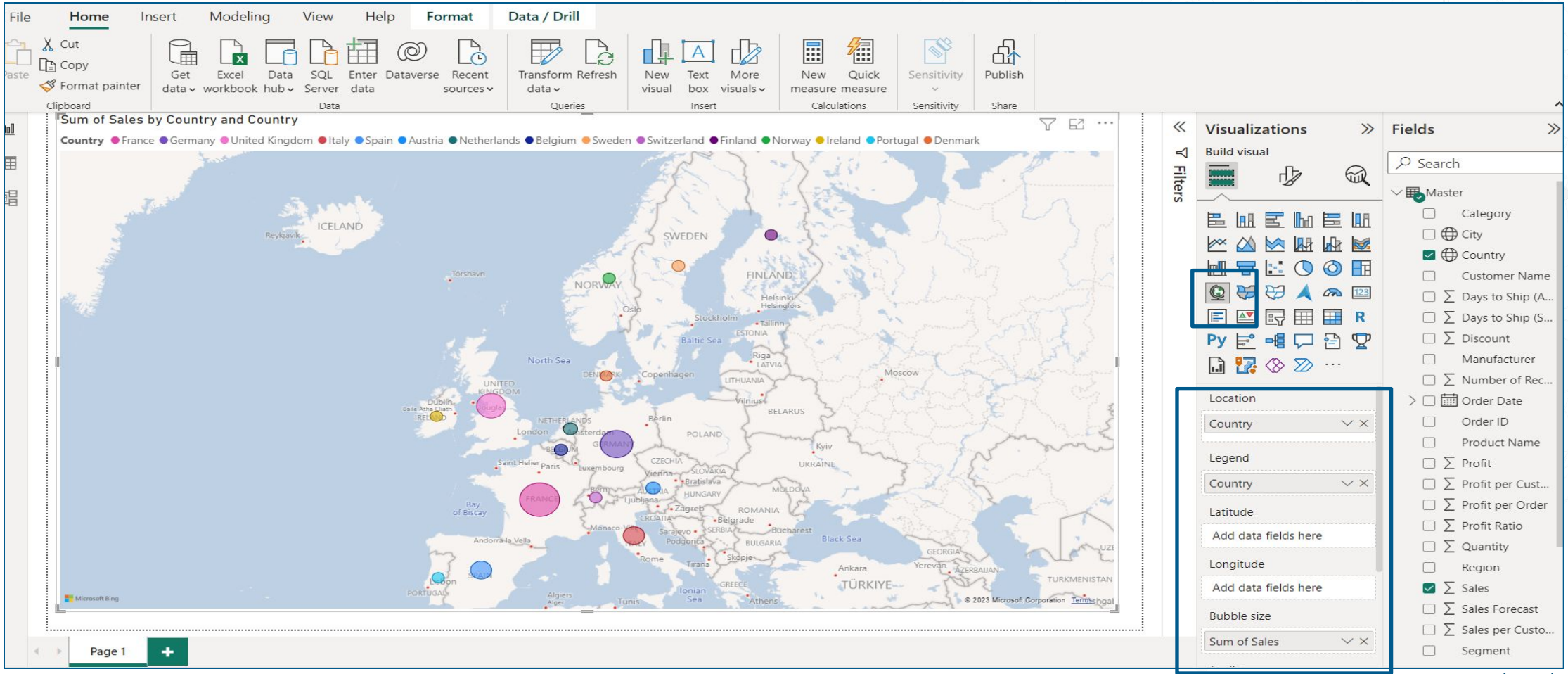
POWER BI: Maps

*You can find globe like icon in **VISUALIZATION** panel as highlighted in below picture. This icon is of **MAP** visual. Once you click, you will be asked to add fields to populate visual. You can click and drag relevant fields as shown in below big rectangular box.*



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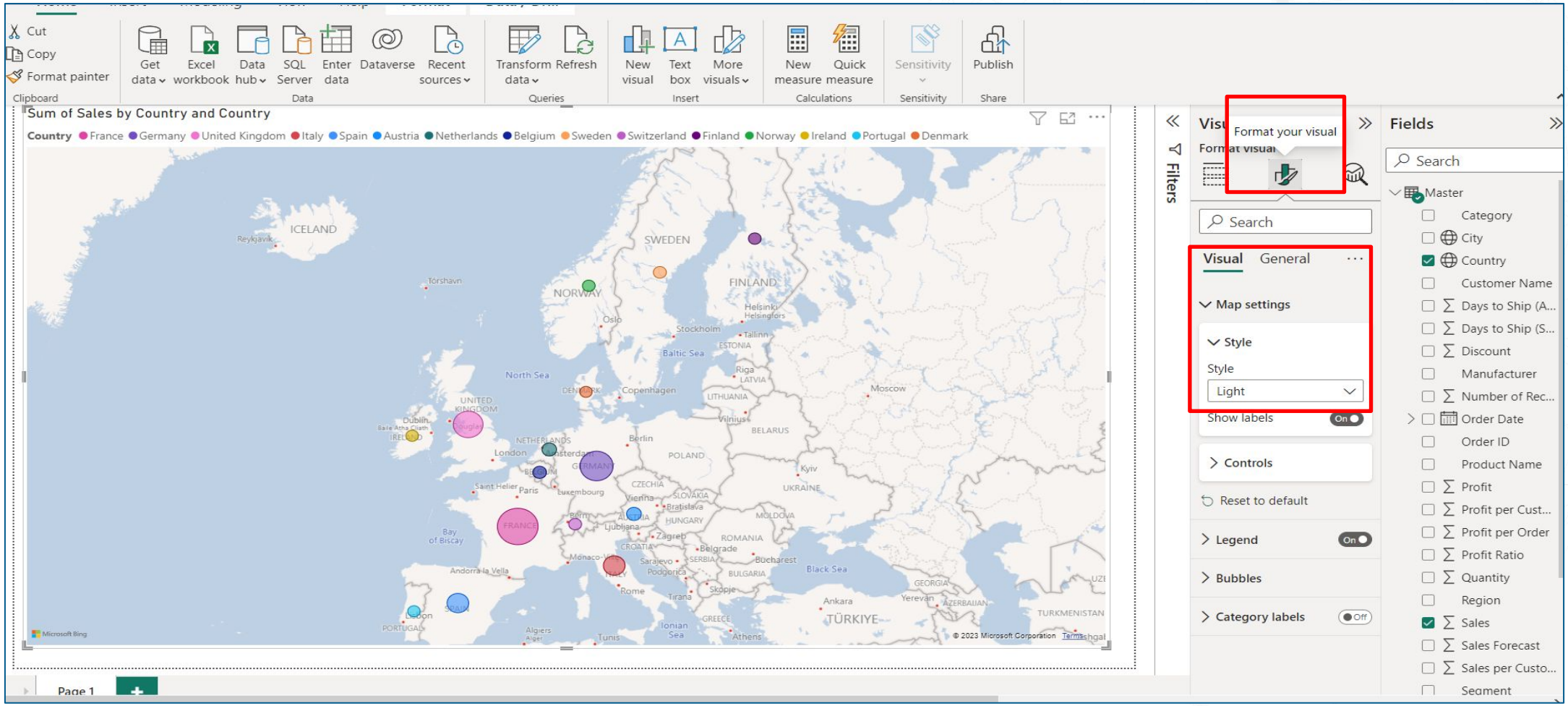
POWER BI: Maps

*You can also change MAP style by going to **FORMAT** tab as shown below. You can change switch view to DARK, ARIEL, LIGHT,GOOGLE EARTH and STREET level.*



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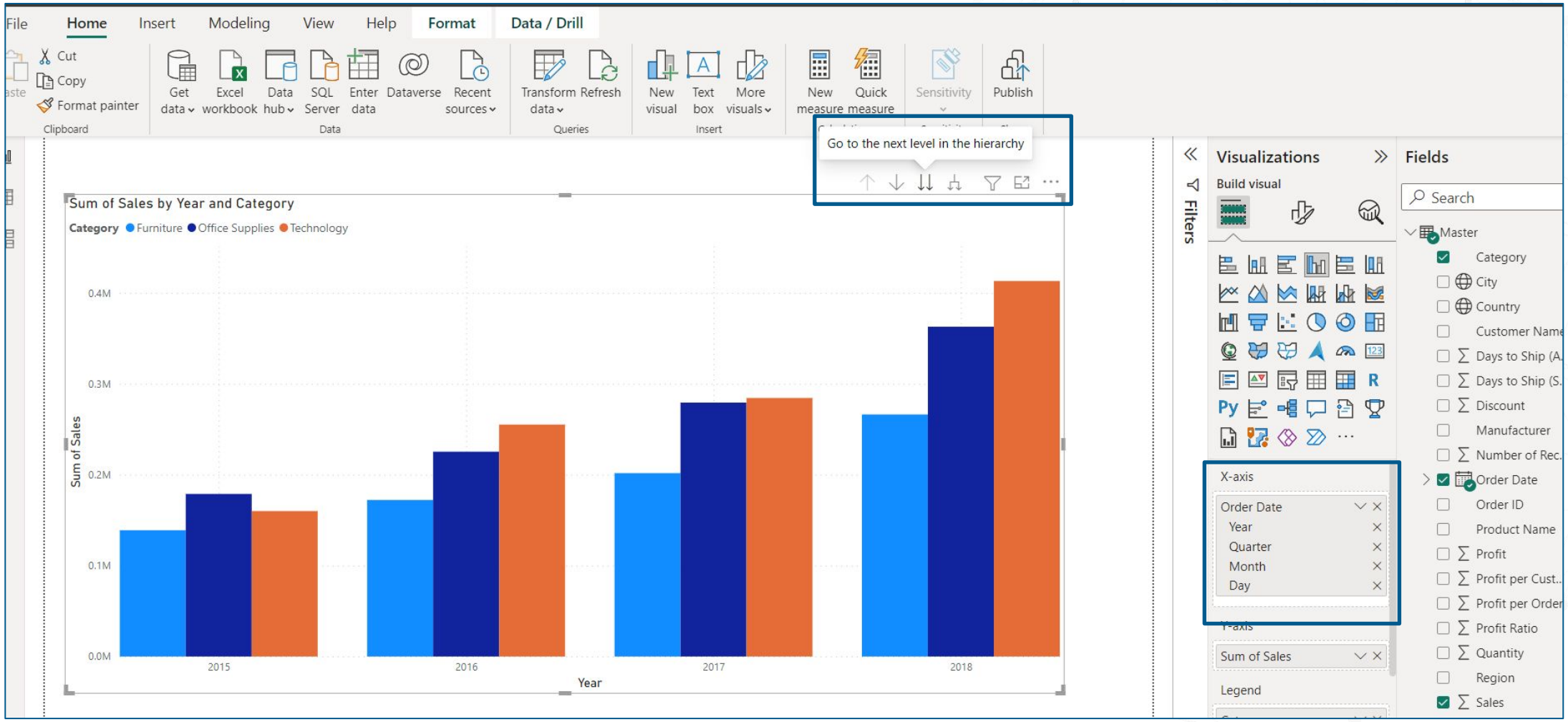
POWER BI: Time Series

POWER BI also offers you to drill down or drill up the visual as per the available data. In below snap, we can see that ORDER DATE data is available from year to quarter to month to day. This means we can drilll down/up our visual to these levels. The below highlighted icon with the visual can be used to drill up or drill down.



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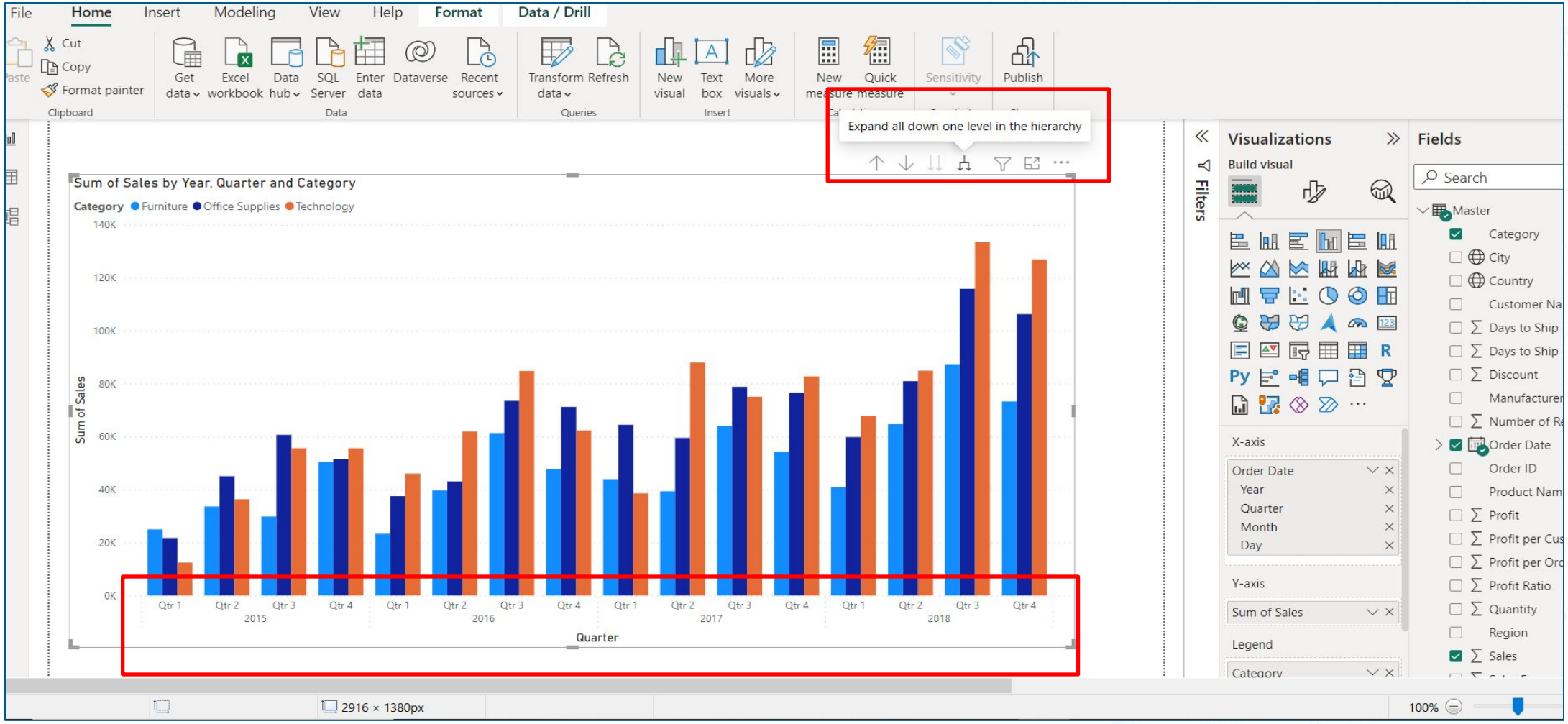
POWER BI: Time Series

Below snap show drill down level of dates from year to quarters. It can further be drilled down to months and days.



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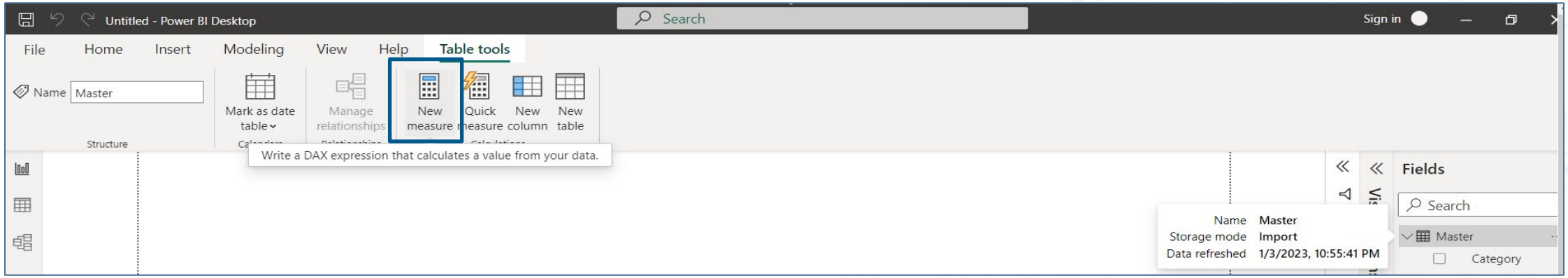
POWER BI: DAX

*DAX stands for Data Analysis Expression. There are built in functions which helps to identify key data insights. In POWER BI, we call these formulas or functions as **MEASURES**. We can either create our own or use built in quick functions. DAX are usually represented with a icon of calculator in table under **FIELD** panel*

To create Manual DAX



To use built in functions

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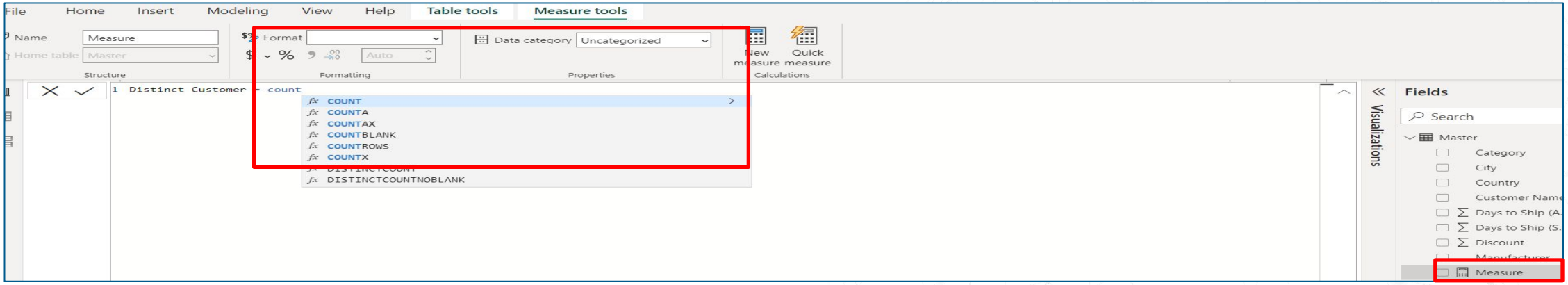
POWER BI: DAX

There are variety of functions available through which any formula can be created. POWER BI guides syntax during DAX preparation. Along with syntaxx, it also show available table/field information to be used. You can learn more about DAX expressions on below links.

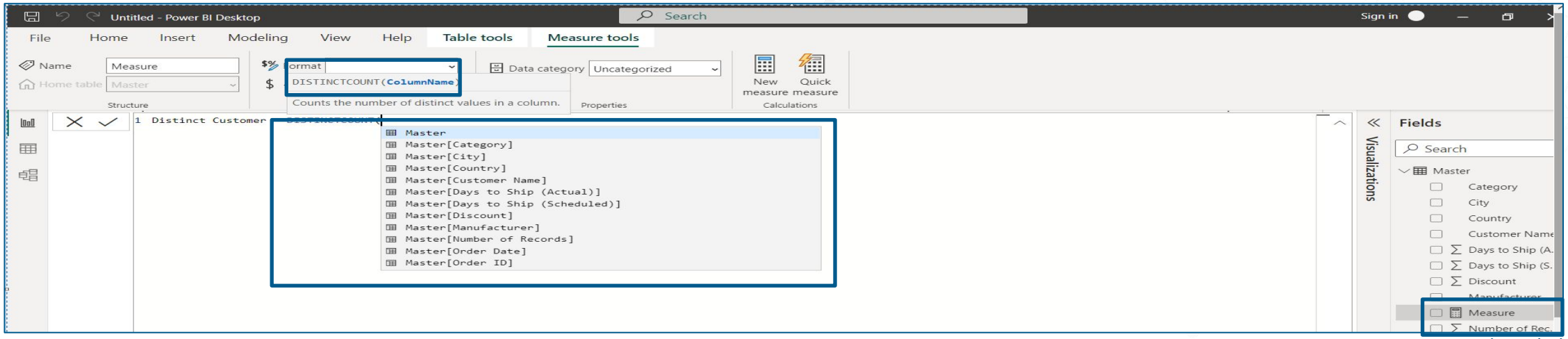
https://dax.guide/

https://learn.microsoft.com/en-us/training/modules/create-measures-dax-power-bi/

POWER BI DAX has variety of functions



POWER BI also guides for DAX Syntax and Field suggestions



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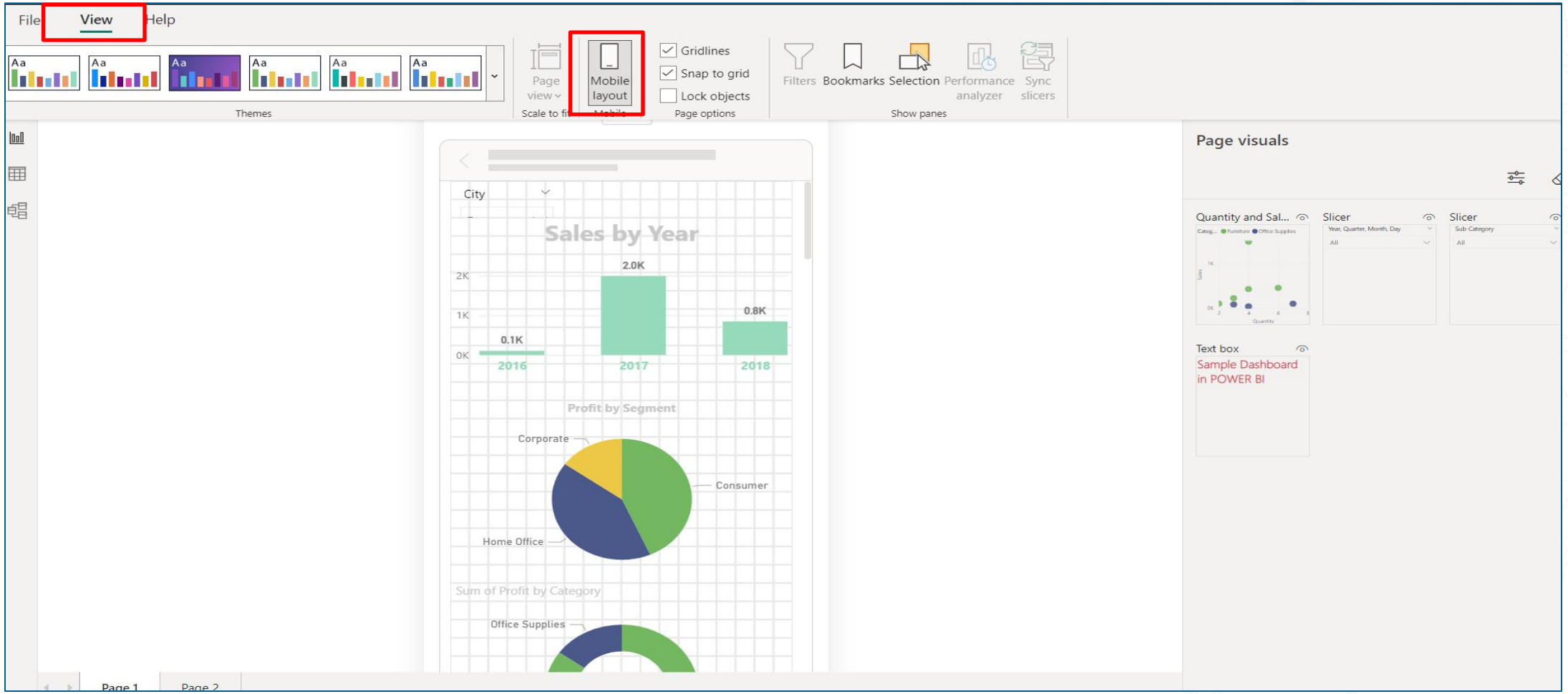
POWER BI: Mobile View

*In **VIEW** toolbar, we have option of **MOBILE LAYOUT**. This options helps to create dashboard view on mobile. POWER BI allows you to adjust your visuals which can be easily viewed on mobile.*



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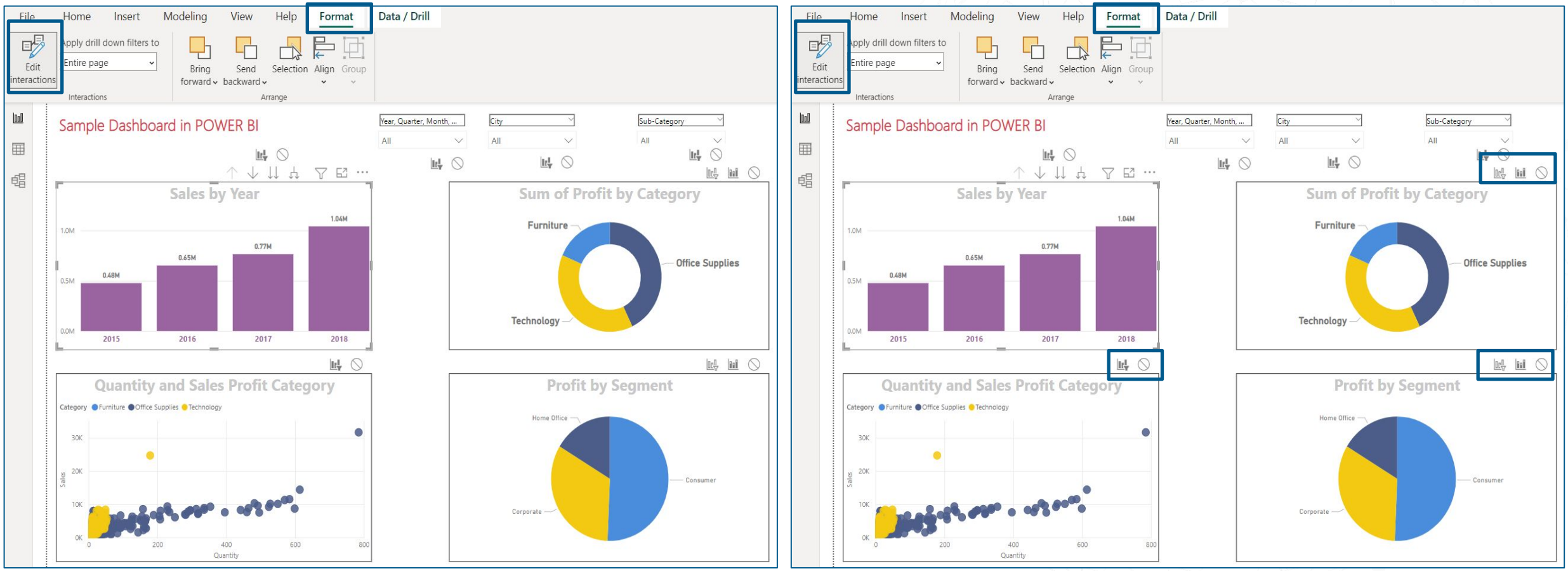
POWER BI: Interactive Visuals

*By default, visuals of POWER BI are already interactive. To find which visuals are interactive, 1). click on particular visual: 2). Go to **FORMAT->EDIT INTERACTION**. Now you will see small icons with each visuals. You can find this in below snapshot. If these icons are enabled, this means that all visuals are interactive.*



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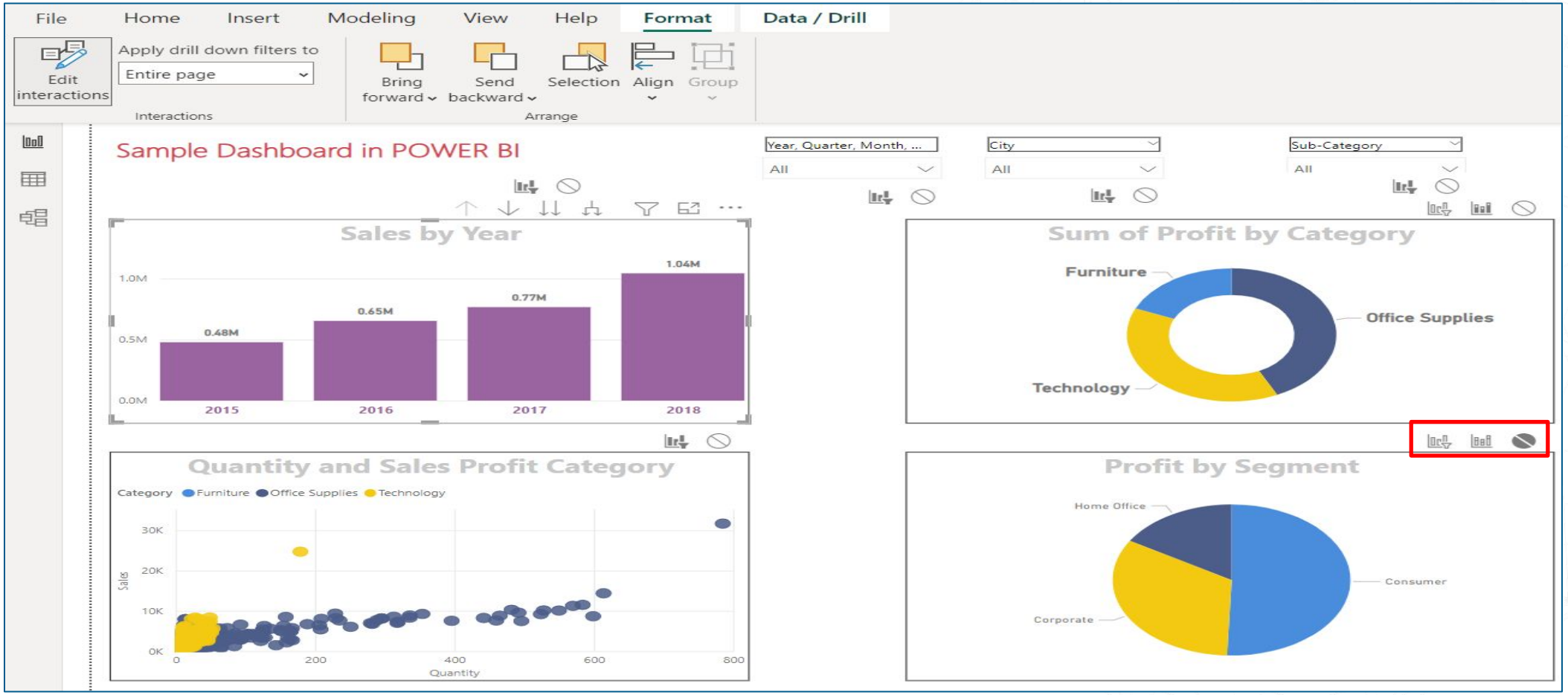
POWER BI: Interactive Visuals

*Once you are able to see interaction icons with each visual, now you can choose visual which you do not want to be interactive. To do this, click on small circle icon. It will be colored black after your selection. Thiss means, for all interactive activities, this visual will **NOT** be interactive..*



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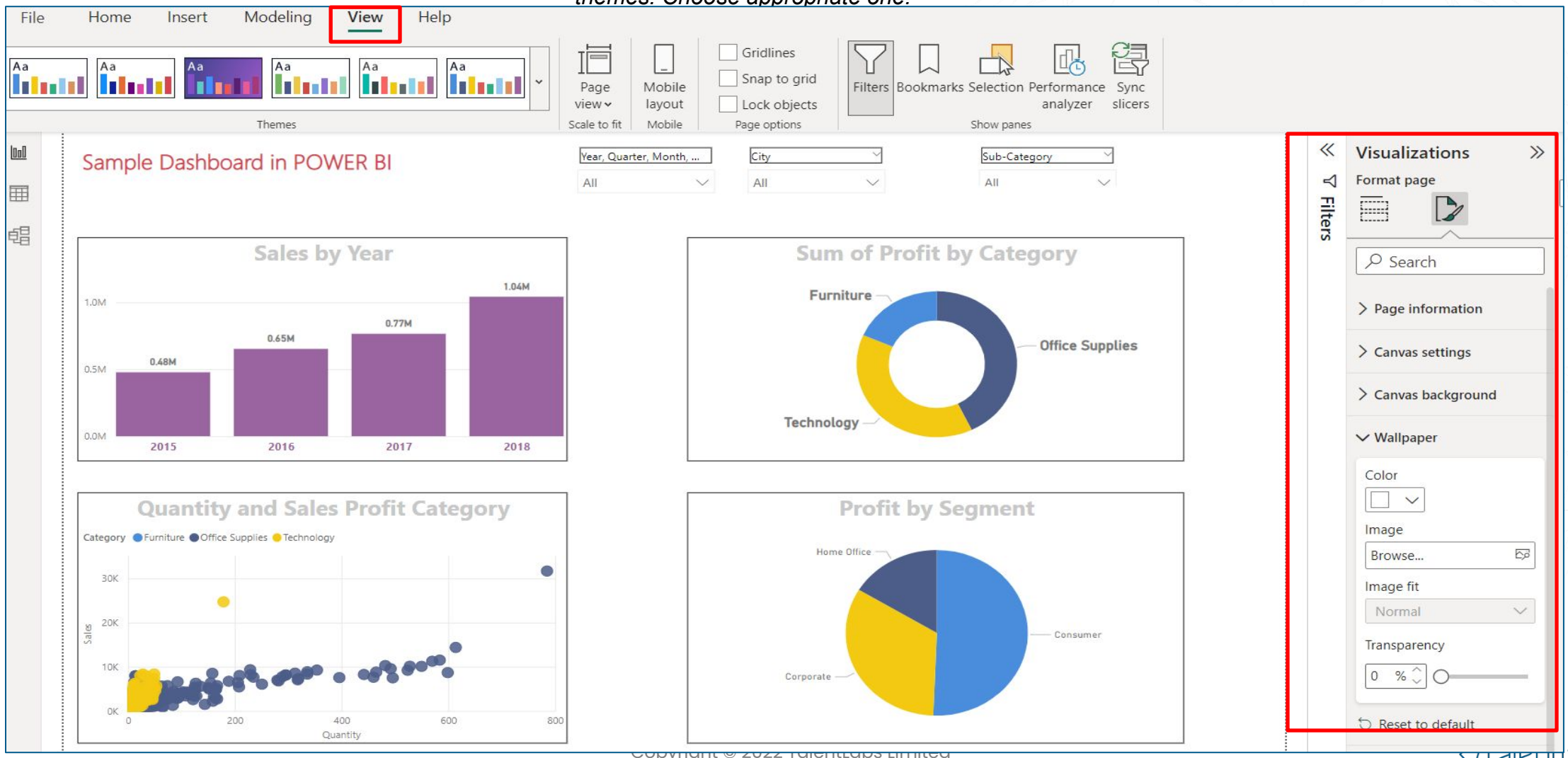
POWER BI: Designing Dashboards

*You can design your dashboard in two steps. First to make cosmetic changes to each visual. Secondly, got to **FORMAT PAGE** and see appropriate background settings. You can also use built in **THEMES** of POWER BI. To use that, go to **VIEW** menu and you will find bunch of different color themes. Choose appropriate one.*



POWER BI: Final Tips

- Know your Purpose and Audience
- Most viewed spot is left top corner. Keep important visual there.
- Avoid too many visuals/clutter in one dashboard.
- Use appropriate color theme and font sizes
- Make visuals interactive
- Make efficient use of SLICERS
- Keep dashboard spacious
- Use contrast of colors to make visual attractive
- Do check data validity after creating DAX

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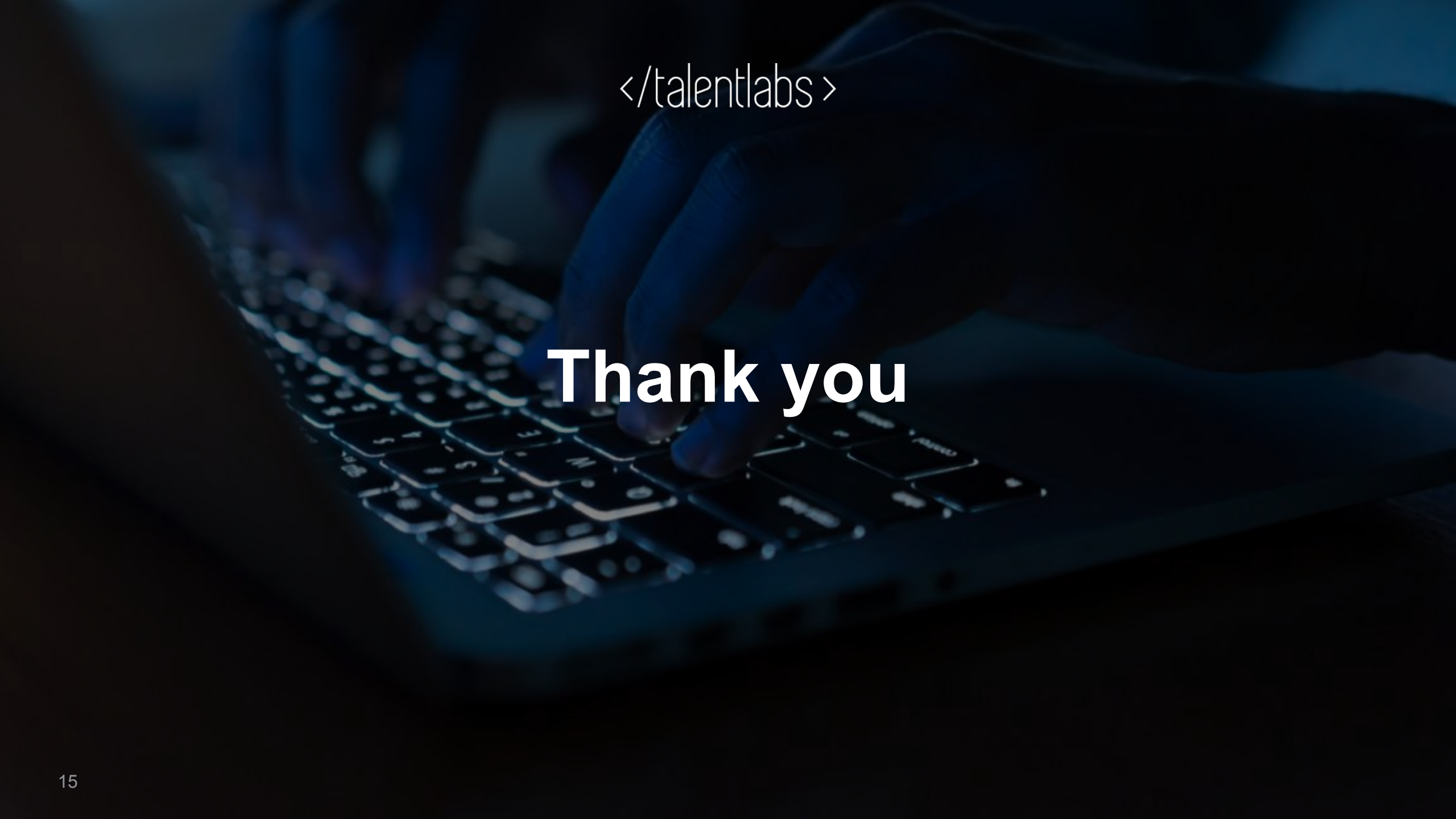
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Thank you