



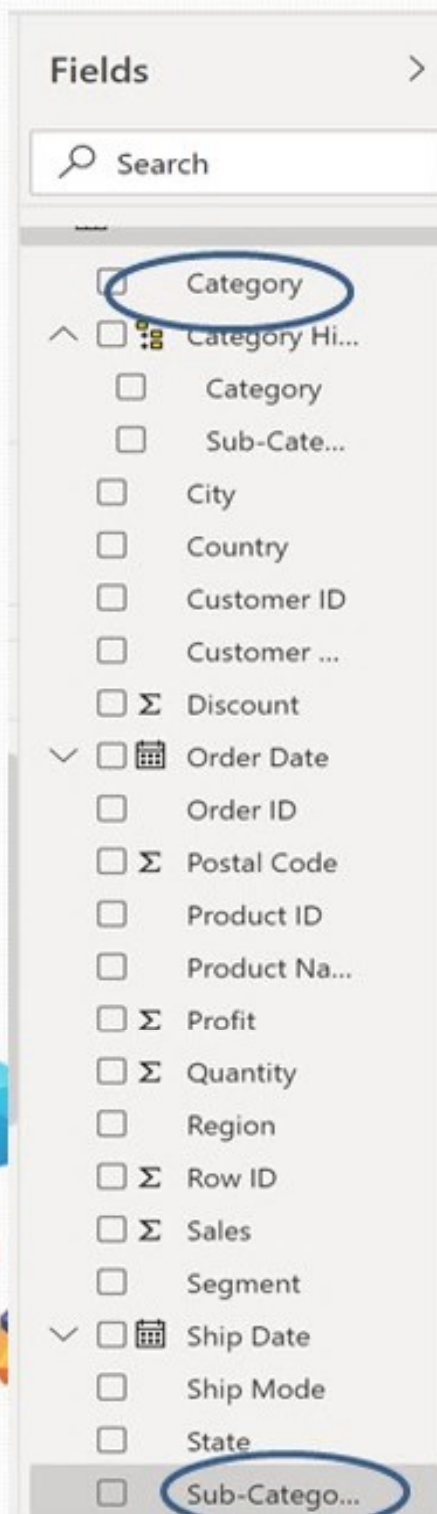
Hierarchy,
Hierarchy
Filter & DE
composition
Tree

Hierarchy of Fields

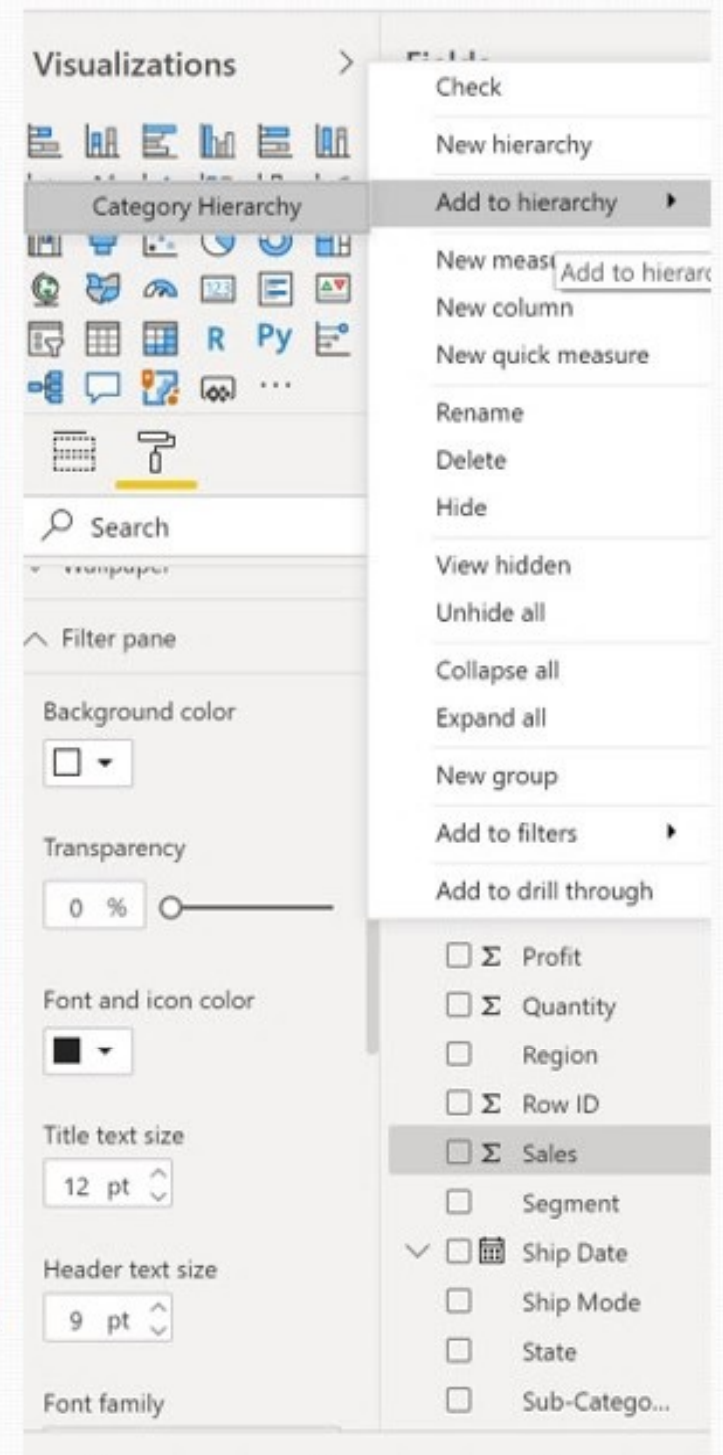
To create a Hierarchy among the related fields for the analysis, you just need to drag-n-drop one of the fields to the related field and Power BI will ask you to name the hierarchy. Once done, you can drag and drop all the fields to the hierarchy or you can right click on a field and add it to the hierarchy.

The date is the Auto hierarchy that we get in Power BI if a particular field in a Date or Date/time data type.





Click on the Sub Category and drag it on top of Category. You will notice I have got Category Hierarchy added in the data. (Like the image on the Left) Then Click on Product and click on the elapses to open the dialogue box like the one in the right image. Then you can add that field to Category Hierarchy.



Decomposition Tree

- To create a visual to give a clear idea about the hierarchal data, we can create a Decomposition tree.
- This lets you visualize data across multiple dimensions. Since it is an artificial intelligence (AI) visualization, so you can use it to find the next dimension to drill down into based on certain criteria like High Value, Low Value or any specific dimension that you have selected.
- This makes it a valuable tool for ad hoc exploration and conducting root cause analysis.

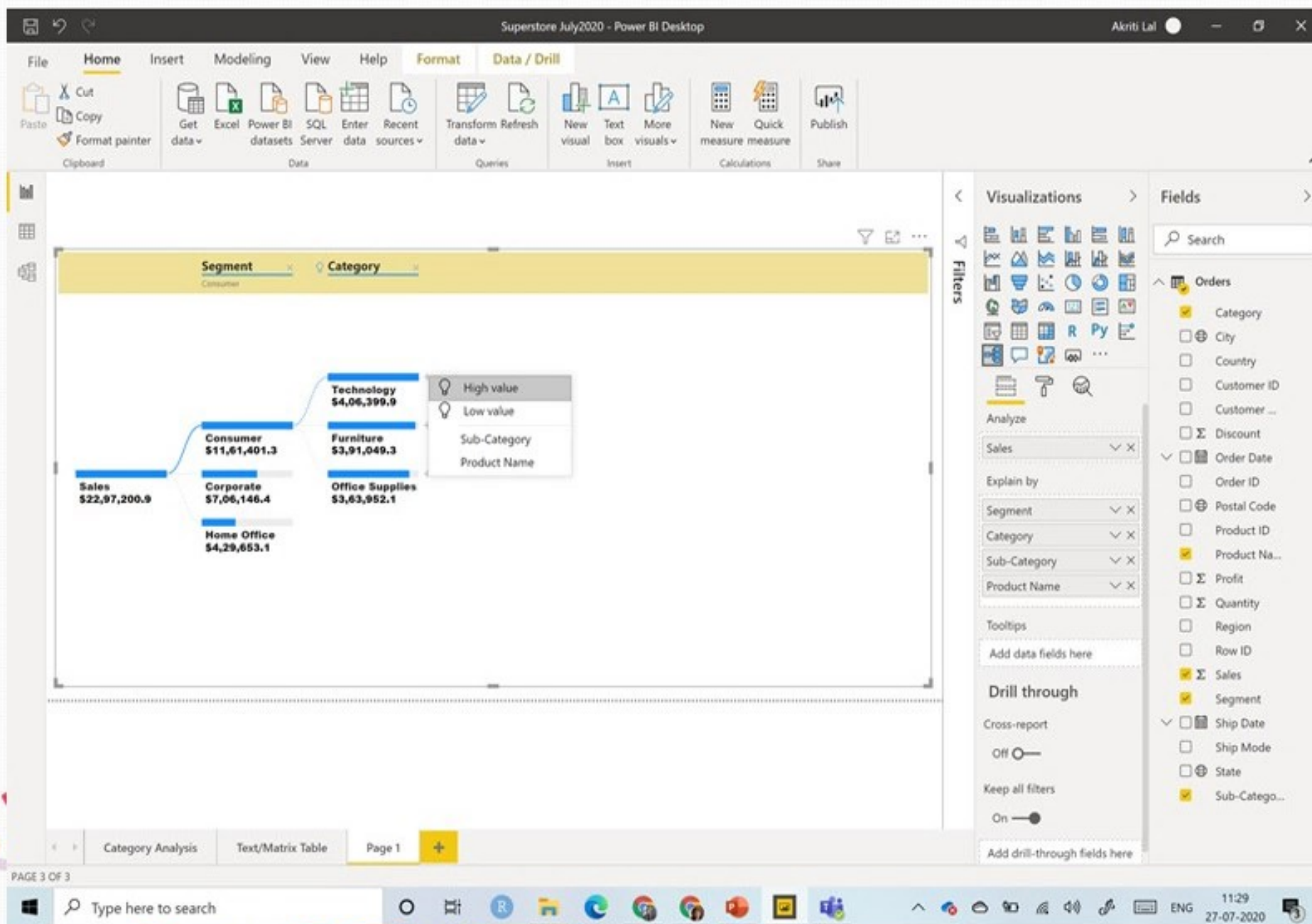


How to Create a Decomposition tree

- In **Analyze** put a measure/ numeric value.
- In **Explain By** put all the dimension/ fields that you want to expand the decomposition by. Mostly, we use a hierarchy kind of values here.
- In **Tooltip** put any other additional dimension or measure that you want to show on hover.



Hands On of a Decomposition tree

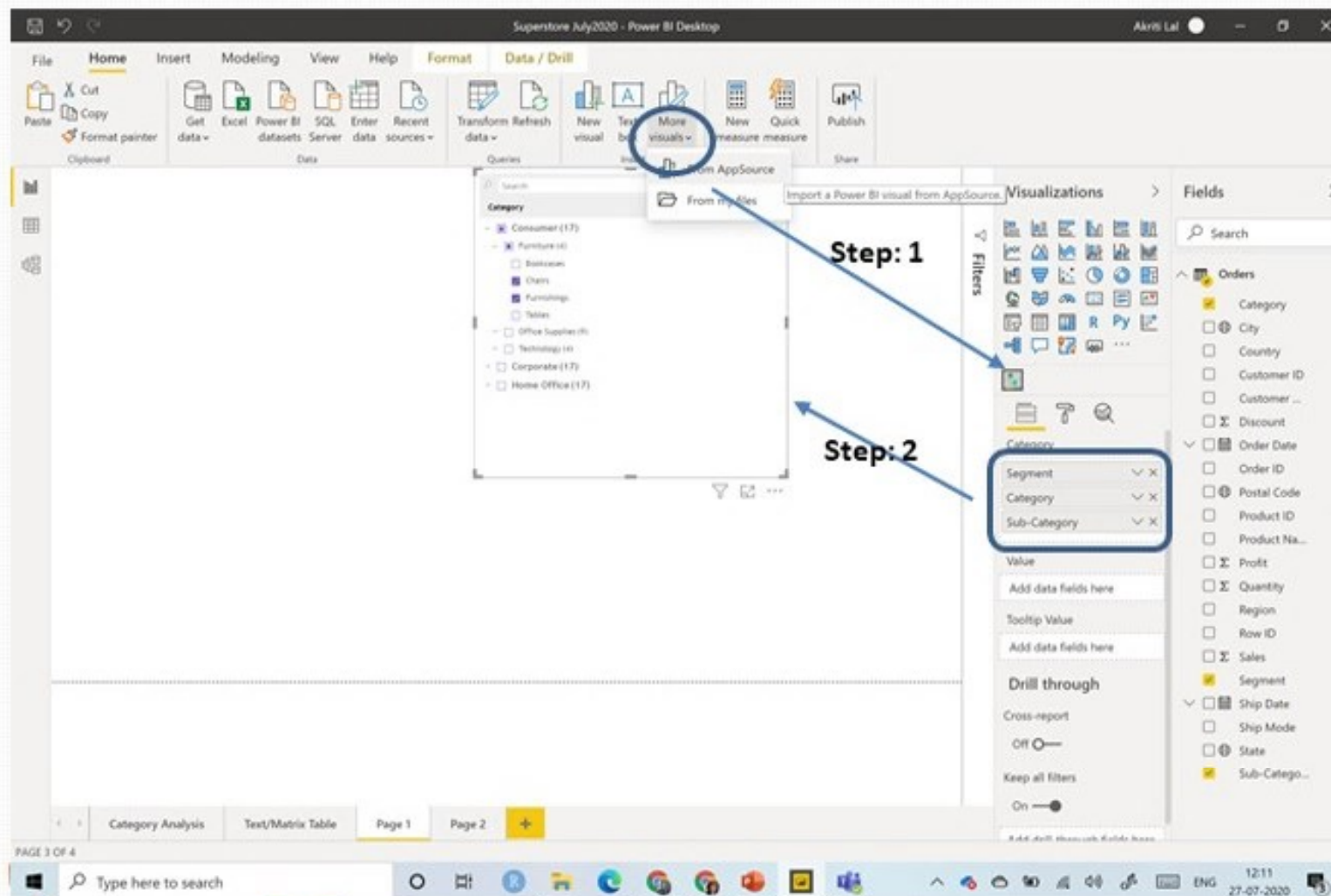


Hierarchy Filter

- Hierarchy filter is another great way to give the end user a nice experience of filtering the related dimension fields.
- When you work with a filter where each of the filter is dependent on another filter, then we would only want to see the related fields only. So, to increase the performance of the workbook and also the filtering experience; this filter is a good option.
- This is a Custom Visual so you have to import it from Market place(App Store in the new version)



Steps to create a Hierarchy Filter without a measure



1st step is to add a Hierarchy filter from the App Store

2nd step is to bring that filter on the sheet and drag all the fields that you want as a filter . It Automatically creates a Hierarchy for you.

After properly formatting the fields you can use the filter even **without any measure value**.

Steps to create a Hierarchy Filter with a measure (Pro feature)

The screenshot shows a data visualization tool interface. On the left, a table displays sales data categorized by 'Category' and 'Sales'. A yellow pencil icon is positioned next to the 'Sales' column header. A blue arrow points from this icon to the 'Value' field in the 'Filters' panel on the right. The 'Filters' panel shows a hierarchy of filters: 'Category' (with sub-filters 'Segment', 'Category', and 'Sub-Category') and 'Value' (with the 'Sales' measure selected and circled in blue).

Category	Sales
Consumer (17)	1,161.40K
Technology (4)	406.40K
Furniture (4)	391.05K
Chairs	172.86K
Tables	99.93K
Bookcases	68.63K
Furnishings	49.62K
Office Supplies (9)	363.95K
Corporate (17)	706.15K
Home Office (17)	429.65K

Filters

Category

- Segment
- Category
- Sub-Category

Value

- Sales

If you add a Value to this filter then, this activates a Pro feature, which may come with additional cost. This little Yellow Pencil that you see here, gives you the option for Advance formatting of the Value that you have used, Like in the below screen

With a Pro feature, you can format the Values of the Parent and the child Filter both

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Conditional Formatting (PRO)

Conditional Formatting

Apply to Sales

- ☒ Rule 1
- ☒ Sales > 1M
- ☒ Rule 3

Search

Category

Category	Sales
Consumer (17)	1,161.40K
Technology (4)	406.40K
Phones	169.93K
Accessories	87.11K
Machines	79.54K
Copiers	69.82K
Furniture (4)	391.05K
Office Supplies (9)	363.95K
Corporate (17)	706.15K
Home Office (17)	429.65K