

MEASURE FILTERS FOR AGGREGATED AND DISAGGREGATED DATA

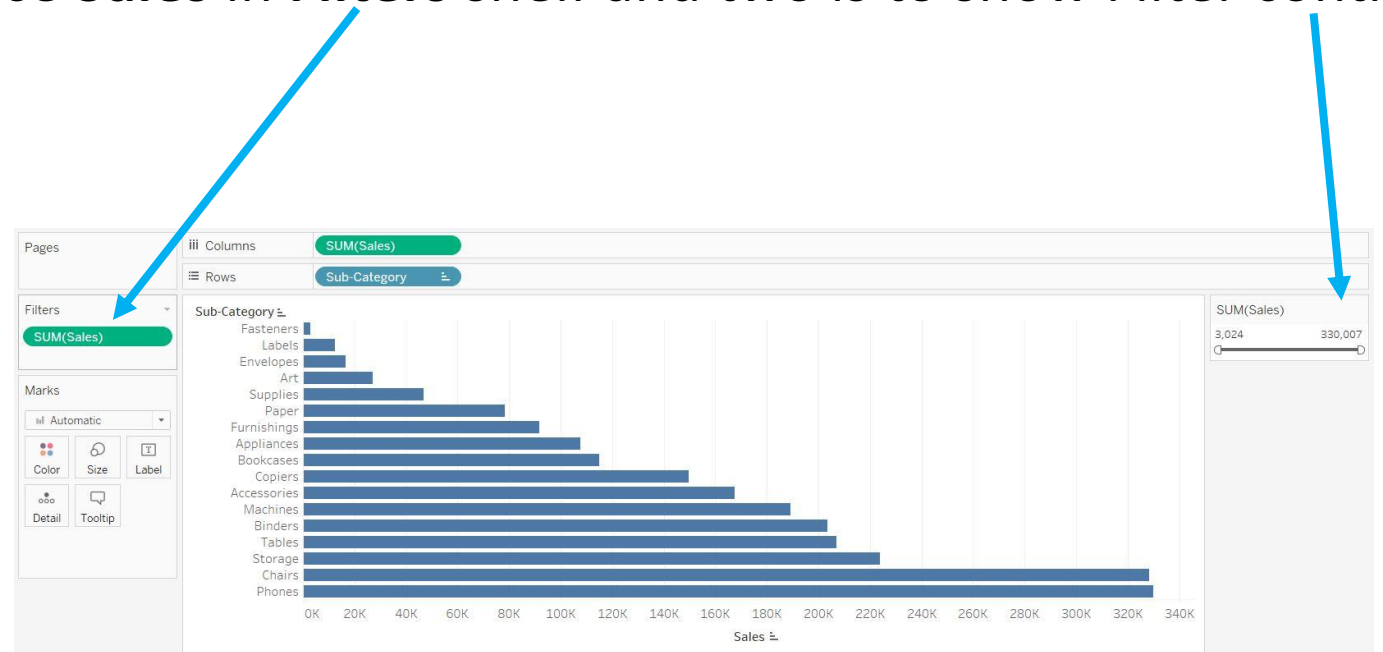
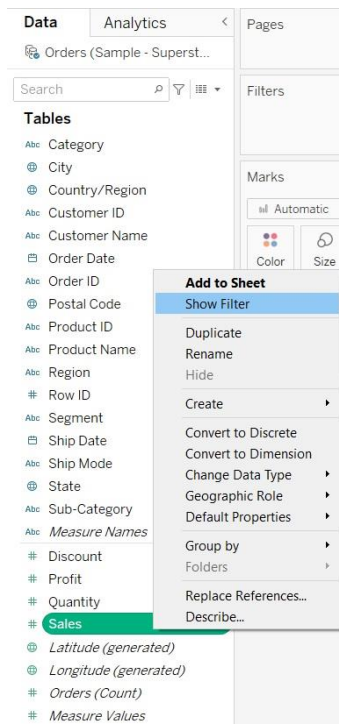
We can add Measure Filters for filtering data in both Aggregated and Disaggregated form

Method to add Measure Filter for Aggregated Data:

Right-click the Measure in the Data pane e.g: **Sales**

Select **Show Filter**

This will do two actions; one is to place **Sales** in **Filters** shelf and two is to show Filter control to the end user



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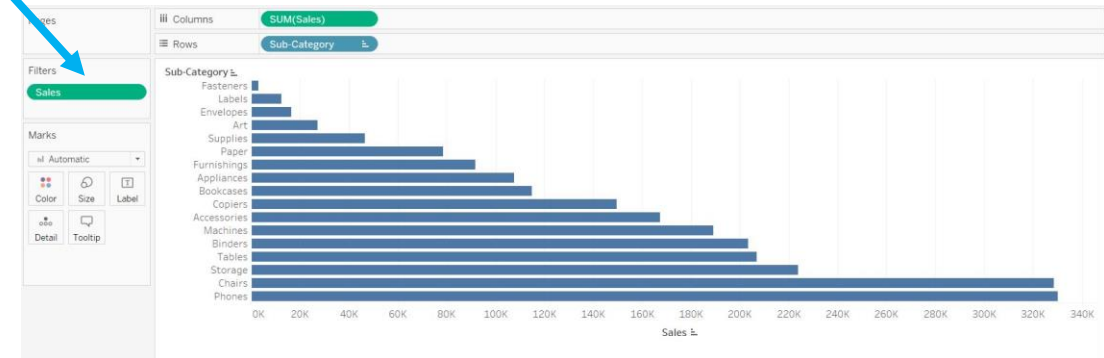
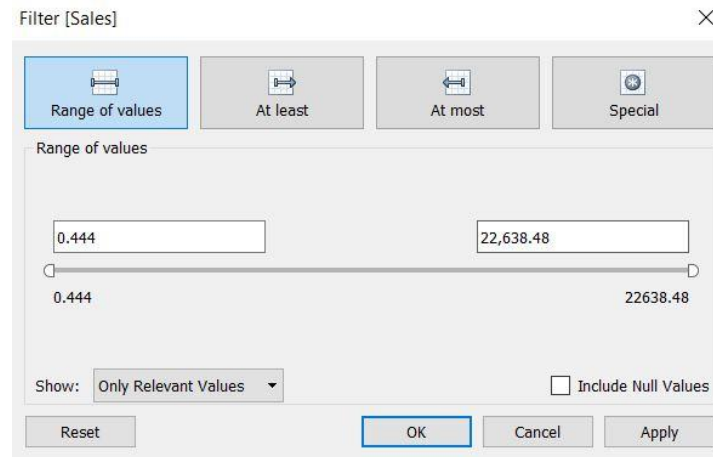
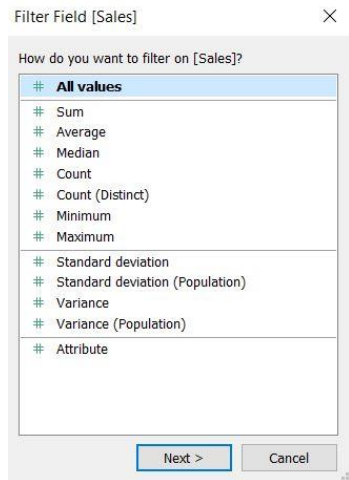
Method to add Measure Filter for Disaggregated Data:

Drag and drop Measure from the Data pane e.g: **Sales**

Select **All Values** in the Filter Field box.

This will do only one action i.e., place **Sales** in **Filters shelf**

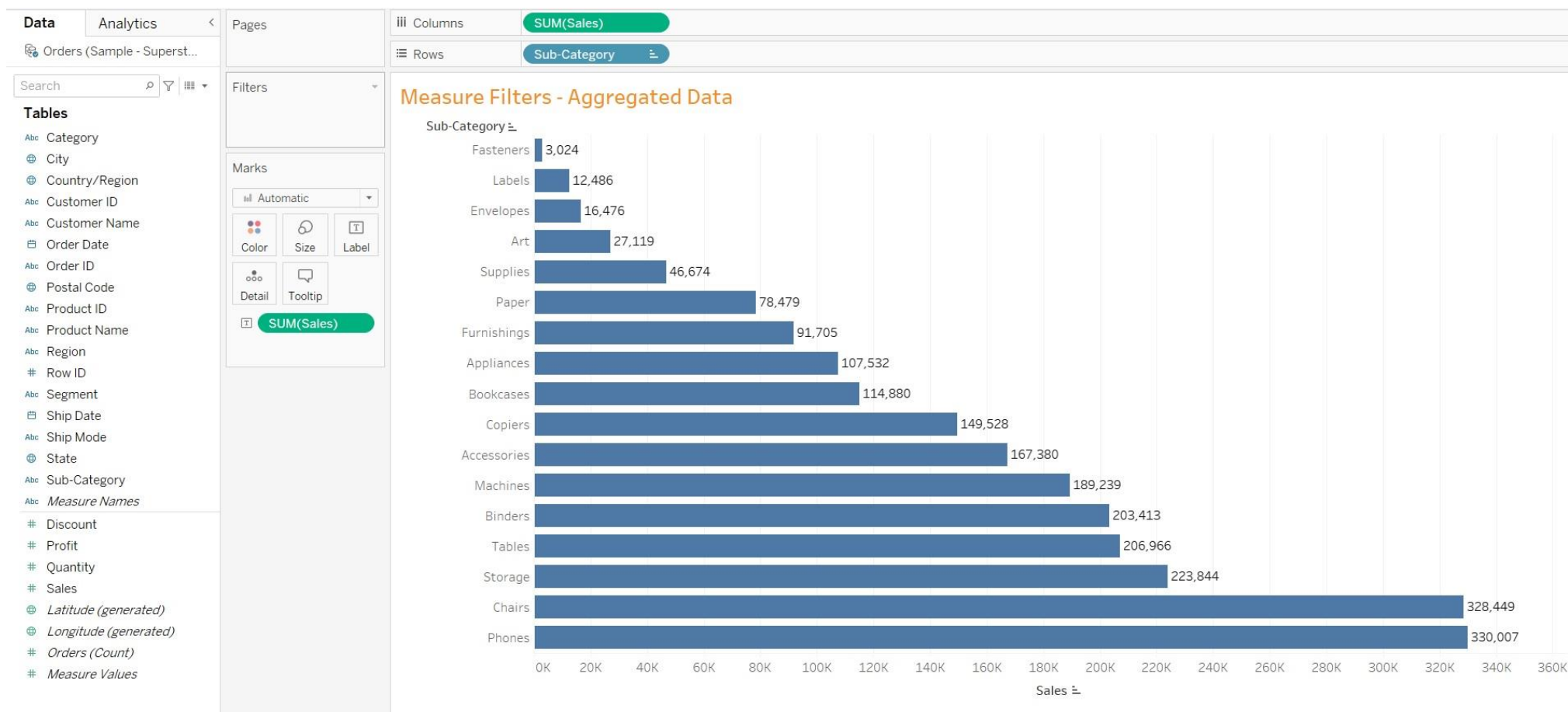
This will show all the individual Sales value at the Row Level i.e., disaggregated values



MEASURE FILTERS FOR AGGREGATED AND DISAGGREGATED DATA

STEPS TO ADD MEASURE FILTER FOR AGGREGATED DATA

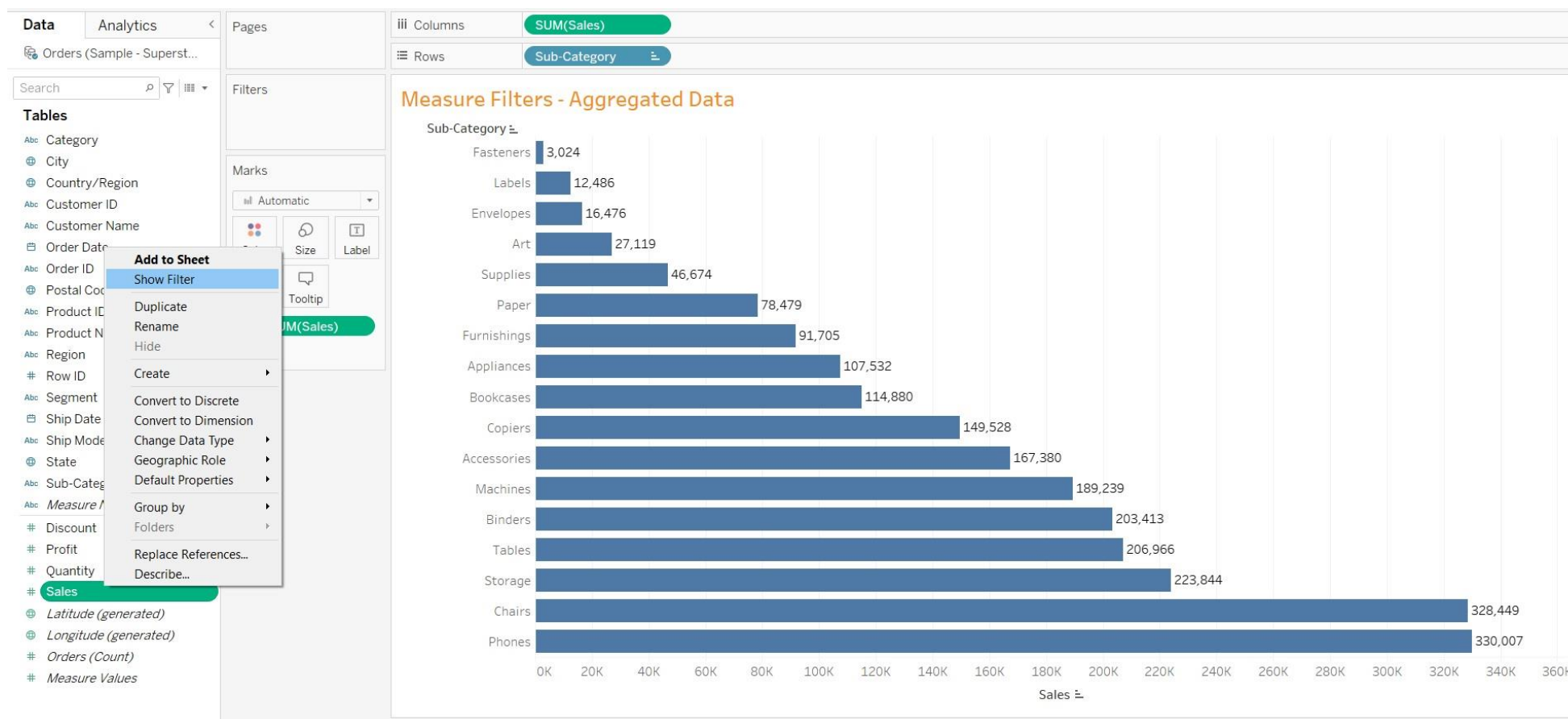
Step 1: Let us start with the below mentioned view of **Sub-Category Vs Sales**



MEASURE FILTERS FOR AGGREGATED AND DISAGGREGATED DATA

STEPS TO ADD MEASURE FILTER FOR AGGREGATED DATA

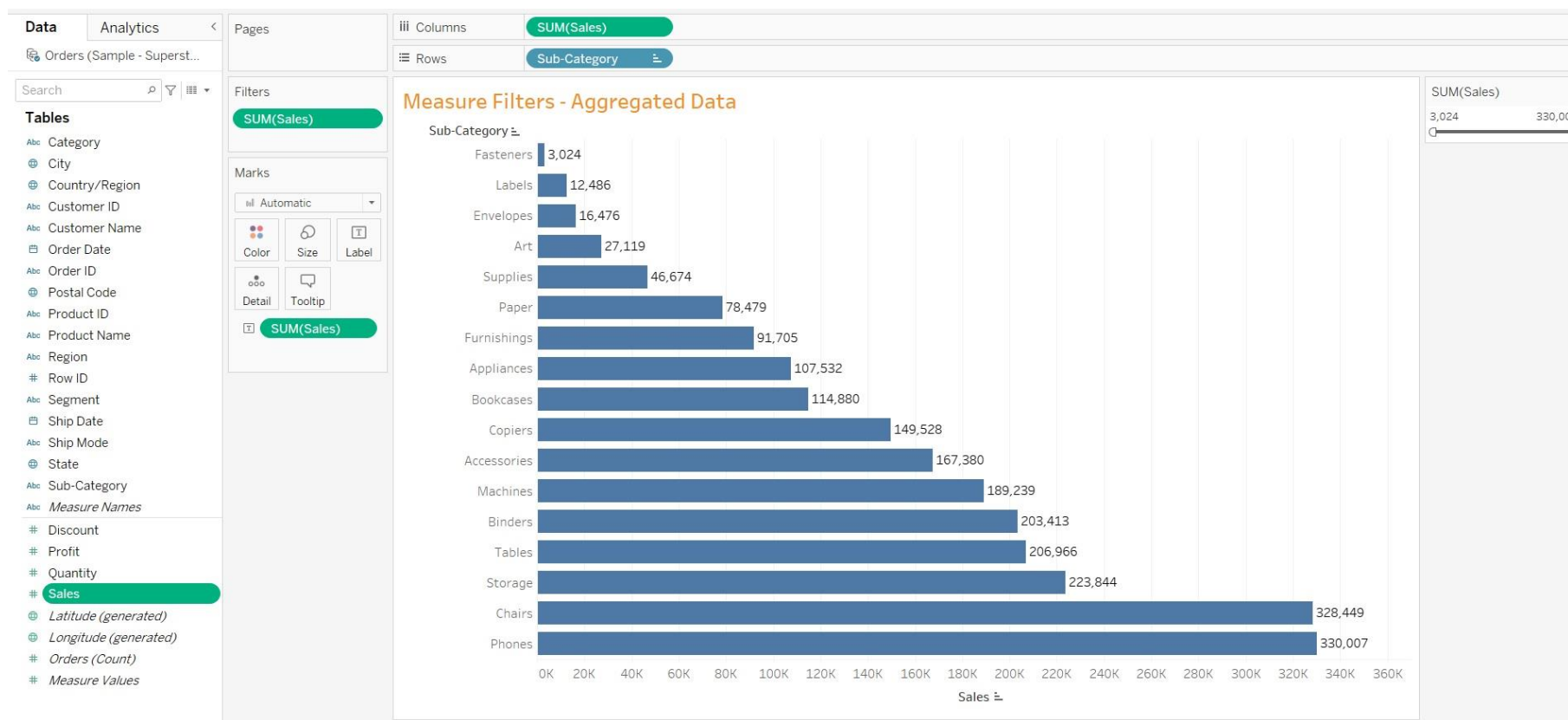
Step 2: Right-click the Measure in the **Data** pane e.g: **Sales**
Select Show Filter



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STEPS TO ADD MEASURE FILTER FOR AGGREGATED DATA

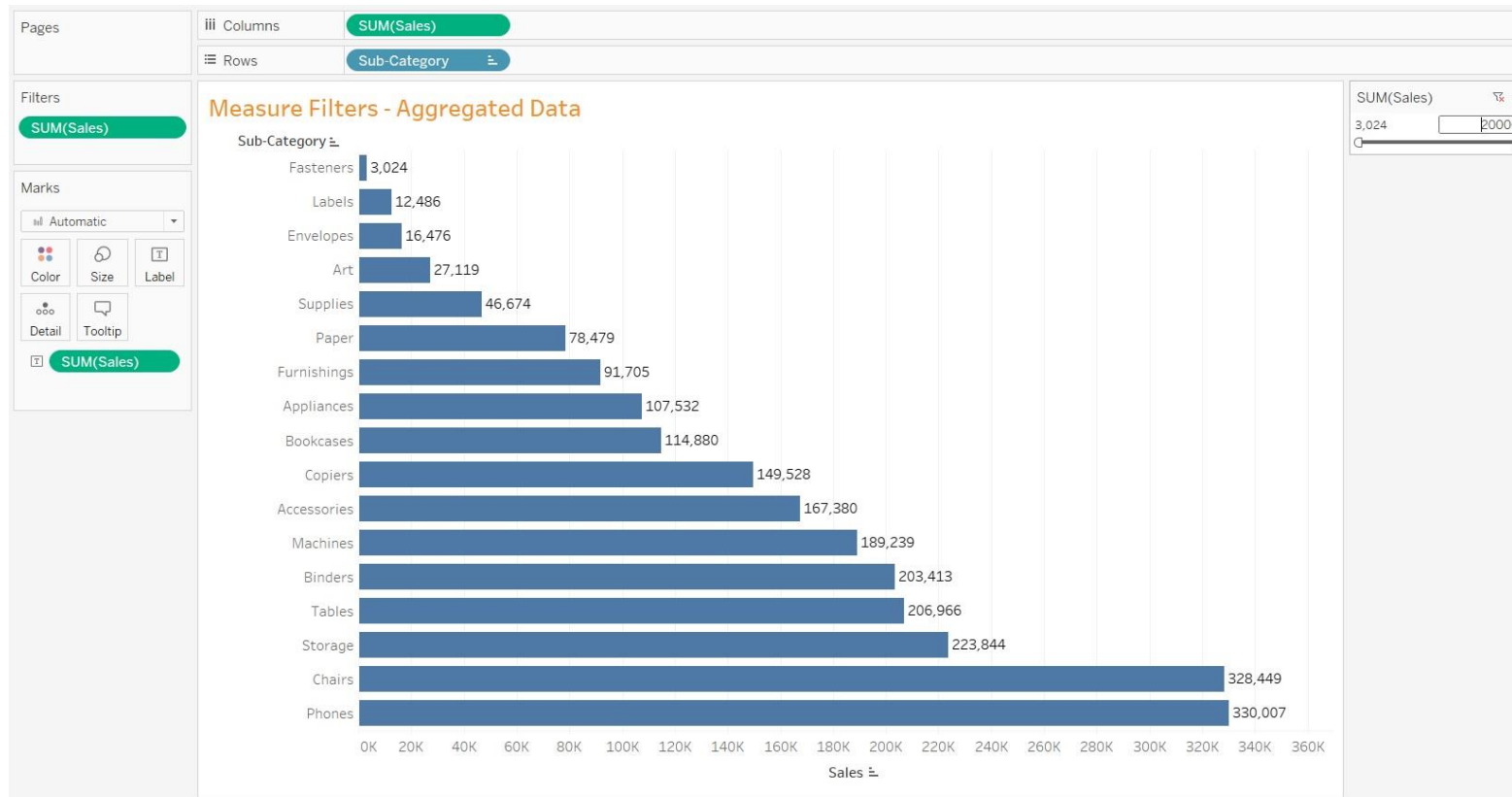
Step 3: **Sales** is added to the **Filters** shelf and the Filter control is shown to the end user



MEASURE FILTERS FOR AGGREGATED AND DISAGGREGATED DATA

STEPS TO ADD MEASURE FILTER FOR AGGREGATED DATA

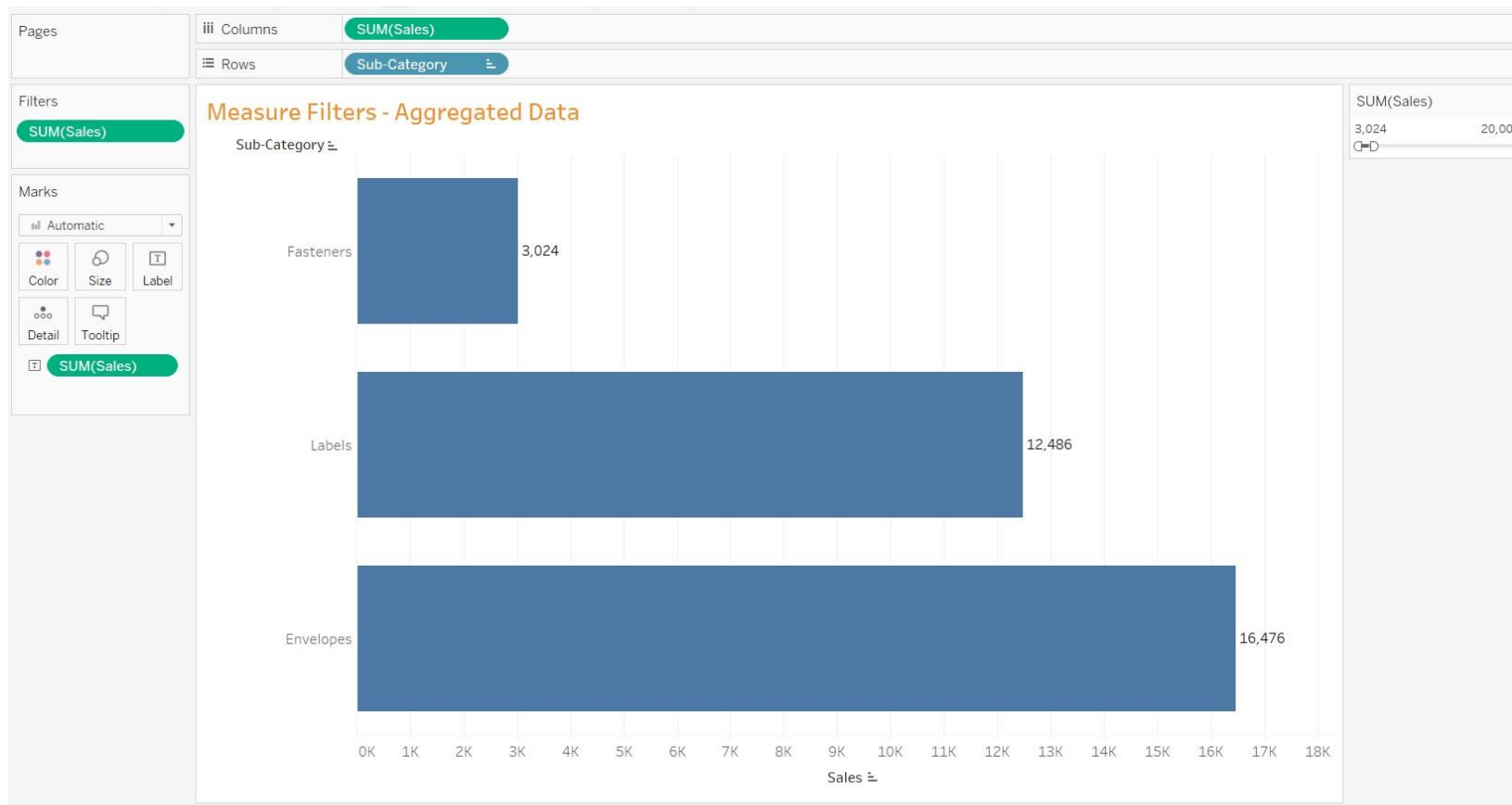
Step 4: Change the upper value in the Filter to **20,000**



MEASURE FILTERS FOR AGGREGATED AND DISAGGREGATED DATA

STEPS TO ADD MEASURE FILTER FOR AGGREGATED DATA

Step 5: Now the view shows only those Sub-Categories for which **SUM(Sales)** value is between **3,024** and **20,000**



MEASURE FILTERS FOR AGGREGATED AND DISAGGREGATED DATA

STEPS TO ADD MEASURE FILTER FOR AGGREGATED DATA

Step 6: For validating the result we can create a crosstabs as shown below

The screenshot shows a Tableau interface with a crosstab table. The left sidebar contains the 'Columns' shelf with 'Sub-Category' and the 'Rows' shelf with 'SUM(Sales)'. The main view displays a table titled 'Validating the Measure Filters - Aggregated Data' with 'Sub-Category' as the column header and 'SUM(Sales)' as the row header. The table lists 19 sub-categories and their corresponding sales values.

Validating the Measure Filters - Aggregated Data	
Sub-Category	SUM(Sales)
Accessories	167,380
Appliances	107,532
Art	27,119
Binders	203,413
Bookcases	114,880
Chairs	328,449
Copiers	149,528
Envelopes	16,476
Fasteners	3,024
Furnishings	91,705
Labels	12,486
Machines	189,239
Paper	78,479
Phones	330,007
Storage	223,844
Supplies	46,674
Tables	206,966

MEASURE FILTERS FOR AGGREGATED AND DISAGGREGATED DATA

STEPS TO ADD MEASURE FILTER FOR AGGREGATED DATA

Step 7: Click on Sort icon to sort by ascending order

The screenshot shows the Microsoft Power BI Desktop interface. The main view area displays a table titled "Validating the Measure Filters - Aggregated Data". The table is sorted by Sub-Category in ascending order. The table has two columns: Sub-Category and SUM(Sales). The data is as follows:

Sub-Category	SUM(Sales)
Accessories	167,380
Appliances	107,532
Art	27,119
Binders	203,413
Bookcases	114,880
Chairs	328,449
Copiers	149,528
Envelopes	16,476
Fasteners	3,024
Furnishings	91,705
Labels	12,486
Machines	189,239
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Phones	330,007
Storage	223,844
Supplies	46,674
Tables	206,966

MEASURE FILTERS FOR AGGREGATED AND DISAGGREGATED DATA

STEPS TO ADD MEASURE FILTER FOR AGGREGATED DATA

Step 8: This view now shows the same Sub-Categories having **SUM(Sales)** less than **20,000** and it matches the results of the previous worksheet

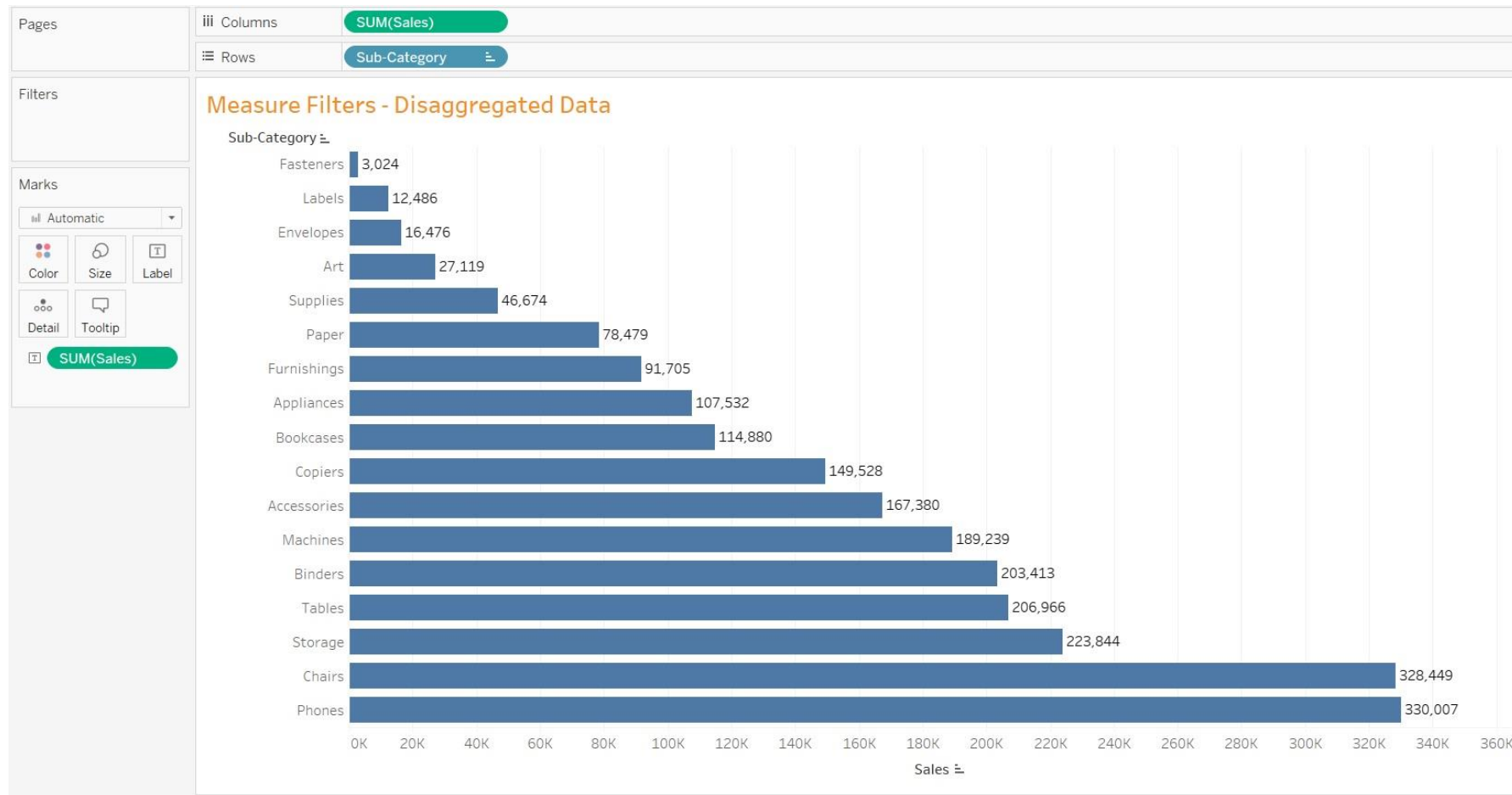


Sub-Category	SUM(Sales)
Fasteners	3,024
Labels	12,486
Envelopes	16,476
Art	27,119
Supplies	46,674
Paper	78,479
Furnishings	91,705
Appliances	107,532
Bookcases	114,880
Copiers	149,528
Accessories	167,380
Machines	189,239
Binders	203,413
Tables	206,966
Storage	223,844
Chairs	328,449
Phones	330,007

MEASURE FILTERS FOR AGGREGATED AND DISAGGREGATED DATA

STEPS TO ADD MEASURE FILTER FOR DISAGGREGATED DATA

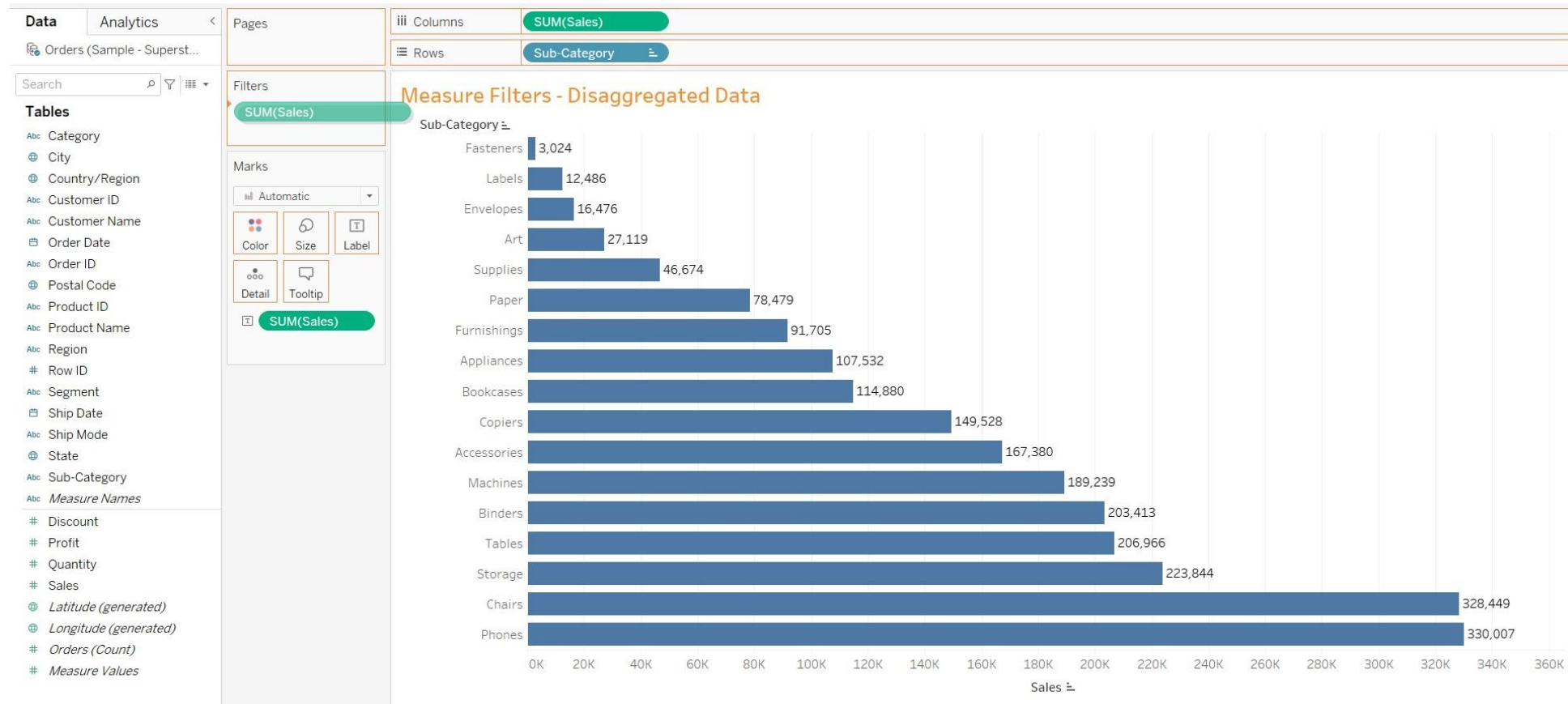
Step 1: Let us start with the below mentioned view of **Sub-Category Vs Sales**



MEASURE FILTERS FOR AGGREGATED AND DISAGGREGATED DATA

STEPS TO ADD MEASURE FILTER FOR DISAGGREGATED DATA

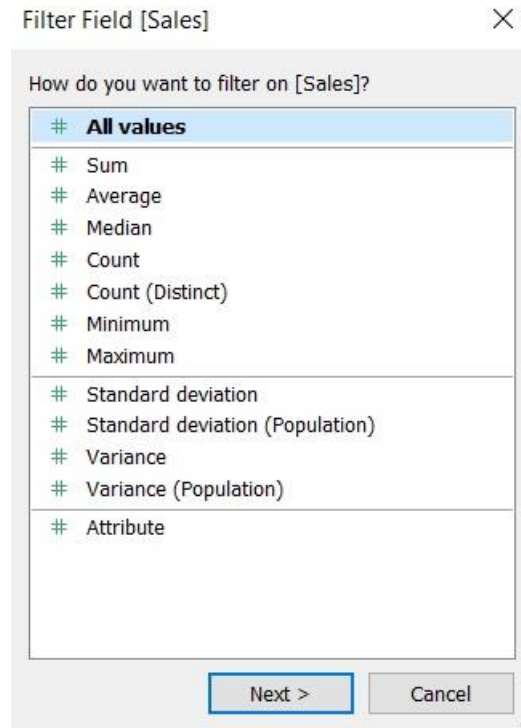
Step 2: Drag and drop **Sales** to the **Filters** Shelf



MEASURE FILTERS FOR AGGREGATED AND DISAGGREGATED DATA

STEPS TO ADD MEASURE FILTER FOR DISAGGREGATED DATA

Step 3: In the **Filter Field [Sales]** box select **All values**



Filter Field [Sales] X

How do you want to filter on [Sales]?

All values
Sum
Average
Median
Count
Count (Distinct)
Minimum
Maximum
Standard deviation
Standard deviation (Population)
Variance
Variance (Population)
Attribute

Next > Cancel

MEASURE FILTERS FOR AGGREGATED AND DISAGGREGATED DATA

STEPS TO ADD MEASURE FILTER FOR DISAGGREGATED DATA

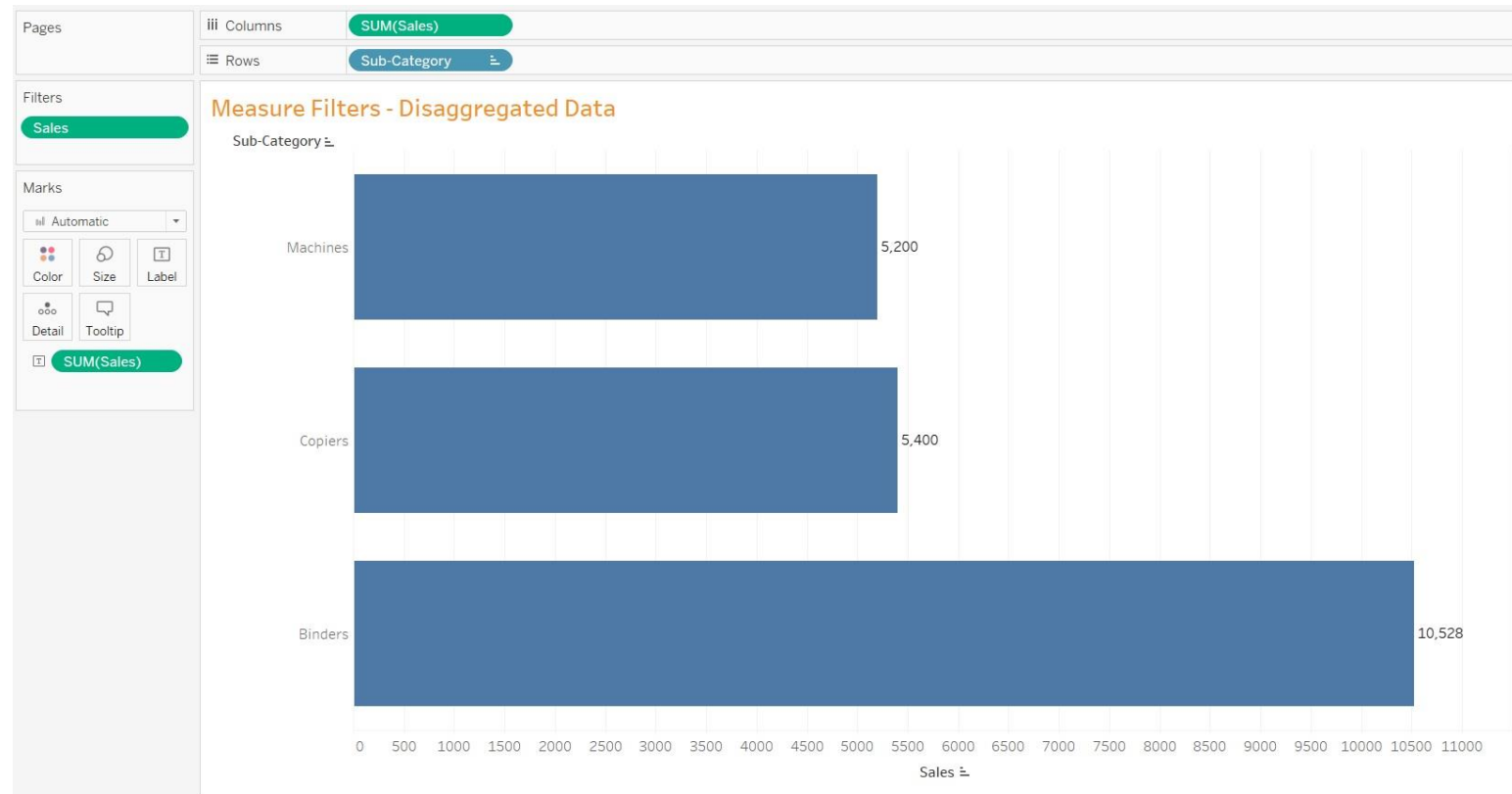
Step 4: In the **Filter [Sales]** box ensure that **Range of values** is selected
Enter the low value as **5,000** and high value as **6,000**

The screenshot shows a dialog box titled "Filter [Sales]" with a close button (X) in the top right corner. The dialog has four tabs: "Range of values" (selected and highlighted in blue), "At least", "At most", and "Special". Below the tabs, the "Range of values" section contains two input fields: the left one contains "5,000" and the right one contains "6,000". Below these fields is a horizontal slider with a handle in the middle, and the values "0.444" and "22638.48" are displayed at the ends of the slider. At the bottom of the dialog, there is a "Show:" dropdown menu set to "Only Relevant Values", an unchecked checkbox labeled "Include Null Values", and four buttons: "Reset", "OK" (highlighted with a blue border), "Cancel", and "Apply".

MEASURE FILTERS FOR AGGREGATED AND DISAGGREGATED DATA

STEPS TO ADD MEASURE FILTER FOR DISAGGREGATED DATA

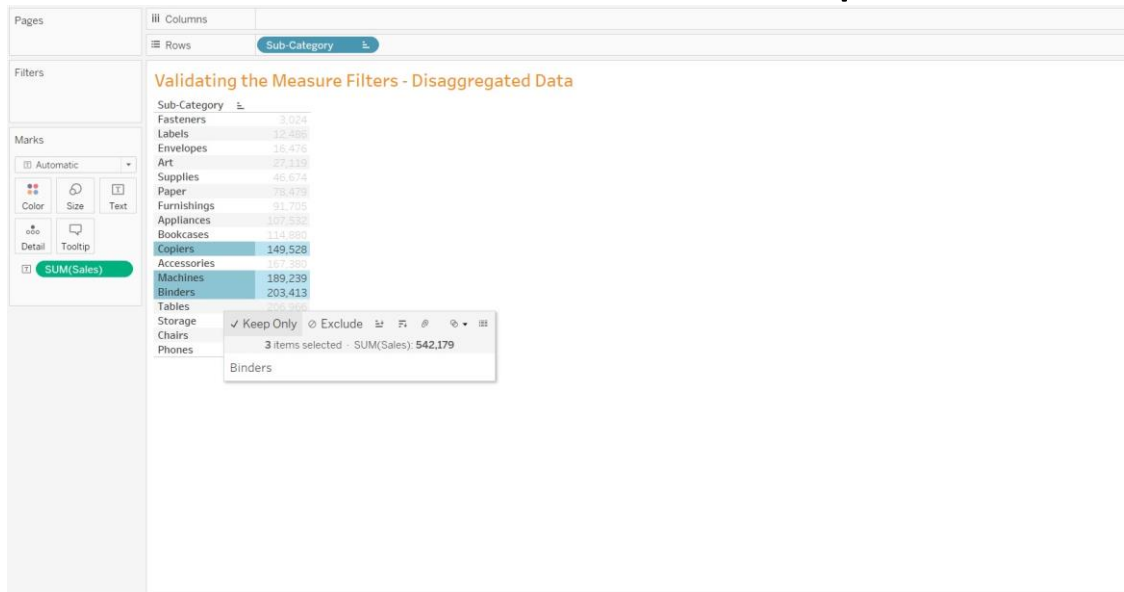
Step 5: Now the view shows only those Sub-Categories for which **the individual Sales** value is between **5,000 and 6,000**
This is the Row Level value i.e., disaggregated values



MEASURE FILTERS FOR AGGREGATED AND DISAGGREGATED DATA

STEPS TO ADD MEASURE FILTER FOR DISAGGREGATED DATA

Step 6: For validating the result we can create a crosstabs as shown below. Select only the Sub-Categories from the previous worksheet i.e., Machines, Copier & Binders
Select all required Sub-Categories and select **Keep Only** in the pop-up



MEASURE FILTERS FOR AGGREGATED AND DISAGGREGATED DATA

STEPS TO ADD MEASURE FILTER FOR DISAGGREGATED DATA

Step 7: Drag and drop **Sales** to the **Filters** Shelf

The screenshot shows the Tableau Desktop interface. On the left, the 'Data' pane is open, displaying a list of fields under 'Tables' and 'Measure Names'. The 'Sales' field is highlighted in green. In the center, the 'Filters' shelf contains 'Sub-Category' and 'SUM(Sales)'. The 'Marks' shelf is set to 'Automatic'. On the right, the 'Columns' shelf is empty, and the 'Rows' shelf contains 'Sub-Category'. The main view displays a table titled 'Validating the Measure Filters - Disaggregated Data' with the following data:

Sub-Category	SUM(Sales)
Copiers	149,528
Machines	189,239
Binders	203,413

MEASURE FILTERS FOR AGGREGATED AND DISAGGREGATED DATA

STEPS TO ADD MEASURE FILTER FOR DISAGGREGATED DATA

Step 8: Select **All values**, Enter the low value as **5,000** and high value as **6,000**

Filter Field [Sales] ✕

How do you want to filter on [Sales]?

- # **All values**
- # Sum
- # Average
- # Median
- # Count
- # Count (Distinct)
- # Minimum
- # Maximum
- # Standard deviation
- # Standard deviation (Population)
- # Variance
- # Variance (Population)
- # Attribute

Next > Cancel

Filter [Sales] ✕

Range of values At least At most Special

Range of values

5,000 6000

0.556 22638.48

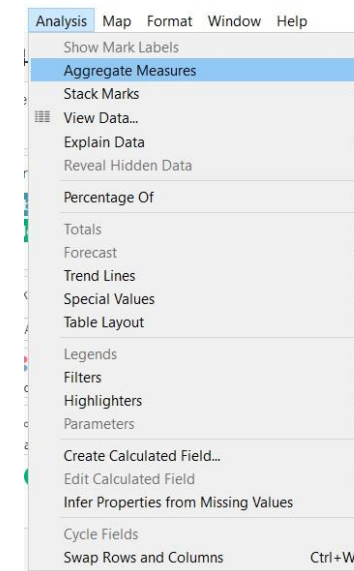
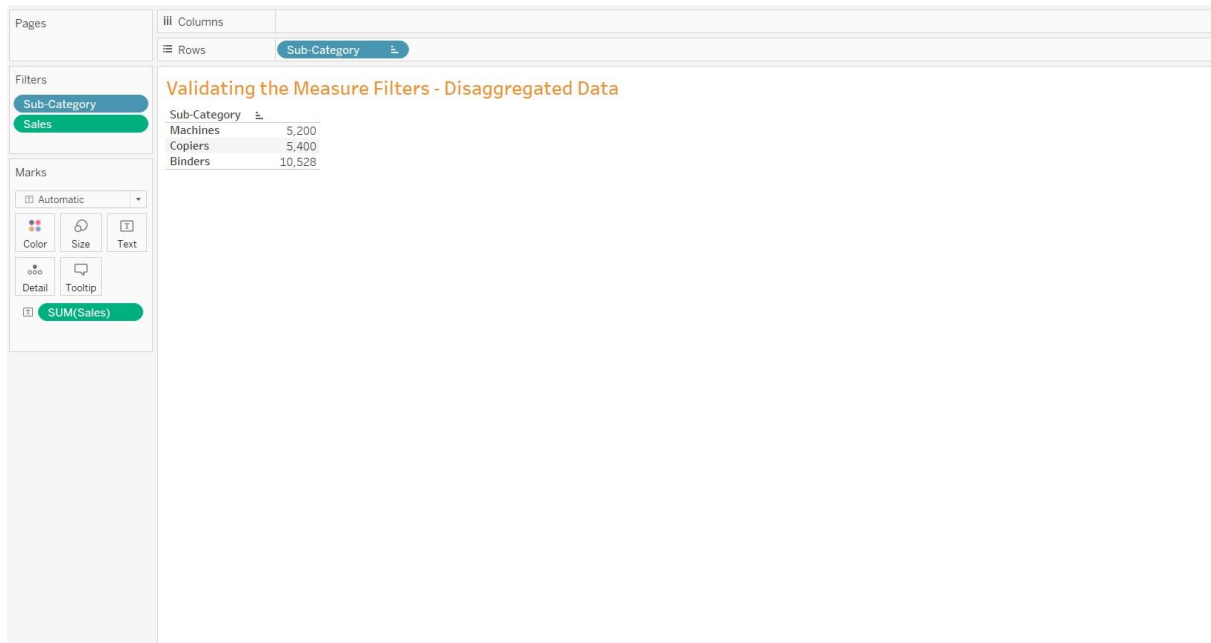
Show: Only Relevant Values Include Null Values

Reset OK Cancel Apply

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STEPS TO ADD MEASURE FILTER FOR DISAGGREGATED DATA

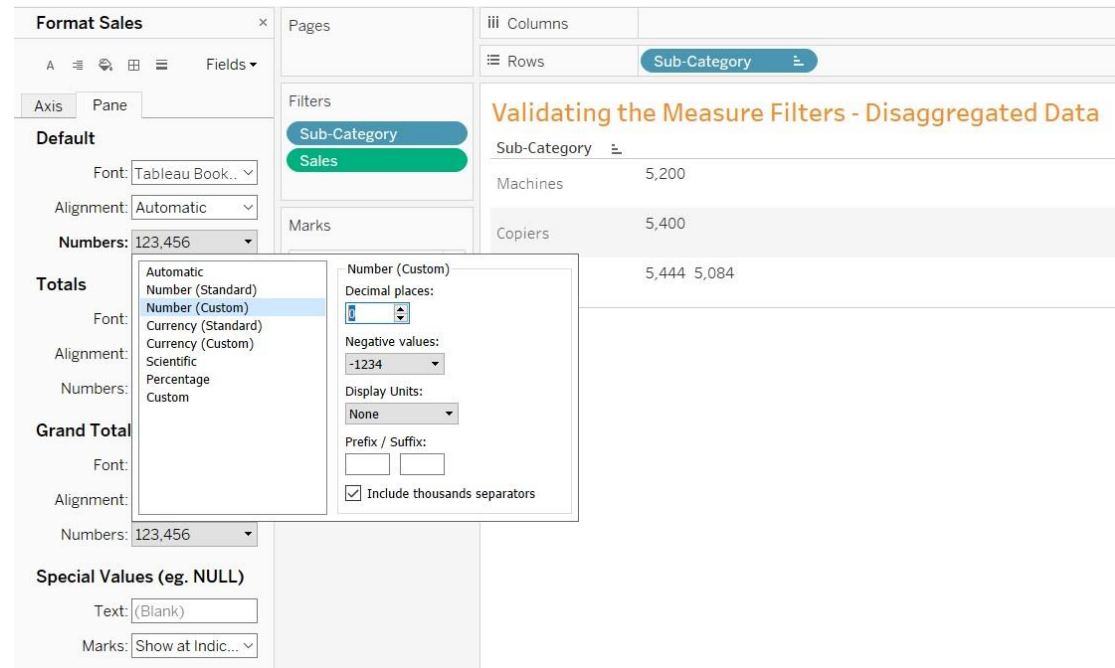
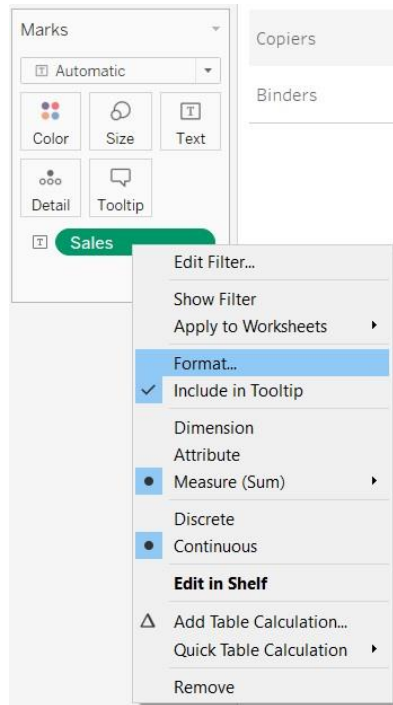
Step 9: Now the view shows only those Sub-Categories for which **the individual Sales** value is between **5,000 and 6,000**
This is the Row Level value i.e., disaggregated values
To confirm this, Go to **Analysis > Clear Aggregate Measures**



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STEPS TO ADD MEASURE FILTER FOR DISAGGREGATED DATA

Step 10: If required change the Number Format as mentioned below
Right-click **Sales**, **Format** > **Format Pane** > **Number (Custom)**



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STEPS TO ADD MEASURE FILTER FOR AGGREGATED DATA

Step 11: This view now shows the same Sub-Categories having the individual **Sales** value between **5,000** and **6,000** and it matches the results of the previous worksheet

