

DATA ANALYTICS ASSIGNMENT - 04

DATA ANALYTICS WITH IBM COGNOS ANALYTICS

DATE : 22 - 09 - 2023

SOFTWARE USED : TABLEAU (SALESFORCE)

SUBMITTED BY:

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**VIT-AP
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ANDHRA PRADESH, INDIA

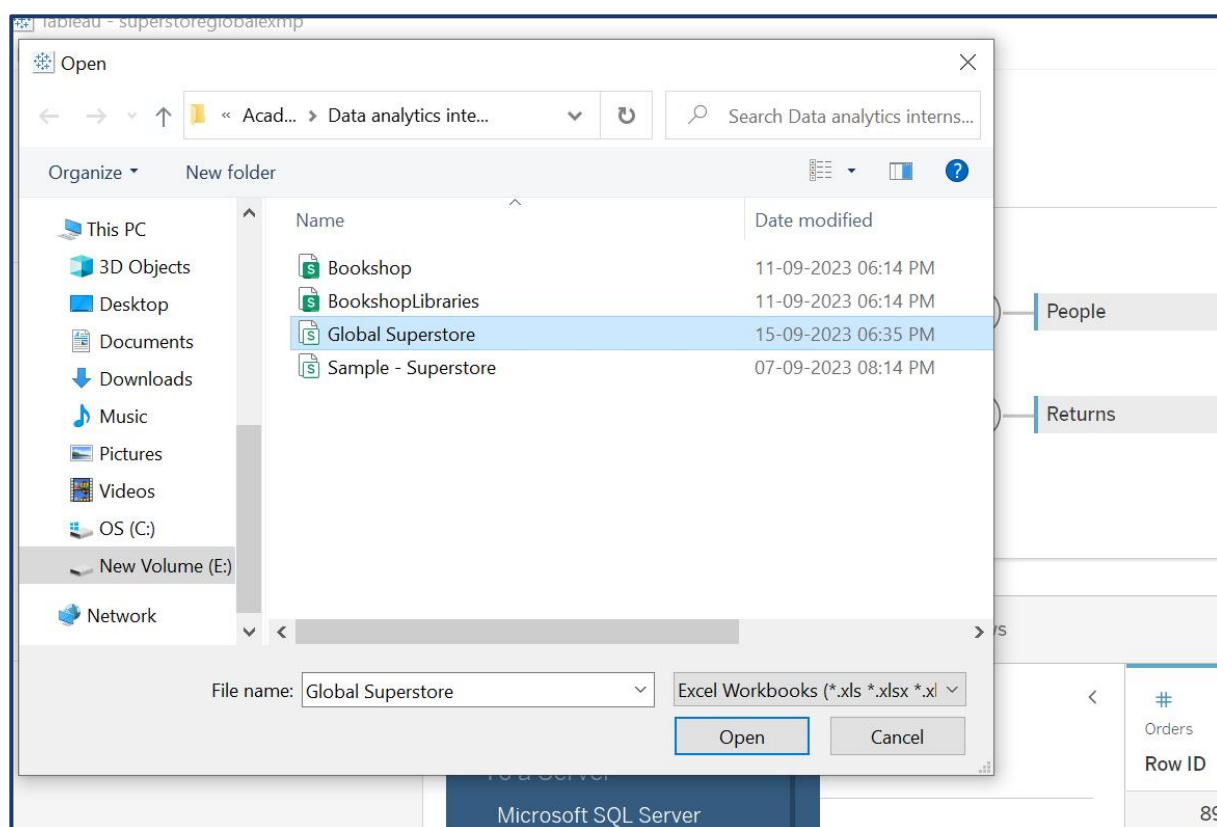
❖ Objective:

Upload the dataset to Tableau, create any five visualizations using basic and LOD calculated fields.

➤ Uploading dataset to Tableau:

Given dataset: [Global Superstore]

Clicking on microsoft excel and choosing the **global superstore file**. As it is **.xlsx** file , we are uploading it **directly** without using mysql.



Joining the three tables of dataset using **full outer join**.



➤ Visualization 1: (using basic calculated field)

Revenue per unit as per market.

Calculation made: $\text{IIF}([\text{Quantity}] \neq 0, [\text{Sales}] / [\text{Quantity}], 0)$

Drop field here

Revenue per unit for

Orders+ (Global Superstore)

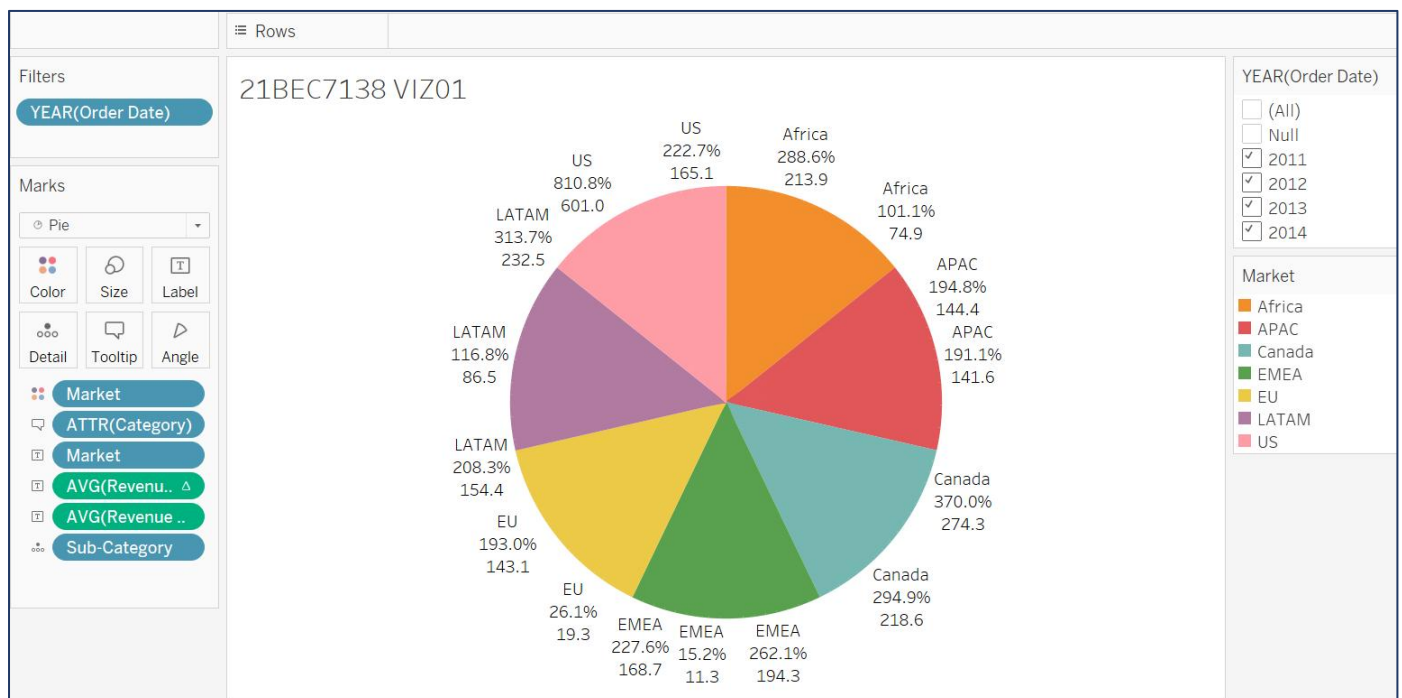
$\text{IIF}([\text{Quantity}] \neq 0, [\text{Sales}] / [\text{Quantity}], 0)$

The calculation is valid.

Apply

OK

➤ Visualization (Pie chart):



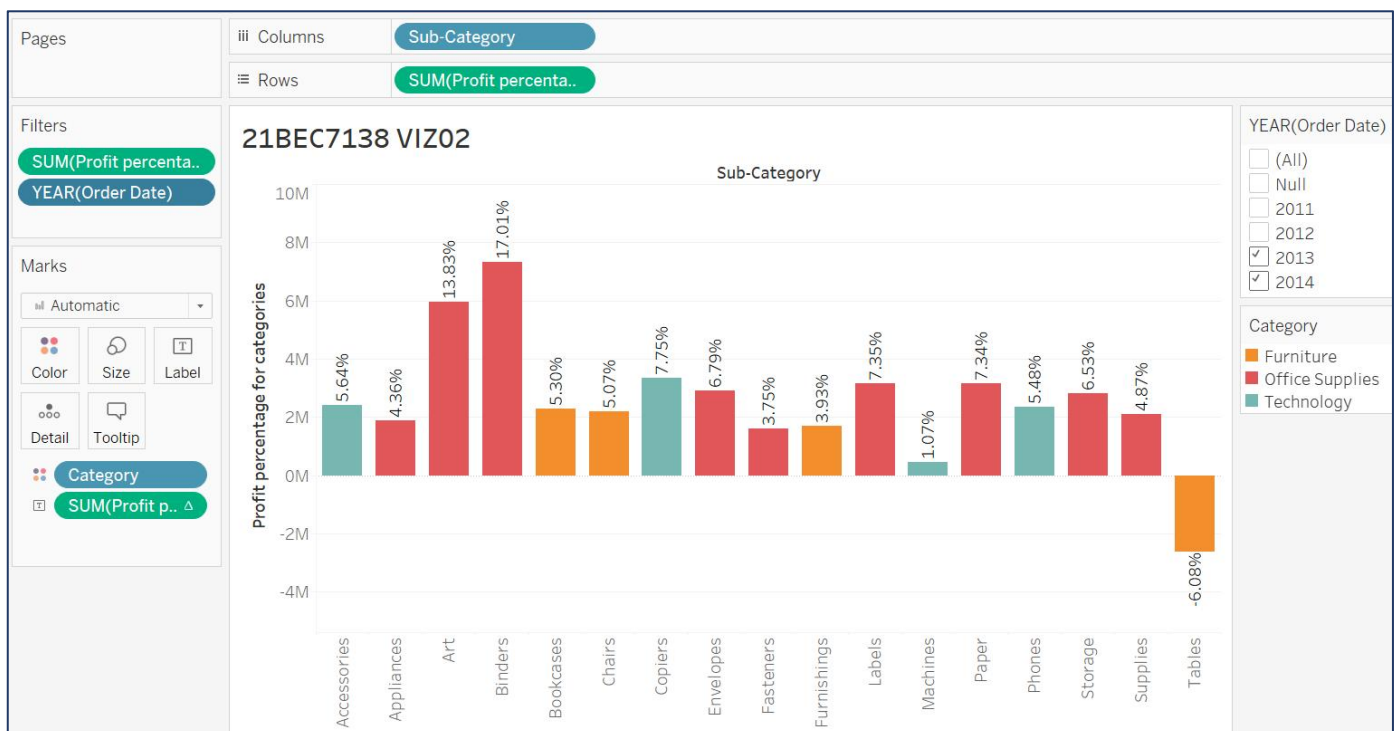
➤ Visualization 2: (using basic calculated field)

Profit percentage for categories.

Calculation made: $\text{IIF}([\text{Sales}] \neq 0, [\text{Profit}] / [\text{Sales}] * 100, 0)$



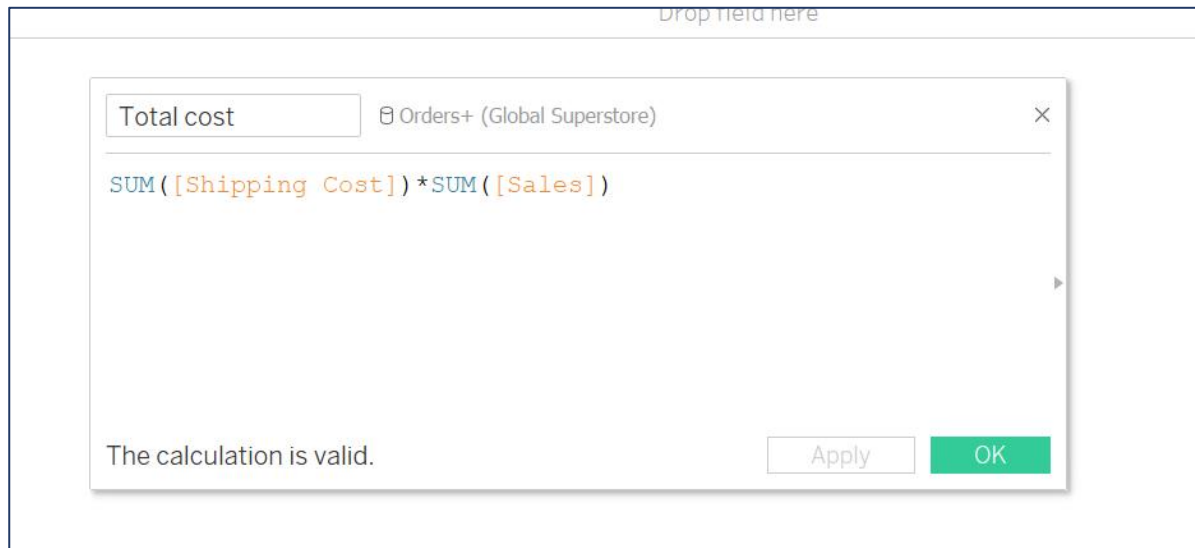
➤ Visualization (Bar chart):



➤ Visualization 3: (using basic calculated field)

Total cost

Calculation made: $\text{SUM}([\text{Shipping Cost}]) * \text{SUM}([\text{Sales}])$



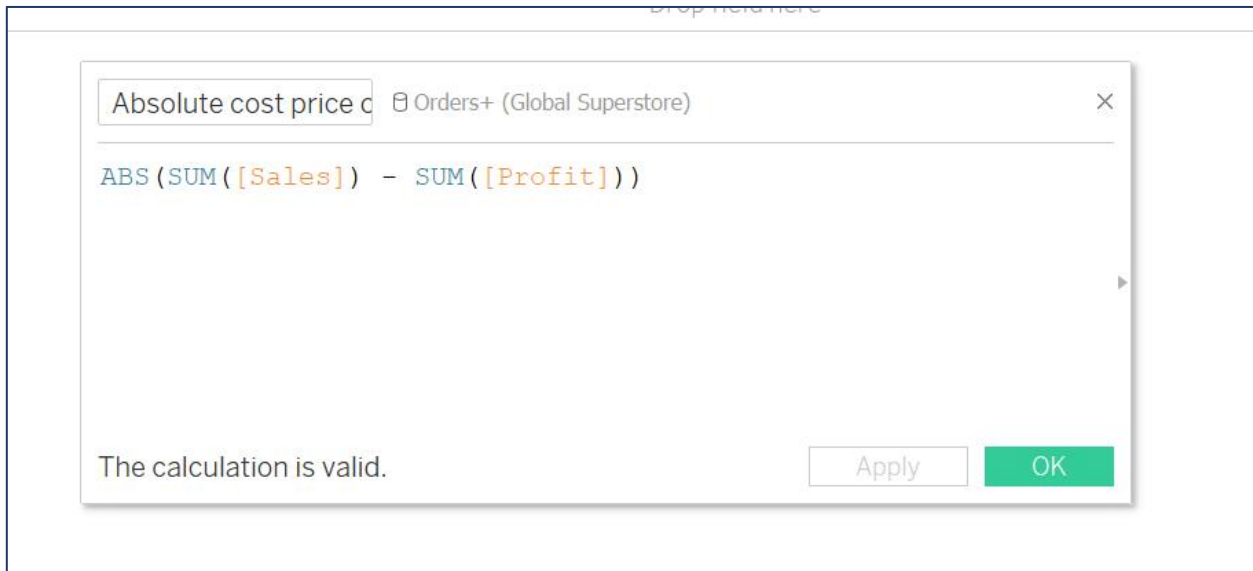
➤ Visualization (Bar chart):



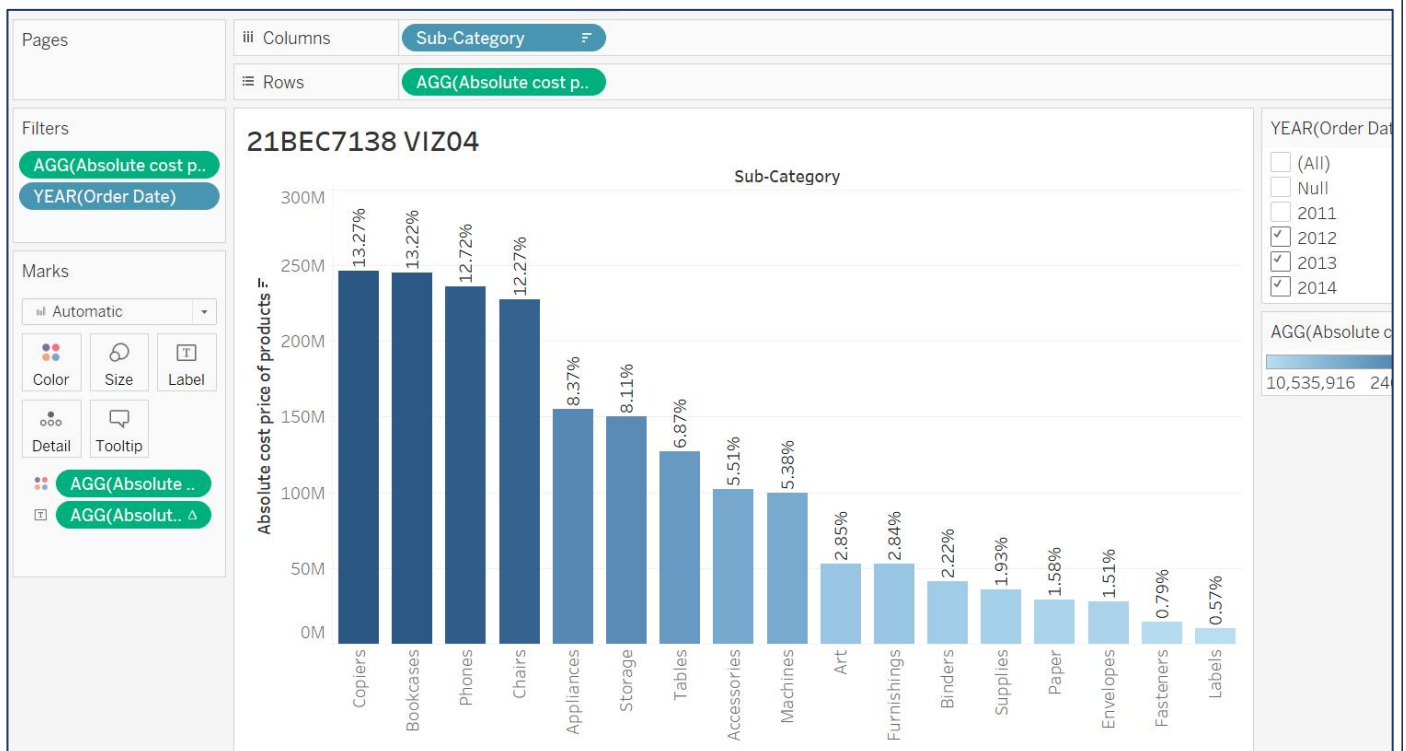
➤ Visualization 4: (using basic calculated field)

Absolute cost price of product.

Calculation made: $\text{ABS}(\text{SUM}([\text{Sales}]) - \text{SUM}([\text{Profit}]))$



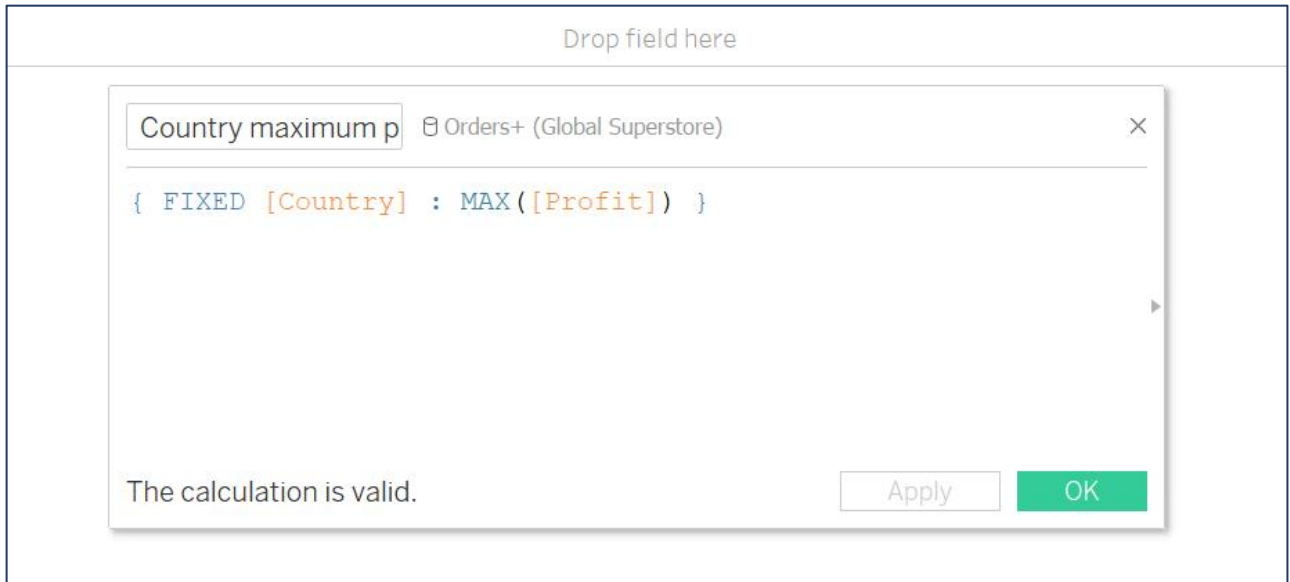
➤ Visualization (Bar chart):



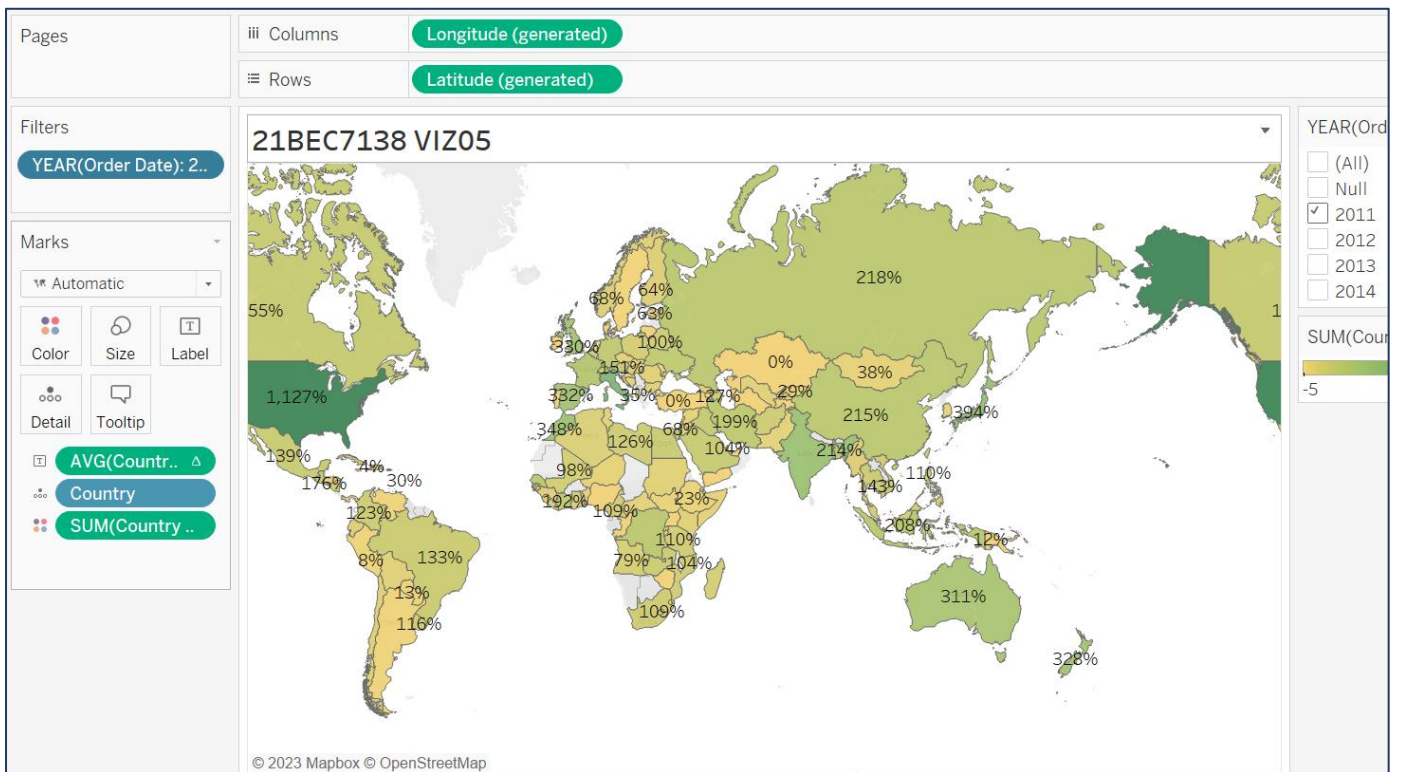
➤ Visualization 5: (using LOD calculated field)

Country maximum profits.

Calculation made: { FIXED [Country] : MAX([Profit]) }



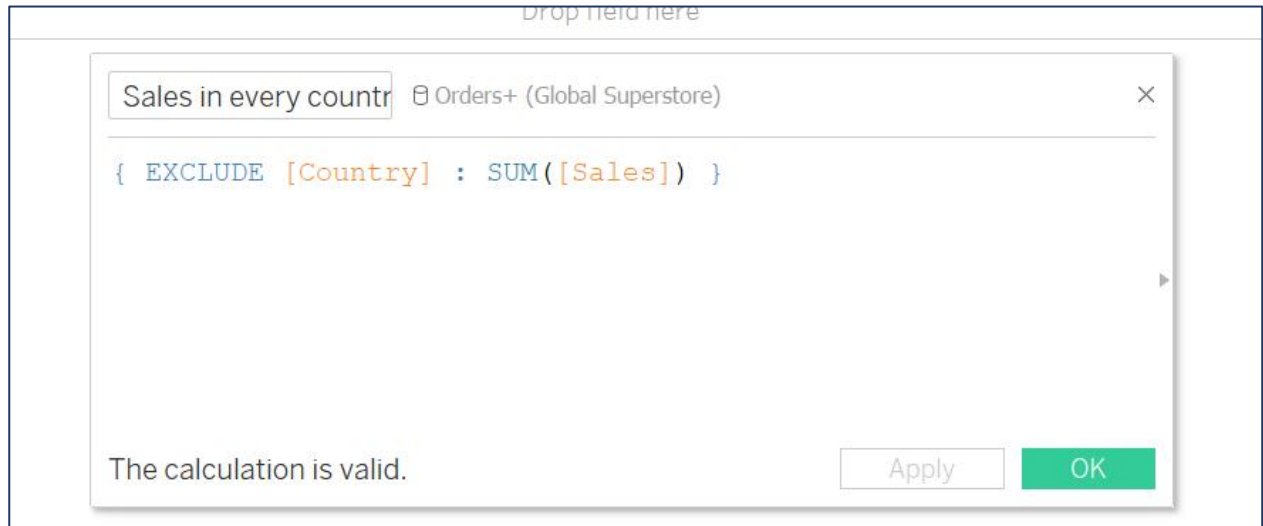
➤ Visualization (Map chart):



➤ Visualization 6: (using LOD calculated field)

Sales in selected country.

Calculation made: { EXCLUDE [Country] : SUM([Sales]) }



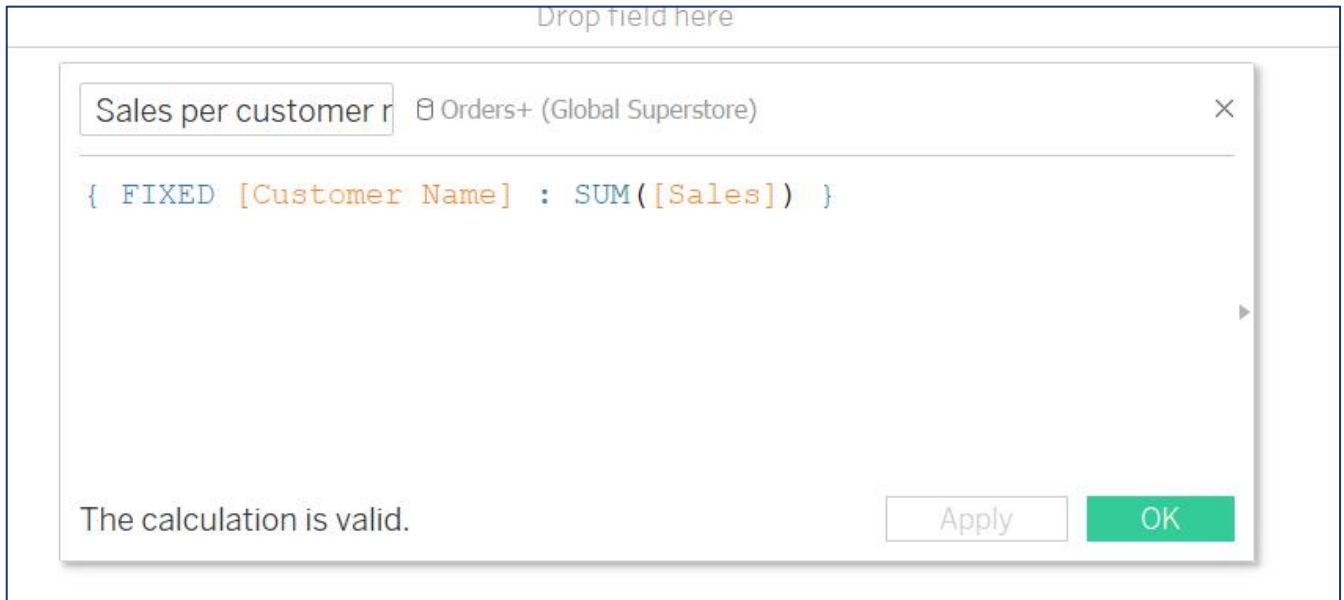
➤ Visualization (Stacked bar chart):



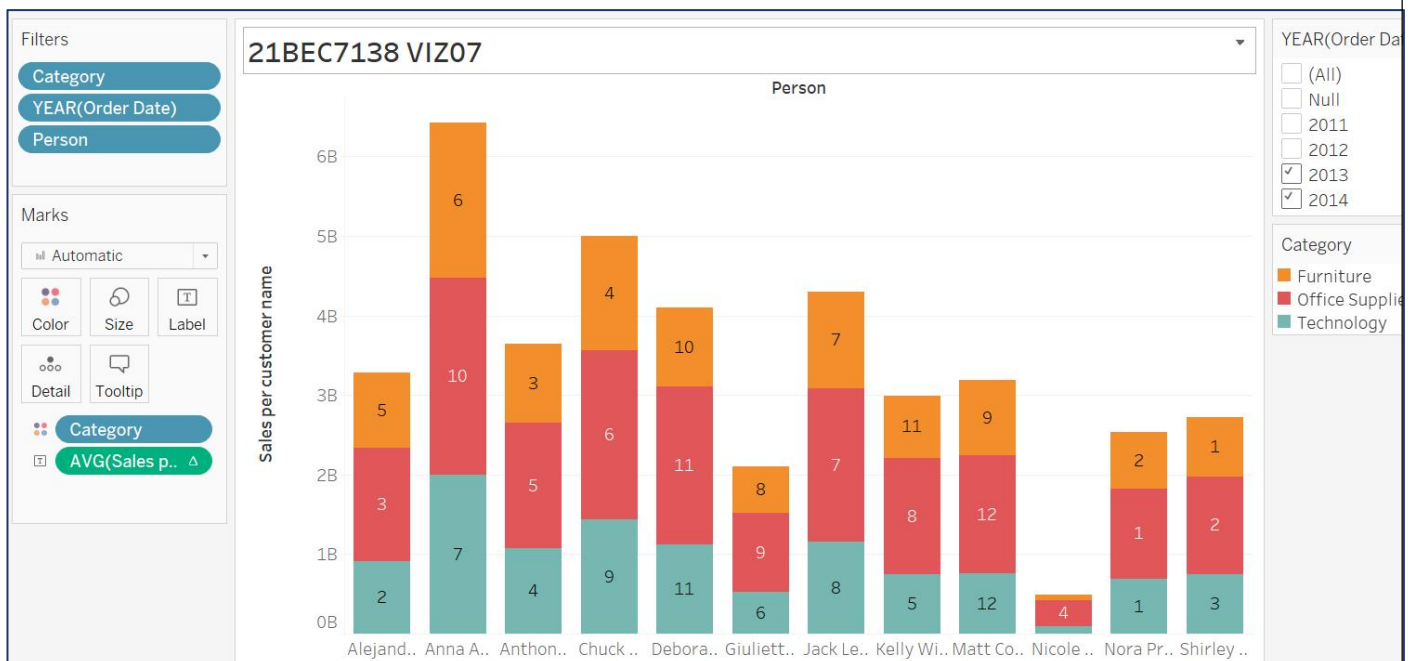
➤ Visualization 7: (using LOD calculated field)

Sales per customer name.

Calculation made: { FIXED [Customer Name] : SUM([Sales]) }



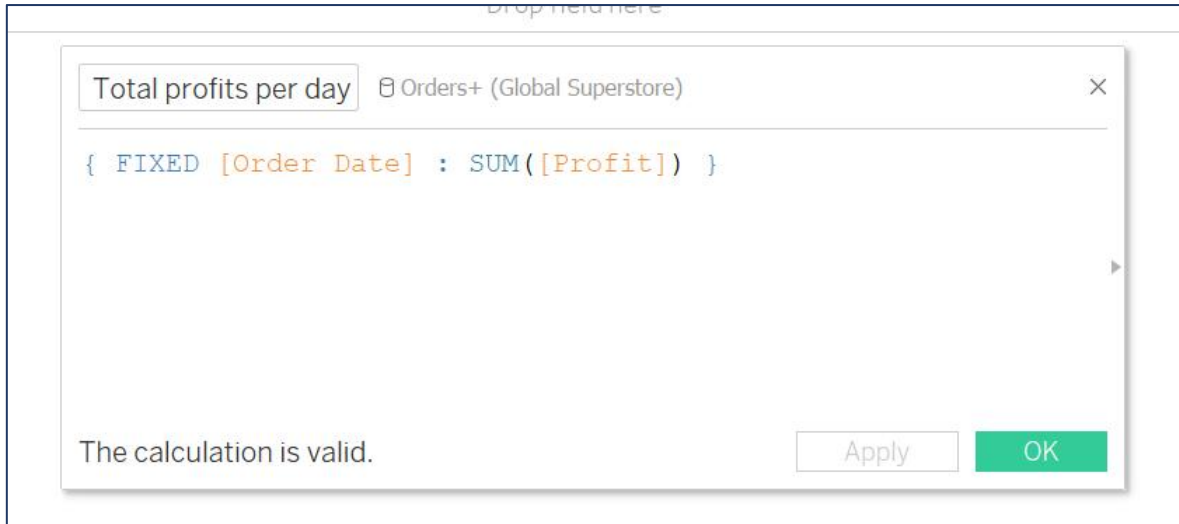
➤ Visualization (Stacked bar chart):



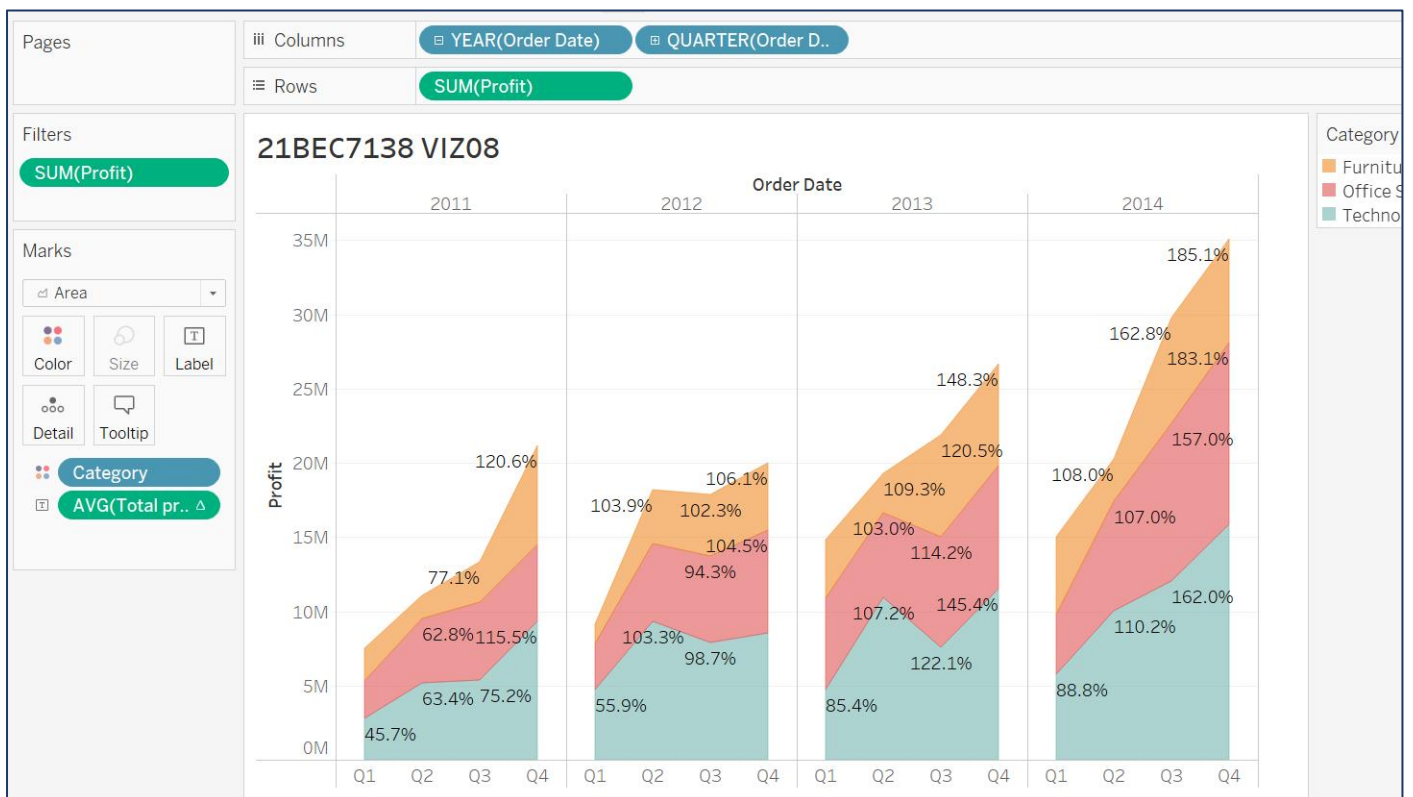
➤ Visualization 8: (using LOD calculated field)

Total profits per day.

Calculation made: { FIXED [Order Date] : SUM([Profit]) }



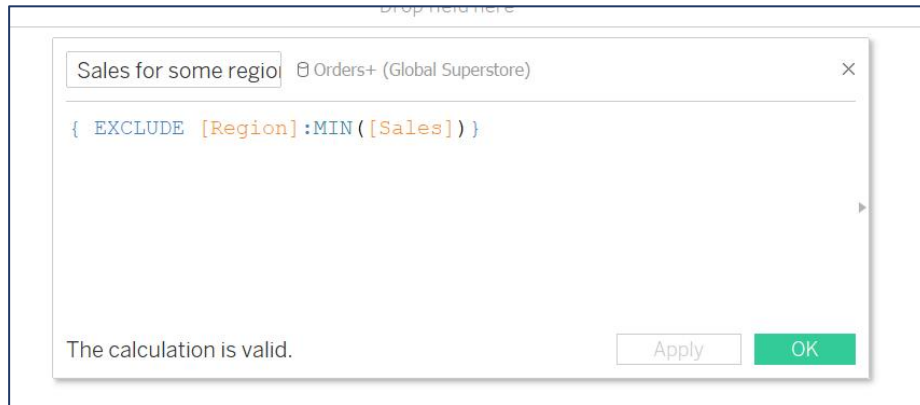
➤ Visualization (Area chart):



➤ Visualization 9: (using LOD calculated field)

Minimum sales in some region.

Calculation made: { EXCLUDE [Region]:MIN([Sales]) }



➤ Visualization (Column chart):

