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DA Assignment 4

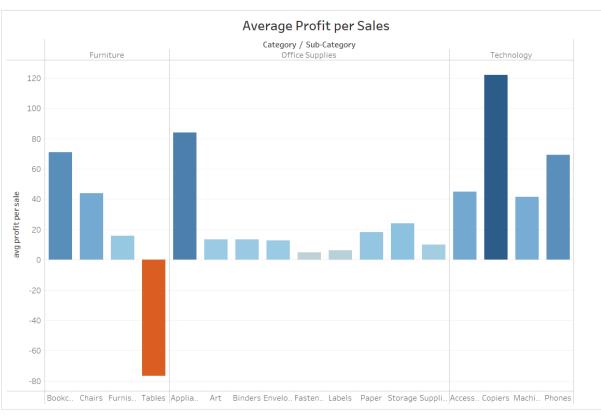
Creating a Data Module called Global Superstore dataset

Basic Calculations: Using pre built functions provided by Tableau we try to create new 'Calculated fields'

1) Average Profit per Sale: Calculate the average profit per sale.

Calculation Formula: SUM([Profit]) / COUNTD([Order ID])

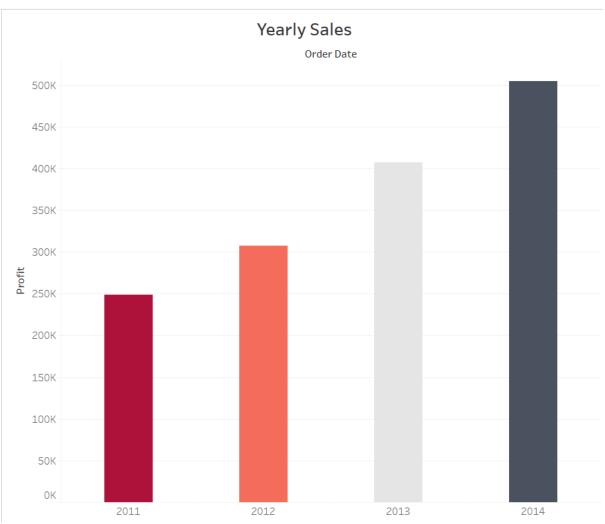




2) Yearly Sales: Group sales by year.

Calculation Formula: SUM(IF YEAR([Order Date]) = YEAR(TODAY()) THEN [Sales] END)



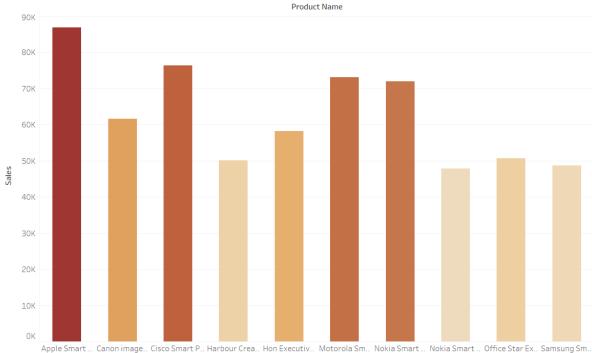


3) Top N Products by Sales: Find the top N products by sales.

Calculation Formula: { FIXED [Product Name] : SUM([Sales]) }



Top N Products by Sales Product Name



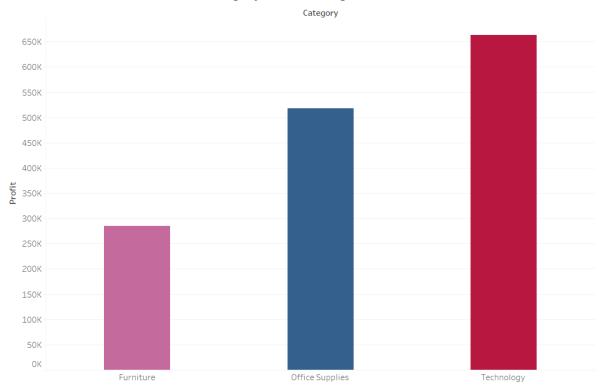
LOD Expressions: also called as Level of Detail. These Expressions contain three main functions

- FIXED
- INCLUDE
- EXCLUDE
- 1) Category-Level Average Profit: Calculate the average profit for each category, regardless of the dimension of your view.

LOD Expression: { FIXED [Category] : AVG([Profit]) }



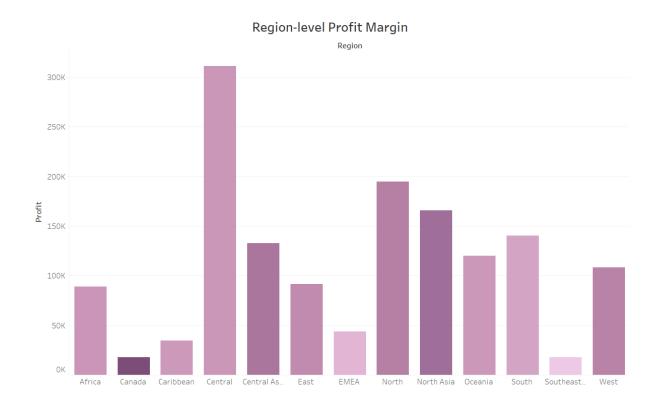
Category-Level Average Profit



2) **Region-Level Profit Margin:** Calculate the profit margin for each region, considering the overall profit and sales.

LOD Expression: { FIXED [Region] : SUM([Profit]) / SUM([Sales]) }



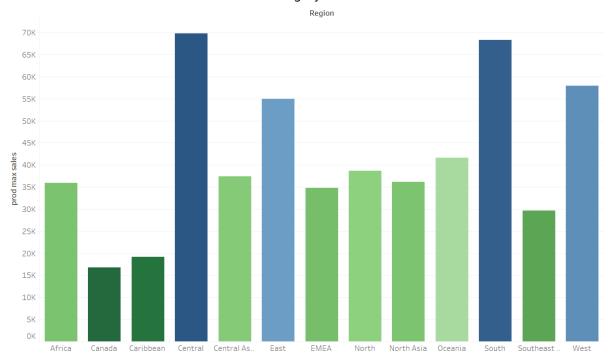


3) **Product Sub-Category-Level Max Sales, Including Region:** This finds the maximum sales value for each product sub-category while including the region dimension.

LOD Expression: { INCLUDE [Region], [Sub-Category] : MAX([Sales]) }



Product Sub-Category-Level Max Sales



4) **Region-Level Sales Rank, Excluding Category:** This ranks regions by sales while excluding the category dimension.

LOD Expression: { EXCLUDE [Category] : RANK(SUM([Sales])) }



Region-Level Sales Rank, Excluding Category

