

# DATA ANALYTICS ASSIGNMENT 3

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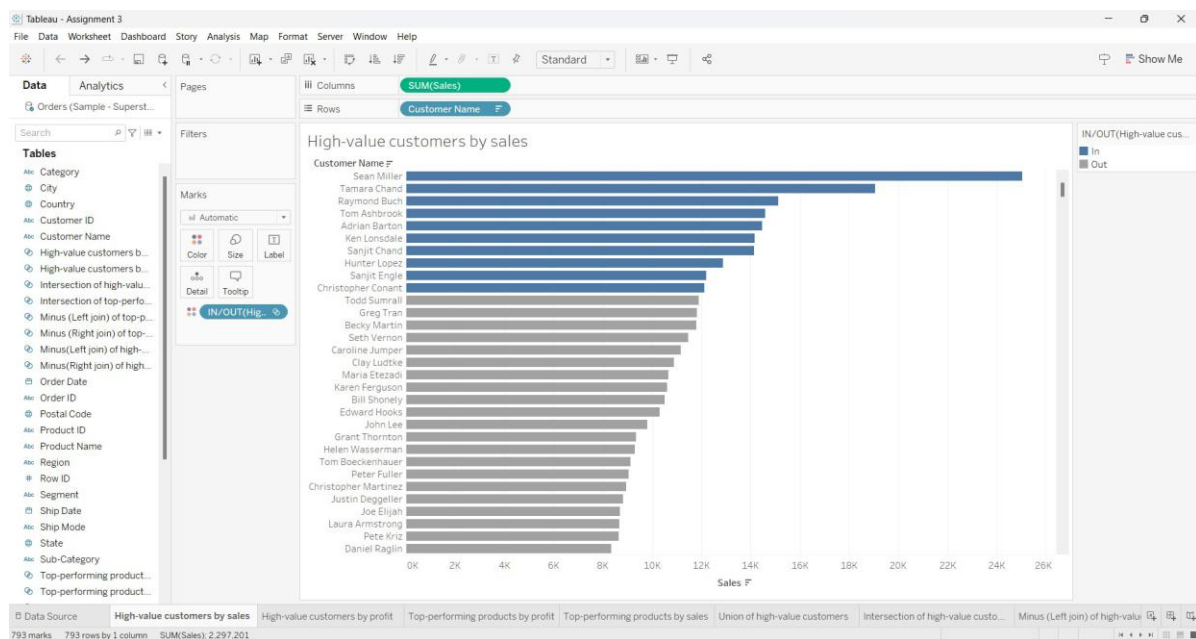
IV B.TECH (CSE)

VIGNAN'S NIRULA INSTITUTE OF TECHNOLOGY AND SCIENCE FOR WOMEN  
(VNITSW)

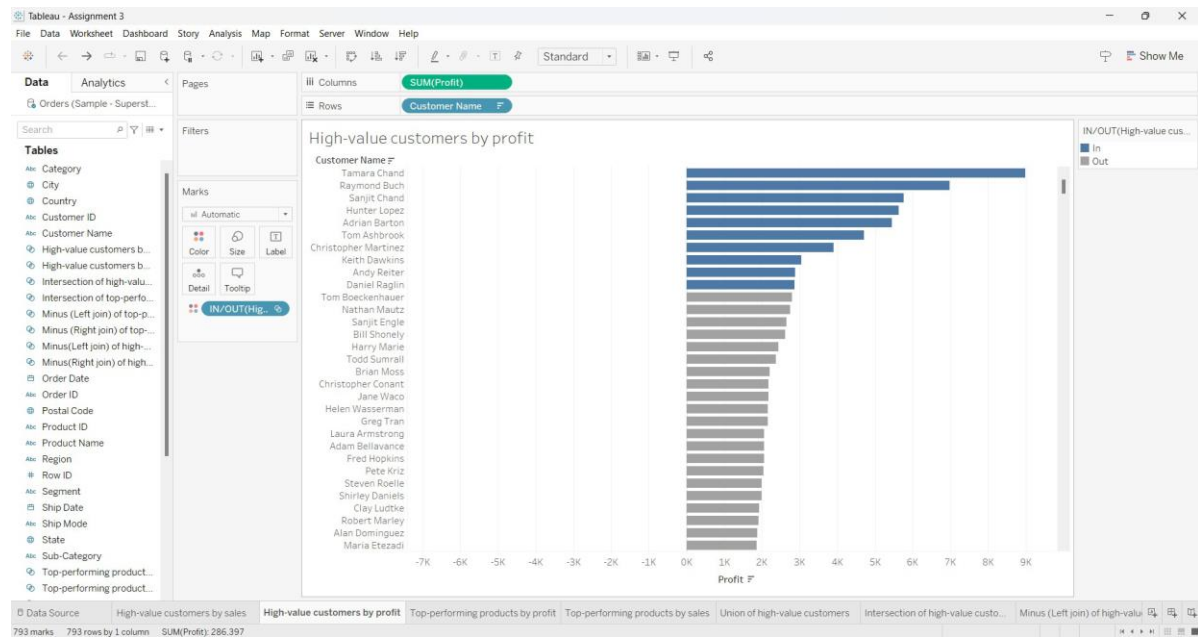
**DATASET :**  **Sample - Superstore.xls**

- Define at least two sets based on specific criteria from your dataset (e.g., high-value customers, top-performing products).
- Experiment with combining sets using UNION, INTERSECT, and MINUS operations.
- Create 2 Calculation field using any aggregate function
- Create any 3 visualization using quick Table Calculations

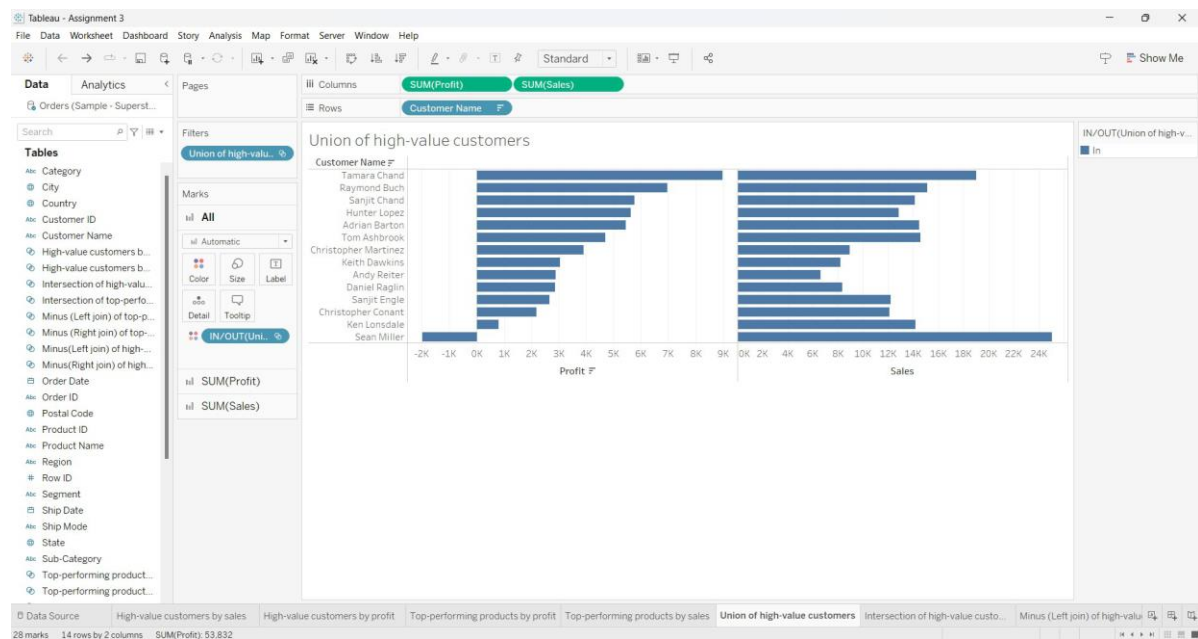
## HIGH-VALUE CUSTOMERS BY SALES



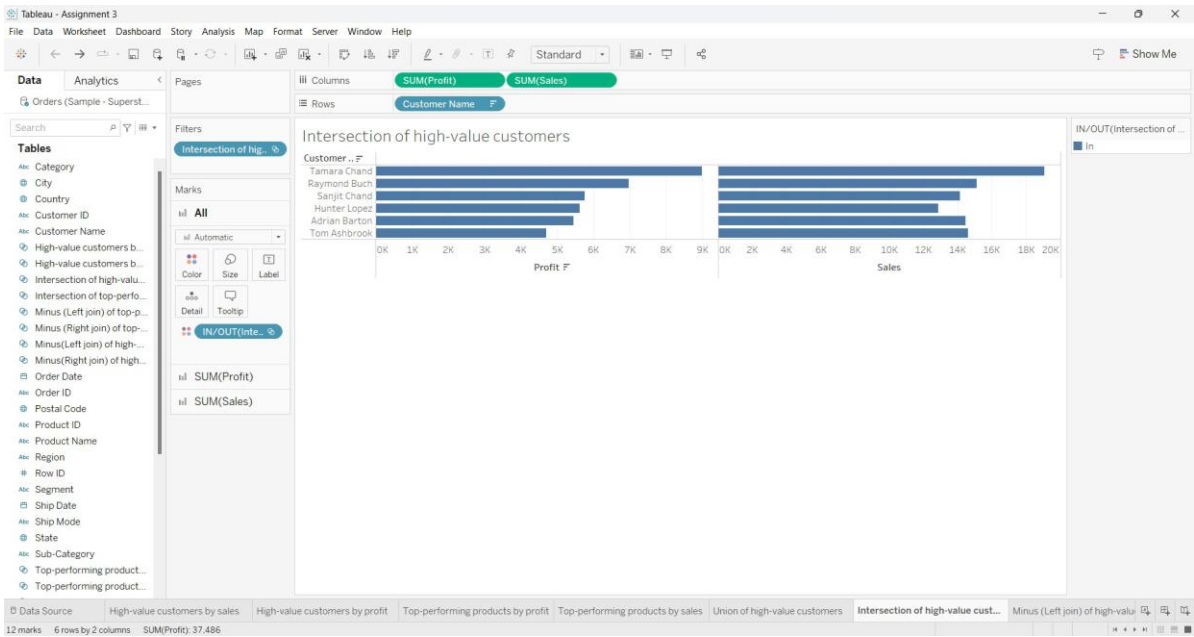
# HIGH-VALUECUSTOMERSBYPROFIT



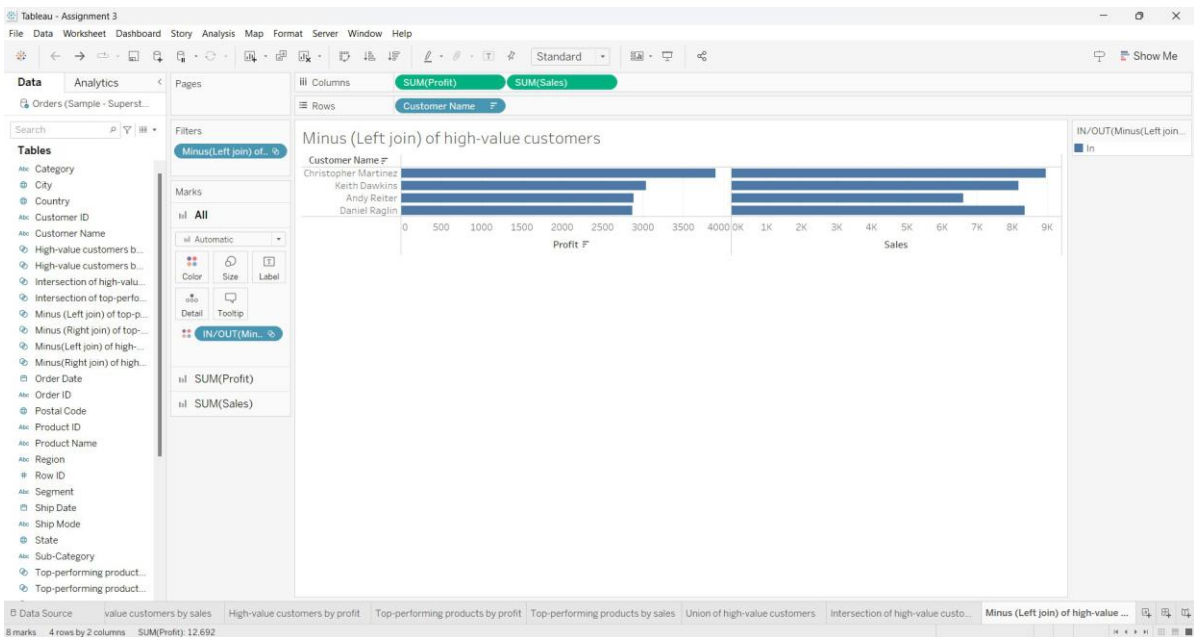
# UNION OF HIGH-VALUE CUSTOMERS



# INTERSECTIONOFHIGH-VALUECUSTOMERS



# MINUS (LEFT JOIN) OF HIGH-VALUE CUSTOMERS



The screenshot shows a Tableau worksheet with a dual-axis bar chart. The chart is titled 'Minus (Right join) of high-value customers'. The left y-axis represents 'Profit F' ranging from -2000 to 2500. The right y-axis represents 'Sales' ranging from 0K to 24K. The x-axis lists three customers: Sanjit Engle, Christopher Conant, and Ken Lonsdale. The chart displays two data series: 'In' (blue bars) and 'OUT' (grey bars). The legend indicates that the blue bars represent 'In' (Included) and the grey bars represent 'OUT' (Excluded). The chart shows that Sanjit Engle and Christopher Conant have high sales but low profit, while Ken Lonsdale has high sales and high profit.

Customer Name	Profit F (Approx.)	Sales (Approx.)
Sanjit Engle	2500	12K
Christopher Conant	1000	14K
Ken Lonsdale	2500	24K

The screenshot shows the Tableau Desktop interface. The main view is a horizontal bar chart titled "Top-performing products by profit". The x-axis represents "Profit" with a scale from -10K to 26K. The y-axis lists various product names. The bars are colored blue, indicating they are "In" the top-performing category. The interface includes a sidebar with "Columns" (SUM(Profit)) and "Rows" (Product Name), a "Marks" card set to "Automatic", and a "Filters" shelf with "IN/OUT(Top-performing products)".

Product Name	Profit (Approximate)	Category
Canon imageCLASS 2.	25.5K	In
Fellowes PB500 Elec.	8.5K	In
Hewlett Packard Las.	7.5K	In
Canon PC1060 Pers.	6.5K	In
HP DesignJet T520 I.	5.5K	In
Ativa V4110400-III.	4.5K	In
3D Systems Cube Pri.	4.5K	In
Plantronics Savi W7.	4.5K	In
Ibico EPK-21 Electric	4.5K	In
Zebra ZM400 Therm.	4.5K	In
Honeywell Enviracal.	4.5K	In
Hewlett Packard 61.	4.5K	In
Plantronics CS510 -	4.5K	In
Canon imageclass D.	4.5K	In
Fellowes PB300 Plas.	4.5K	In
Ibico Ibmaster 300.	4.5K	In
Logitech Z-906 Spea.	4.5K	In
GBC DocuBind TL300.	4.5K	In
Razer Tamat Over E.	4.5K	In
Canon PC940 Copier	4.5K	In
Sharp AL-1530CS Di.	4.5K	In
Hot File 7-Pocket, Fl.	4.5K	In
Canon imageCLASS.	4.5K	In
Canon PC1080F Pers.	4.5K	In
Adjustable Depth Le.	4.5K	In
Hon Deluxe Fabric U.	4.5K	In
Samsung Galaxy Me.	4.5K	In
Canon Image Class D.	4.5K	In
Hewlett-Packard De.	4.5K	In
Sanyo Counter Heig.	4.5K	In
Sharp 1540cs Digital.	4.5K	In

**Tableau - Assignment 3**

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Views: Worksheet, Dashboard, Story, Analysis, Map, Format, Server, Window, Help

Columns: SUM(Sales)

Rows: Product Name

Search: Orders (Sample - Superst...)

Tables:

- Category
- City
- Country
- Customer ID
- Customer Name
- High-value customers b...
- High-value customers b...
- Intersection of high-val...
- Intersection of top-perf...
- Minus (Left join) of top-p...
- Minus (Right join) of top...
- Minus (Left join) of high...
- Minus (Right join) of high...
- Order Date
- Order ID
- Postal Code
- Product ID
- Product Name
- Region
- Row ID
- Segment
- Ship Date
- Ship Mode
- State
- Sub-Category
- Top-performing product...
- Top-performing product...

Marks:

- Automatic
- Color
- Size
- Label
- Detail
- Tooltip
- IN/OUT (Top-perf...

Legend: IN/OUT (Top-performing products)

- IN (Blue)
- OUT (Grey)

Top-performing products by sales

Product Name	Sales (Approximate)
Canon imageCLASS Z	60K
Fellowes PB500 Elec	28K
Cisco TelePresence S	25K
HON 5400 Series Ta	22K
GBC DocuBind T1300	20K
GBC iBmaster 500	18K
Hewlett Packard Las	17K
HP Designjet TS20 I	16K
GBC DocuBind P400	15K
High Speed Automat	14K
Lexmark MX611dhe	13K
Martin Yale Chadles	12K
Ibico EPK-21 Electric	11K
Riverside Palais Roy	10K
3D Systems Cube Pro	9K
Samsung Galaxy Me	8K
Apple iPhone 5	7K
Bretford Rectangula	6K
Gloval Troy Executiv	5K
Canon PC1060 Perso	4K
SAFCO Arco Folding	3K
Honeywell Enviracai	2K
Cushy CubeX 3D Ph	1K
DMI Eclipse Executiv	1K
Tennisco 6- and 18-C	1K
Plantronics CS510 -	1K
Hon Deluxe Fabric U	1K
Logitech P710w Mob	1K
Chromcraft Bull-Nos	1K
Tennisco Double-Tier	1K
Bush Advantage Coll	1K

Sales F

Bottom Bar:

- Data Source
- High-value customers by sales
- High-value customers by profit
- Top-performing products by profit
- Top-performing products by sa...
- Union of high-value customers
- Intersection of high-value custo...
- Minus (Left join) of high-val...

**Tableau - Assignment 3**

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Columns: SUM(Profit), SUM(Sales)

Rows: Product Name

Filters: Union of top-performing products

Search: Orders (Sample Superstore)

Tables:

- Category
- City
- Country
- Customer ID
- Customer Name
- High-value customers by...
- High-value customers by...
- Intersection of high-value...
- Intersection of top-performing...
- Minus (Left join) of top-performing...
- Minus (Right join) of top-performing...
- Minus (Left join) of high-value...
- Minus (Right join) of high-value...
- Order Date
- Order ID
- Postal Code
- Product ID
- Product Name
- Region
- Row ID
- Segment
- Ship Date
- Ship Mode
- State
- Sub-Category
- Top-performing product...
- Top-performing product...

Marks:

- Color
- Size
- Label
- Detail
- Tooltip
- IN/OUT (Union)

Legend:

- In
- Out

Chart Title: Union of top-performing products

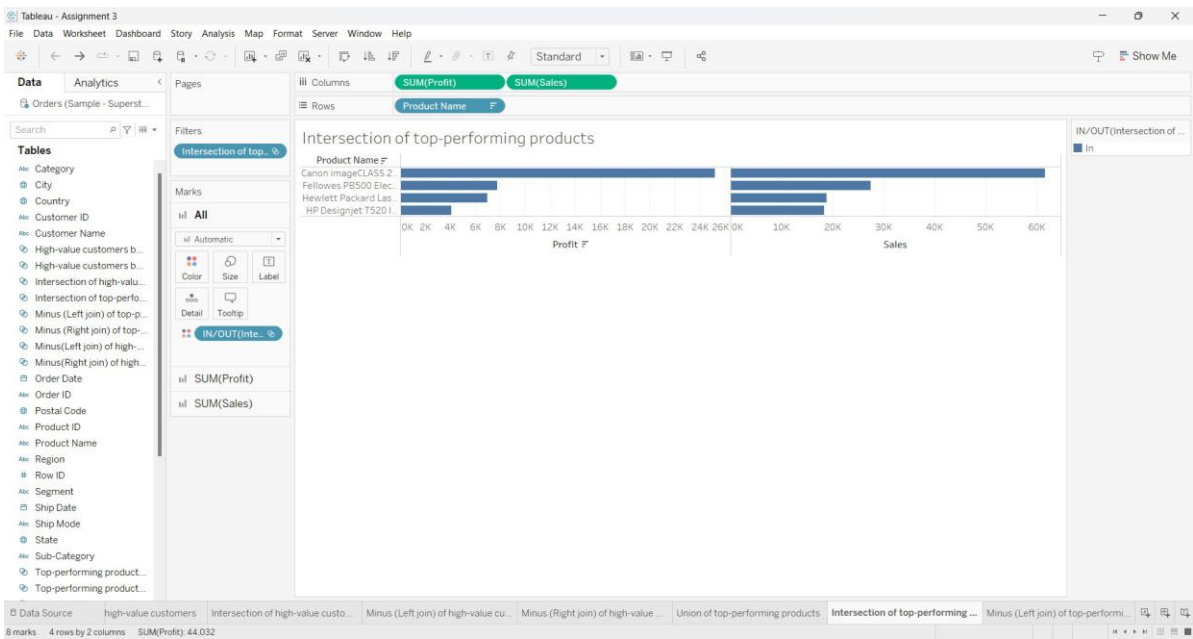
Product Name

Profit (€)

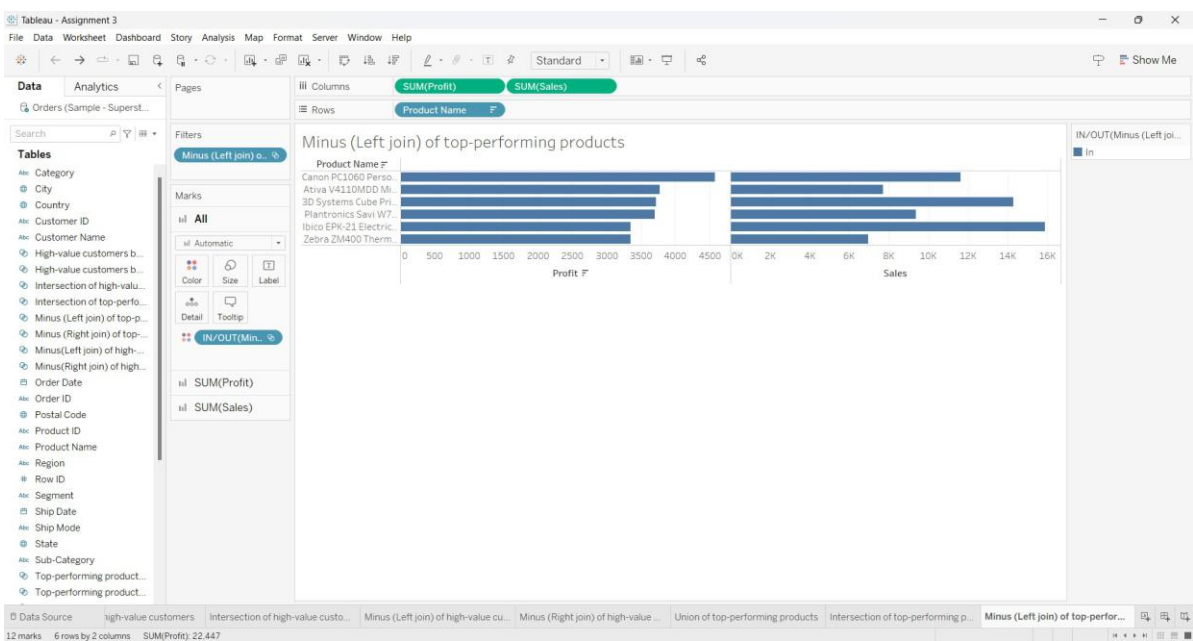
Sales

32 marks 16 rows by 2 columns SUM(Profit): 65,522

INTERSECTION OF TOP-PERFORMING PRODUCTS

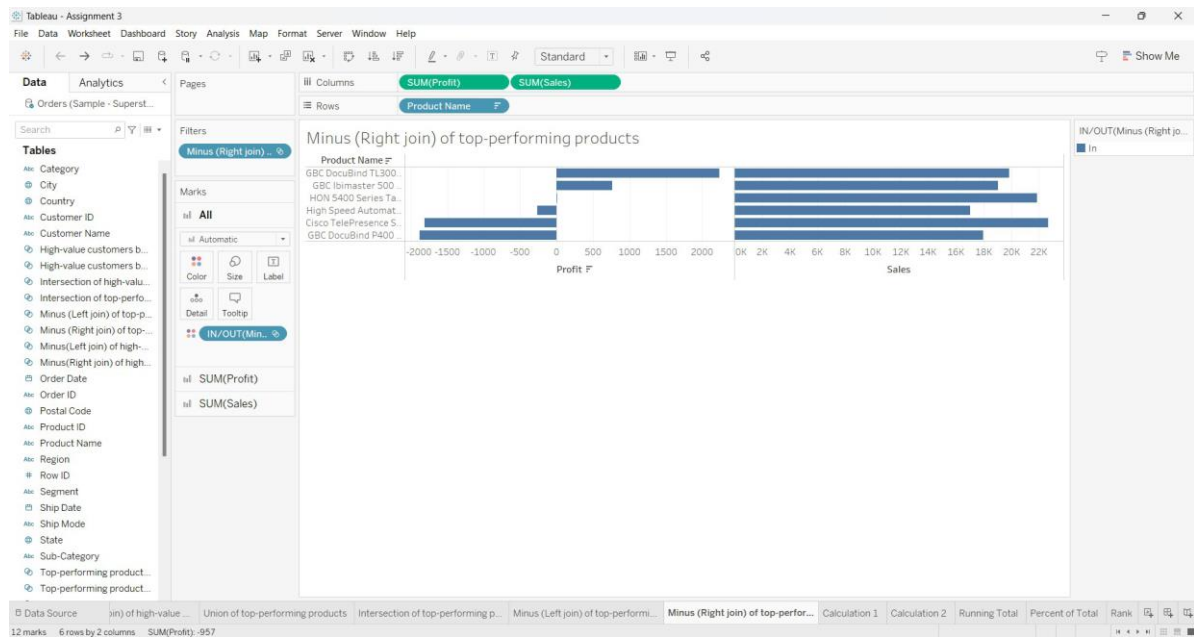


MINUS (LEFT JOIN) OF TOP-PERFORMING PRODUCTS

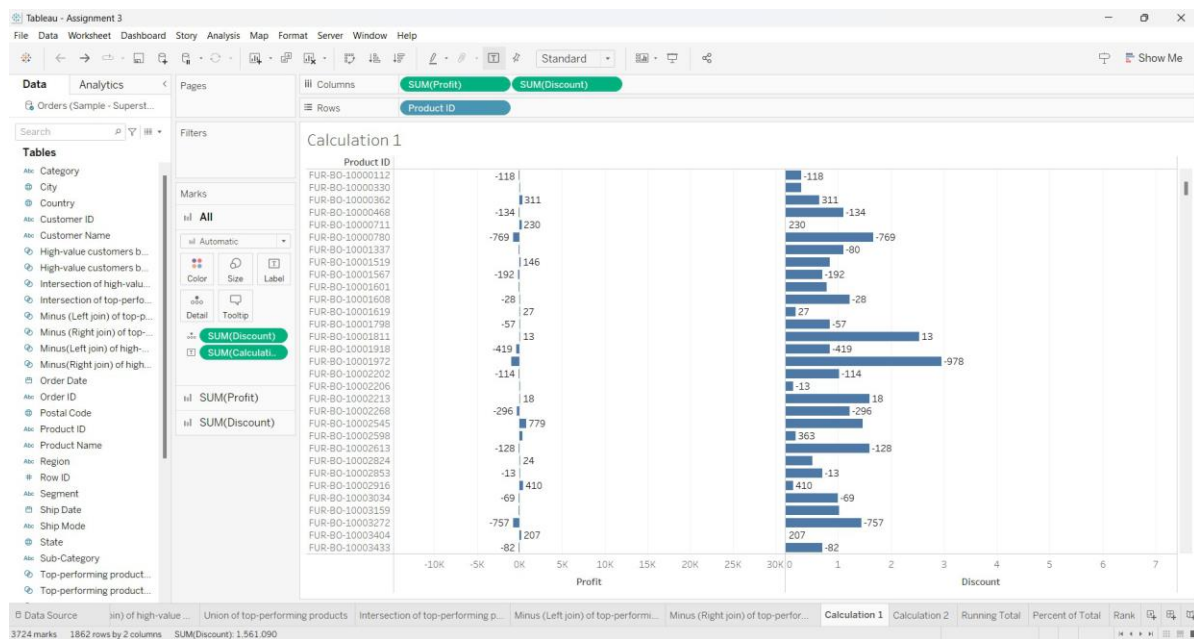




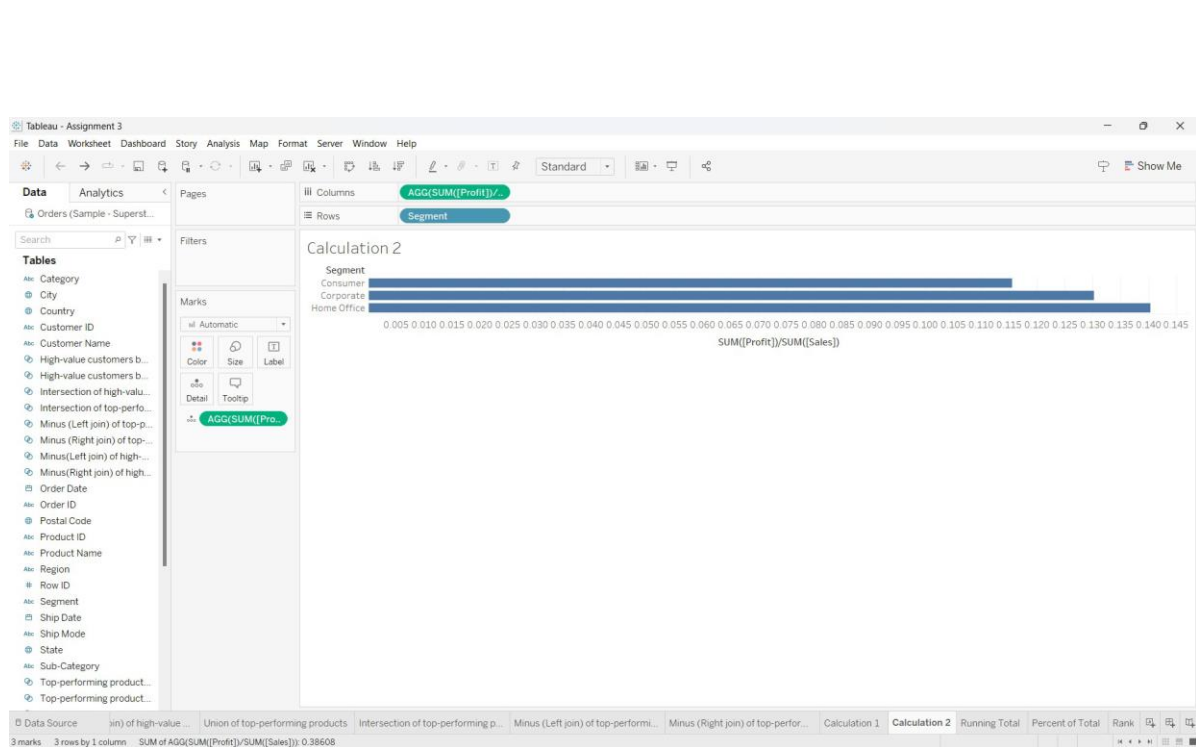
## MINUS(RIGHTJOIN)OFTOP-PERFORMINGPRODUCTS



## CALCULATED FIELD - 1

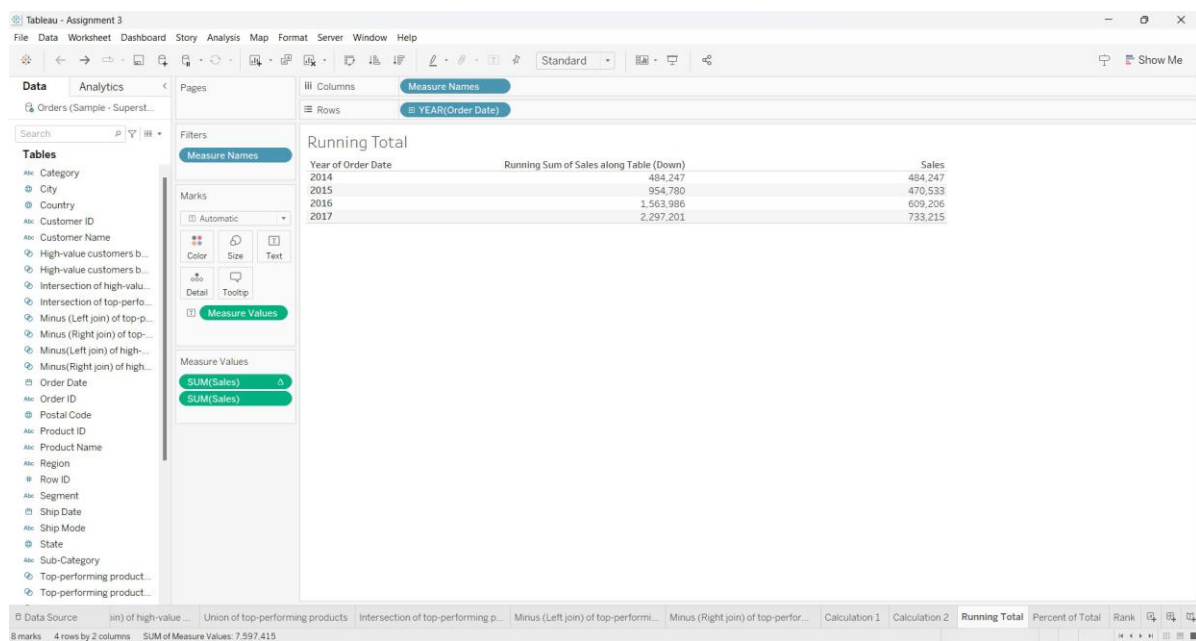


## CALCULATEDFIELD-2



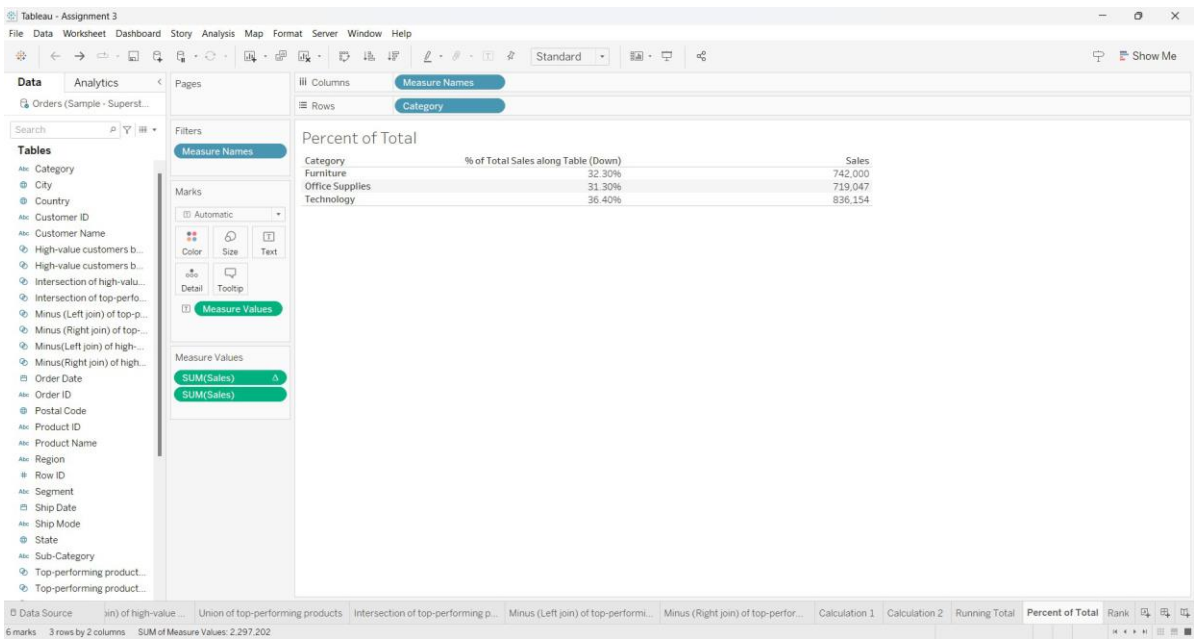
## QUICK TABLE CALCULATIONS:

## RUNNING TOTAL





PERCENT OF TOTAL



RANK

