

# DATA ANALYTICS ASSIGNMENT 3

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20NN1A0513

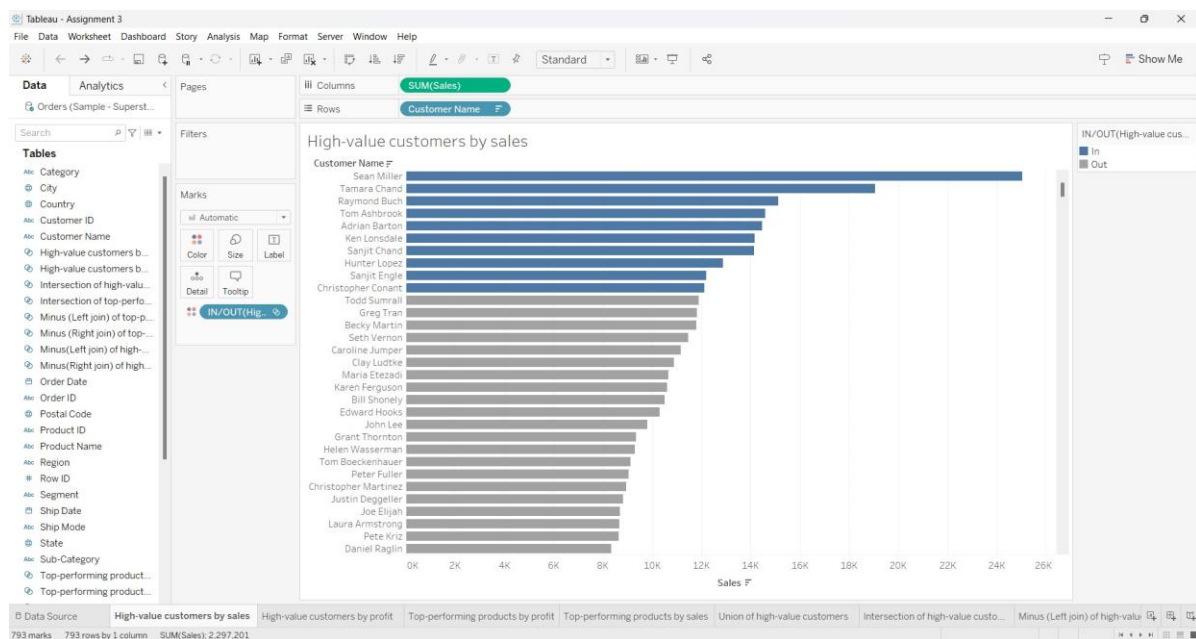
IV BTECH (CSE)

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



The screenshot shows the Tableau Desktop interface with a worksheet titled "Tableau - Assignment 3". The view is a horizontal bar chart titled "High-value customers by profit". The columns shelf contains "SUM(Profit)" and the rows shelf contains "Customer Name". The marks card is set to "Automatic". The chart displays profit for various customers, categorized by "IN/OUT (High-value customer)". The "IN" category (blue bars) shows higher profit values, while the "OUT" category (grey bars) shows lower profit values. The x-axis represents profit, ranging from -7K to 9K. The y-axis lists customer names. The Tableau interface includes the worksheet "Tableau - Assignment 3", the Columns shelf with "SUM(Profit)", and the Rows shelf with "Customer Name". The Marks card is set to "Automatic".

Customer Name	Profit (Approximate)	Category
Tamara Chand	8.5K	IN
Raymond Buch	7.5K	IN
Sanjit Chand	6.5K	IN
Hunter Lopez	6.0K	IN
Adrian Barton	5.5K	IN
Tom Ashbrook	5.0K	IN
Christopher Martinez	4.5K	IN
Keith Dawkins	4.0K	IN
Andy Reiter	3.5K	IN
Daniel Raglin	3.0K	IN
Tom Boeckenhauer	2.5K	IN
Nathan Mautz	2.0K	IN
Sanjit Engle	1.5K	IN
Bill Spooner	1.5K	IN
Harry Marie	1.5K	IN
Todd Sumrall	1.5K	IN
Brian Moss	1.5K	IN
Christopher Conant	1.5K	IN
Jane Waco	1.5K	IN
Helen Wasserman	1.5K	IN
Greg Tran	1.5K	IN
Laura Armstrong	1.5K	IN
Adam Bellavance	1.5K	IN
Fred Hopkins	1.5K	IN
Pete Kriz	1.5K	IN
Steven Roelle	1.5K	IN
Shirley Daniels	1.5K	IN
Clay Ludtke	1.5K	IN
Robert Marley	1.5K	IN
Alan Dominguez	1.5K	IN
Maria Etezadi	1.5K	IN

**Tableau - Assignment 3**

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

← → ↺ ↻ 🔍 Standard Show Me

**Data** Analytics Pages

Orders (Sample - Superst...

Search

**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...

**Filters**

Union of high-val...

**Marks**

All

Automatic

Color Size Label

Detail Tooltip

IN/OUT(Uni...

**Columns**

SUM(Profit) SUM(Sales)

**Rows**

Customer Name

**Union of high-value customers**

Customer Name

**Profit**

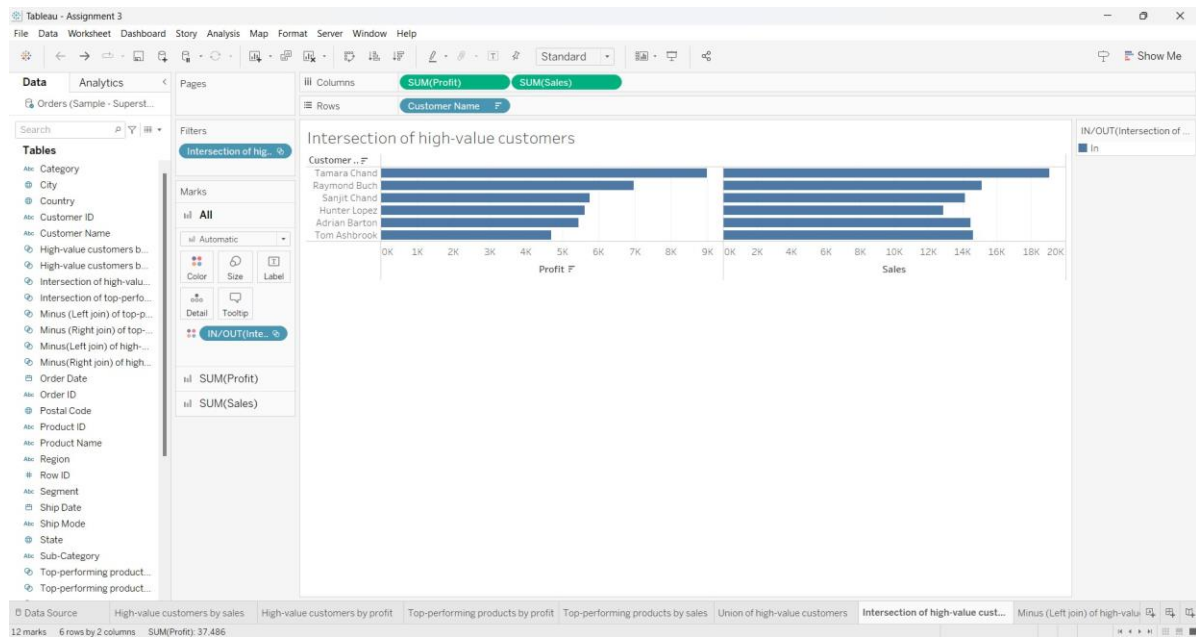
**Sales**

IN/OUT(Union of high-v...

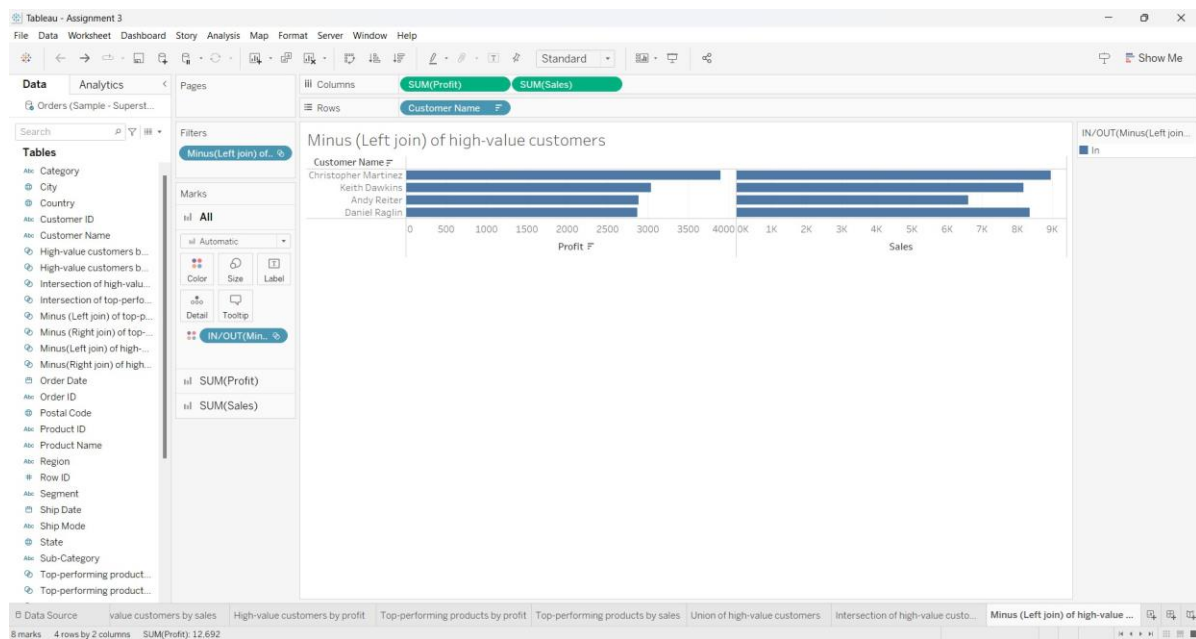
In

28 Marks 14 rows by 2 columns SUM(Profit) 53,832

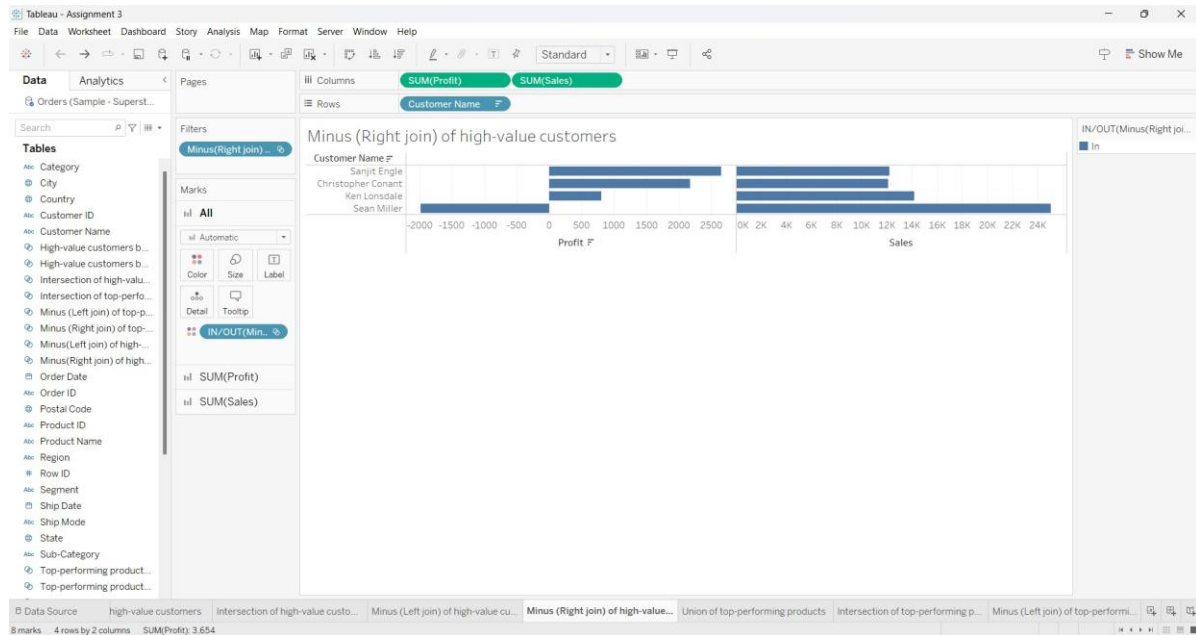
## INTERSECTION OF HIGH-VALUE CUSTOMERS



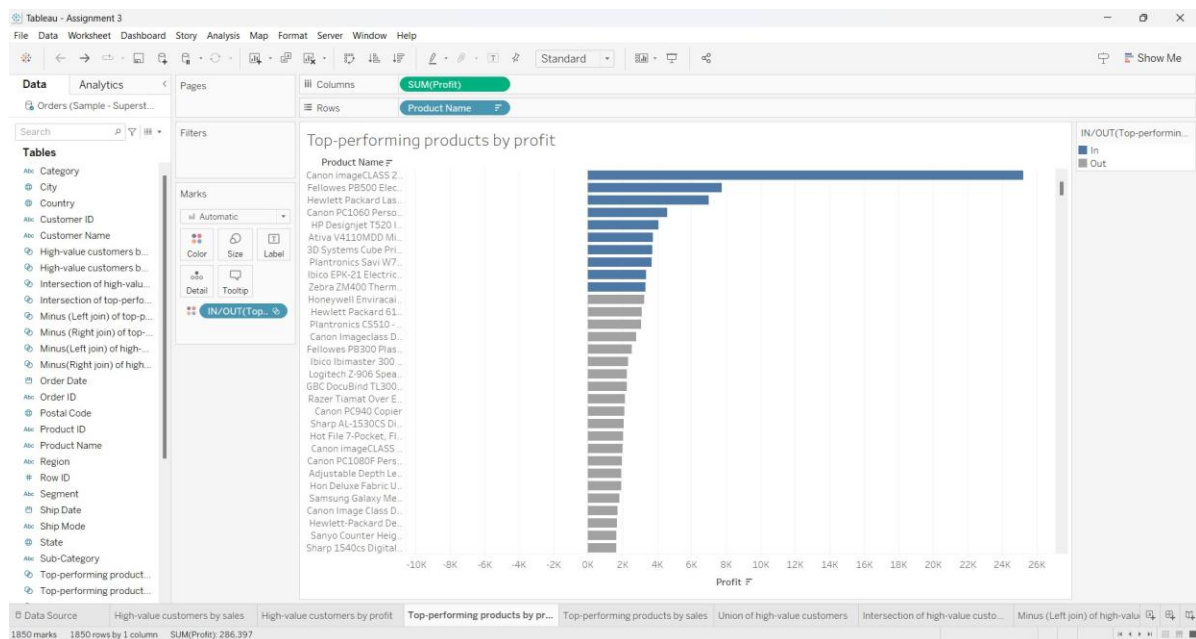
## MINUS (LEFT JOIN) OF HIGH-VALUE CUSTOMERS



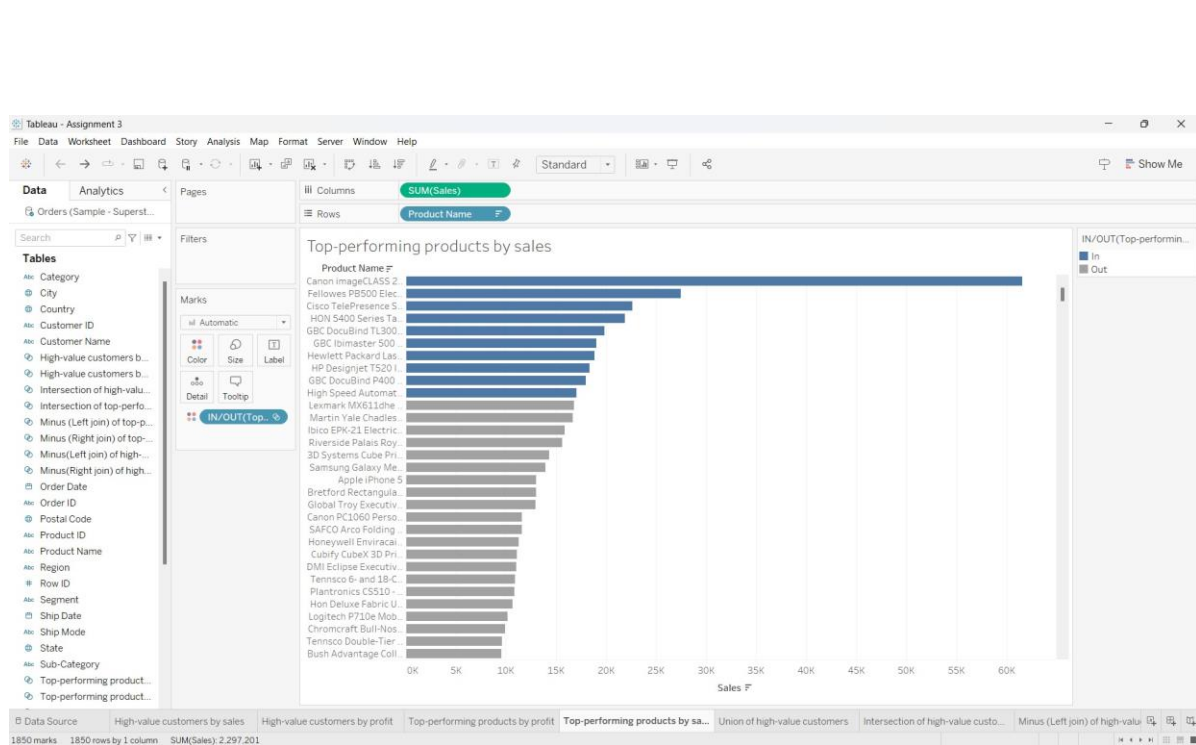
## MINUS (RIGHT JOIN) OF HIGH-VALUE CUSTOMERS



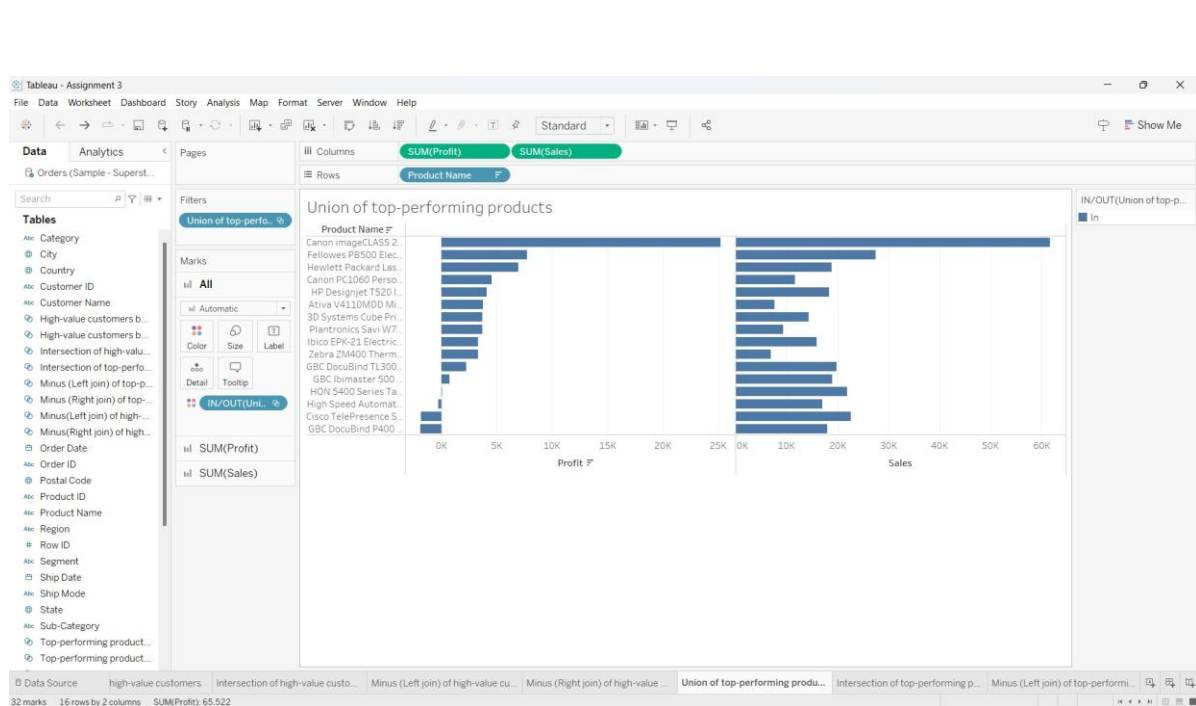
### TOP-PERFORMING PRODUCTS BY PROFIT



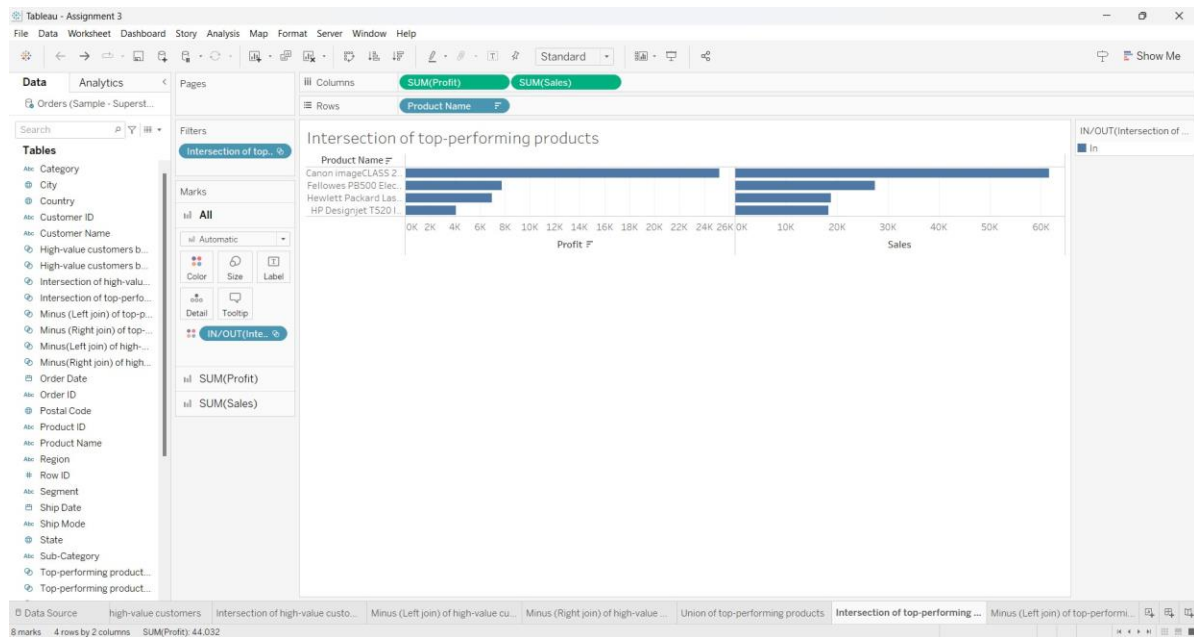
# TOP-PERFORMING PRODUCTS BY SALES



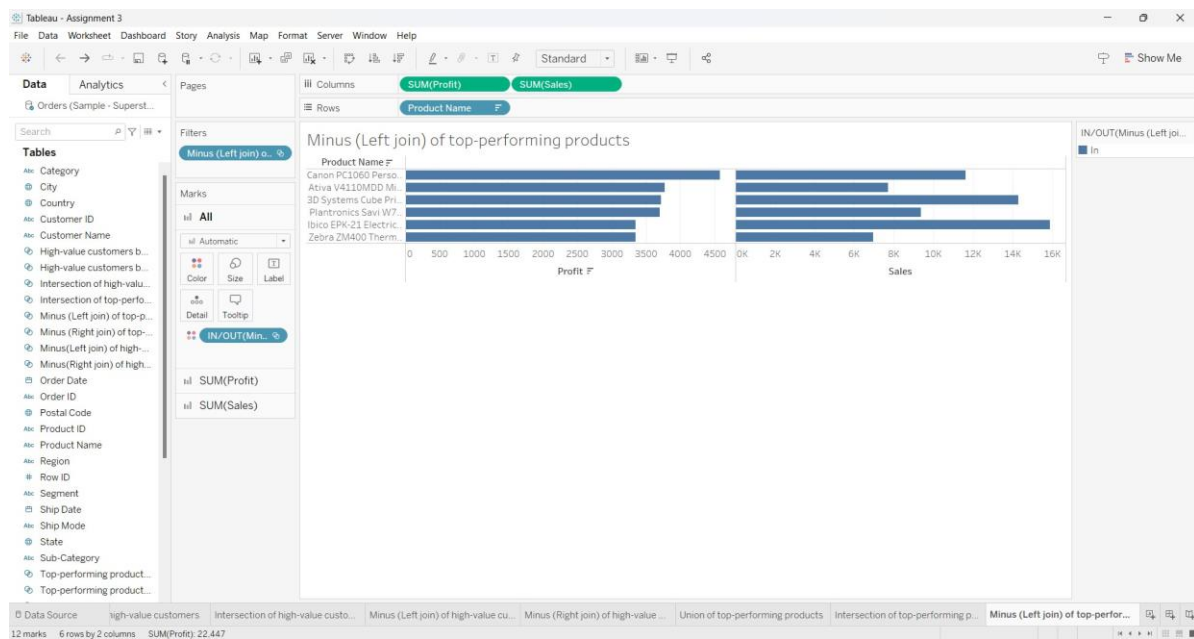
# UNION OF TOP-PERFORMING PRODUCTS



# INTERSECTION OF TOP-PERFORMING PRODUCTS

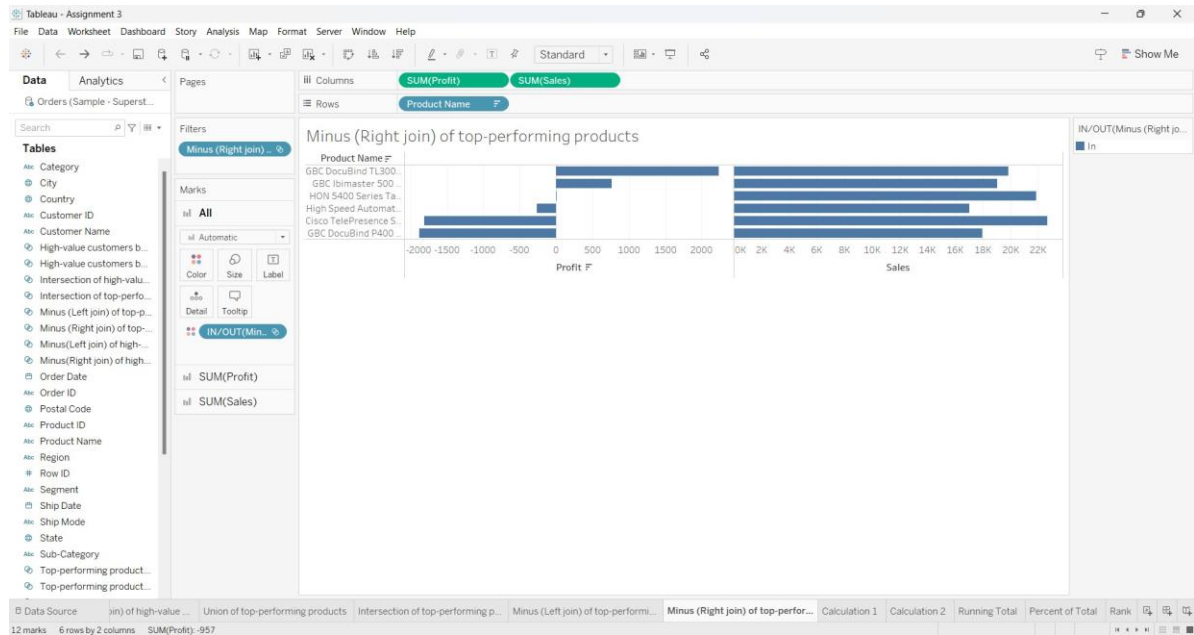


# MINUS (LEFT JOIN) OF TOP-PERFORMING PRODUCTS

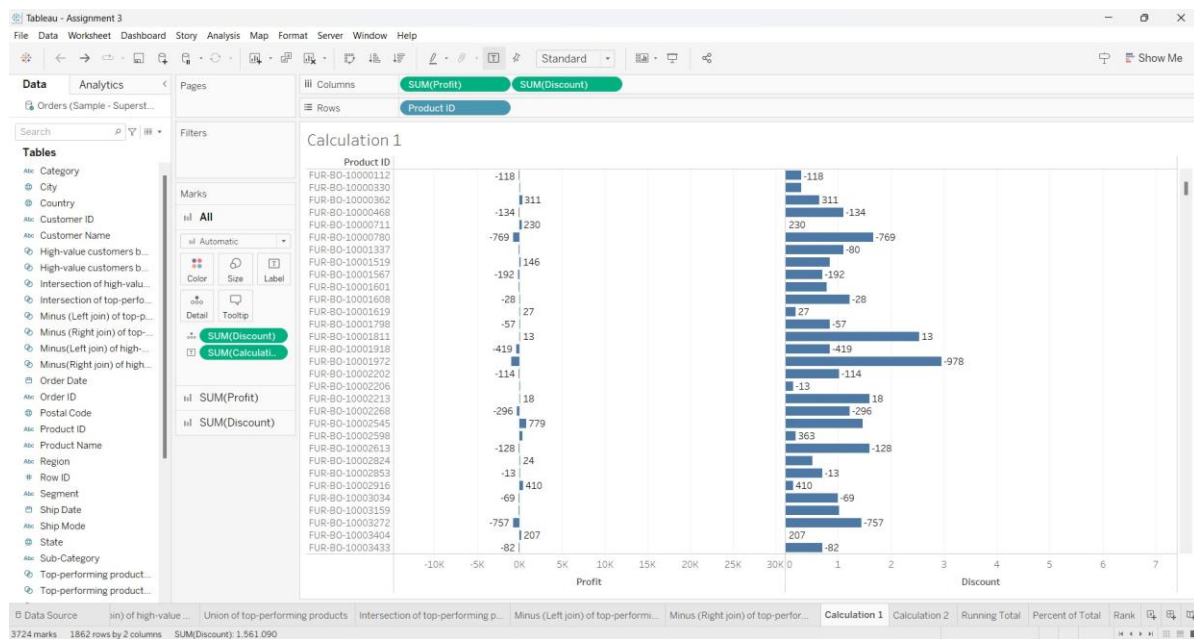




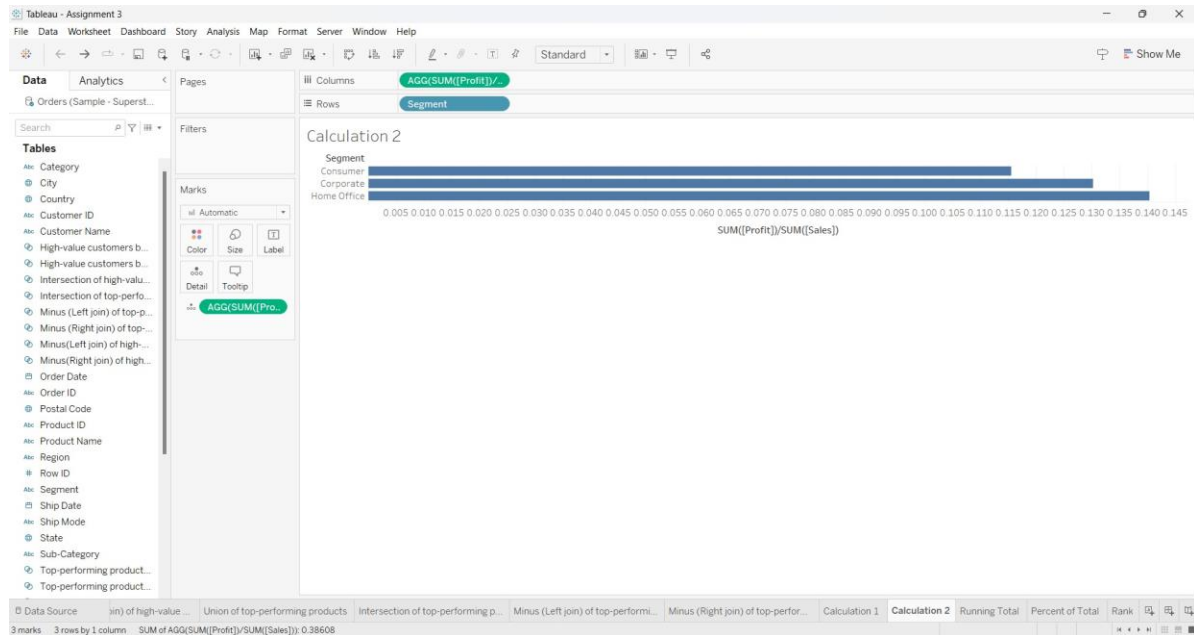
## MINUS (RIGHT JOIN) OF TOP-PERFORMING PRODUCTS



## CALCULATED FIELD - 1



## CALCULATED FIELD - 2



## QUICK TABLE CALCULATIONS:

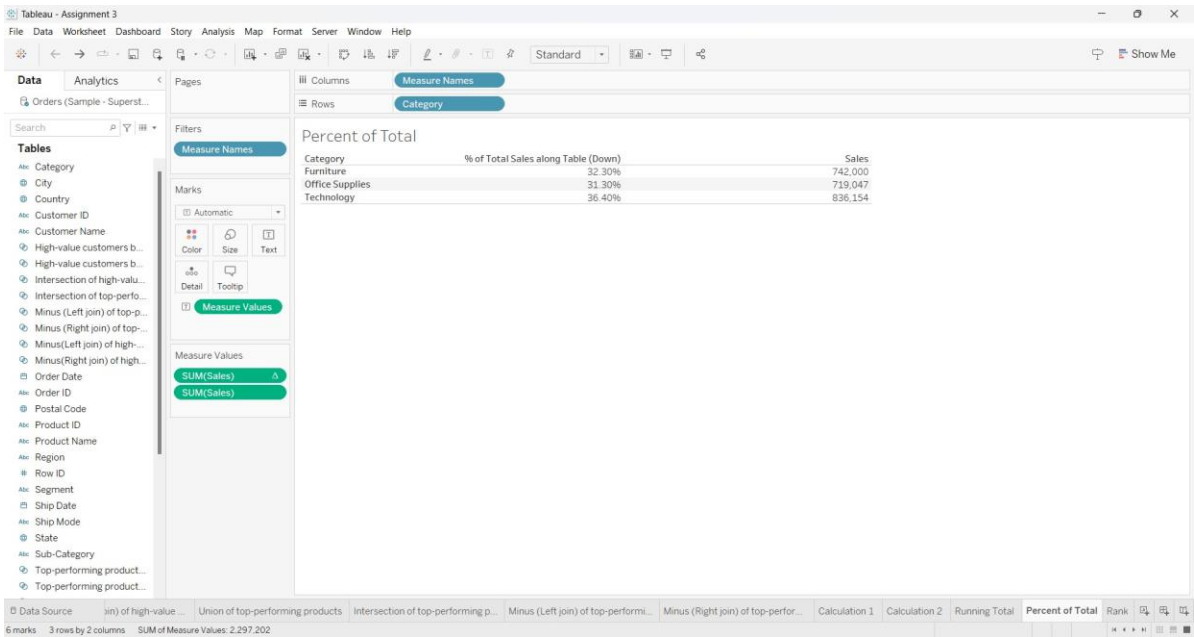
## RUNNING TOTAL

The screenshot shows a Tableau worksheet titled 'Tableau - Assignment 3'. The Columns shelf contains 'Measure Names' and the Rows shelf contains 'YEAR(Order Date)'. The view displays a table calculation titled 'Running Total' showing the running sum of sales over time. The table has three columns: 'Year of Order Date', 'Running Sum of Sales along Table (Down)', and 'Sales'. The data shows a steady increase in sales over the years 2014 to 2017.

Year of Order Date	Running Sum of Sales along Table (Down)	Sales
2014	484,247	484,247
2015	954,780	470,533
2016	1,563,986	609,206
2017	2,297,201	733,215



# PERCENT OF TOTAL



# RANK

