

DATA ANALYTICS ASSIGNMENT 4

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20NN1A0516

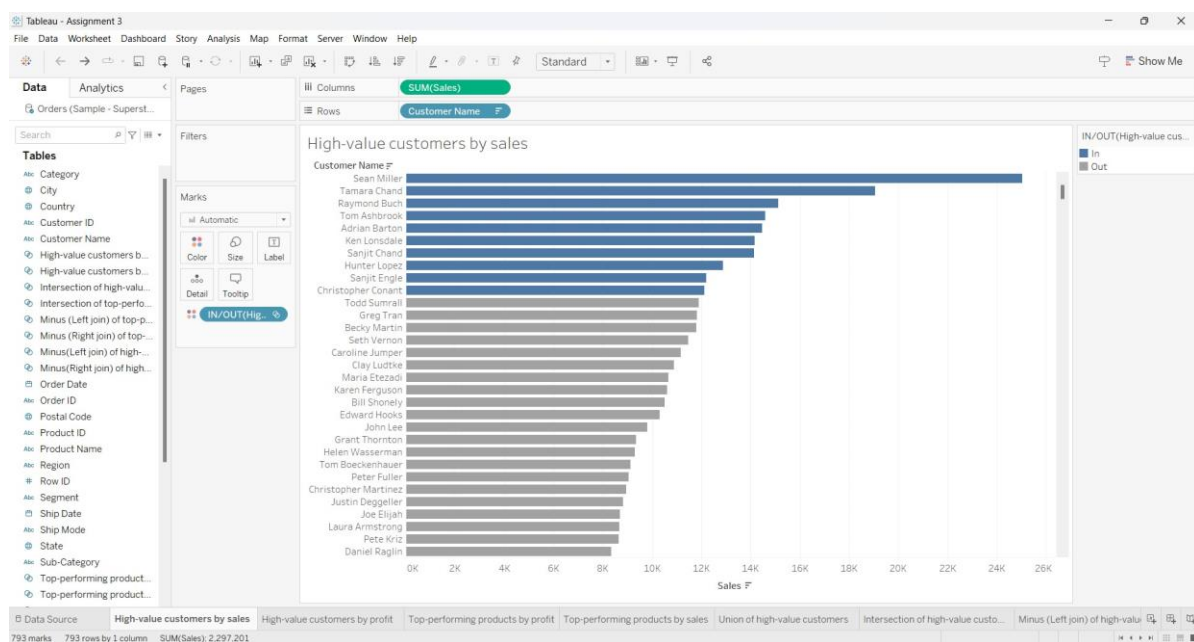
IV B.TECH (CSE)

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

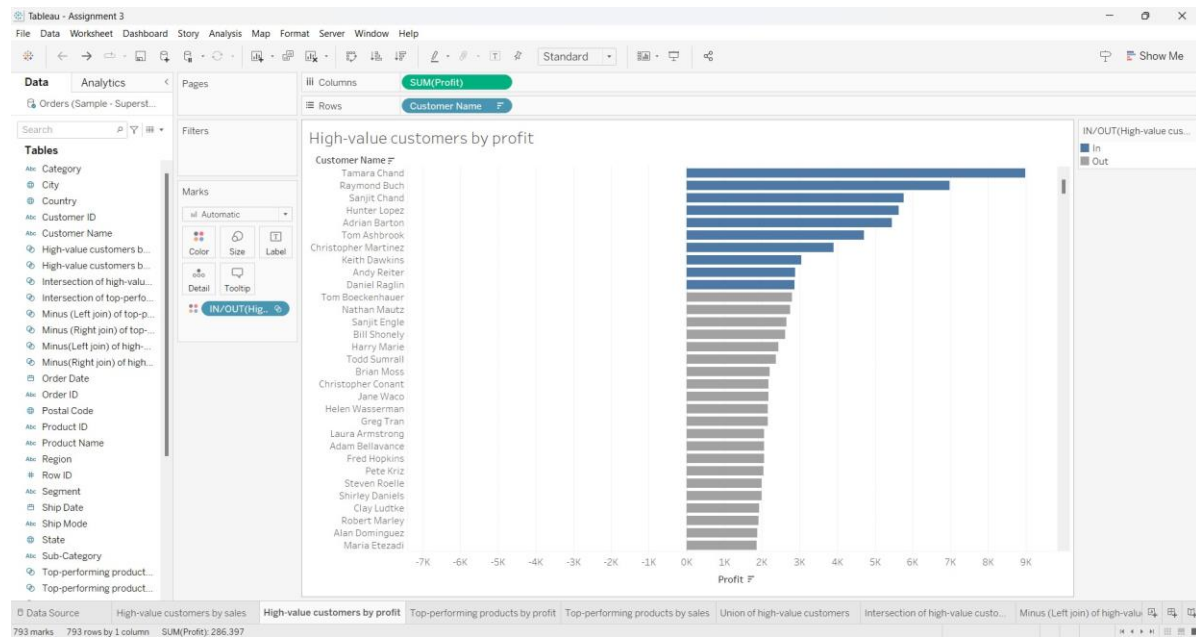
DATASET :  **Sample - Superstore.xls**

- 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

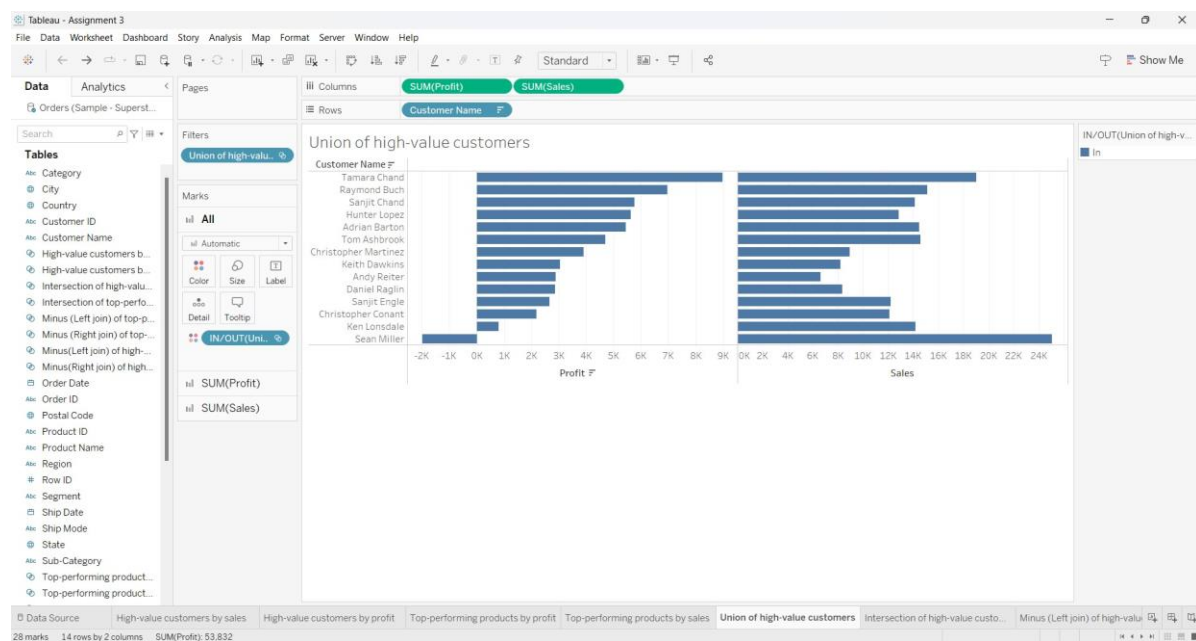
HIGH-VALUE CUSTOMERS BY SALES



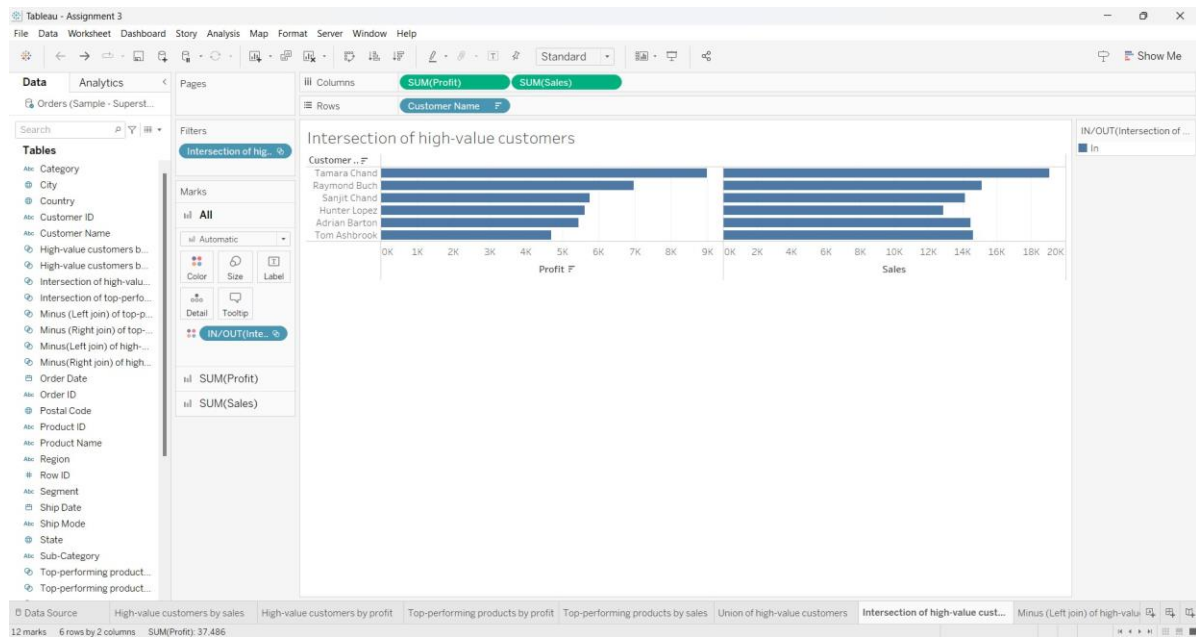
HIGH-VALUE CUSTOMERS BY PROFIT



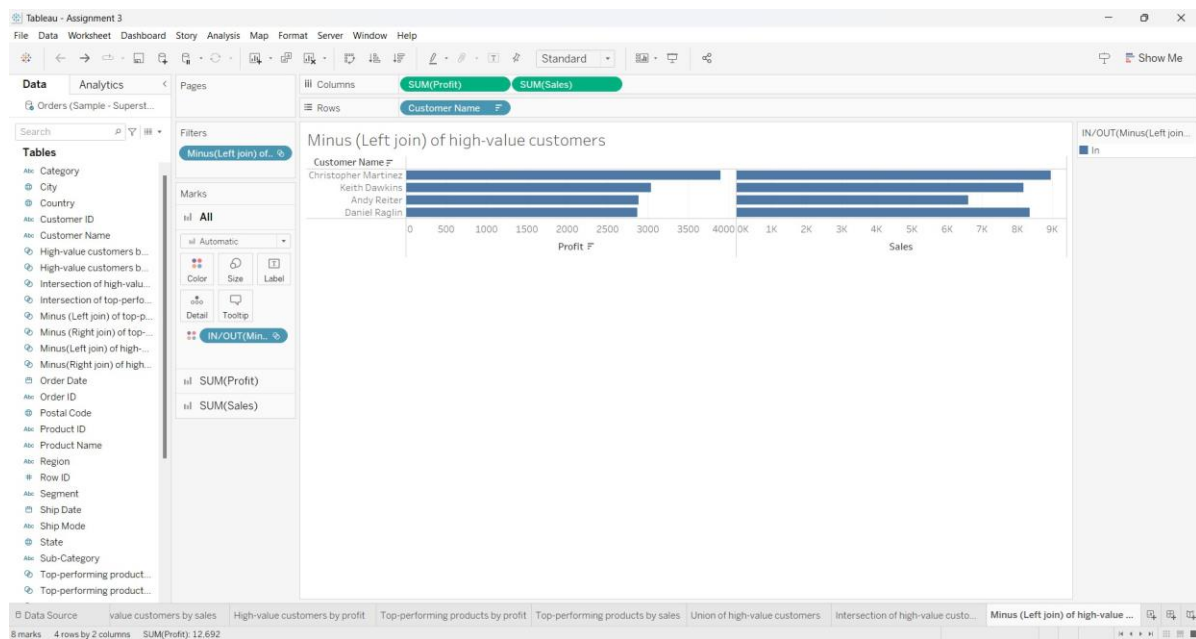
UNION OF HIGH-VALUE CUSTOMERS



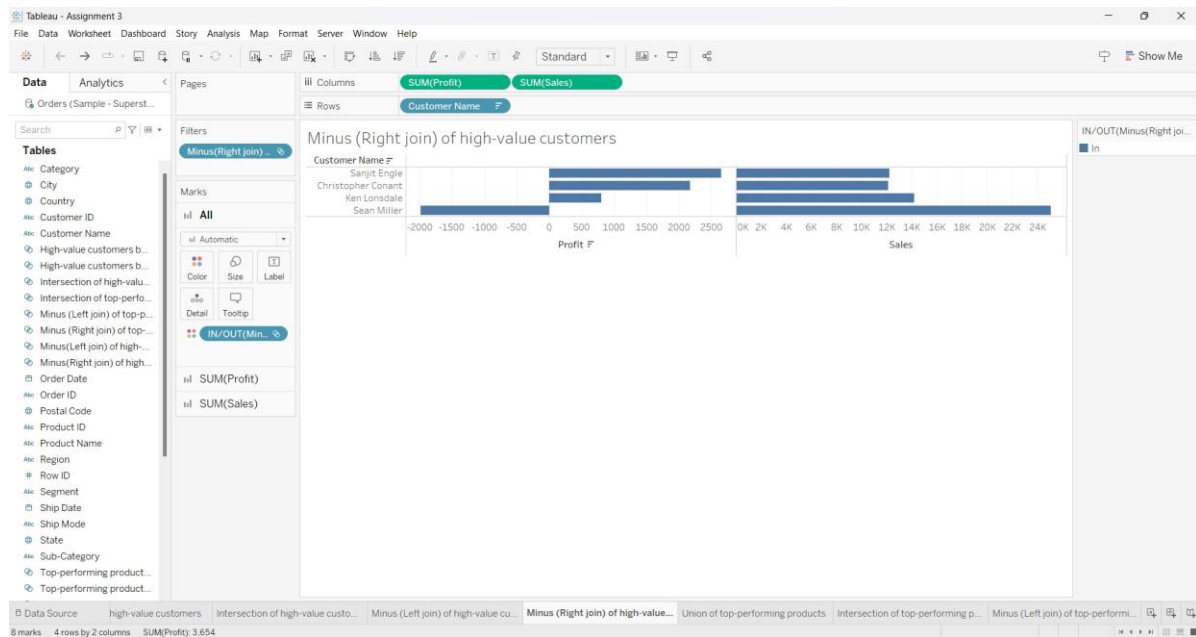
INTERSECTION OF HIGH-VALUE CUSTOMERS



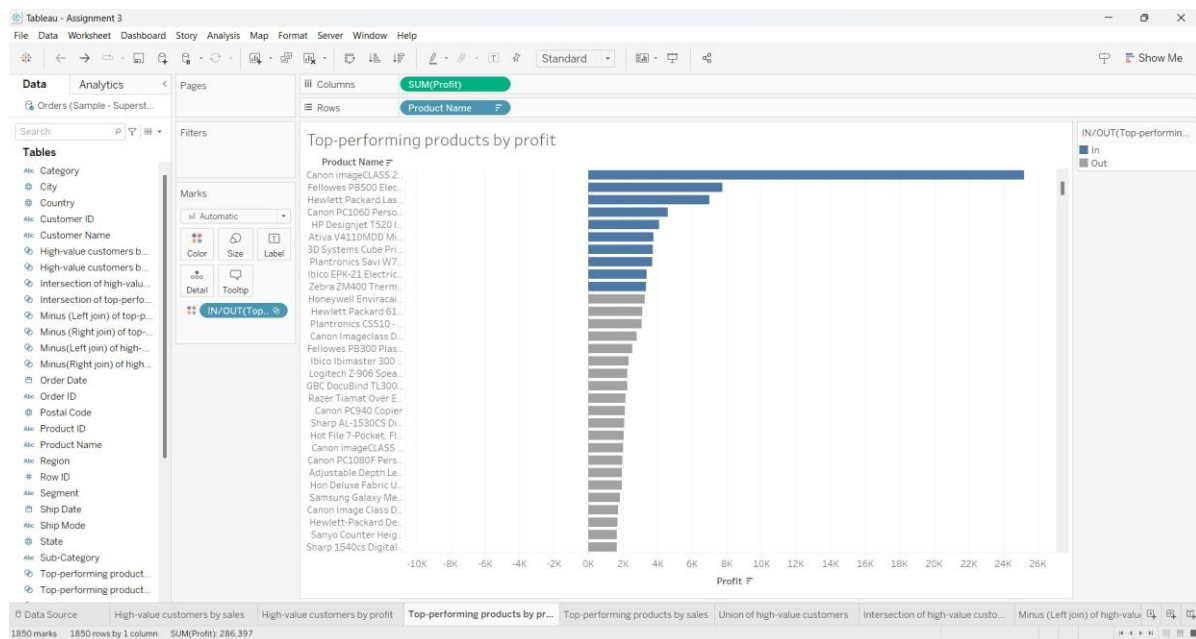
MINUS (LEFT JOIN) OF HIGH-VALUE CUSTOMERS



MINUS (RIGHT JOIN) OF HIGH-VALUE CUSTOMERS



TOP-PERFORMING PRODUCTS BY PROFIT



The screenshot shows the Tableau Desktop interface with a worksheet titled 'Tableau - Assignment 3'. The main view is a horizontal bar chart titled 'Top-performing products by sales'. The chart displays sales data for various products, with the top product being Canon imageCLASS 2. The interface includes a sidebar with 'Tables' and 'Filters' sections, and a main workspace with a 'Columns' shelf containing 'SUM(Sales)' and a 'Rows' shelf containing 'Product Name'. The 'Marks' card is set to 'Automatic'.

Columns: SUM(Sales)

Rows: Product Name

Marks: Automatic

Legend: IN/OUT (Top-performing products)

Legend Items: In (Blue), Out (Grey)

Top-performing products by sales (Top 20):

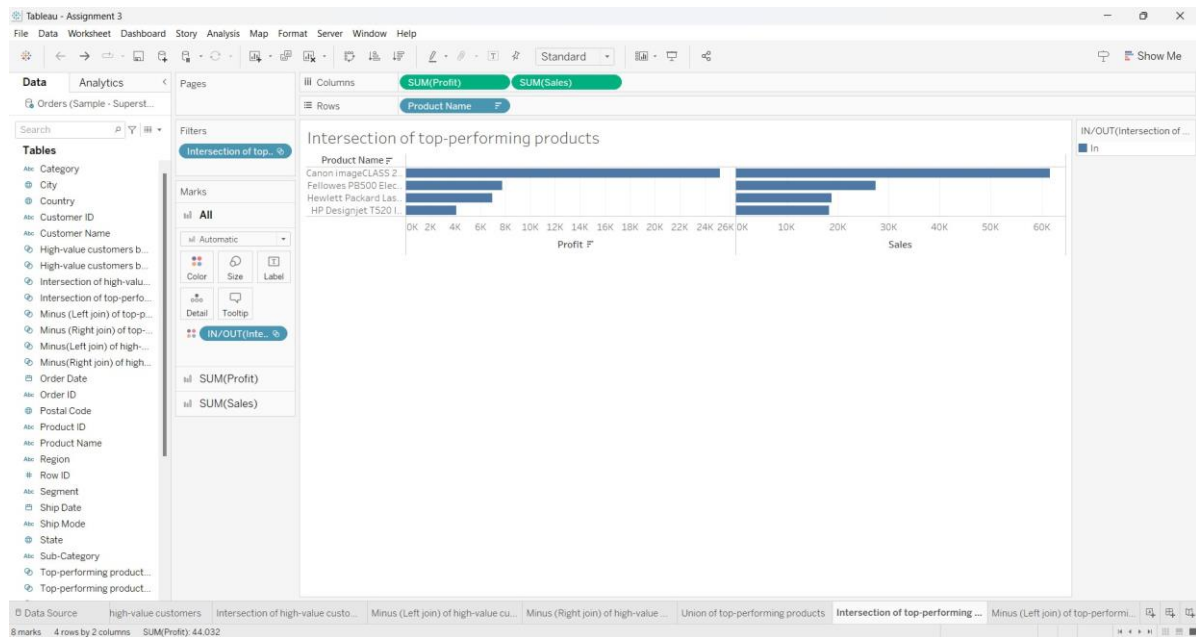
Product Name	Sales (Approximate)
Canon imageCLASS 2	60,000
Fellowes PB500 Elec	28,000
Cisco TelePresence S	22,000
HON 5400 Series Ta	21,000
GBC DocuBind T1300	19,000
GBC Ibmaster 500	18,000
Hewlett Packard Las	17,000
HP Designjet T520 I	16,000
GBC DocuBind P400	15,000
High Speed Automat	14,000
Lexmark MX611dhe	13,000
Martin Yale Chadles	12,000
Ibico EPK-21 Electric	11,000
Riverside Palais Roy	10,000
3D Systems Cube Pro	9,000
Samsung Galaxy Me	8,000
Apple iPhone 5	7,000
Bretford Rectangula	6,000
Gloval Troy Executiv	5,000
Canon PC1060 Perso	4,000
SAFCO Arco Folding	3,000
Honeywell Enviracai	2,000
Cushy CubeX 3D Ph	1,000
DMI Eclipse Executiv	1,000
Tennsco 6- and 18-C	1,000
Plantronics CS510 -	1,000
Hon Deluxe Fabric U	1,000
Logitech P710w Mob	1,000
Chromcraft Bull-Nos	1,000
Tennsco Double-Tier	1,000
Bush Advantage Coli	1,000

The screenshot shows the Tableau interface with the following configuration:

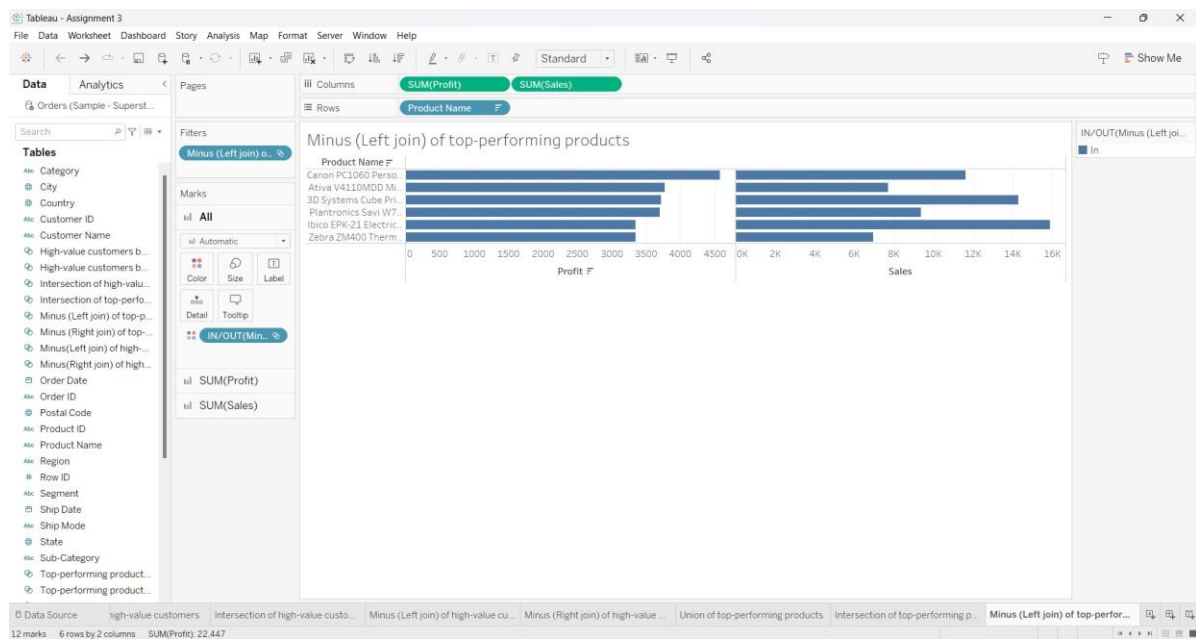
- Columns:** SUM(Profit), SUM(Sales)
- Rows:** Product Name
- Filters:** Union of top-performing products
- Mark:** All
- Legend:** IN/OUT (Union of top-performing products)

The chart displays two sets of horizontal bars for each product. The left set represents Profit (ranging from 0K to 60K) and the right set represents Sales (ranging from 0K to 40K). The products are listed on the y-axis, and the bars are colored blue. The top-performing products are Canon imageCLASS 2 and Fellowes PB500 Elec.

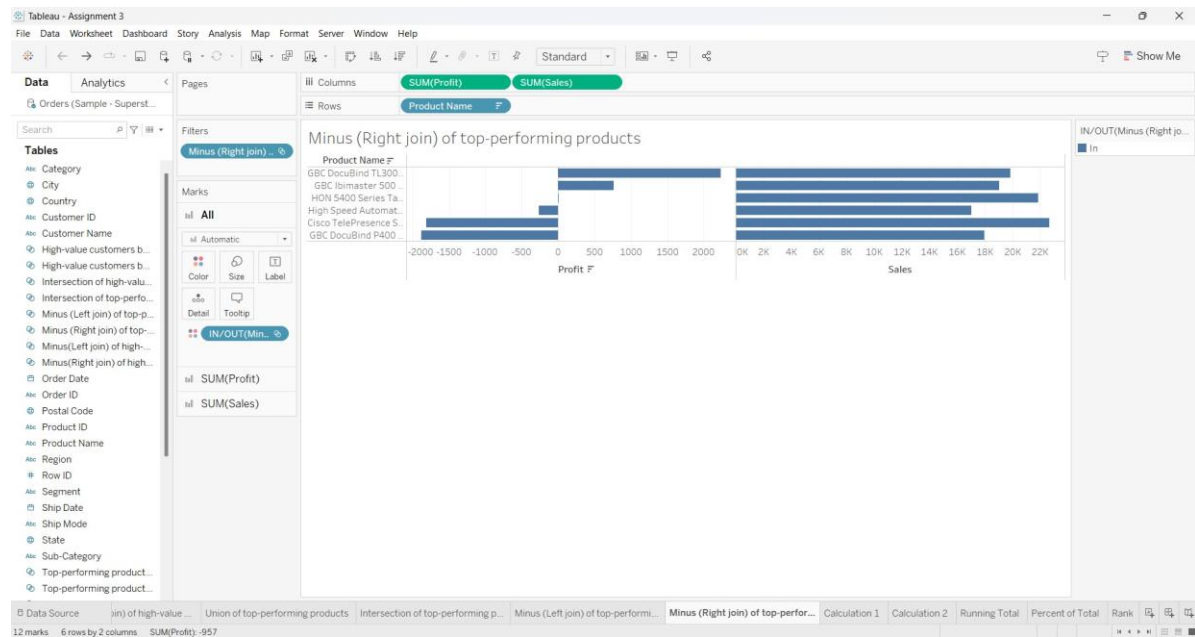
INTERSECTION OF TOP-PERFORMING PRODUCTS



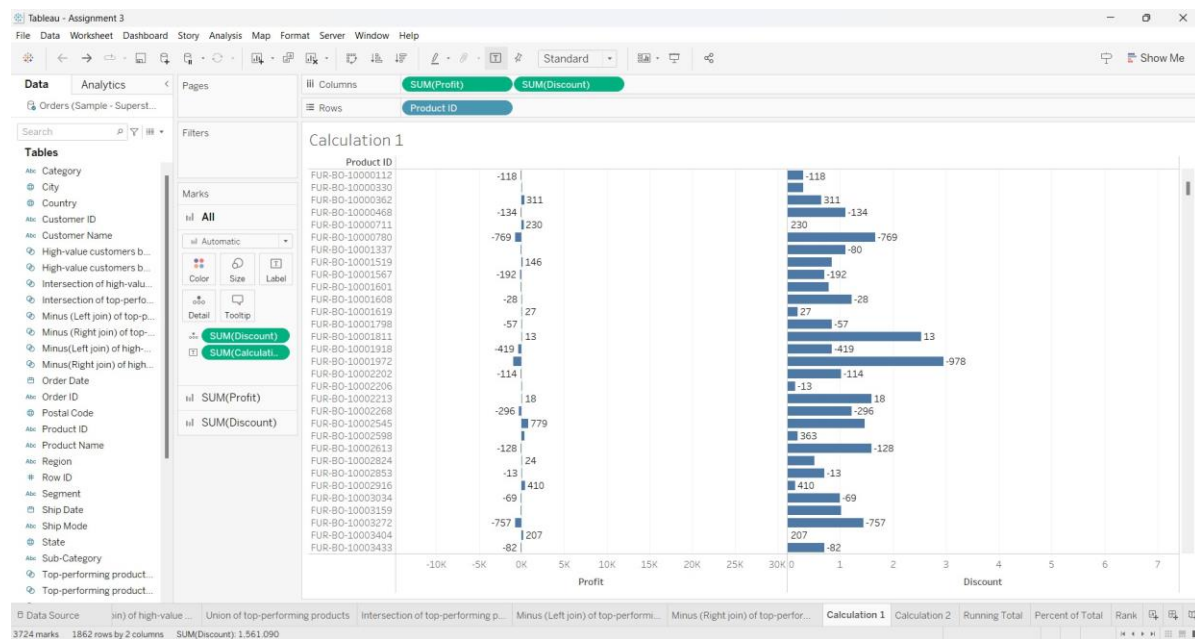
MINUS (LEFT JOIN) OF TOP-PERFORMING PRODUCTS



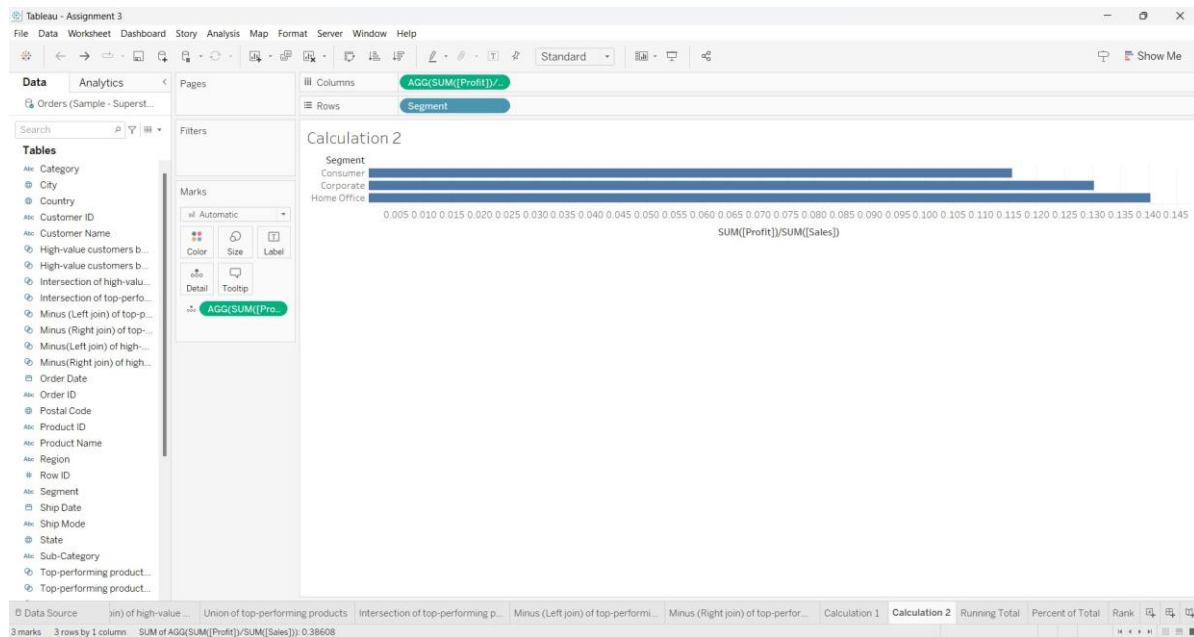
MINUS (RIGHT JOIN) OF TOP-PERFORMING PRODUCTS



CALCULATED FIELD - 1



CALCULATED FIELD - 2



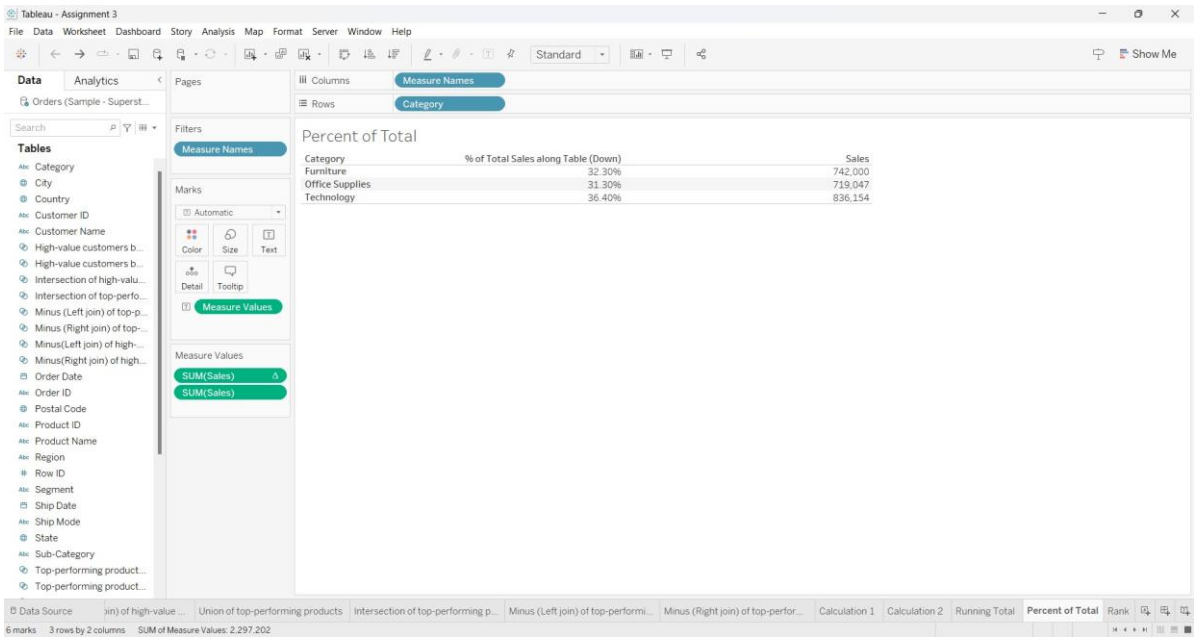
QUICK TABLE CALCULATIONS:

RUNNING TOTAL

The screenshot shows a Tableau worksheet titled 'Tableau - Assignment 3'. The data source is 'Orders (Sample - Superstore)'. The Columns shelf contains 'Measure Names', and the Rows shelf contains 'YEAR([Order Date])'. The visualization is a table titled 'Running Total' showing the running sum of sales along the table (down) for the years 2014, 2015, 2016, and 2017. The table has three columns: 'Year of Order Date', 'Running Sum of Sales along Table (Down)', and 'Sales'.

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

