

DATA ANALYTICS WITH TABLEAU

ASSIGNMENT – 3

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TASK:

Dataset used:

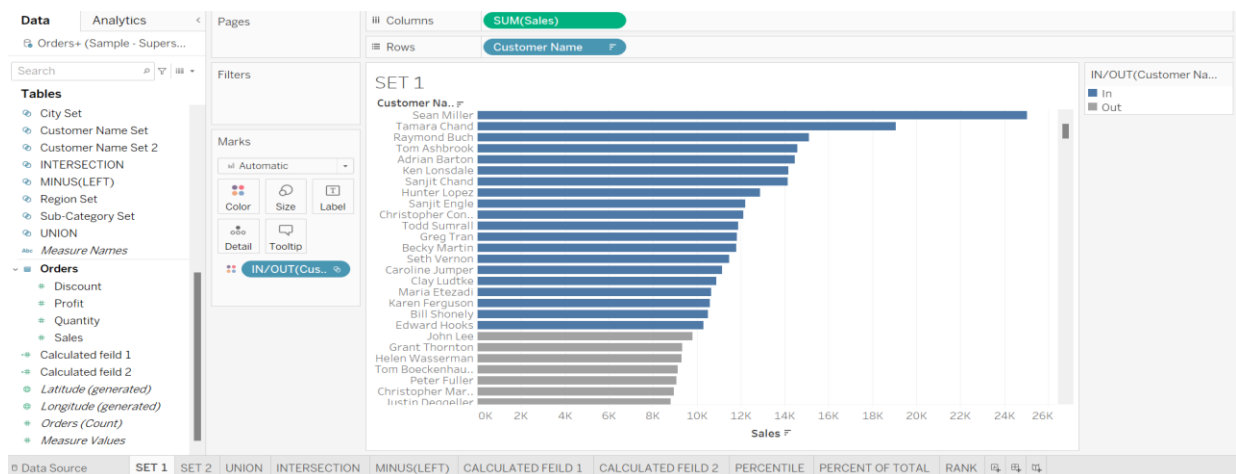


Sample -
Superstore.xls

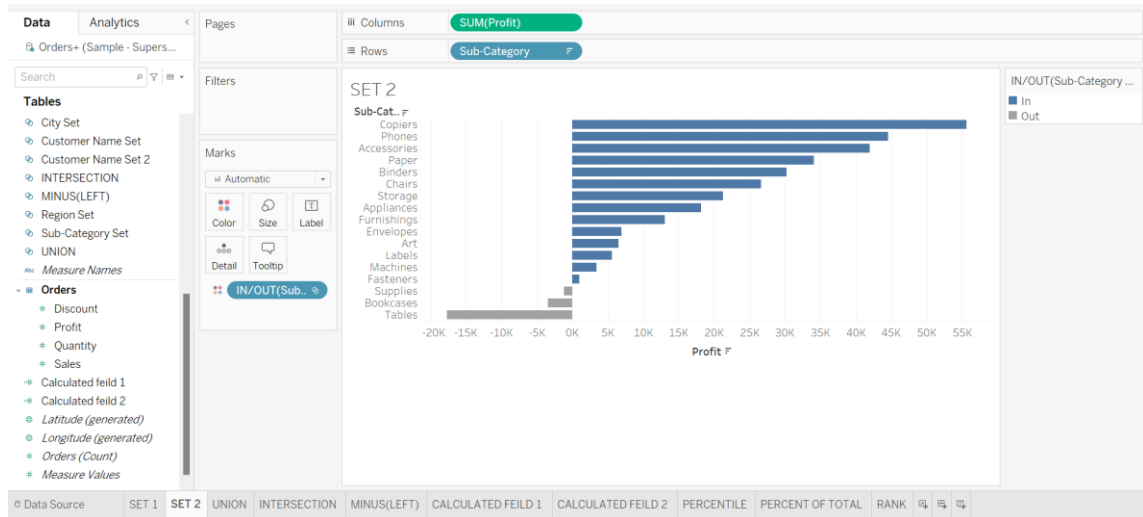
- Define at least two sets based on specific criteria from your dataset.

SET: A set is a custom field that defines a subset of data based on certain conditions or criteria. Sets can be created dynamically by selecting specific values or conditions from your data and can be used for further analysis, comparison, or visualization within your Tableau workbook.

SET – 1

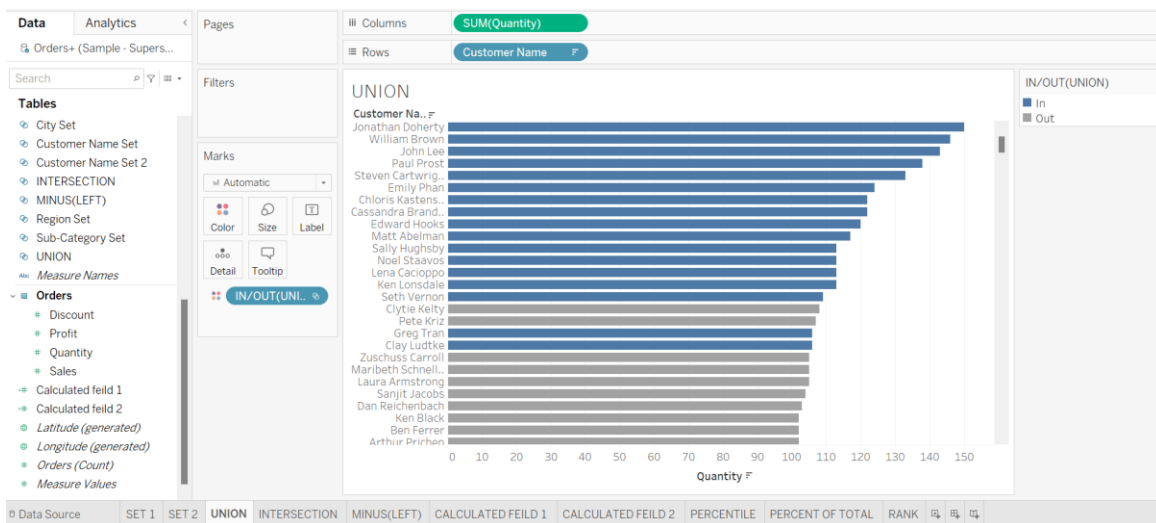


SET – 2

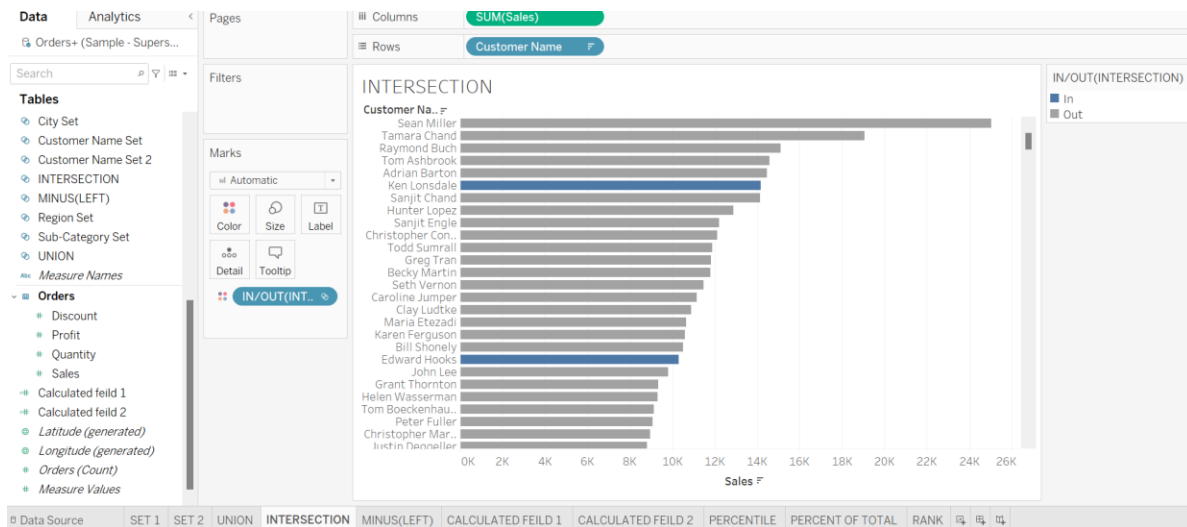


➤ Experiment with combining sets using UNION, INTERSECT and MINUS.

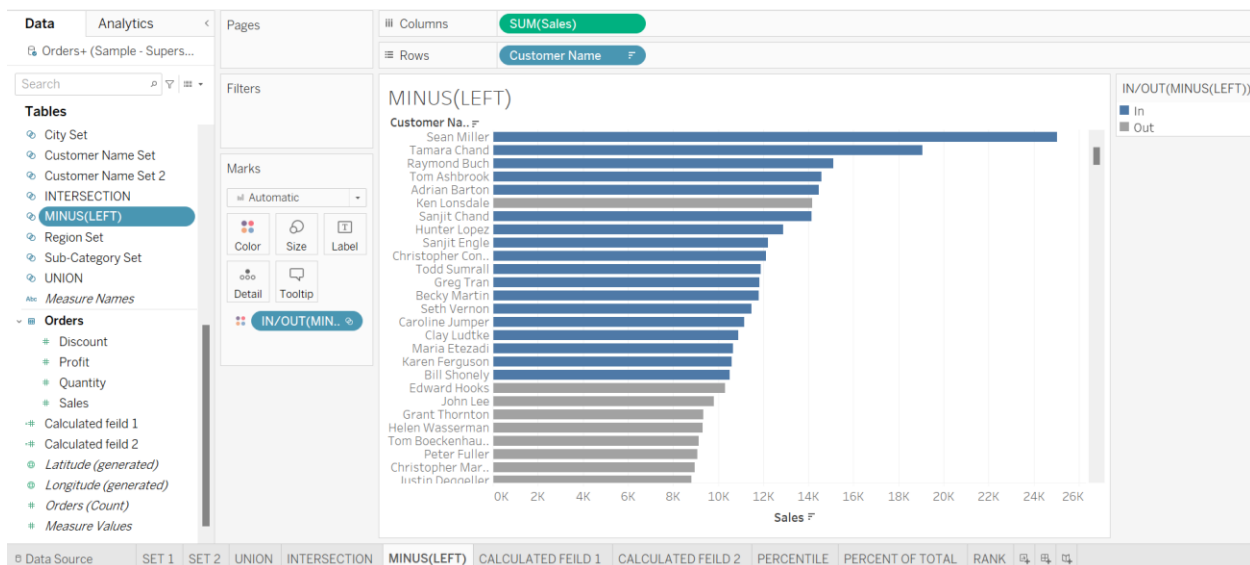
UNION: Combines the all the rows in both tables.



INTERSECT: Gives the common values of both tables.



MINUS: Gives the one table values except the common values of both tables. Here calculated MINUS (LEFT).



- Create 2 Calculation field using any aggregate function.

CALCULATED FIELD 1:

Table: CALCULATED FEILD 1

Category	Sub-Category	Calculated feild 1	Sales
Furniture	Bookcases	2,622	114,880
	Chairs	2,695	328,449
	Furnishings	475	91,705
	Tables	3,588	206,966
Office Supplies	Appliances	1,175	107,532
	Art	171	27,119
	Binders	665	203,413
	Envelopes	292	16,476
Technology	Fasteners	79	3,024
	Labels	194	12,486
	Paper	284	78,479
	Storage	1,299	223,844
	Supplies	1,059	46,674
	Accessories	1,134	167,380
	Copiers	9,672	149,528
	Machines	7,955	189,239
	Phones	1,832	330,007

CALCULATED FIELD 2:

Table: CALCULATED FEILD 2

Category	Sub-Category	Profit	Quantity	Calculated feild 2
Furniture	Bookcases	-3,473	868	-20,823
	Chairs	26,590	2,356	151,465
	Furnishings	13,059	3,563	71,964
	Tables	-17,725	1,241	-93,015
Office Supplies	Appliances	18,138	1,729	97,774
	Art	6,528	3,000	32,710
	Binders	30,222	5,974	137,437
	Envelopes	6,964	906	30,918
Technology	Fasteners	950	914	5,162
	Labels	5,546	1,400	31,367
	Paper	34,054	5,178	168,007
	Storage	21,279	3,158	110,941
	Supplies	-1,189	647	-5,062
	Accessories	41,937	2,976	214,530
	Copiers	55,618	234	251,546
	Machines	3,385	440	26,564
	Phones	44,516	3,289	218,944

- Create any 3 visualization using quick Table Calculations.

PERCENTILE:

Calculates value of Specified percentile for a given measure. Here calculated the percentile of profit along sub_category.

Category	Sub-Category	Percentile of Profit along Sub-Category	Profit
Furniture	Chairs	100.00%	26,590
	Furnishings	66.67%	13,059
	Bookcases	33.33%	-3,473
	Tables	0.00%	-17,725
Office Supplies	Appliances	62.50%	18,138
	Paper	100.00%	34,054
	Storage	75.00%	21,279
	Labels	25.00%	5,546
Technology	Envelopes	50.00%	6,964
	Art	37.50%	6,528
	Fasteners	12.50%	950
	Supplies	0.00%	-1,189
	Binders	87.50%	30,222
	Copiers	100.00%	55,618
	Phones	66.67%	44,516
	Accessories	33.33%	41,937
	Machines	0.00%	3,385

PERCENT OF TOTAL:

Calculates percentage contribution of each datapoint to the total. Here calculated the percent of total of profit along month of order date in quarters.

Quarte...	Month of ...	% of Total Profit along Month of Order Date	Profit
Q3	September	50.86%	36,857
	August	30.05%	21,777
	July	19.09%	13,833
Q1	March	59.54%	28,595
	February	21.44%	10,295
	January	19.02%	9,134
Q4	December	39.20%	43,369
	November	32.06%	35,468
	October	28.73%	31,784
Q2	May	40.54%	22,411
	June	38.50%	21,286
	April	20.96%	11,587

RANK:

Assigns Rank to each datapoints based on measure value. Here assigned the ranks to the discount along sub-category.

The screenshot shows a data visualization tool interface. On the left, there is a 'Data' pane with a search bar and a list of tables and measures. The 'Tables' list includes 'City Set', 'Customer Name Set', 'Customer Name Set 2', 'INTERSECTION', 'MINUS(LEFT)', 'Region Set', 'Sub-Category Set', and 'UNION'. The 'Measures' list includes 'Discount', 'Profit', 'Quantity', 'Sales', 'Calculated feild 1', 'Calculated feild 2', 'Latitude (generated)', 'Longitude (generated)', 'Orders (Count)', and 'Measure Values'. The 'Columns' pane shows 'Measure Names' and 'Measure Values'. The 'Rows' pane shows 'Category' and 'Sub-Category'. The 'Marks' pane shows 'Automatic', 'Color', 'Size', 'Text', 'Detail', and 'Tooltip'. The 'Measure Values' pane shows 'SUM(Discount)' and 'SUM(Discount)'. The main view displays a table titled 'RANK' with columns 'Category', 'Sub-Catego...', 'Rank of Discount along Sub-Category', and 'Discount'. The table contains data for 'Furniture', 'Office Supplies', and 'Technology' categories, with sub-categories and their corresponding ranks and discount values.

Category	Sub-Catego...	Rank of Discount along Sub-Category	Discount
Furniture	Chairs	2.0	105.0
	Tables	3.0	83.4
	Furnishings	1.0	132.4
	Bookcases	4.0	48.1
Office Supplies	Binders	1.0	567.0
	Appliances	3.0	77.6
	Paper	2.0	102.6
	Art	5.0	59.6
	Storage	4.0	63.2
	Labels	6.0	25.0
	Envelopes	7.0	20.4
	Fasteners	8.0	17.8
	Supplies	9.0	14.6
Technology	Phones	1.0	137.4
	Machines	3.0	35.2
	Accessories	2.0	60.8
	Copiers	4.0	11.0