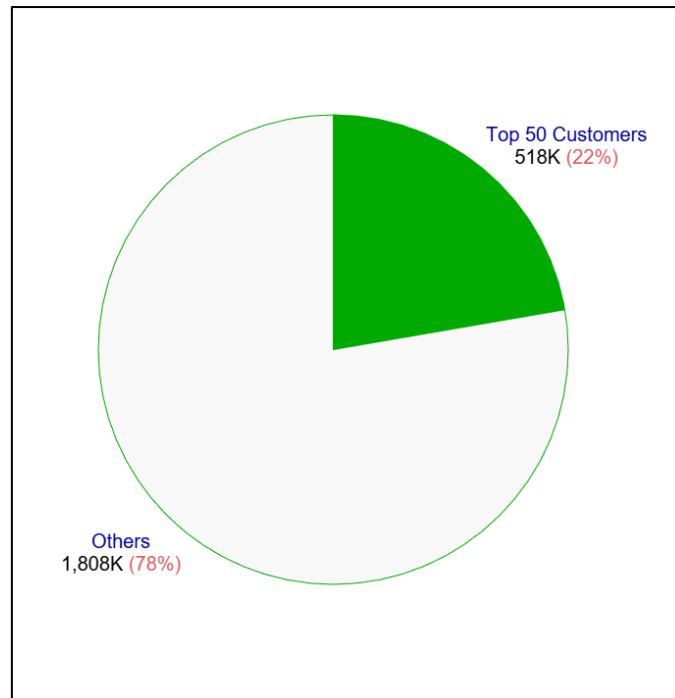


- 1) Name the sub-category whose profit value is least (lowest) in the year 2022
- 2) Who are 25th, 50th and 100th customers from top with respect to sum of sales in 2021?
- 3) Show the Top 3 products with respect to sum of quantity under each segment (Total 9 products) in West region.
- 4) Create new order date (e.g. if current year is 2023 then make sure new order date should have 2023) and show below columns in the text table.
 - Year
 - Quarter
 - Month
 - SUM(Sales)
 - YTD Sales
 - QTD Sales
 - MTD Sales
- 5) Show sub-category and region wise sum of profit in KPI indicator table as shown in below image. Use green circle for positive profit value and red circle for negative profit value.

Sub-Category	Central	East	South	West
Accessories	● 7,252	● 11,196	● 7,005	● 16,485
Appliances	● -2,639	● 8,565	● 4,124	● 8,279
Art	● 1,195	● 1,988	● 1,059	● 2,411
Binders	● -958	● 12,387	● 3,901	● 16,097
Bookcases	● -1,998	● -1,365	● 1,339	● -1,608
Chairs	● 6,671	● 9,753	● 6,612	● 4,188
Copiers	● 15,609	● 17,499	● 3,659	● 19,327
Envelopes	● 1,778	● 1,812	● 1,465	● 1,933
Fasteners	● 237	● 384	● 174	● 1,634
Furnishings	● -3,916	● 6,143	● 3,443	● 8,221
Labels	● 1,073	● 1,156	● 1,041	● 2,303
Machines	● -1,486	● 6,929	● -1,439	● -542
Paper	● 6,972	● 9,450	● 5,947	● 12,142
Phones	● 12,323	● 12,818	● 10,767	● 9,142
Storage	● 1,975	● 8,391	● 2,274	● 8,645
Supplies	● -662	● -1,137	● 2	● 626
Tables	● -3,560	● 11,086	● -4,623	● 1,516

- 6) Create a table with customer name, first order date and last order date for each customer.

- 7) Create a pie chart showing Top 50 customers Vs Other customers with respect to sum of sales shown in below image.



- 8) Create a table with columns such as category, sub-category in rows and region in columns with total sales and total profit shown for each region along with grand total and percent of pane total sorted by sum of sales in descending manner as shown in below image.

Category	Sub-Category	Central		East	
		Sales (%)	Profit (%)	Sales (%)	Profit (%)
Furniture	Chairs	52%	-238%	46%	283%
	Tables	24%	127%	19%	-322%
	Bookcases	15%	71%	21%	-40%
	Furnishings	9%	140%	15%	178%
	Total	100%	100%	100%	100%
Office Supplies	Storage	27%	22%	34%	20%
	Binders	35%	-11%	27%	29%
	Appliances	14%	-29%	16%	20%
	Paper	10%	78%	10%	22%
	Supplies	6%	-7%	5%	-3%
	Art	3%	13%	4%	5%
	Envelopes	3%	20%	2%	4%
	Labels	1%	12%	1%	3%
	Fasteners	0%	3%	1%	1%
	Total	100%	100%	100%	100%
Technology	Phones	42%	37%	38%	26%
	Machines	16%	-4%	25%	14%
	Accessories	20%	22%	17%	23%
	Copiers	22%	46%	20%	36%
	Total	100%	100%	100%	100%
Grand Total		100%	100%	100%	100%

9) Create the parameter with name as View by. Use three values in parameter i.e. Region, Category and Sub-category. If user selects any value then show the sum of sales with respect to the value chosen in parameter as a bar chart. E.g., If user selects category then show category wise sales. Make sure to edit the worksheet title w.r.t. View by value.

10) Show the Top N customers with respect to sum of quantity. The value N should be user-entered. Edit the title accordingly.

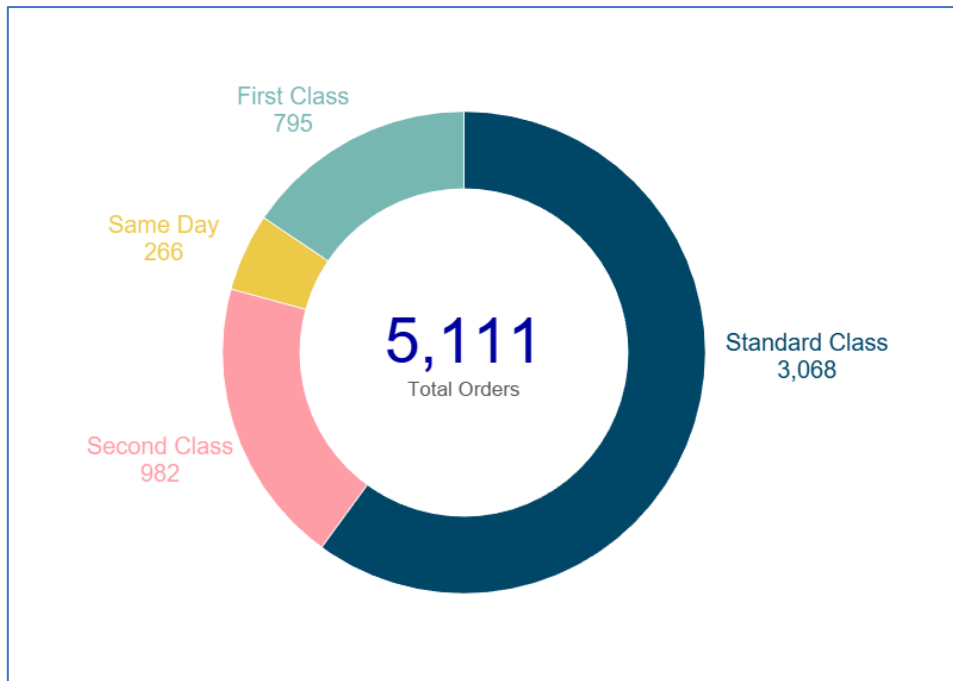
11) Answer in brief.

- What is Replace References in tableau?
- How to handle the NULL values for measures?

12) Analyse the purchasing capacity of customers by creating the bins of sales with bins size as 10. Show the bar chart of count of sales vs bins. The labels outside the bar chart should be

shown in this format: 1,398 (13.7%). Note that if any count of sales value is blank/null value then the bar chart should show 0

- 13) Show the country wise, region wise, state wise and city wise sum of sales in a table by creating the hierarchy starting with country. Colour the sum of sales based on following conditions.
 - Green: Values > 100000
 - Orange: Between 10000 and 100000
 - Red: Values < 10000
- 14) Make a group of Acco, 3M, Samsung, Apple, Xerox products. (For remaining products include in others folder). Display each group as average discount percentage.
- 15) Show the average sales for each year and each month. Show the overall average sales of all the months using reference line and highlight those months for which the sales value is more than overall average sales value.
- 16) Show the scatter chart between sum of sales and sum of profit for all the orders. Show the trend line and write down the observations using Annotate option.
- 17) Create a donut chart of orders distribution in different ship modes i.e. Show total unique orders in the inner circle and ship mode wise unique orders in outer circle. Create the donut chart in below fashion with exact formatting.



18) Create a dashboard on Superstore Analytics as shown in below figures. The formatting / labelling / spacing / alignment should be the same as used in the charts. Read this completely.

Notes:

- The worksheet titles, KPI titles represent which dimensions/measures are required in respective places.
- Make sure to use New Order Date in place of existing Order Date dimension for doing any date calculations or adding the Year filter on top.
- Add appropriate tooltips everywhere.
- Add the Year(New Order Date), Region and Category filters on top. All filters must be in multiple values dropdown mode. These filters should be applied to all the worksheets used in dashboard 1 and dashboard 2. Make sure Year filter should not be applied to current year sales, previous year sales and YoY growth % as these values are for current year and previous year. Make sure to apply filters on table in dashboard 2.
- Initially filters are in hidden state. If you click on show filters icon the filters need to open. When you click on hide filters icon the filters should hide back.
- Apply filter actions keeping bar chart, donut chart and Top 5 bar chart as source and all the worksheets as target.

- Make sure to show top 5 products w.r.t. sum of sales every time irrespective of any filter action values you select or any dropdown filter values you select.
- On the click of Detail Report tab, the dashboard 2 should open and on the click of Sales Analytics tab, dashboard 1 should open. Use appropriate tooltips.
- You can find the dashboard logo and filters logo attached below.
- Dashboard logo:



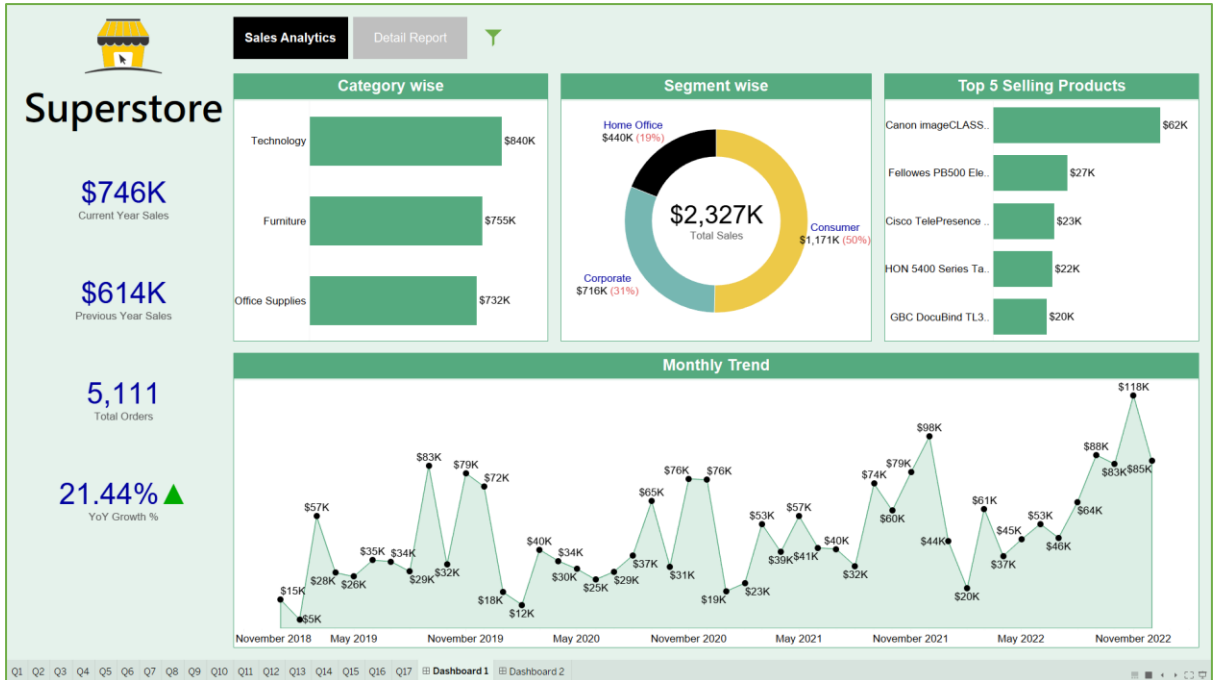
- Show Filters Icon:



- Hide Filters Icon:



Dashboard 1 (Sales Analytics):



Dashboard 2 (Detail Report):

Superstore

Sales Analytics | **Detail Report**

Customer ID	Customer Name	Order ID	Order Date	Category	Sub-Category	Product ID	Product Name	Discount	Profit	Quantity	Sales
AA-10315	Alex Avila	US-2019-128055	31-03-2019	Office Supplies	Appliances	OFF-AP-10002765	Fellowes Advanced Compu...	0	15	2	53
					Binders	OFF-BI-10004390	GBC DocuBind 200 Manual...	0	253	2	674
		US-2019-138100	15-09-2019	Furniture	Furnishings	FUR-FU-10002456	Master Caster Door Stop, L...	0	6	2	15
				Office Supplies	Paper	OFF-PA-10000349	Easy-staple paper	0	7	3	15
		US-2020-121391	04-10-2020	Office Supplies	Storage	OFF-ST-10001590	Tenex Personal Project File...	0	7	2	27
		US-2021-103982	03-03-2021	Office Supplies	Fasteners	OFF-FA-10001332	Acco Banker's Clasps, 5 3/...	0	1	1	2
					Supplies	OFF-SU-10000151	High Speed Automatic Elec...	0	-786	3	3,930
				Technology	Accessories	TEC-AC-10002857	Verbatim 25 GB 6x Blu-ray ...	0	6	7	42
					Phones	TEC-PH-10000895	Polycom VVX 310 VoIP ph...	0	32	3	432
		US-2022-147039	29-06-2022	Office Supplies	Appliances	OFF-AP-10000576	Belkin 325VA UPS Surge P...	0	91	3	363
AA-10375	Allen Arnold				Binders	OFF-BI-10004054	Avery Binding System Hidd...	0	6	2	12
		US-2019-130729	24-10-2019	Office Supplies	Binders	OFF-BI-10002706	Avery Premier Heavy-Duty ...	0	11	3	34
		US-2019-158064	21-04-2019	Office Supplies	Binders	OFF-BI-10002976	ACCOHIDE Binder by Acco...	0	6	5	17
		US-2020-109939	08-05-2020	Office Supplies	Art	OFF-AR-10000127	Newell 321	0	1	2	5
		US-2020-114503	13-11-2020	Office Supplies	Storage	OFF-ST-10003572	Portfolio Personal File Boxes	0	6	6	85
		US-2020-140921	03-02-2020	Furniture	Furnishings	FUR-FU-10003347	Coloredge Poster Frame	0	11	2	28
				Technology	Accessories	TEC-AC-10004901	Kensington SlimBlade Note...	0	51	3	150
		US-2021-126613	10-07-2021	Office Supplies	Storage	OFF-ST-10001325	Sterilite Officeware Hinged...	0	1	2	17
		US-2021-131065	14-11-2021	Office Supplies	Binders	OFF-BI-10004970	ACCOHIDE 3-Ring Binder...	0	4	2	8
					Paper	OFF-PA-10002479	Xerox 4200 Series MultiUs...	0	2	1	5
US-2022-100230				Technology	Accessories	TEC-AC-10004145	Logitech diNovo Edge Key...	0	115	2	500
		US-2022-100230	11-12-2022	Office Supplies	Binders	OFF-BI-10002498	Clear Mylar Reinforcing Str...	0	5	1	15
					Paper	OFF-PA-10002245	Xerox 1895	0	8	3	18
				Technology	Phones	TEC-PH-10004522	Dexim XPower Skin Super...	0	29	2	117
		US-2022-169488	07-09-2022	Office Supplies	Paper	OFF-PA-10000157	Xerox 191	0	19	2	40
						OFF-PA-10000056	Coloredge Poster Frame	0	11	2	28
						OFF-PA-10000056	Coloredge Poster Frame	0	11	2	28
						OFF-PA-10000056	Coloredge Poster Frame	0	11	2	28
						OFF-PA-10000056	Coloredge Poster Frame	0	11	2	28
						OFF-PA-10000056	Coloredge Poster Frame	0	11	2	28

Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Dashboard 1 Dashboard 2

19) Use Netflix dataset and find out country wise shows and total cost for each country. Show the stacked bar chart for the same as shown in below image.

