Assignment-2
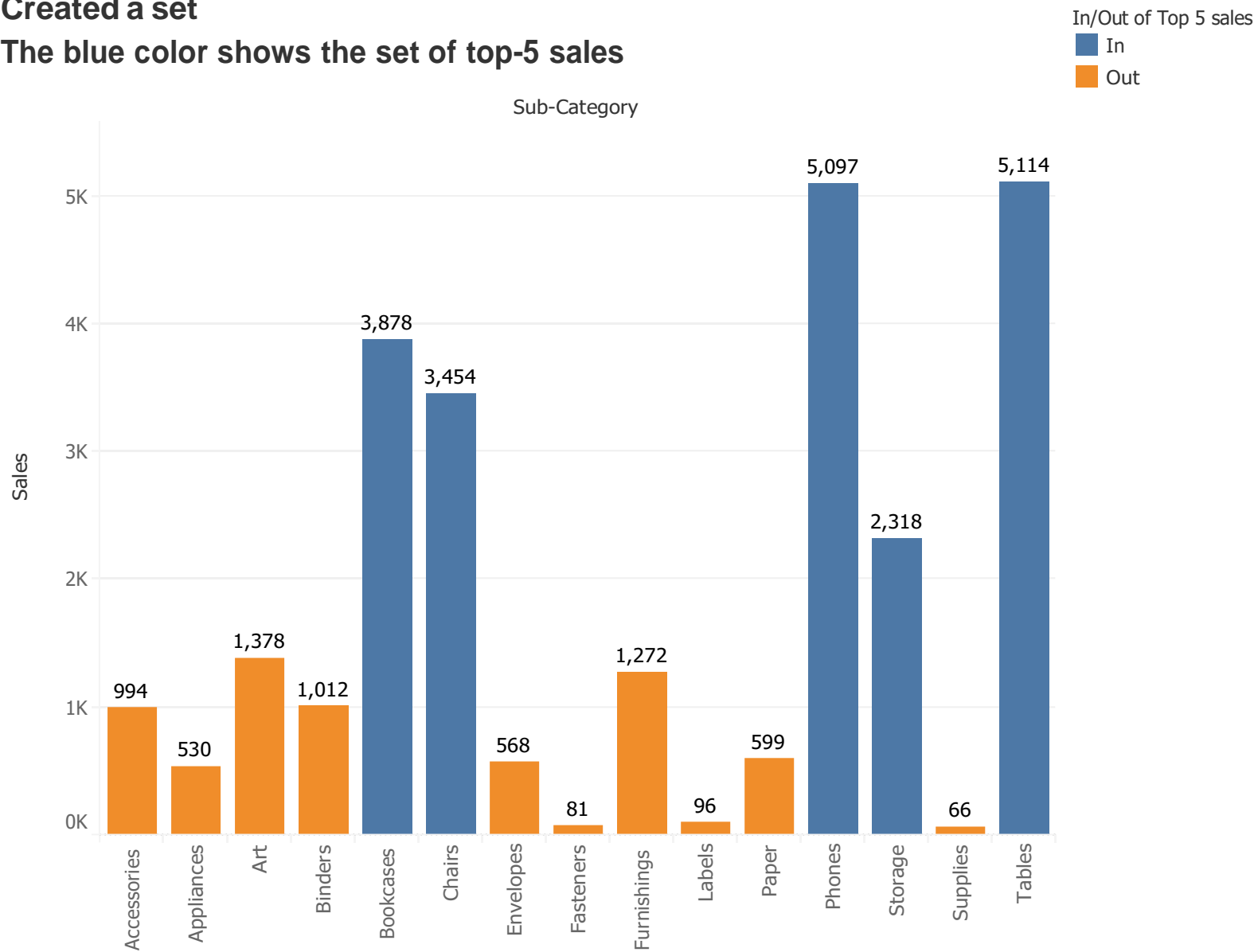
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 Course - Data Analytics

1) Create any 7 data visualizations/charts and perform the following

2) Apply dimension filter, context and measure filter on any of the three

visualizations

Sub-category vs Sales (Bar Chart)

Created a set

The blue color shows the set of top-5 sales

In/Out of Top 5 sales
- In
- Out

Sub-Category

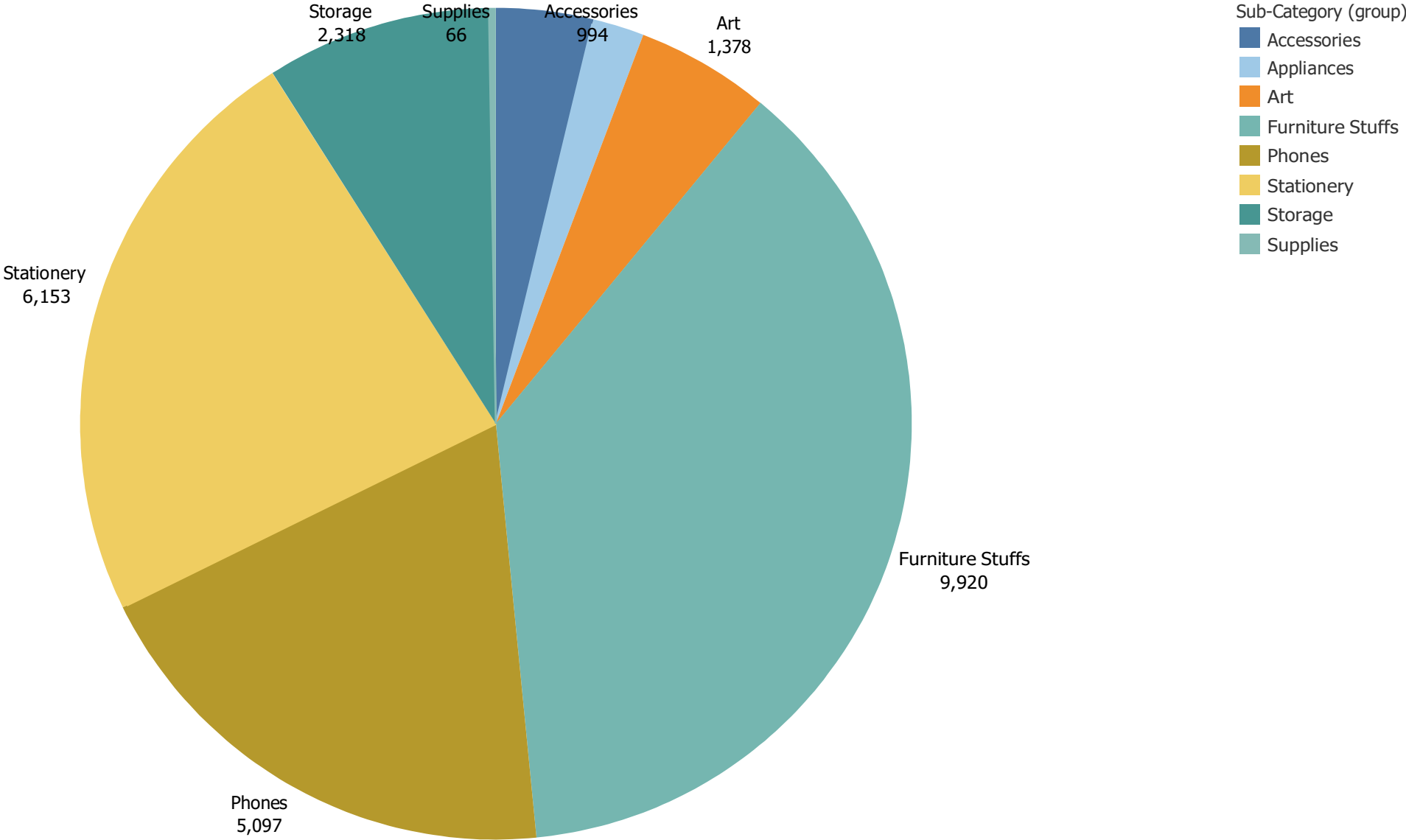Sum of Sales for each Sub-Category. Colour shows details about In/Out of Top 5 sales.

Map using dimension filter

Showing sales in East Region

Sales
67 ▮▮▮▮▮ 3,477

Map based on Longitude (generated) and Latitude (generated). Colour shows sum of Sales. Details are shown for StateandCity.The data is filtered on Region, which keeps East.

Piechart using Group function
Stationery and Furniture stuff are the 2 groups created

Storage 2,318

Supplies 66

Accessories 994

Art 1,378

Stationery 6,153

Furniture Stuffs 9,920

Phones 5,097

Sub-Category (group)andsum of Sales. Colour shows details about Sub-Category (group). The marks are labelled by Sub-Category (group)andsum of Sales.

Sub-Category (group)
- Accessories
- Appliances
- Art
- Furniture Stuffs
- Phones
- Stationery
- Storage
- Supplies

Horizontal Barchart using context filter
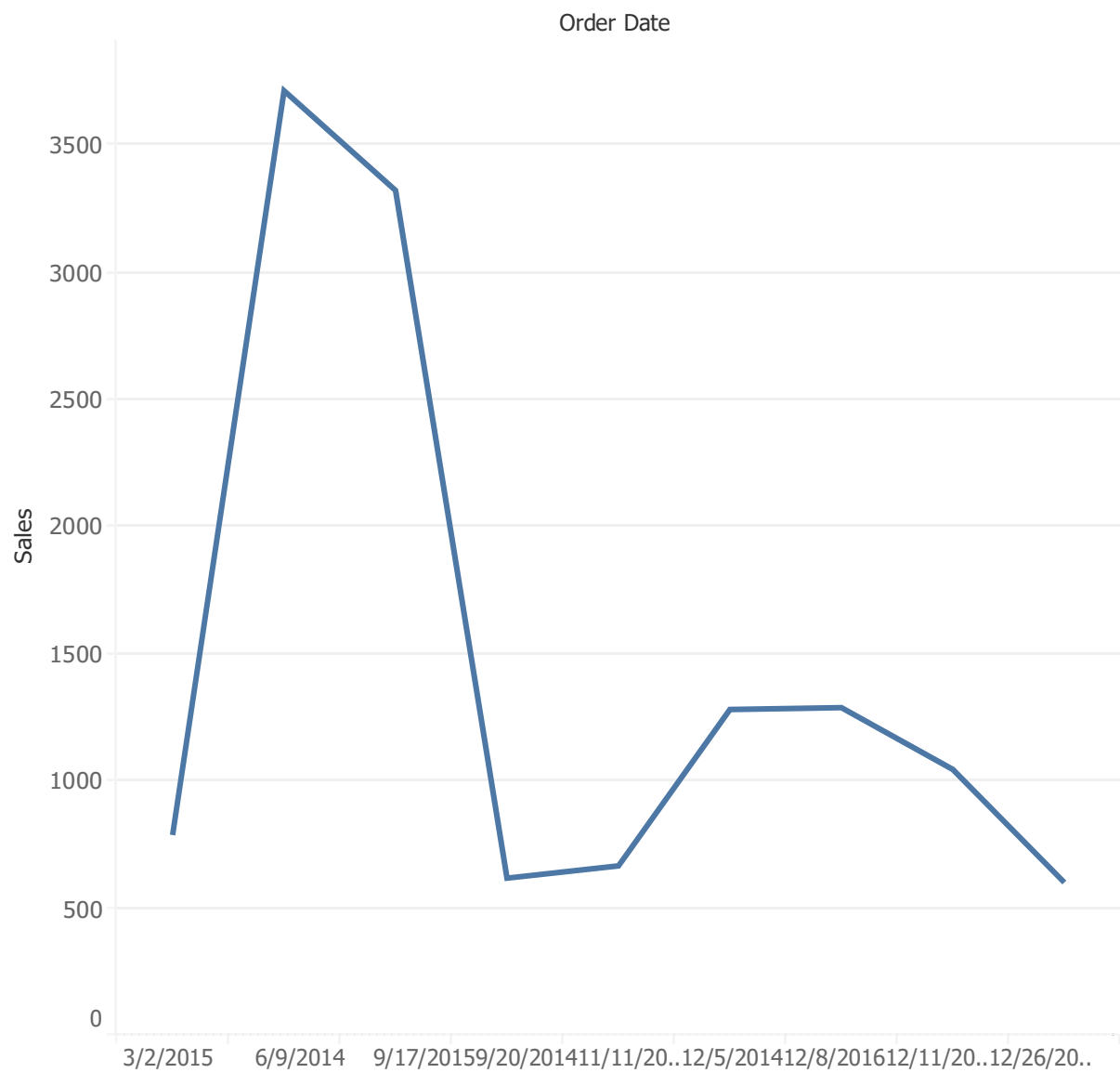
Top-5 sub-category
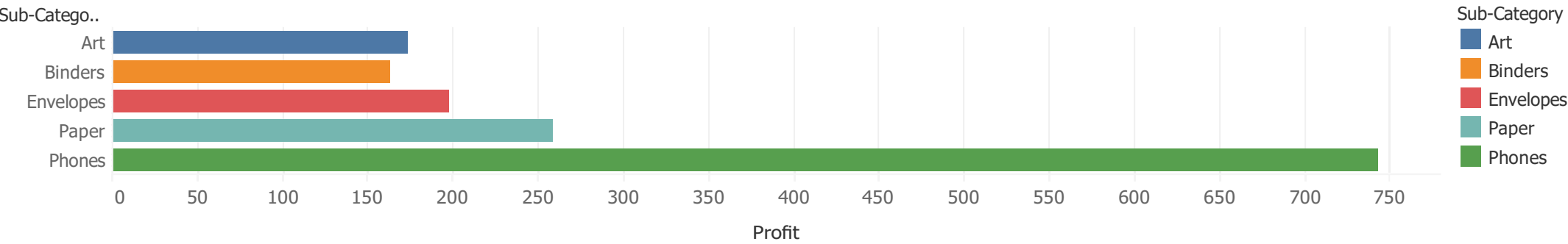
Sub-Catego..

Sum of Profit for each Sub-Category. Colour shows details about Sub-Category.The view is filtered on Sub-Category, which keeps Art,Binders,Envelopes,PaperandPhones.

Line Chart using measure filter
Avg ales between 500-3000

The trend of sum of Sales for Order Date.The data is filtered on average of Sales, which ranges from 500 to 1,000.

Sub-category vs Quantity (Treemap)

Binders	Storage	Accessories	Envelopes	Chairs
Furnishings	Art			
		Fasteners	Appliances	
Phones	Paper		Bookcases	
		Tables	Labels	
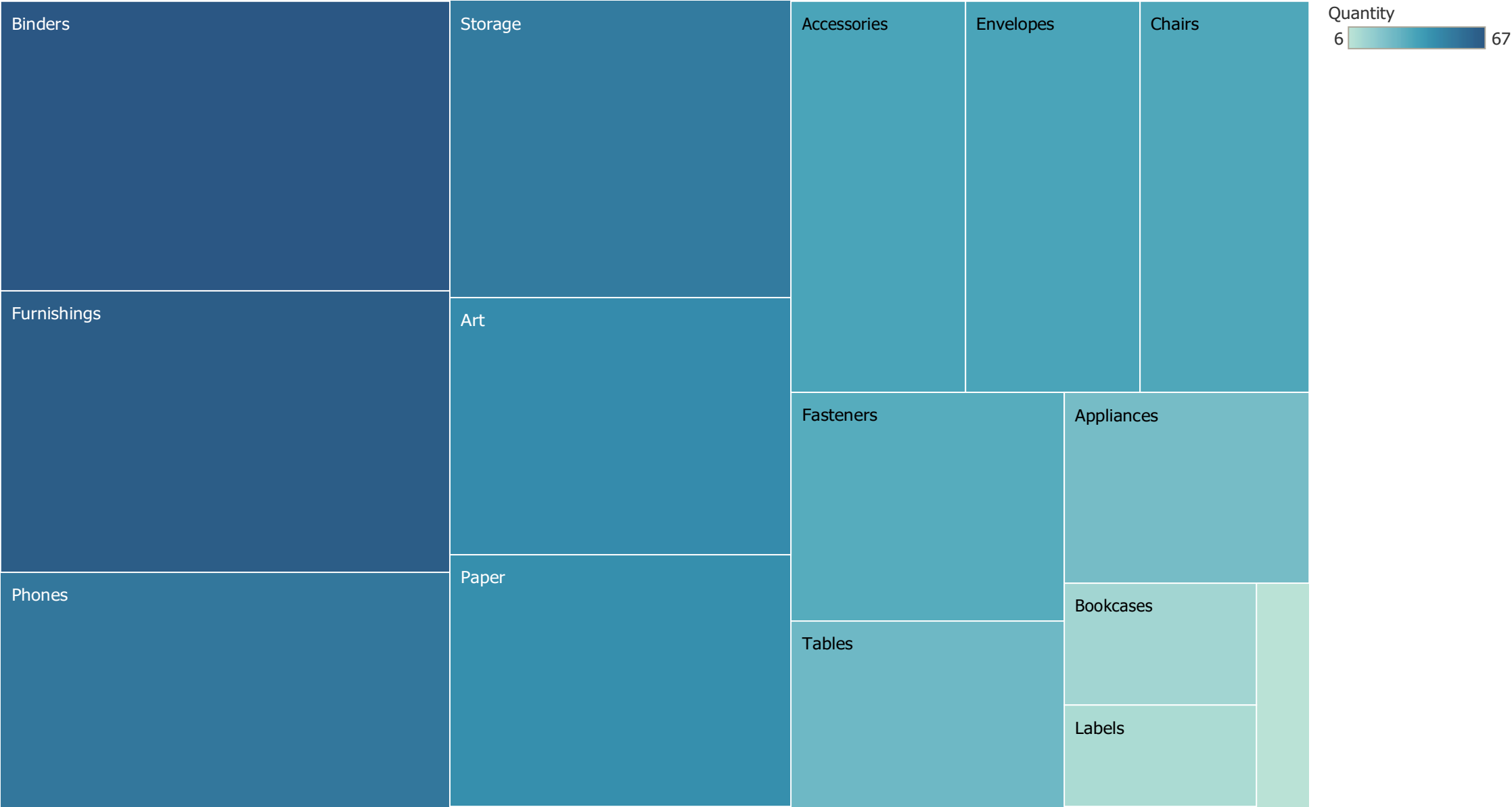
Sub-Category. Colour shows sum of Quantity. Size shows sum of Quantity. The marks are labelled by Sub-Category.

Quantity
6 ▓▓▓▓ 67

Heat Map

Sub-Catego..	Region			
	Central	East	South	West
Accessories	■	▪	▪	■
Appliances	■		■	▪
Art	▪	▪	▪	■
Binders	▪	▪	■	■
Bookcases	■	◼	■	
Chairs	■	■	■	▪
Envelopes	▪	■	■	
Fasteners		▪		▪
Furnishings	■	■	▪	■
Labels	▪			▪
Paper	▪	■	■	■
Phones	■	■	▪	■
Storage	■	■	▪	■
Supplies				▪
Tables	■		■	■

Sales

▫ 3
◻ 1,000
◻ 2,000
◻ 3,000
◻ 3,538

Profit

-1,665 ▬▬▬ 491

Sum of Profit (colour) and sum of Sales (size) broken down by Region vs. Sub-Category.

3) Perform the following data manipulations on your dataset
● create a Hierarchy
● create a set
● create a group

Create a hierarchy

Category	Sub-Catego..	Country	City	
Furniture	Bookcases	United States	Henderson	262
			Houston	532
			Philadelphia	3,083
	Chairs	United States	Chicago	213
			Columbia	302
			Henderson	732
			Houston	813
			Los Angeles	81
			Memphis	832
			New Albany	90
			Philadelphia	71
			Troy	319
	Furnishings	United States	Aurora	102
			Houston	19
			Los Angeles	367
			Memphis	97
			Minneapolis	53
			New Albany	6
			New York City	138
			Philadelphia	207
			Richardson	191
			Roseville	43
			Wilmington	47
	Tables	United States	Bloomington	618
			Fort Lauderdale	958
			Los Angeles	1,706
			Orem	1,045
			Seattle	788
Office Supplies	Appliances	United States	Decatur	208
			Fort Worth	69
			Fremont	60
			Los Angeles	115
			Saint Paul	78
	Art	United States	Charlotte	3
			Fremont	19
			Gilbert	1,113
			Los Angeles	27
			Philadelphia	102
			Roseville	12
			San Francisco	23
			Troy	2
			Urbandale	76

Binders	United States	Bristol	158
		Chicago	2
		Decatur	17
		Eagan	17

Sum of Sales broken down by Category,Sub-Category,CountryandCity.

Create a hierarchy

Category	Sub-Catego..	Country	City	
Office Supplies	Binders	United States	Fort Worth	3
			Houston	1
			Los Angeles	56
			Minneapolis	33
			New Albany	38
			New York City	5
			Philadelphia	10
			Phoenix	2
			Portland	6
			Roseville	76
			San Francisco	74
			Seattle	408
			Troy	48
			Urbandale	27
			Wilmington	31
	Envelopes	United States	Columbus	135
			Durham	201
			Houston	113
			Philadelphia	3
			Wilmington	115
	Fasteners	United States	Columbus	62
			New York City	15
			Roseville	4
	Labels	United States	Los Angeles	15
			New Albany	75
			Rochester	6
	Paper	United States	Chicago	65
			Columbus	102
			Concord	16
			Houston	29
			Jackson	19
			Los Angeles	153
			Minneapolis	13
			Rochester	24
			Roseville	55
			Springfield	76
			Troy	47
	Storage	United States	Chicago	230
			Fort Lauderdale	22
			Houston	186
			Los Angeles	78
			Madison	666
			Melbourne	96
			Memphis	73
			Phoenix	244
			San Francisco	21

Sum of Sales broken down by Category,Sub-Category,CountryandCity.

Create a hierarchy

Category	Sub-Catego..	Country	City	
Office Supplies	Storage	United States	Troy	209
			West Jordan	56
			Westland	212
			Wilmington	227
	Supplies	United States	Roseville	66
Technology	Accessories	United States	Aurora	239
			Charlotte	74
			Chicago	96
			Dover	45
			Eagan	46
			Los Angeles	105
			Orland Park	340
			Rochester	20
			Troy	30
	Phones	United States	Charlotte	28
			Columbus	60
			Dover	22
			Gilbert	168
			Houston	371
			Los Angeles	1,892
			Naperville	147
			New York City	1,030
			Richardson	1,098
			San Francisco	213
			Wilmington	68

Sum of Sales broken down by Category,Sub-Category,CountryandCity.