Create a bar chart to represent region wise profit. The Bars should also display category, sales & profit value.
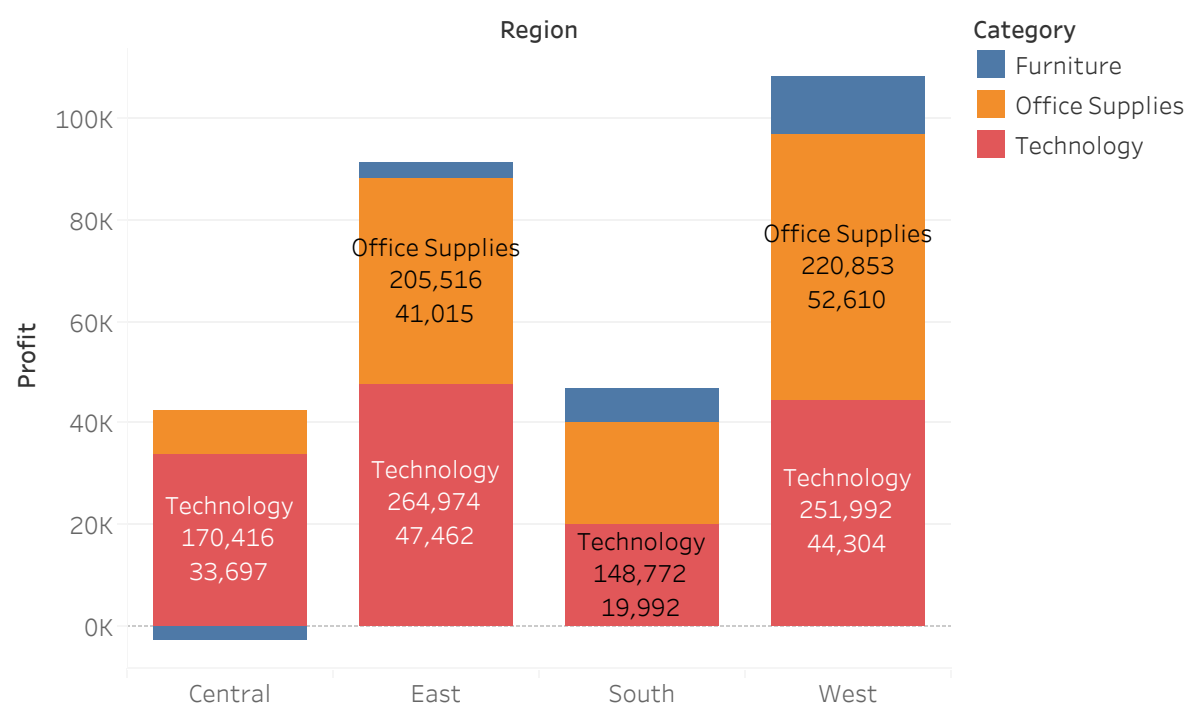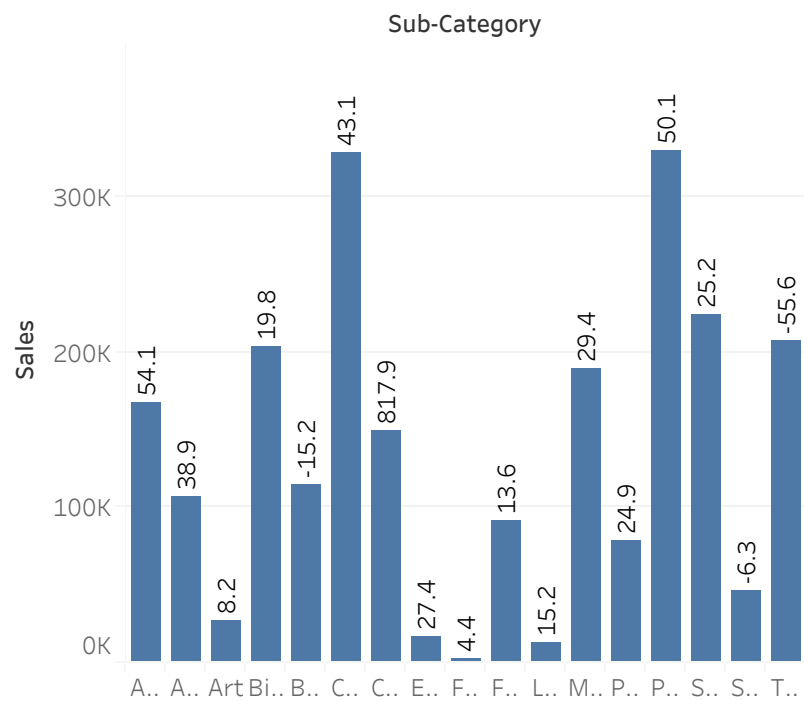
Region

Category
- ■ Furniture
- ■ Office Supplies
- ■ Technology

Profit

100K

80K

60K

40K

20K

0K

Central   East   South   West

Office Supplies
205,516
41,015

Office Supplies
220,853
52,610

Technology
170,416
33,697

Technology
264,974
47,462

Technology
148,772
19,992

Technology
251,992
44,304

Sum of Profit for each Region. Color shows details about Category. The marks are labeled by Category, sum of Sales and sum of Profit.

Display sub category wise quantity sold & average profit using bar chart.

Sum of Sales for each Sub-Category. The marks are labeled by Calculation1.

Display sub category & Region wise profit in the tabular format. Format the worksheet with black background. Font in bright color, no banding in rows/columns. Heading should be highlighted in different color.

Region	Sub-Cate..	
Central	Accessories	7,252
	Appliances	-2,639
	Art	1,195
	Binders	-1,044
	Bookcases	-1,998
	Chairs	6,593
	Copiers	15,609
	Envelopes	1,778
	Fasteners	237
	Furnishings	-3,906
	Labels	1,073
	Machines	-1,486
	Paper	6,972
	Phones	12,323
	Storage	1,970
	Supplies	-662
	Tables	-3,560
East	Accessories	11,196
	Appliances	8,391
	Art	1,900
	Binders	11,268
	Bookcases	-1,168
	Chairs	9,358
	Copiers	17,023
	Envelopes	1,812
	Fasteners	264
	Furnishings	5,881

Sum of Profit broken down by Region and Sub-Category.

Display sub category
& Region wise profit in
the tabular format.
Format the worksheet
with black
background. Font in
bright color,
no banding in
rows/columns.
Heading should be
highlighted in
different color.

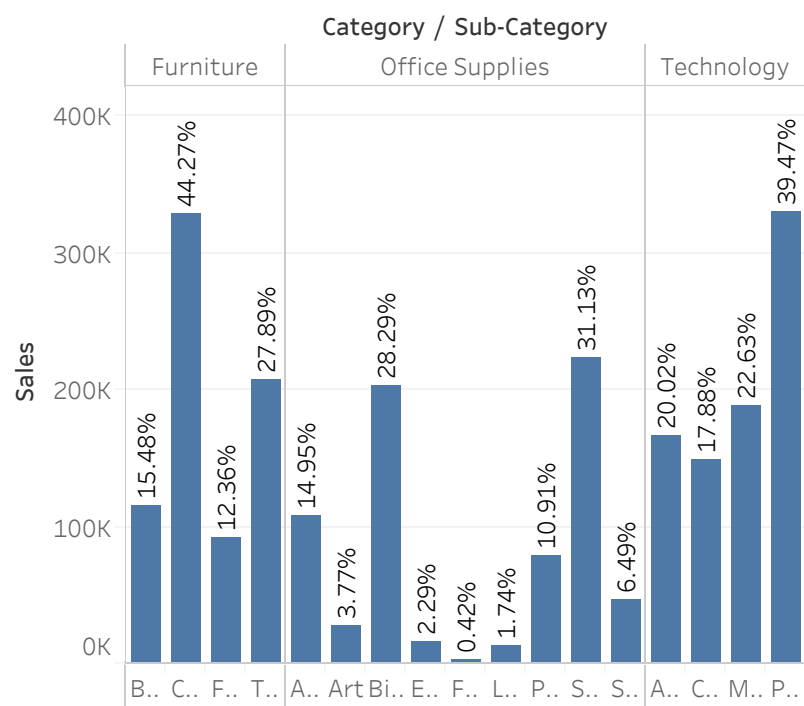| Region	Sub-Cate..	
East	Labels	1,129
	Machines	6,929
	Paper	9,015
	Phones	12,315
	Storage	8,389
	Supplies	-1,155
	Tables	-11,025
South	Accessories	7,005
	Appliances	4,124
	Art	1,059
	Binders	3,901
	Bookcases	1,339
	Chairs	6,612
	Copiers	3,659
	Envelopes	1,465
	Fasteners	174
	Furnishings	3,443
	Labels	1,041
	Machines	-1,439
	Paper	5,947
	Phones	10,767
	Storage	2,274
	Supplies	2
	Tables	-4,623
West	Accessories	16,485
	Appliances	8,261
	Art	2,374

Sum of Profit broken down by Region
and Sub-Category.

Display sub category & Region wise profit in the tabular format. Format the worksheet with black background. Font in bright color, no banding in rows/columns. Heading should be highlighted in different color.

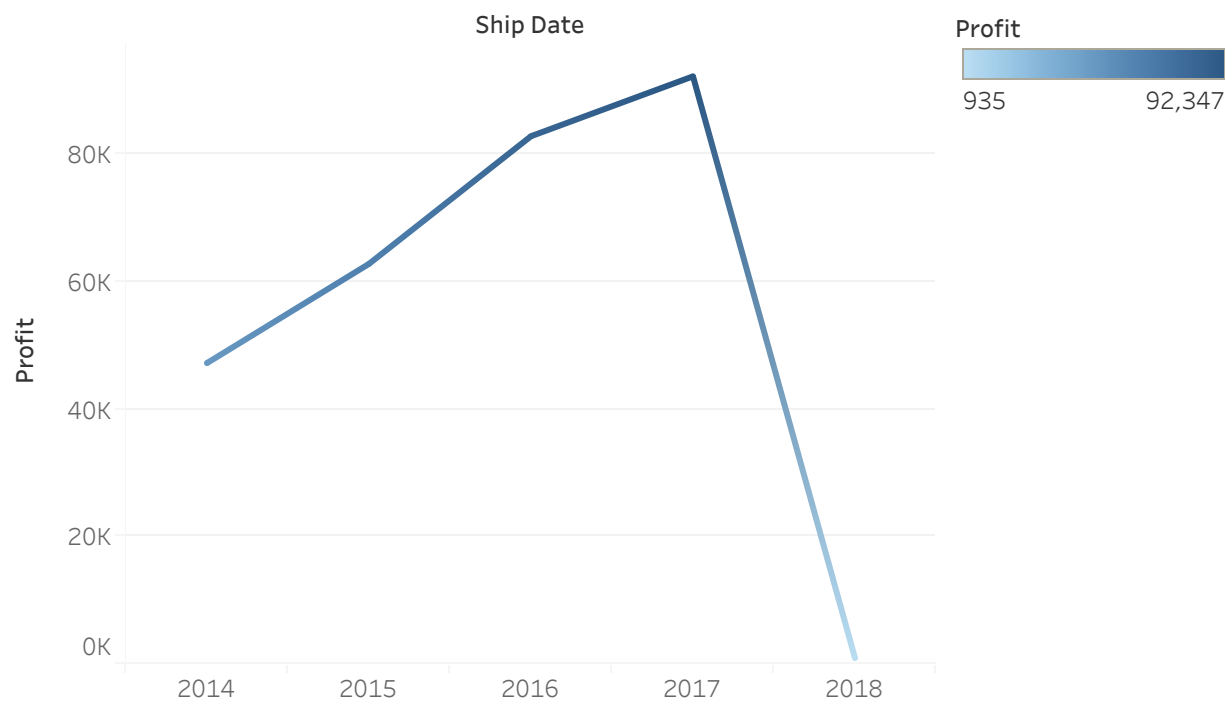| Region	Sub-Cate..	
West	Binders	16,097
	Bookcases	-1,647
	Chairs	4,028
	Copiers	19,327
	Envelopes	1,909
	Fasteners	275
	Furnishings	7,641
	Labels	2,303
	Machines	-619
	Paper	12,119
	Phones	9,111
	Storage	8,645
	Supplies	626
	Tables	1,483

Sum of Profit broken down by Region and Sub-Category.

2. Display in a form of horizontal bar chart category & subcategory wise total sales & Sales percentage. Percentage should be with respect to Category.

Category / Sub-Category

| Furniture | Office Supplies | Technology |

Sales for Furniture:
- B.. 15.48%
- C.. 44.27%
- F.. 12.36%
- T.. 27.89%

Sales for Office Supplies:
- A.. 14.95%
- Art 3.77%
- Bi.. 28.29%
- E.. 2.29%
- F.. 0.42%
- L.. 1.74%
- P.. 10.91%
- S.. 31.13%
- S.. 6.49%

Sales for Technology:
- A.. 20.02%
- C.. 17.88%
- M.. 22.63%
- P.. 39.47%

Sum of Sales for each Sub-Category broken down by Category. The marks are labeled by % of Total Sales.

Represent year wise profit (running total)

The trend of sum of Profit for Ship Date Year. Color shows sum of Profit.

4. Represent subcategory wise profit. Use conditional formatting to highlight top & bottom profit generating subcategory. The number should be dynamic.

Sub-Category		TBN
Copiers	19.42%	■ False
Phones	15.54%	■ True
Accessories	14.64%	
Paper	11.89%	
Binders	10.55%	
Chairs	9.28%	
Storage	7.43%	
Appliances	6.33%	
Furnishings	4.56%	
Envelopes	2.43%	
Art	2.28%	
Labels	1.94%	
Machines	1.18%	
Fasteners	0.33%	
Supplies	-0.42%	
Bookcases	-1.21%	
Tables	-6.19%	

% of Total Profit broken down by Sub-Category. Color shows details about TBN.

5. Display monthly profit in a tabular format. Order date should be interactive. Increase & decrease should be highlighted using arrow.

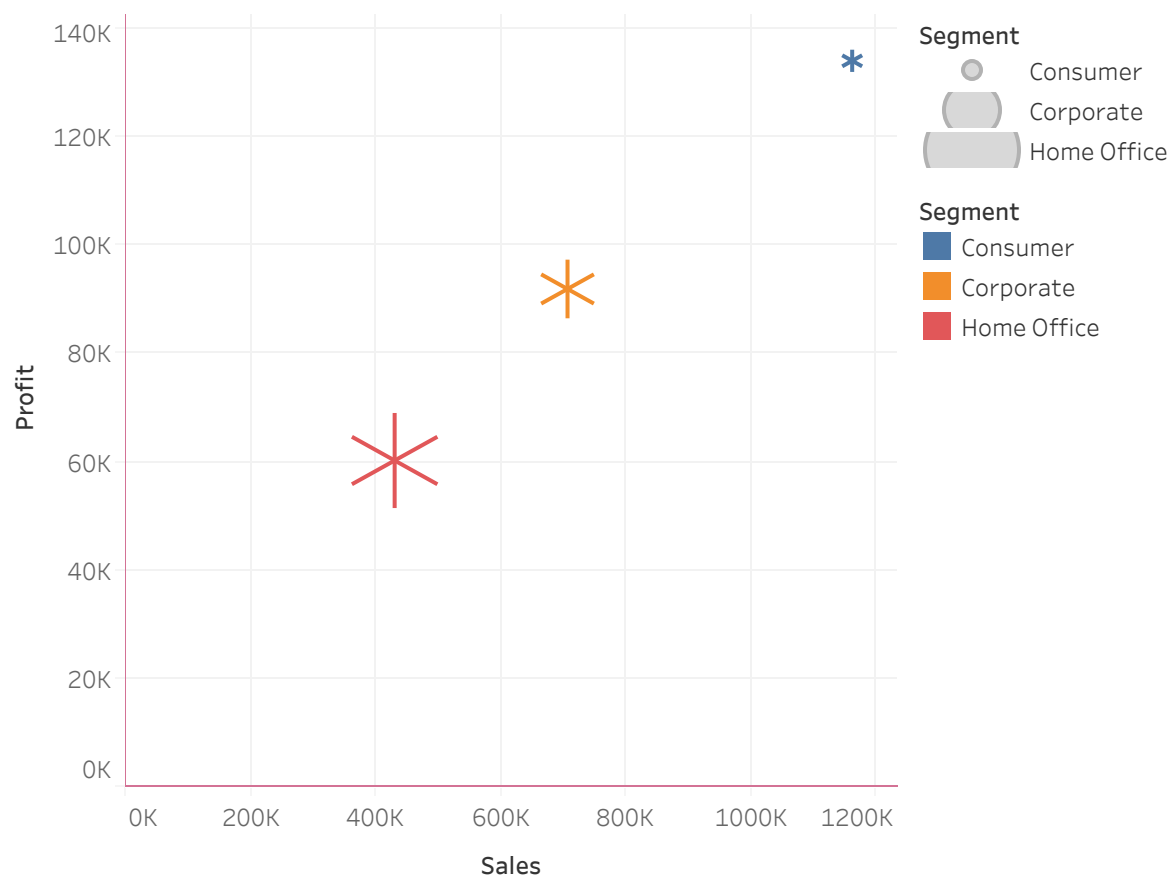| Year of Ship Date	Month of Ship Da..	kpi	
2014	January	➡	2,424
	February	⬇	866
	March	⬇	123
	April	⬆	3,313
	May	⬇	2,636
	June	⬆	5,317
	July	⬇	-1,048
	August	⬆	6,162
	September	⬆	6,836
	October	⬇	4,568
	November	⬆	9,415
	December	⬇	6,680
2015	January	⬇	-1,456
	February	⬆	3,159
	March	⬆	9,763
	April	⬇	1,558
	May	⬆	5,563
	June	⬇	5,223
	July	⬇	2,940
	August	⬆	3,650
	September	⬆	8,714
	October	⬇	3,602
	November	⬆	12,362
	December	⬇	7,803
2016	January	⬇	3,446
	February	⬆	5,274
	March	⬇	3,718
	April	⬇	2,832
	May	⬆	6,357
	June	⬆	6,664
	July	⬇	4,801
	August	⬇	2,076
	September	⬆	9,359
	October	⬆	15,629
	November	⬇	11,669
	December	⬇	11,116
2017	January	⬇	6,359
	February	⬇	2,058

kpi
- ⬇ DW
- ➡ NC
- ⬆ UP
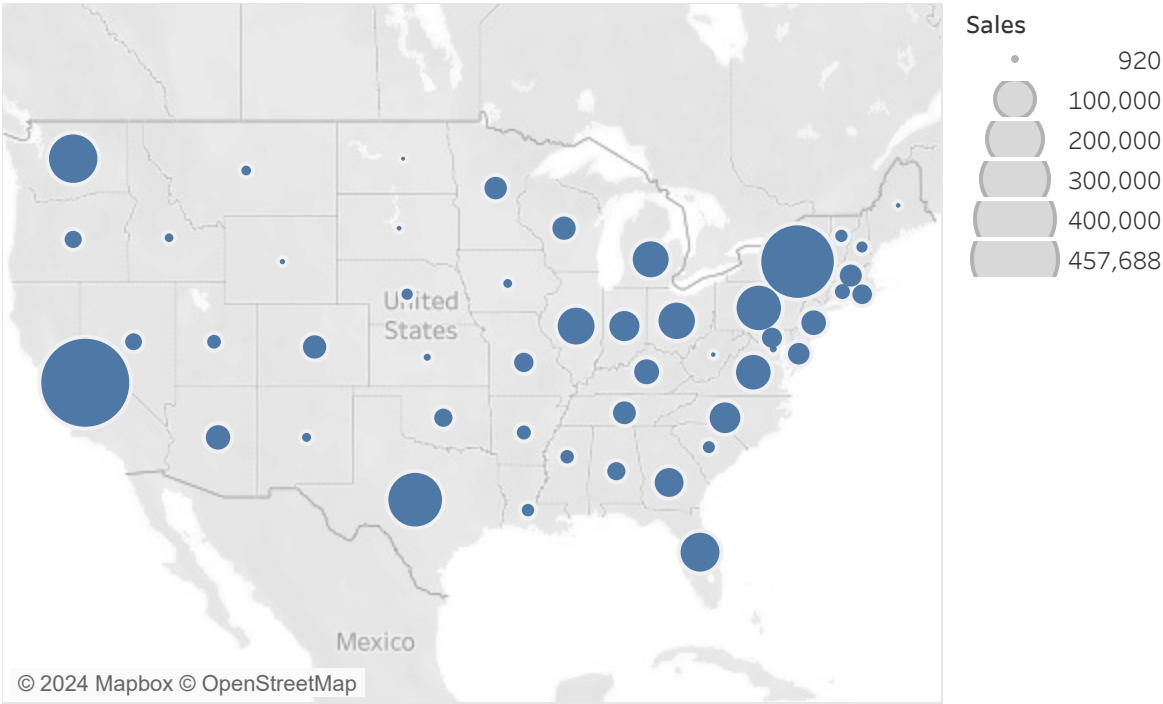
Sum of Profit broken down by Ship Date Year and Ship Date Month. Shape shows details about kpi. The marks are labeled by sum of Profit.

5. Display monthly profit in a tabular format. Order date should be interactive. Increase & decrease should be highlighted using arrow.

Year of Ship Date	Month of Ship Da..			kpi	
2017	March	⬆	13,157	⬇	DW
	April	⬇	2,678	➡	NC
	May	⬆	5,910	⬆	UP
	June	⬆	7,195		
	July	⬇	6,639		
	August	⬆	10,155		
	September	⬆	11,237		
	October	⬇	8,826		
	November	⬇	8,690		
	December	⬆	9,441		
2018	January	⬇	935		

Sum of Profit broken down by Ship Date Year and Ship Date Month. Shape shows details about kpi. The marks are labeled by sum of Profit.

1. Create a Scatter chart to represent profit & sales for each segment.
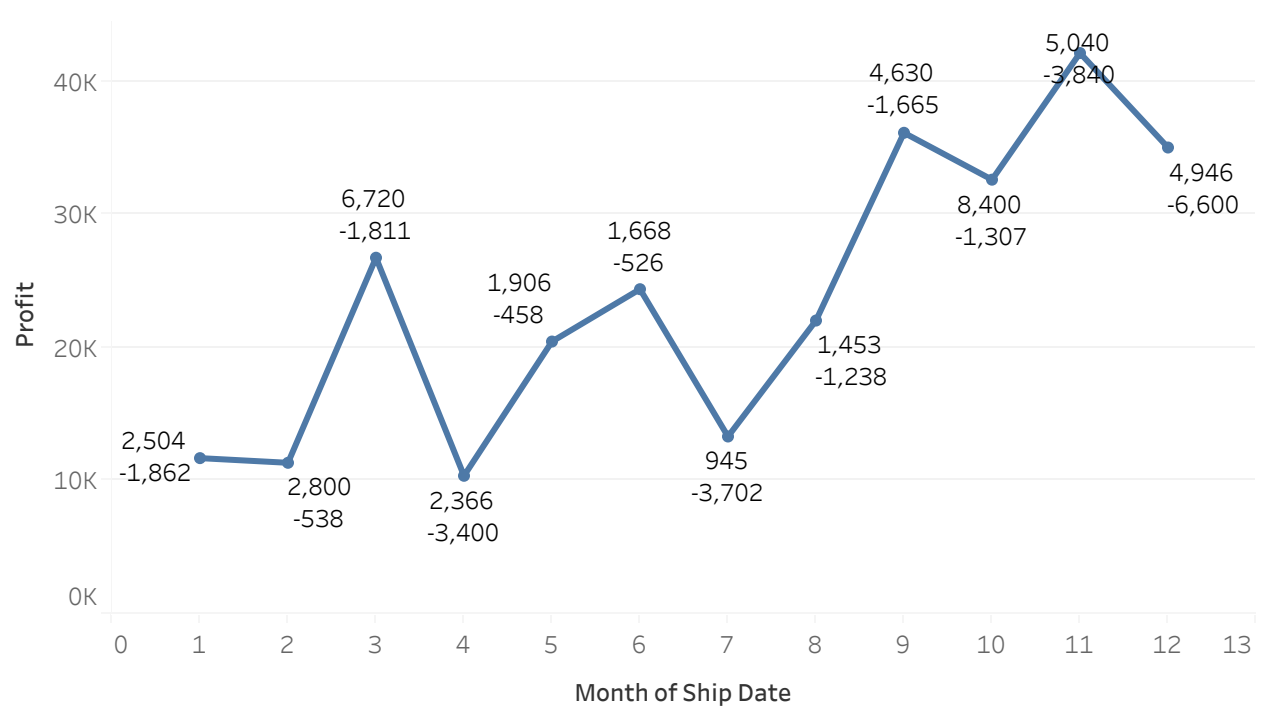

Sum of Sales vs. sum of Profit. Color shows details about Segment. Size shows details about Segment.

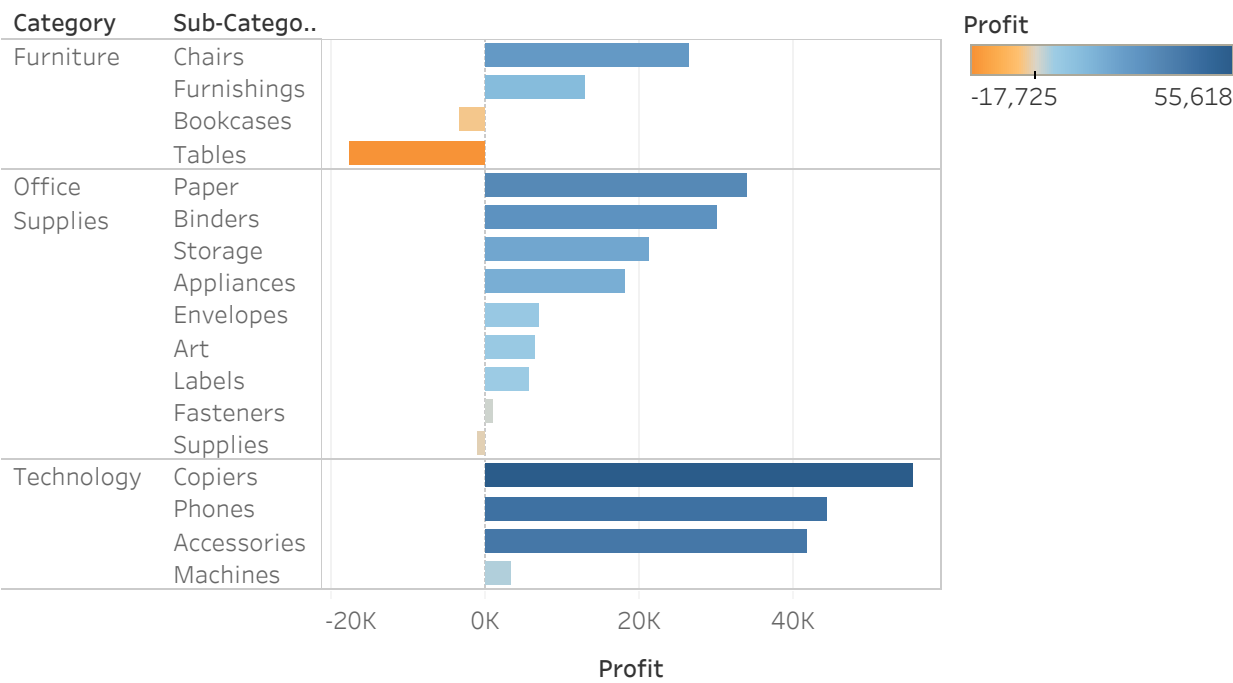## 2. Represent State wise sales using Word map.

Map based on Longitude (generated) and Latitude (generated). Size shows sum of Sales. Details are shown for State.

3. Use a line graph to represent monthly Profit, Min & Max profit along with the month should be displayed.
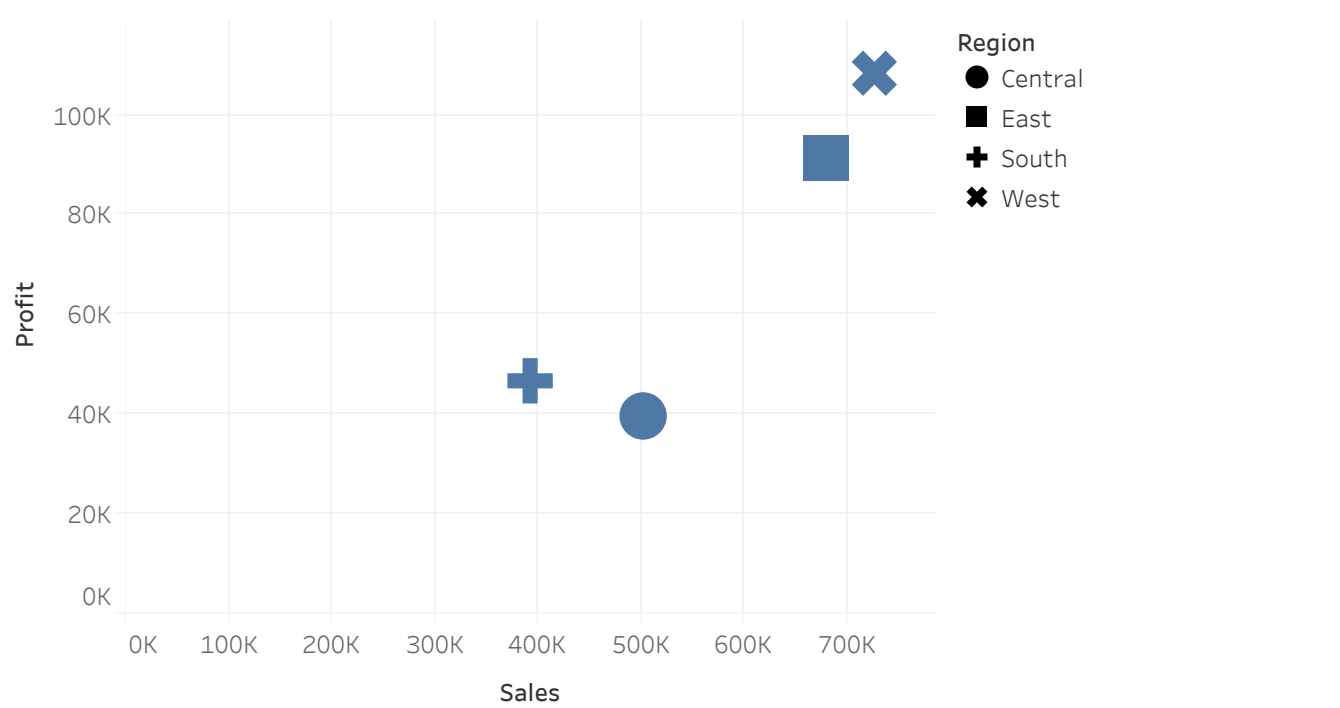

The trend of sum of Profit for Ship Date Month. The marks are labeled by max and min.

4. Represent profit using a Bar chart category & Subcategory
wise, focus should be on subcategories following above average
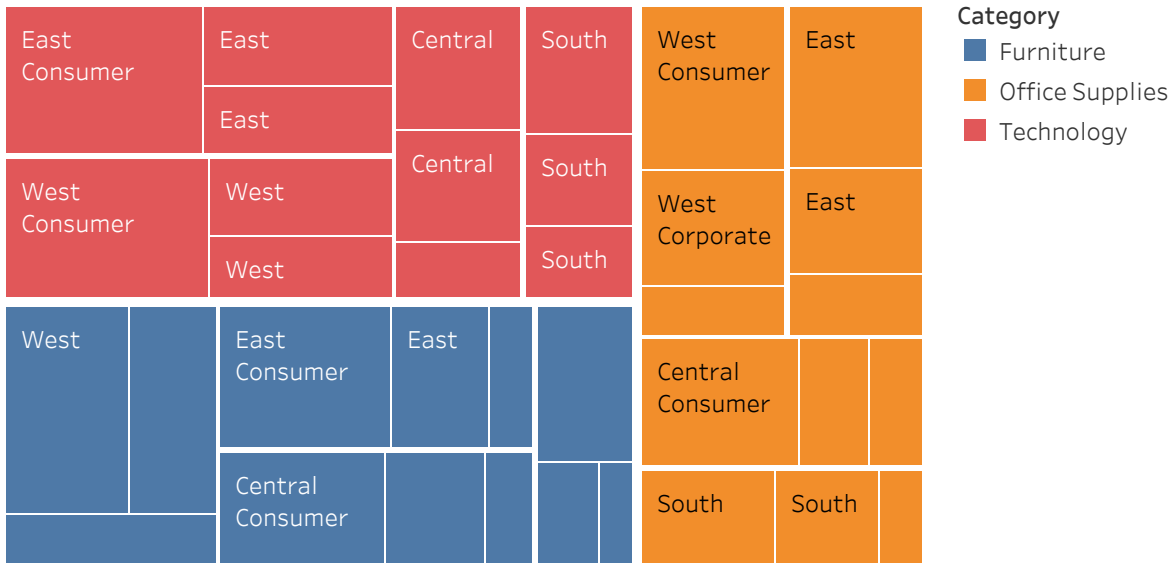(reference line).

Category	Sub-Catego..	
Furniture	Chairs	
	Furnishings	
	Bookcases	
	Tables	
Office Supplies	Paper	
	Binders	
	Storage	
	Appliances	
	Envelopes	
	Art	
	Labels	
	Fasteners	
	Supplies	
Technology	Copiers	
	Phones	
	Accessories	
	Machines	

Profit

-17,725   55,618

-20K   0K   20K   40K

Profit

Sum of Profit for each Sub-Category broken down by Category. Color shows sum of Profit.

5. Represent Region wise Sales & Profit using Bubble Chart
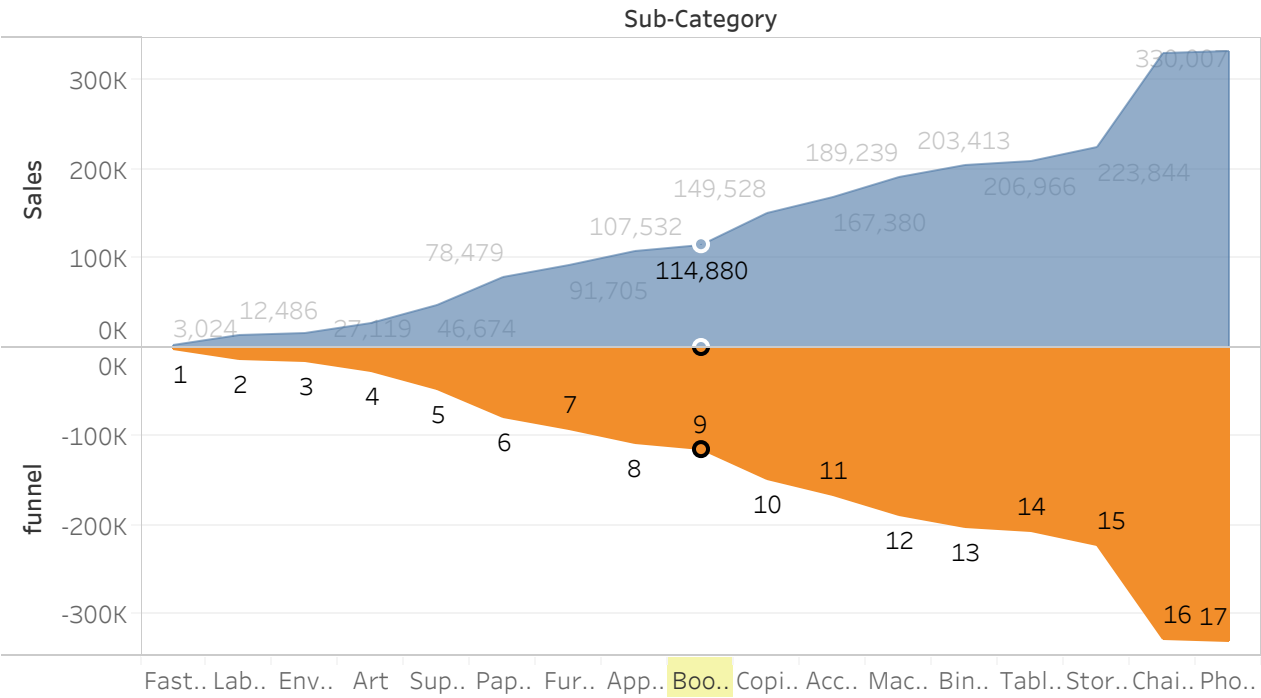

Sum of Sales vs. sum of Profit. Shape shows details about Region.

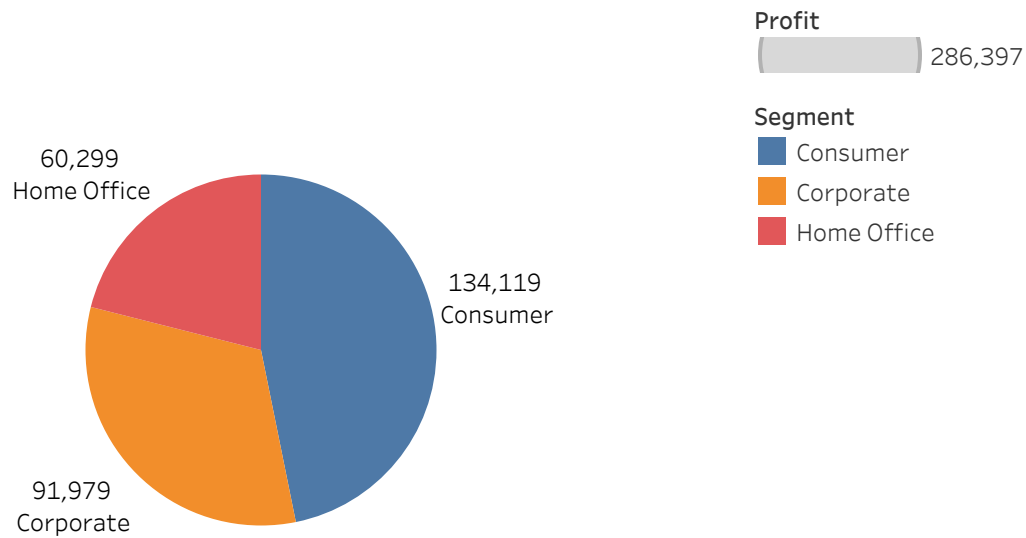# 6. Tree map to represent Category, Segment, Region wise Sales

Region and Segment. Color shows details about Category. Size shows sum of Sales. The marks are labeled by Region and Segment.

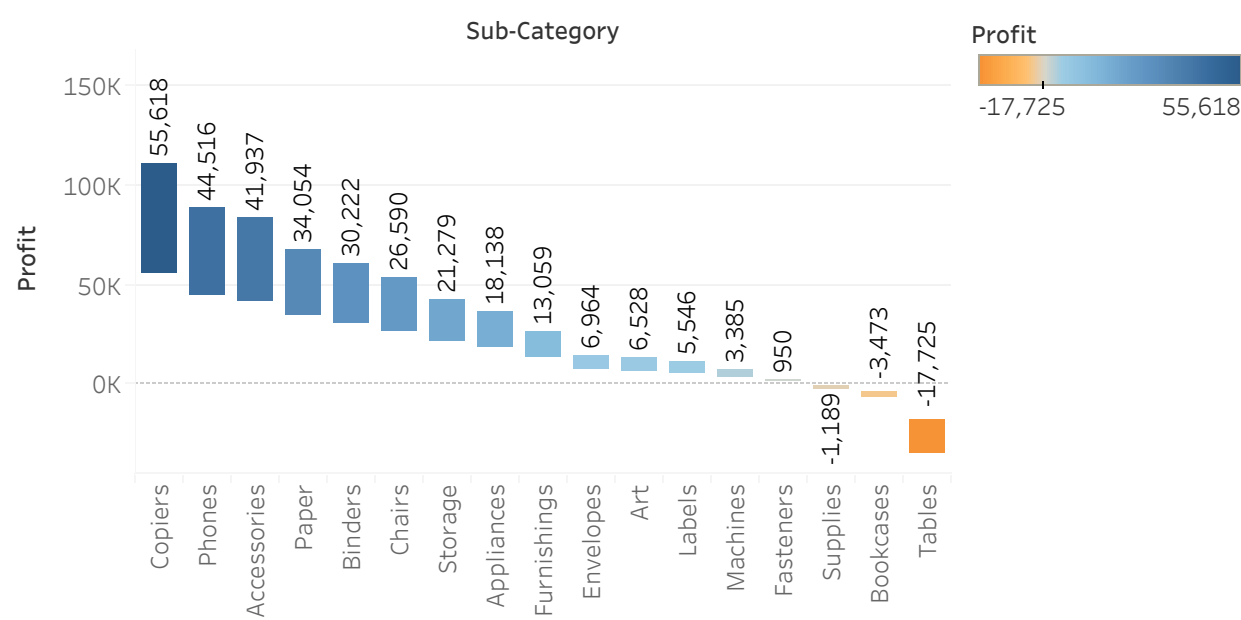# 7. Adv Funnel to represent subcategory Sales

Sub-Category

Sum of Sales and sum of funnel for each Sub-Category. For pane Sum of funnel: The marks are labeled by ind.

8. Represent segment wise profit using Pie Chart

Profit

| | 286,397

Segment
- Consumer
- Corporate
- Home Office

60,299
Home Office

134,119
Consumer

91,979
Corporate

Sum of Profit and Segment. Color shows details about Segment. Size shows sum of Profit. The marks are labeled by sum of Profit and Segment.

9. Represent Subcategory wise profit using water fall chart

Sub-Category

Profit

-17,725   55,618

Sum of Profit for each Sub-Category. Color shows sum of Profit. Size shows sum of Profit. The marks are labeled by sum of Profit.

Bar values (left to right):
- Copiers: 55,618
- Phones: 44,516
- Accessories: 41,937
- Paper: 34,054
- Binders: 30,222
- Chairs: 26,590
- Storage: 21,279
- Appliances: 18,138
- Furnishings: 13,059
- Envelopes: 6,964
- Art: 6,528
- Labels: 5,546
- Machines: 3,385
- Fasteners: 950
- Supplies: -1,189
- Bookcases: -3,473
- Tables: -17,725