SmartBridge - VIT EXTERNSHIP (DATA ANALYTICS)

Assignment – 2
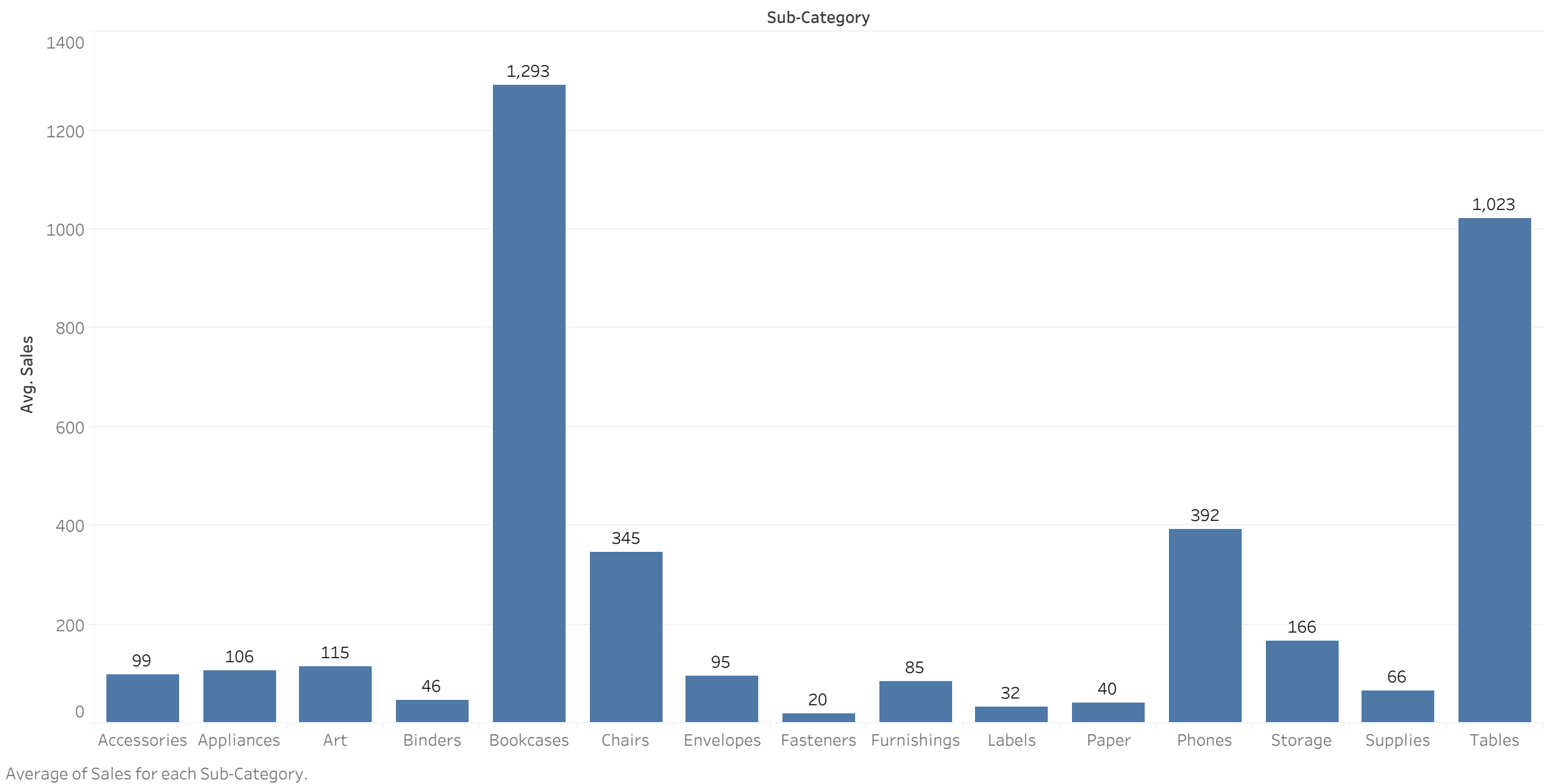
Name : Ujwal Kumar D

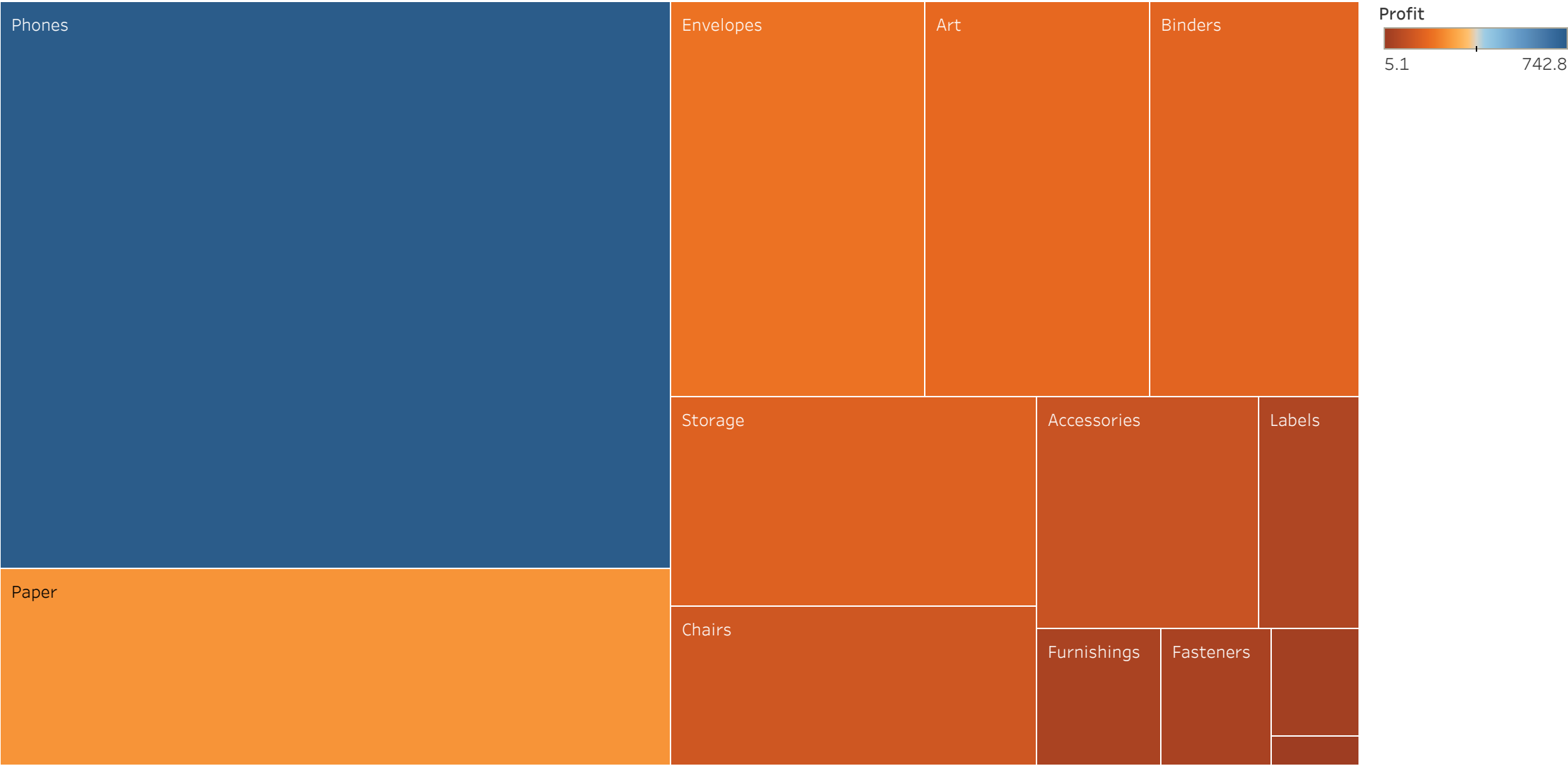**Regd.no** : 20BCE0735

Email : ujwalkumar.d2020@vitstudent.ac.in

Campus : VIT VELLORE

Visualization-1 : Avg sales

Sub-Category

Average of Sales for each Sub-Category.

Visualization-2 : Tree Map

Profit

5.1 ———————————— 742.8

Phones

Paper

Envelopes

Art

Binders

Storage

Accessories

Labels

Chairs

Furnishings

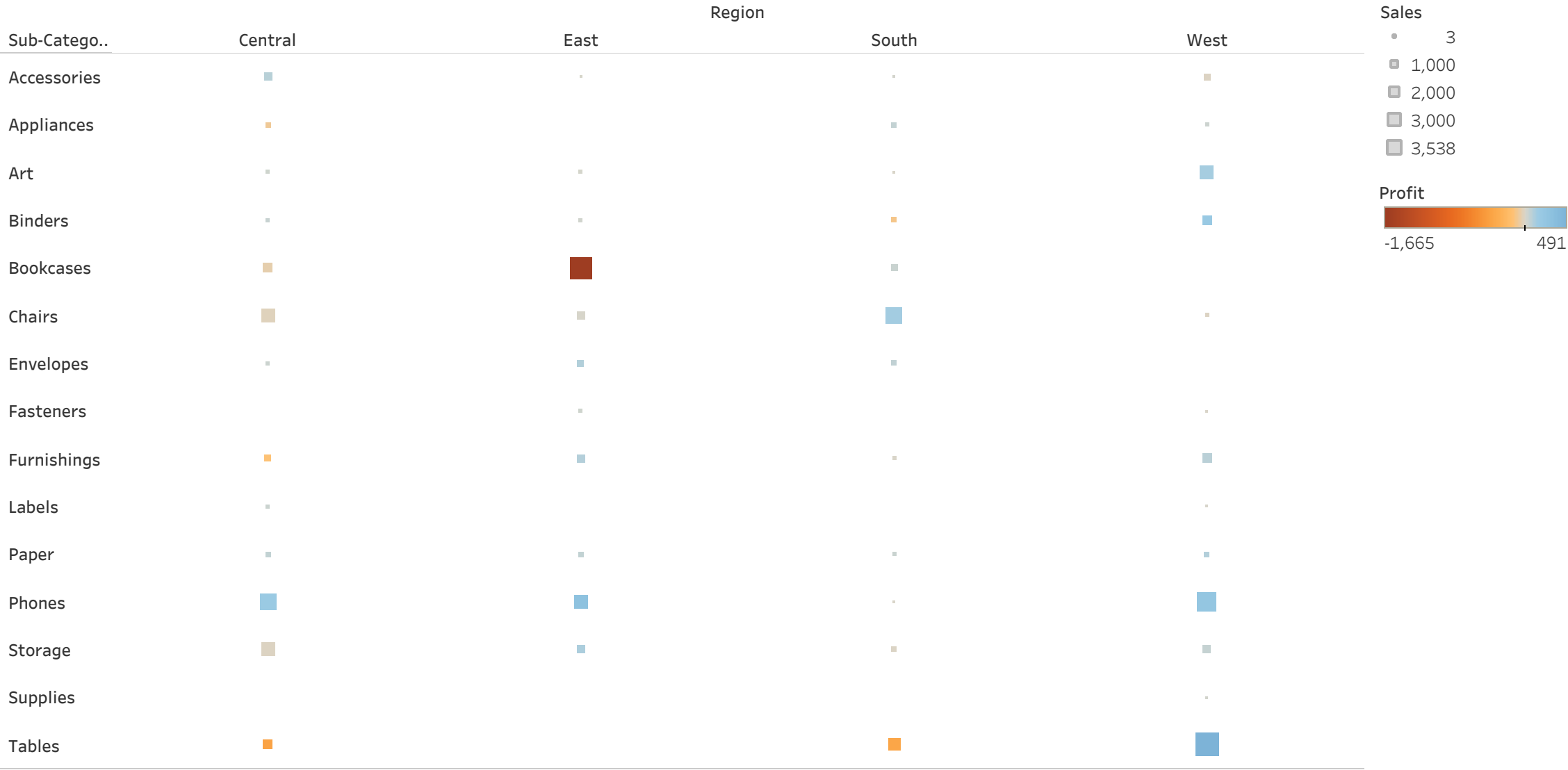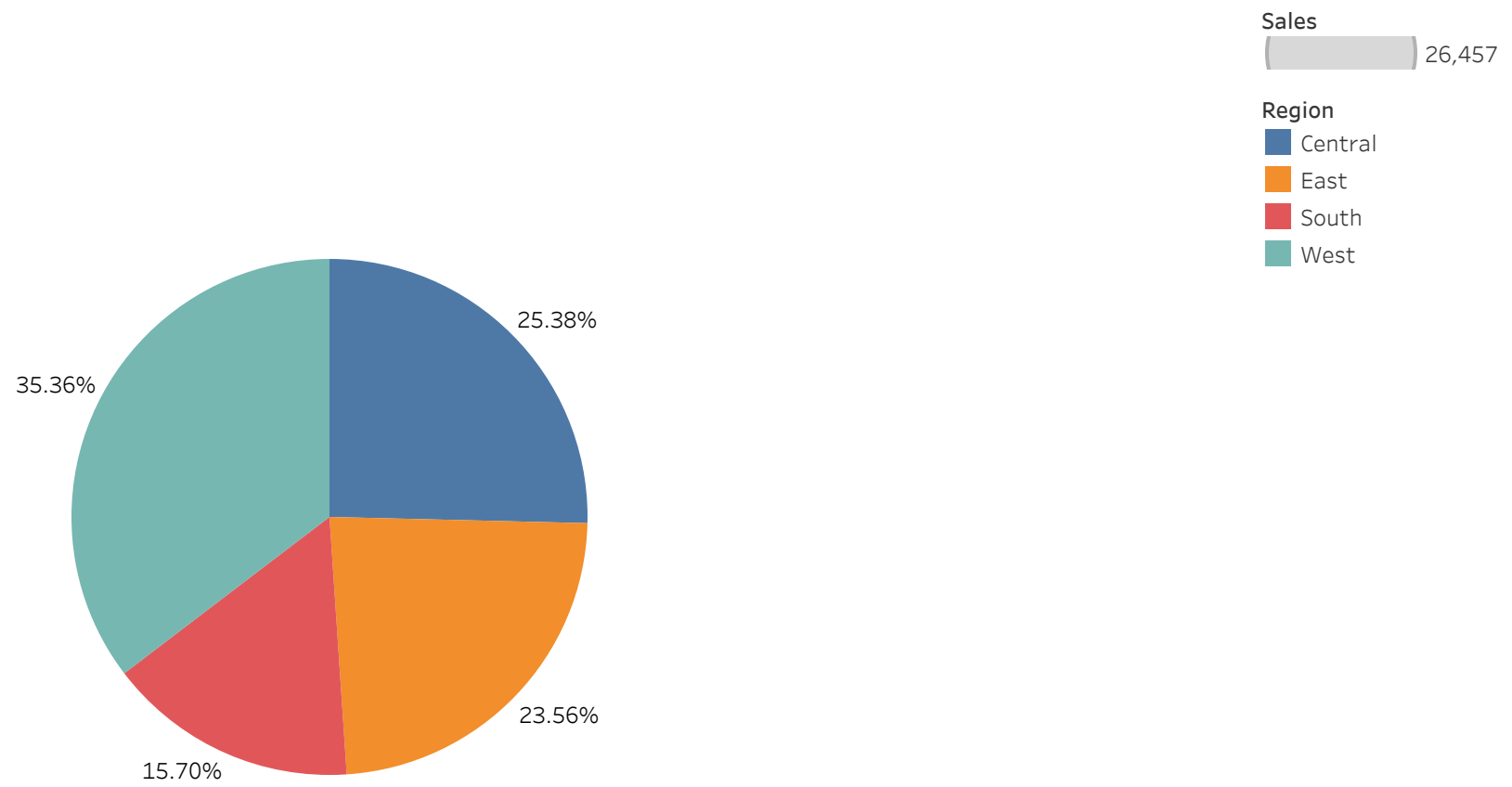**Fasteners**

Sub-Category. Color shows sum of Profit. Size shows sum of Profit. The marks are labeled by Sub-Category. The view is filtered on sum of Profit, which includes greater than and or equal to 0.0 and keeps Null values.
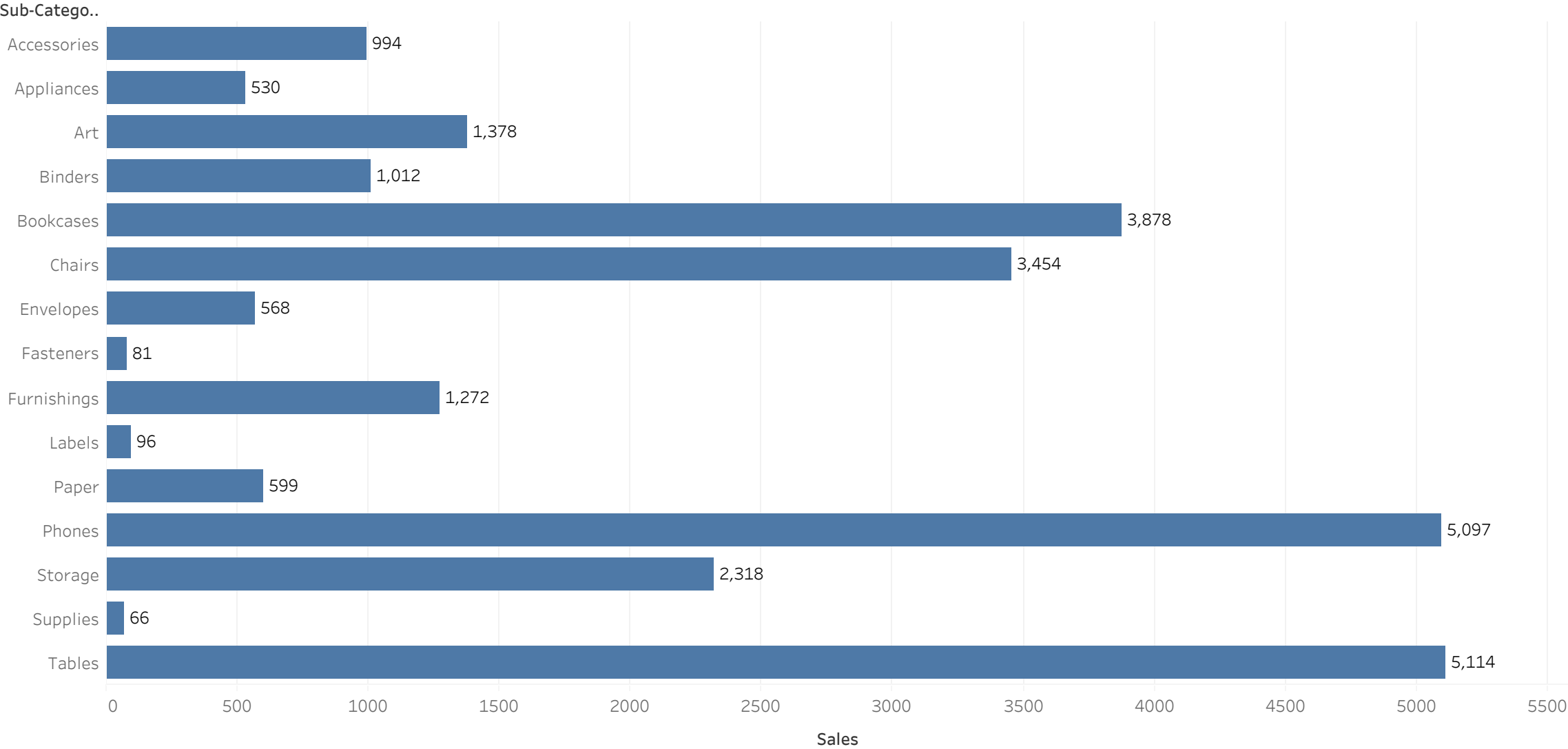
Visualization-3 : Heat Map

Region

Sub-Catego..	Central	East	South	West

Sum of Profit (color) and sum of Sales (size) broken down by Region vs. Sub-Category.
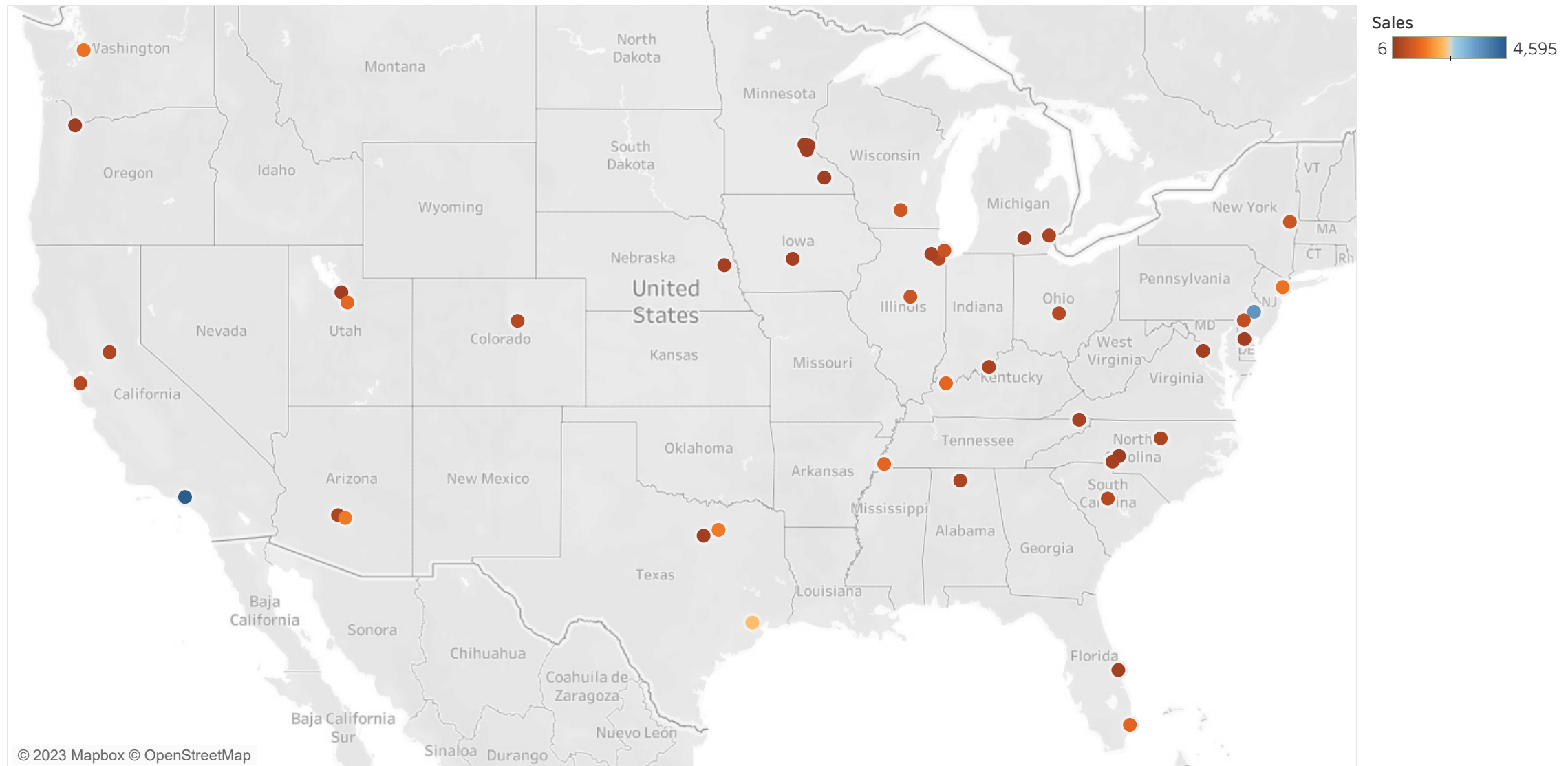
Visualization-4 : Pie Chart

Sales

26,457

Region

- Central
- East
- South
- West

25.38%

35.36%

23.56%

15.70%

Region (color) and sum of Sales (size).

Visualization-5 : Horizontal bar graph

Sub-Catego..

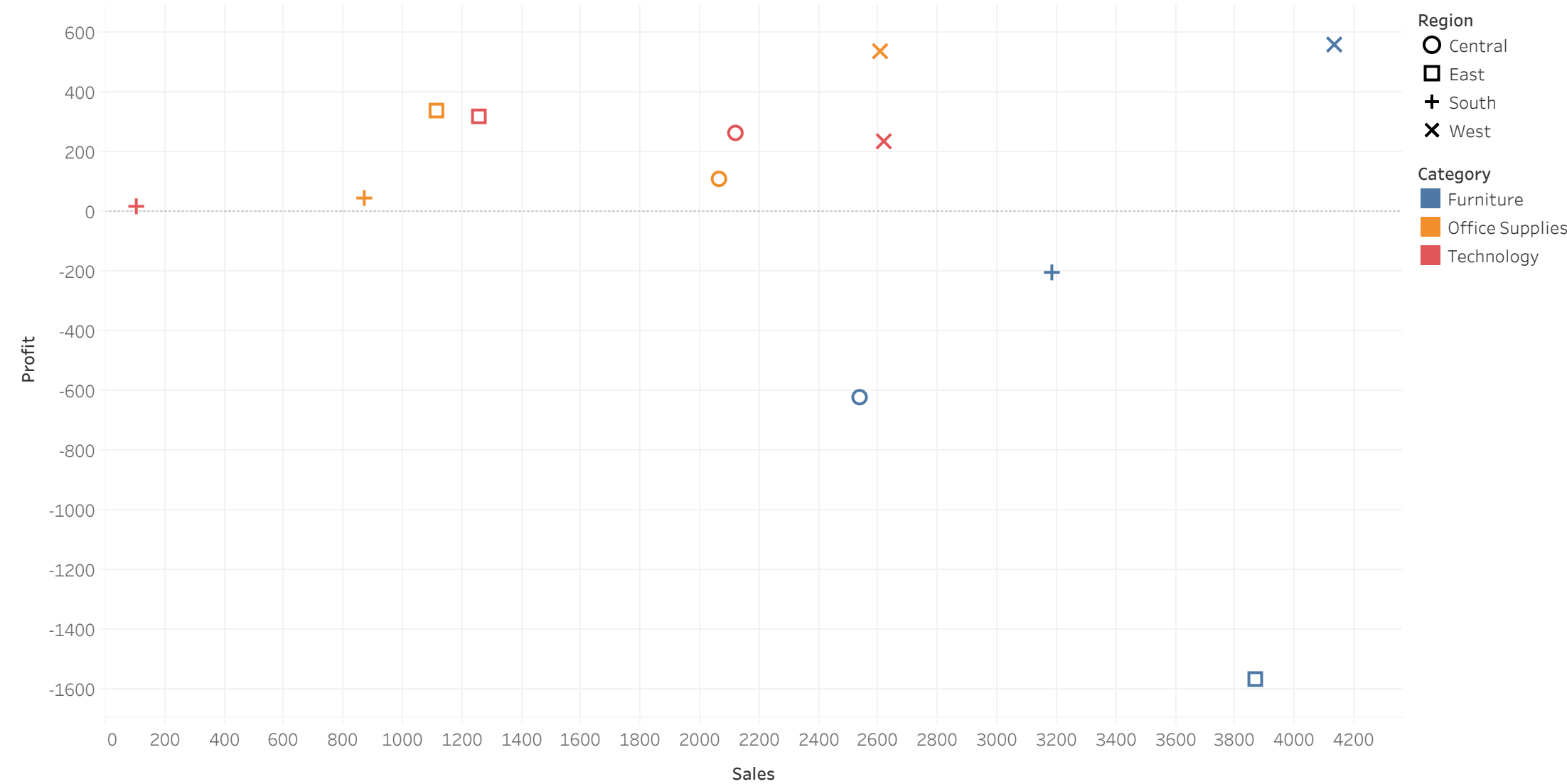| Sub-Category	Sales
Accessories	994
Appliances	530
Art	1,378
Binders	1,012
Bookcases	3,878
Chairs	3,454
Envelopes	568
Fasteners	81
Furnishings	1,272
Labels	96
Paper	599
Phones	5,097
Storage	2,318
Supplies	66
Tables	5,114

Sales

Sum of Sales for each Sub-Category.

Visualization-6

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

Visualization-7

Sum of Sales vs. sum of Profit. Color shows details about Category. Shape shows details about Region. Details are shown for Region.

q.2) Context Filter

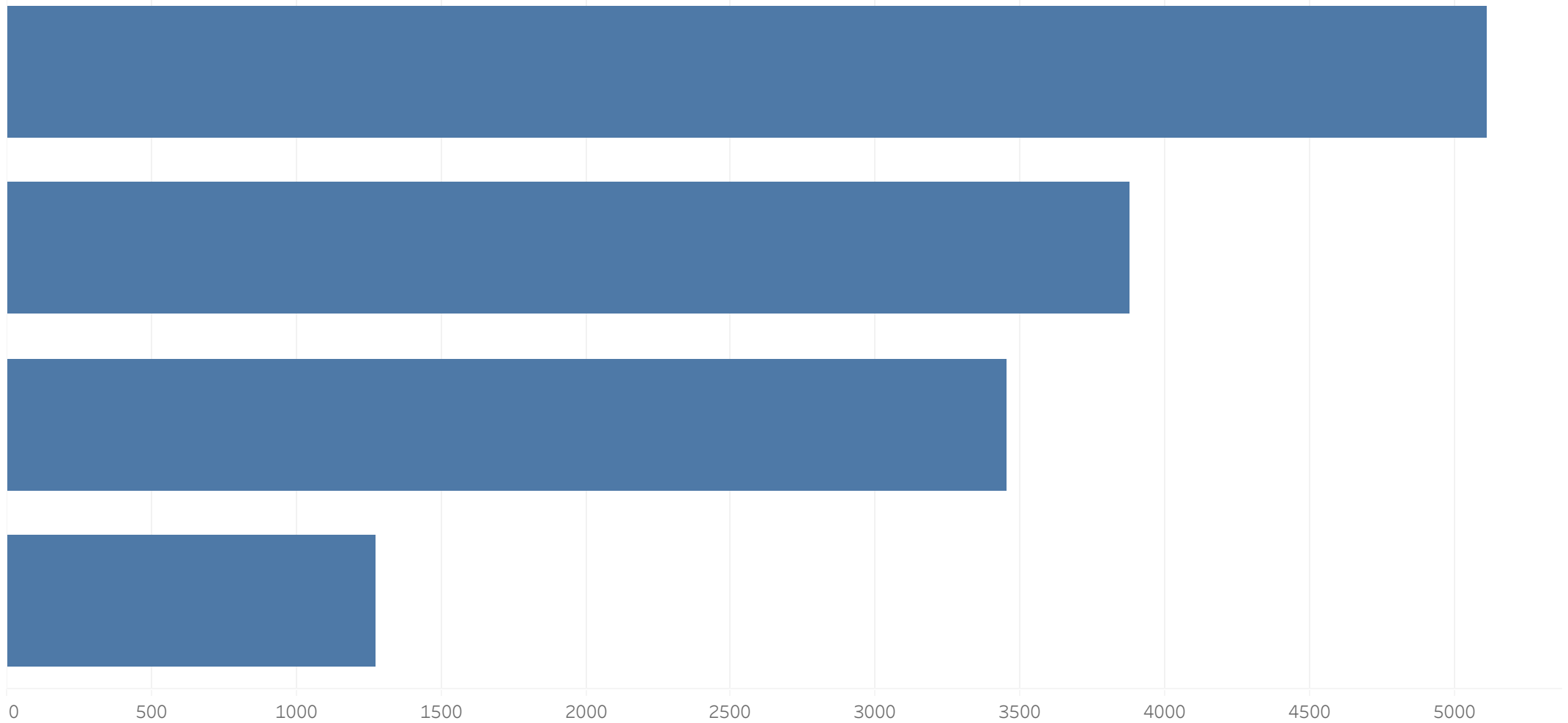Sum of Sales for each Sub-Category. The context is filtered on Category, which keeps Furniture. The view is filtered on Sub-Category, which keeps Bookcases, Chairs, Furnishings and Tables.
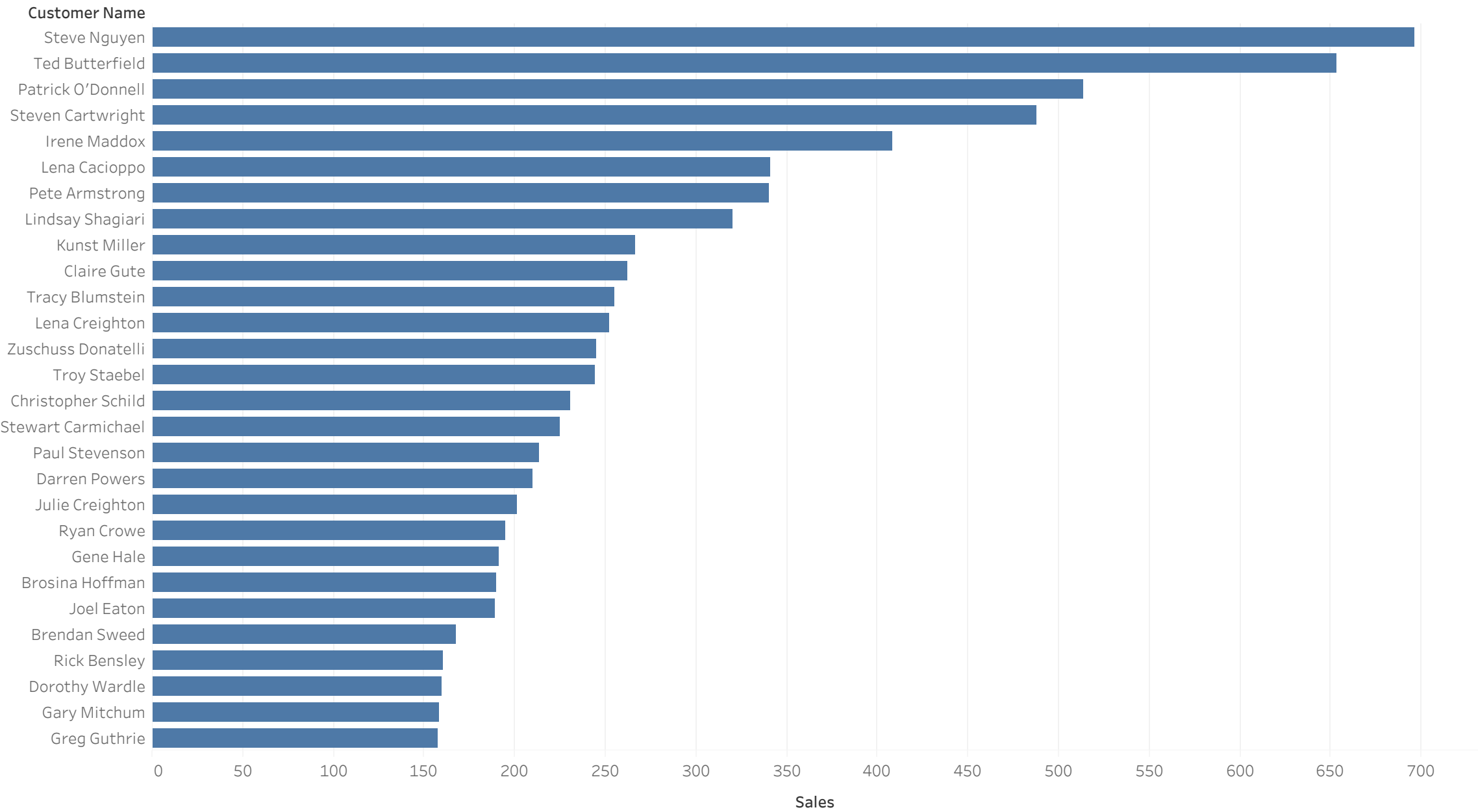
q.2) Dimension Filter

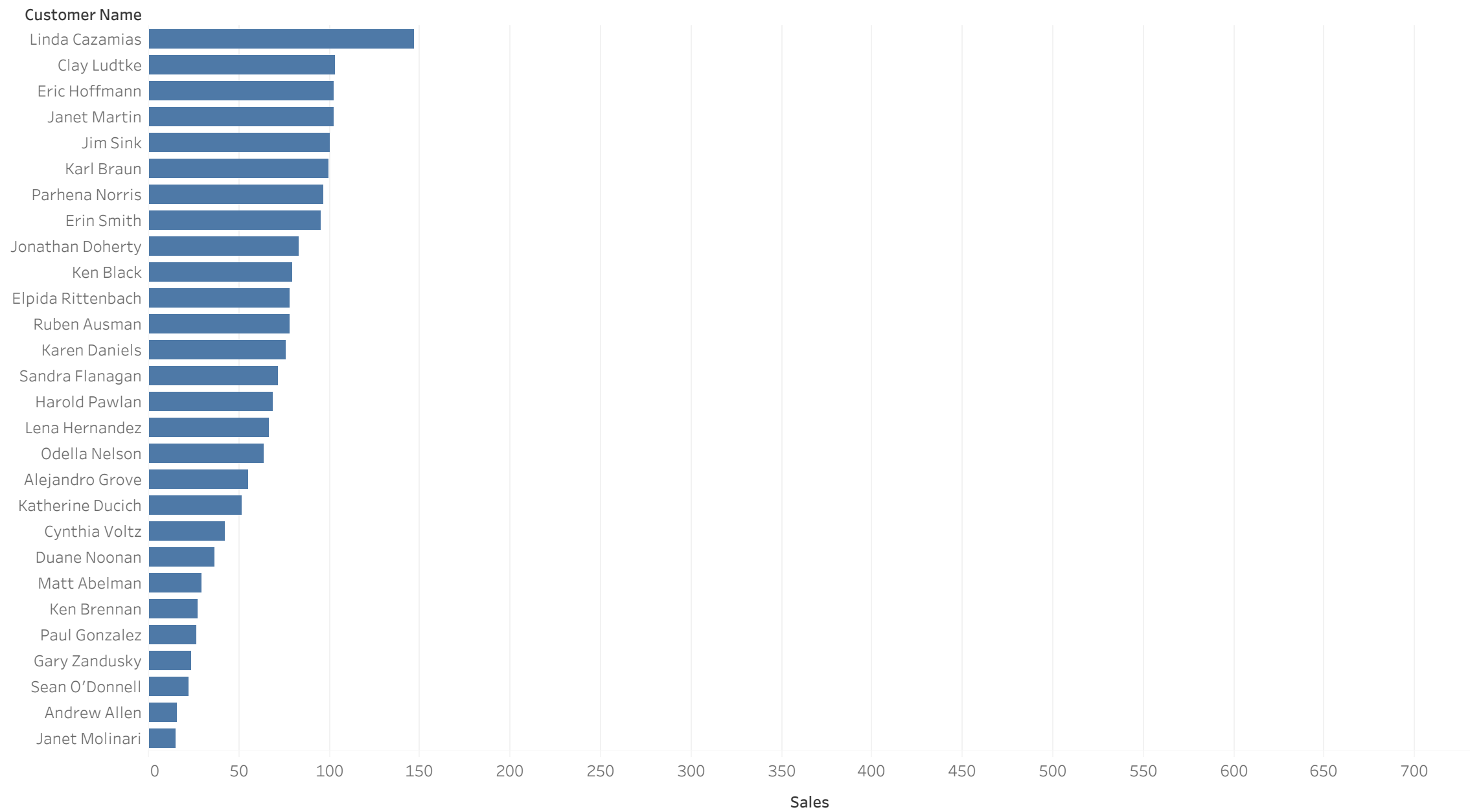| Customer Name	
Alan Dominguez	Texas
Alejandro Grove	Utah
Andrew Allen	North Carolina
Brendan Sweed	Arizona
Brosina Hoffman	California
Claire Gute	Kentucky
Cynthia Voltz	New York
Darren Powers	Indiana

State broken down by Customer Name. The view is filtered on Customer Name, which keeps 8 members.
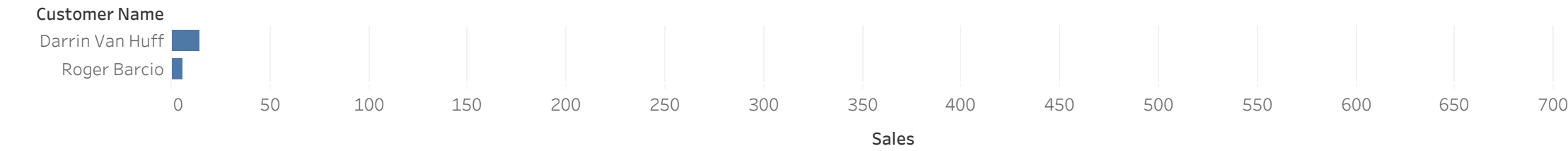
q.2) Measure Filter

Customer Name

Sum of Sales for each Customer Name. The data is filtered on Sales, which ranges from 5 to 500.

q.2) Measure Filter

Customer Name

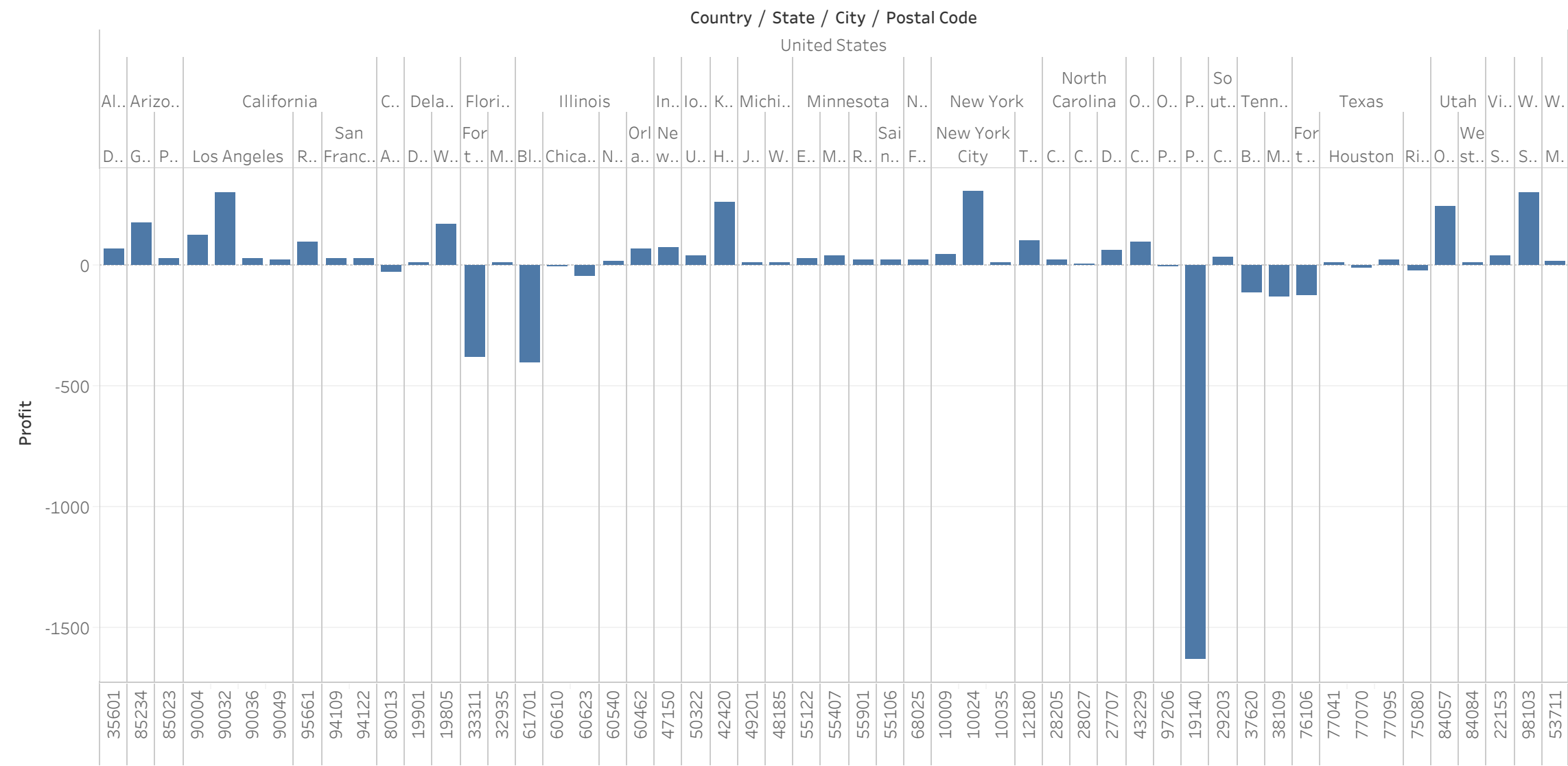| Customer Name	Sales
Linda Cazamias	
Clay Ludtke	
Eric Hoffmann	
Janet Martin	
Jim Sink	
Karl Braun	
Parhena Norris	
Erin Smith	
Jonathan Doherty	
Ken Black	
Elpida Rittenbach	
Ruben Ausman	
Karen Daniels	
Sandra Flanagan	
Harold Pawlan	
Lena Hernandez	
Odella Nelson	
Alejandro Grove	
Katherine Ducich	
Cynthia Voltz	
Duane Noonan	
Matt Abelman	
Ken Brennan	
Paul Gonzalez	
Gary Zandusky	
Sean O'Donnell	
Andrew Allen	
Janet Molinari	

Sales

Sum of Sales for each Customer Name. The data is filtered on Sales, which ranges from 5 to 500.

q.2) Measure Filter
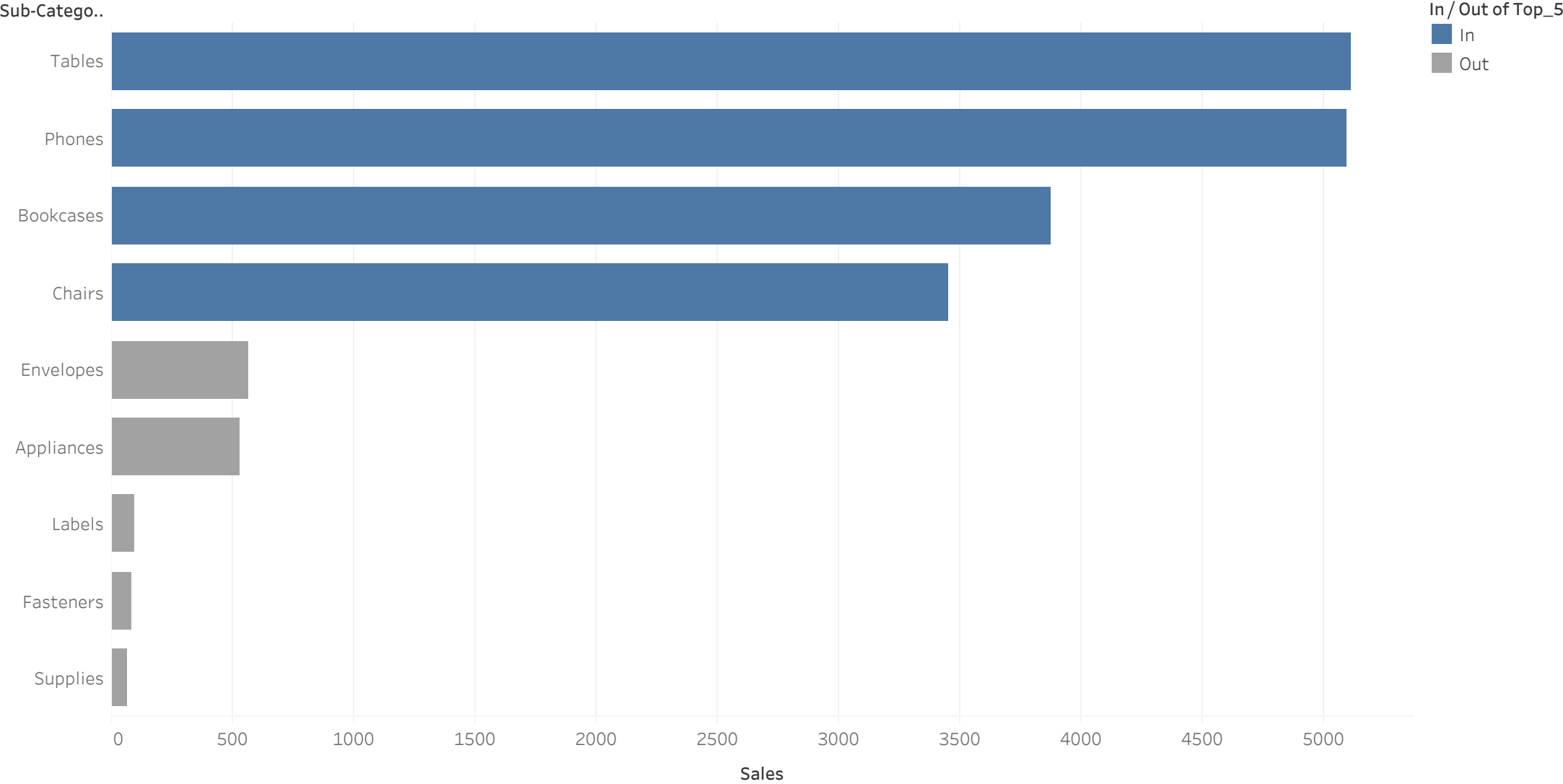
Customer Name

Darrin Van Huff

Roger Barcio

Sales

Sum of Sales for each Customer Name. The data is filtered on Sales, which ranges from 5 to 500.
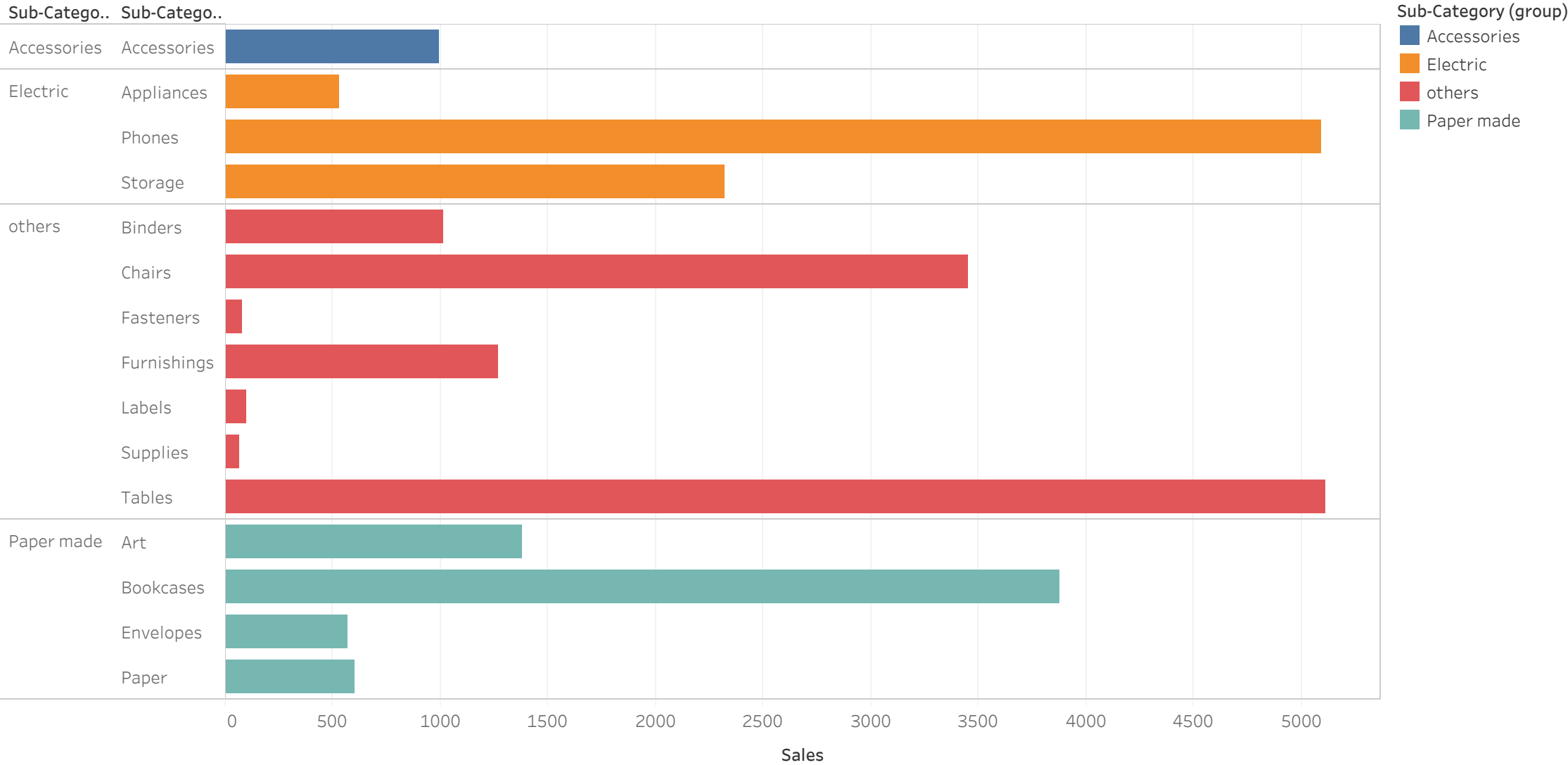
q.3) i. **Create a Hierarchy**

Country / State / City / Postal Code

Sum of Profit for each Postal Code broken down by Country, State and City.

q.3) ii. **Create a set**

Sub-Catego..

In / Out of Top_5
- In (blue)
- Out (grey)

Sub-Category	Sales (approx)
Tables	~5100
Phones	~5100
Bookcases	~3850
Chairs	~3450
Envelopes	~570
Appliances	~530
Labels	~70
Fasteners	~60
Supplies	~40

Sales

Sum of Sales for each Sub-Category. Color shows details about In / Out of Top_5. The data is filtered on combined_top_bottom, which keeps 9 members.

q.3) iii. **create a group**

Sum of Sales for each Sub-Category broken down by Sub-Category (group). Color shows details about Sub-Category (group).