Assignment - 2
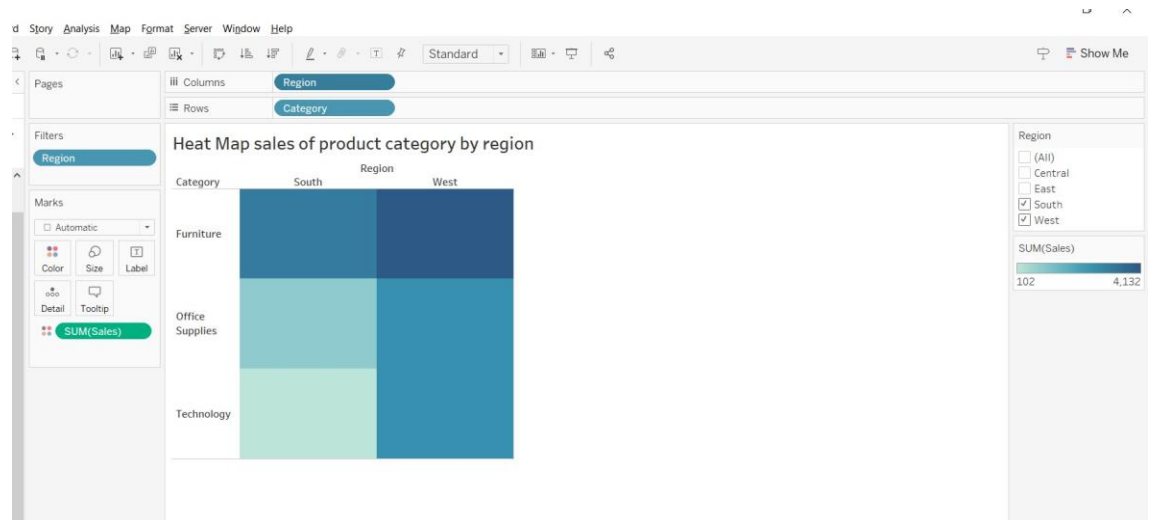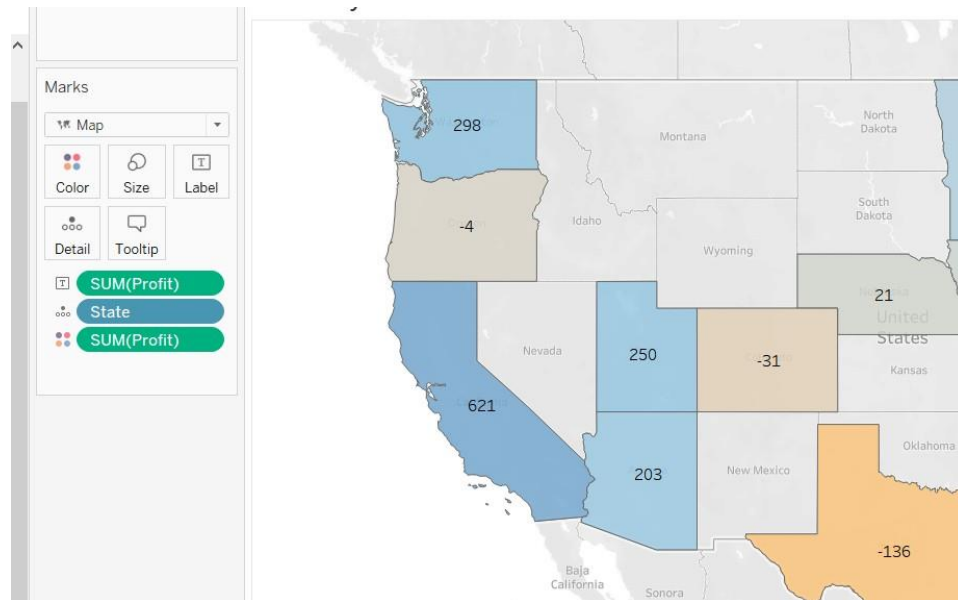
By Ananya Agrawal
Roll No: 20BCE10619
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1) Create any 7 data visualizations/charts and perform the following (attached below)
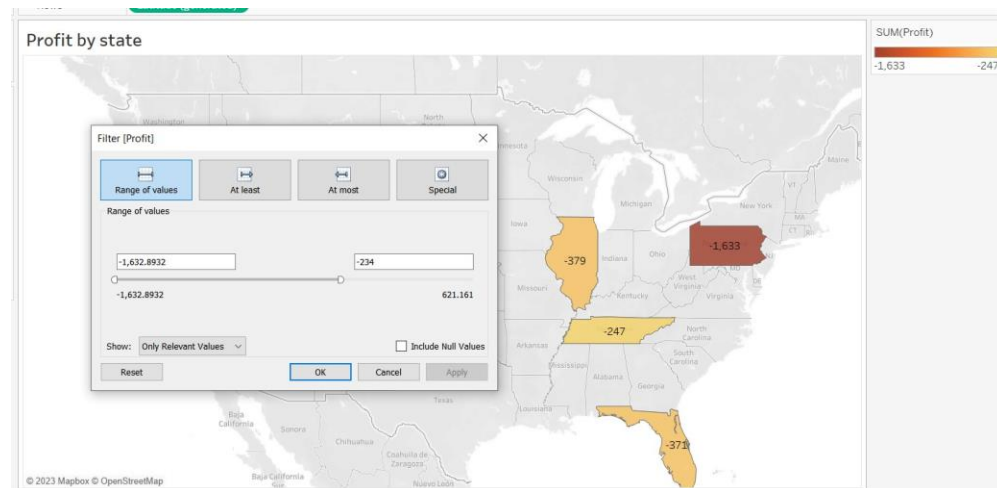2) Apply dimension filter, context and measure filter on any of the three visualizations

   a) filtering

b) Dimensions

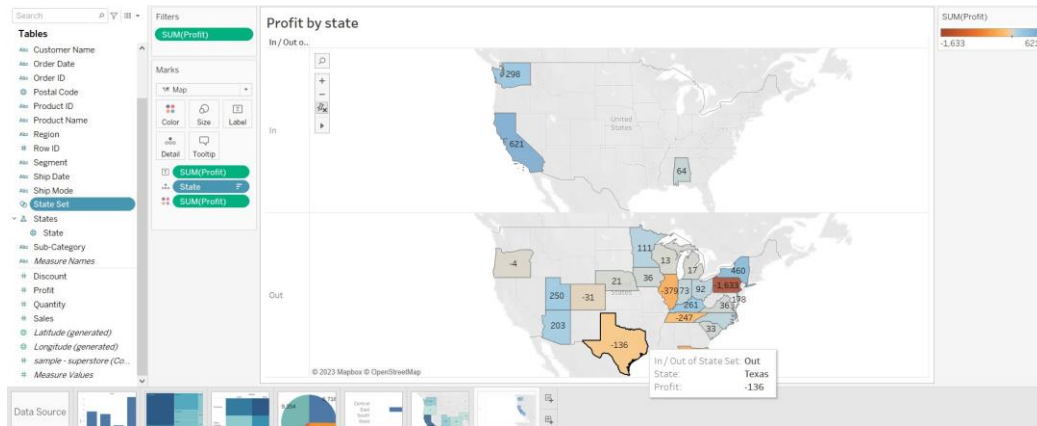c) Measure

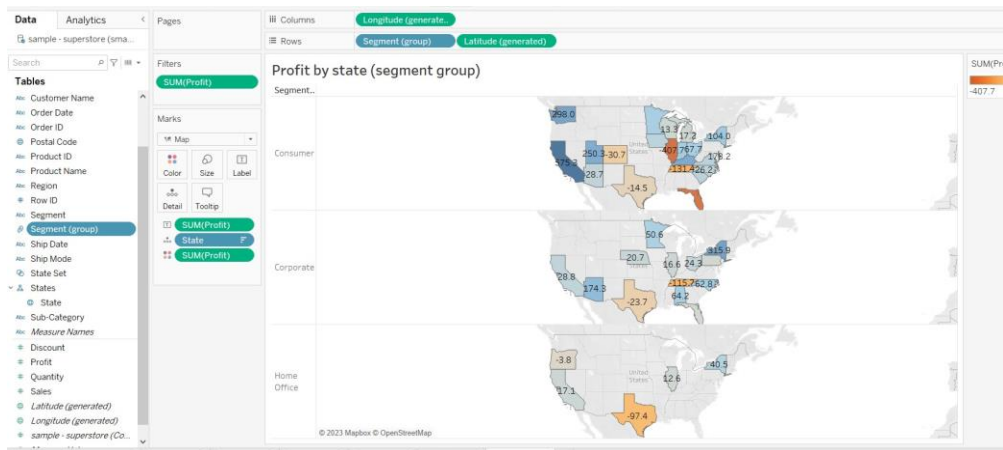
3)Perform the following data manipulations on your dataset

● create a Hierarchy

● create a set

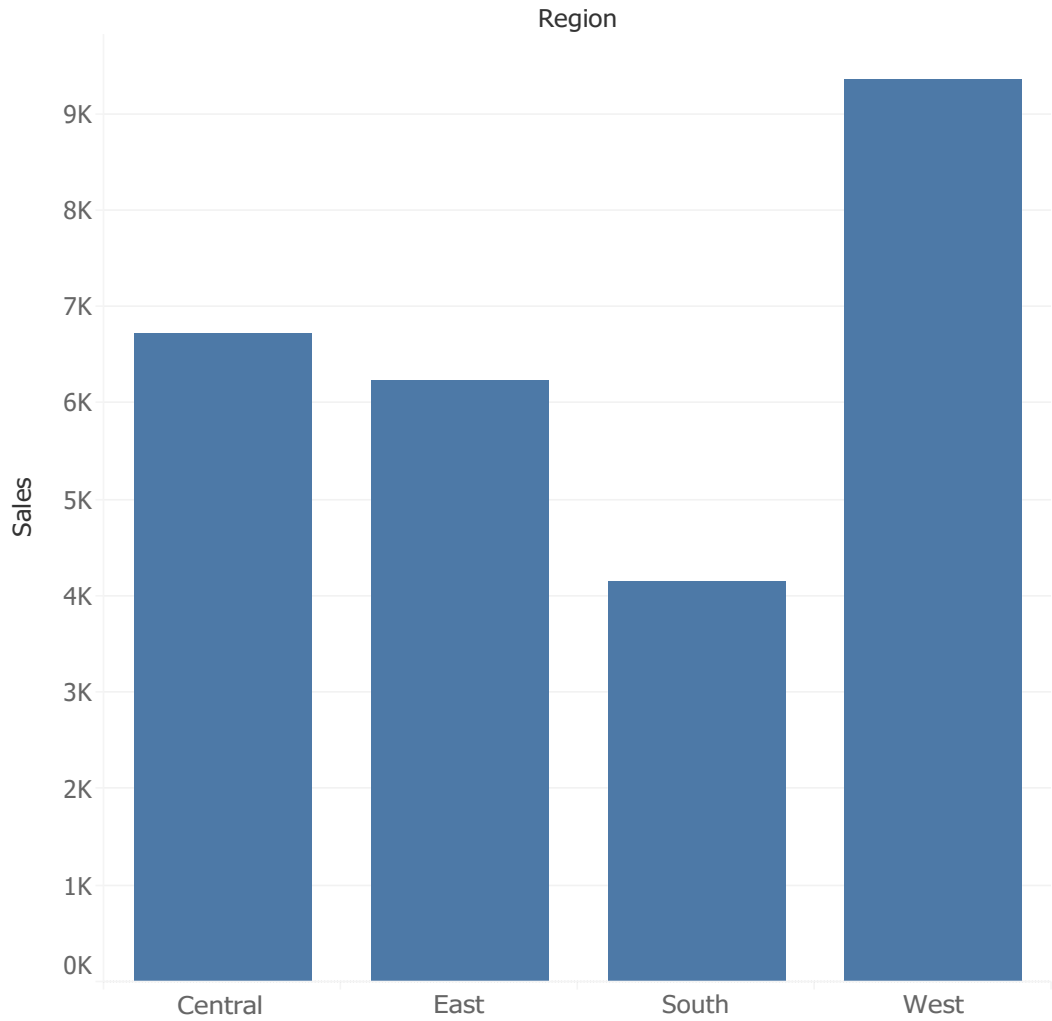
● create a group

7 visualizations:

Bar Chart (Sales by region)

Region

Sum of Sales for each Region.

Treemap Sales by city

Los Angeles	Houston	Orem	Memphis	Henderson	Fort Lauderdale
Philadelphia	Richardson				
	Gilbert	Madison		Aurora	Orland Park
		Troy	San Francisco		New
	Seattle	Bloomington	Columbia		
	New York City	Chicago	Roseville		
			Phoenix		
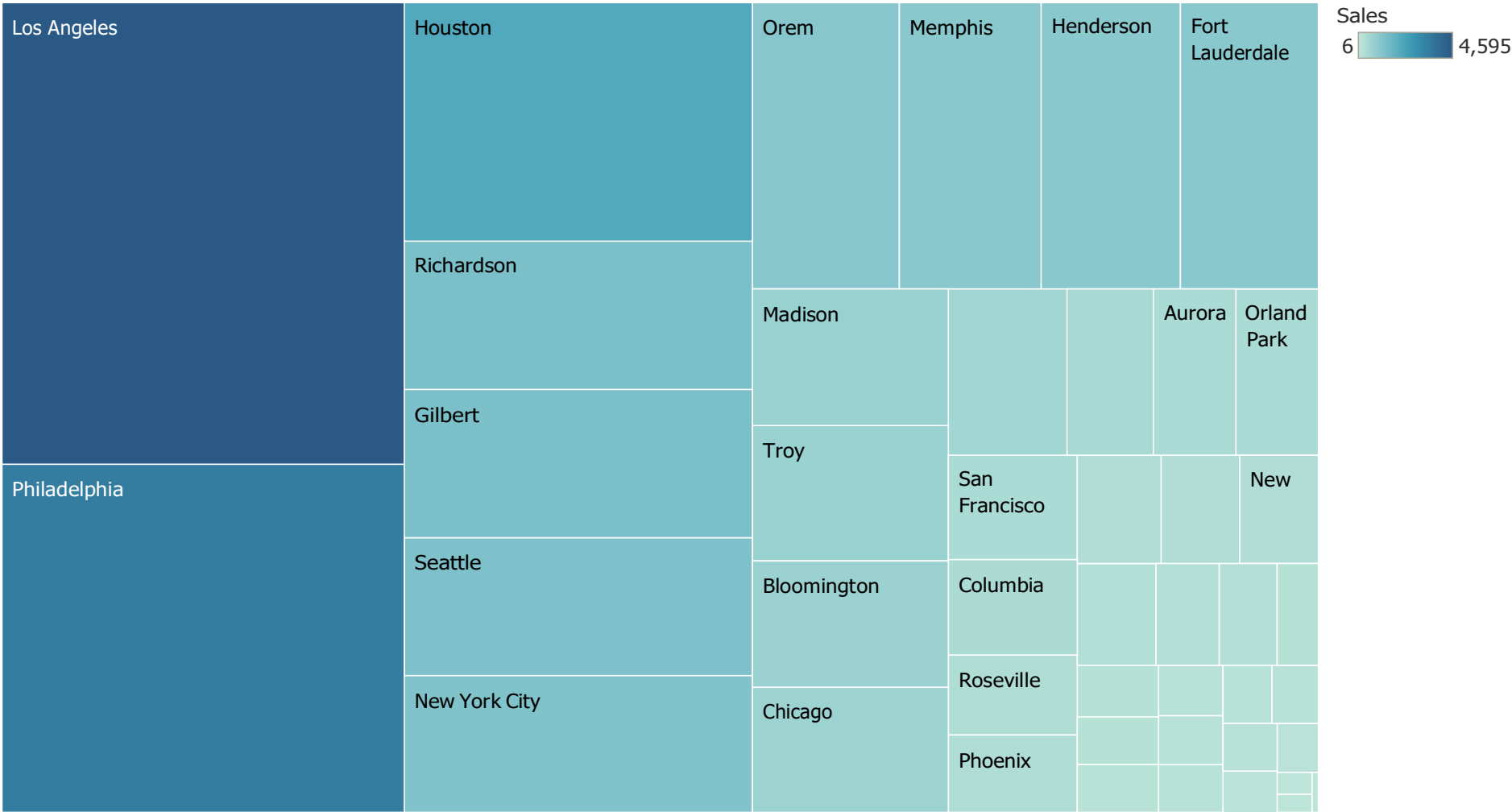
Sales
6 ▭ 4,595

City. Color shows sum of Sales. Size shows sum of Sales. The marks are labeled by City.

Heat Map sales of product category by region

Region

Category	Central	East	South	West
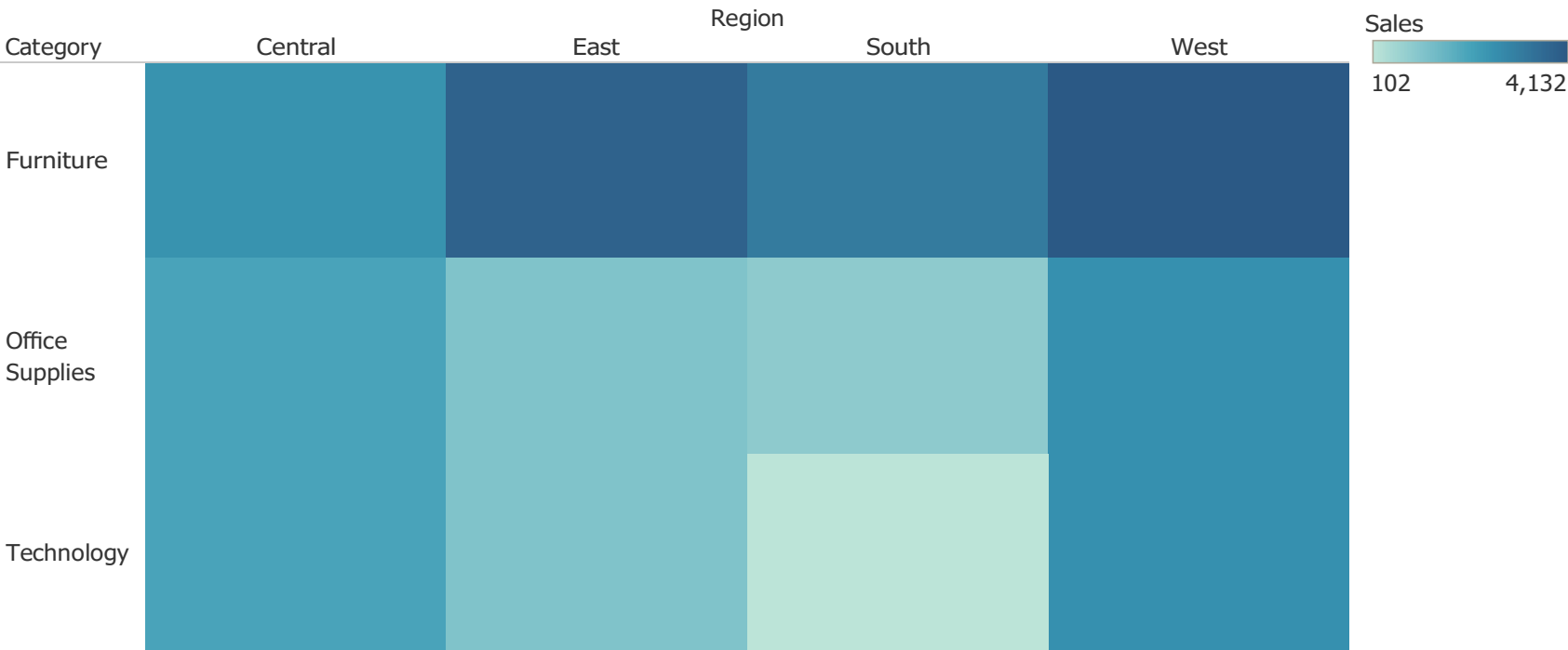
Sum of Sales (color) broken down by Region vs. Category.

Sales

102   4,132

Pie Chart for sale share by region
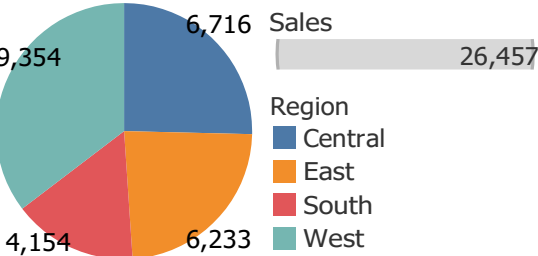
Region (color) and sum of Sales (size).

Sales

26,457

Region
- Central
- East
- South
- West

6,716

9,354

4,154

6,233

Horizontal Bar chart profit by region

Sum of Profit for each Region.

Sales by state
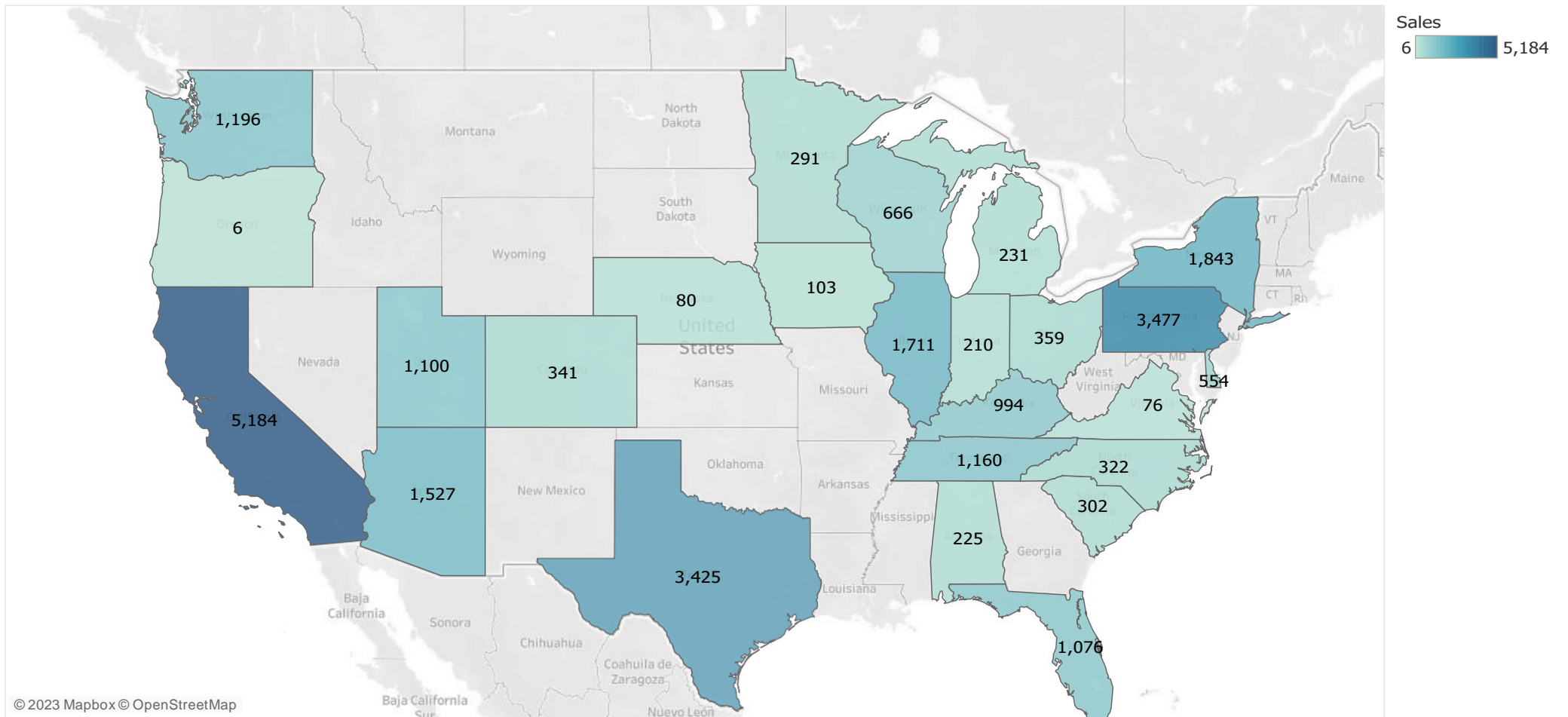
Sales
6 — 5,184
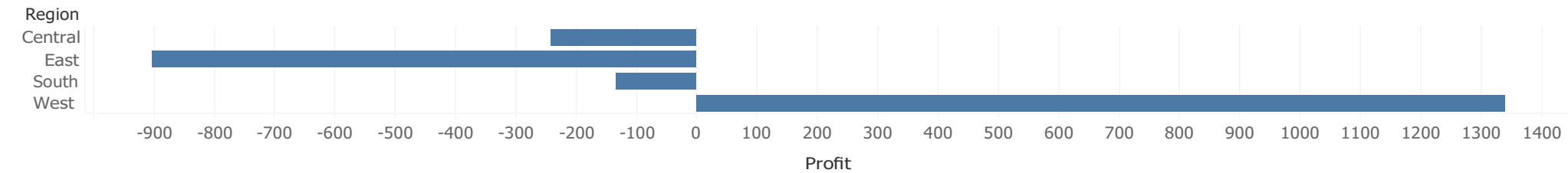
Label	Value
Washington	1,196
Oregon	6
California	5,184
Arizona	1,527
Utah	1,100
Colorado	341
Texas	3,425
Minnesota	291
Wisconsin	666
Nebraska	80
Iowa	103
Michigan	231
Illinois	1,711
Indiana	210
Ohio	359
New York	1,843
Pennsylvania	3,477
Kentucky	994
Virginia	554
Tennessee	1,160
North Carolina	322
South Carolina	302
Alabama	225
Florida	1,076
76	76

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

Profit by state

Profit
-1,633 ⟶ 621

298
111
13
17
460
-4
36
-1,633
21
-379
73
92
250
-31
178
261
36
621
203
-247
89
33
-136
64
© 2023 Mapbox © OpenStreetMap
-371
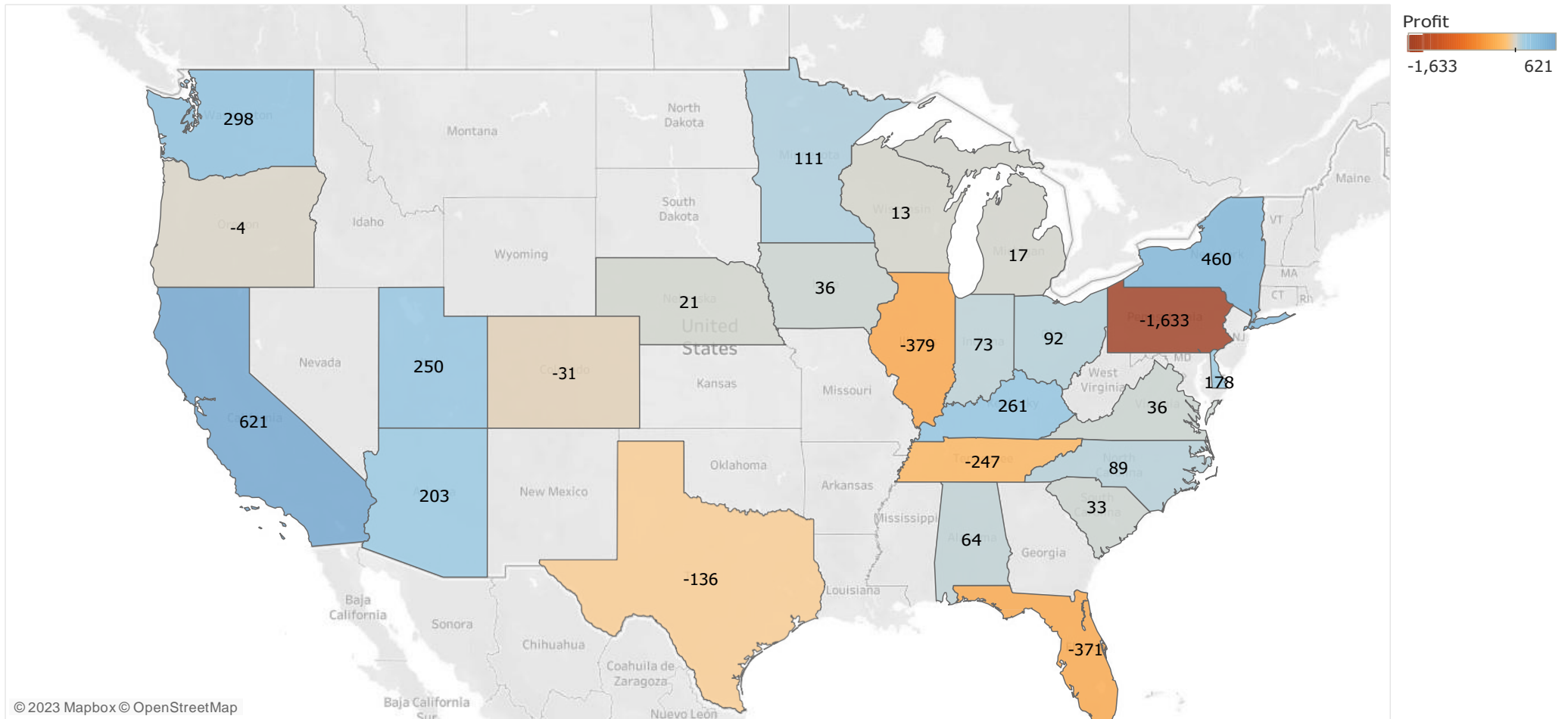
Map based on Longitude (generated) and Latitude (generated). Color shows sum of Profit. The marks are labeled by sum of Profit. Details are shown for State.