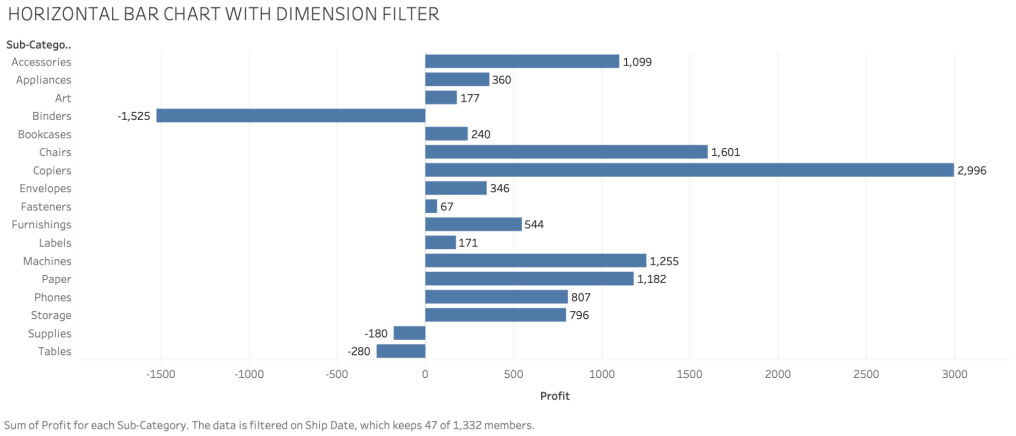
Name :- Ayush Jerath

Registration Number :- 20BCE10987

ASSIGNMENT - 2

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
    a. Dimension Filter



DIMENSION FILTER

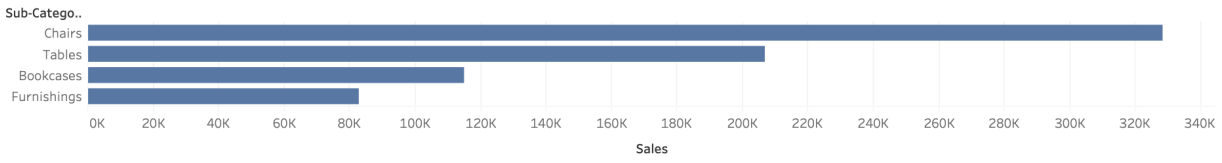
Customer Name	
Aaron Hawkins	4/22/2014
Adam Bellavance	9/1/2016
Alan Haines	8/24/2017
Allen Armold	11/14/2016
Amy Cox	9/22/2016
Ann Chong	9/2/2017
Art Foster	11/10/2016
Arthur Wiediger	8/31/2017
Barry Franz	11/21/2017
Barry Französisch	7/7/2016
Beth Thompson	9/6/2015
Bruce Stewart	9/23/2017 12/29/2017
Carol Triggs	5/7/2014
Cathy Armstrong	8/8/2016
Charles McCrossin	10/21/2017
Chris Selesnick	2/7/2014
Christina VanderZanden	3/25/2017
Christine Abelman	7/19/2014
Christy Brittain	2/24/2017 5/3/2016
Chuck Clark	11/10/2016
Clytie Kelty	7/11/2015
Craig Carreira	12/23/2014
Craig Molinari	9/26/2014
Damala Kotsonis	4/24/2017
Dan Campbell	9/18/2017
Dario Medina	12/9/2014
Darren Budd	11/12/2014
Darrin Sayre	1/21/2017
Dave Poirier	9/23/2016
Duane Huffman	8/12/2014
Ed Ludwig	10/14/2017
Edward Hooks	6/2/2016
Emily Ducich	8/17/2017
Erica Hackney	9/25/2015
Erin Mull	8/13/2016
Frank Gastineau	9/19/2017
Fred Harton	8/23/2015
Helen Andreada	9/11/2017
Janet Lee	9/2/2017
John Dryer	9/4/2017
Karl Braun	2/14/2015
Keith Dawkins	1/24/2017
Ken Black	12/9/2016
Ken Heidel	9/18/2015
Kimberly Carter	12/13/2014
Kunst Miller	11/24/2015
Lauren Leatherbury	8/12/2014
Lena Hernandez	9/13/2014
Luke Weiss	5/17/2016
Lynn Smith	11/26/2014
Marc Harrigan	9/2/2017
Maribeth Schnelling	11/7/2014
Matt Abelman	8/8/2014
Maxwell Schwartz	8/23/2016
Michael Paige	10/2/2015
Mick Hernandez	4/30/2017
Mitch Webber	7/5/2015
Nat Carroll	11/24/2016
Natalie DeCherney	3/19/2017
Nick Crebassa	12/9/2017
Noel Staavos	8/7/2015 12/11/2016
Parhena Norris	9/10/2016
Penelope Sewall	6/13/2015
Pete Kriz	9/4/2017 12/14/2016
Phillina Ober	11/29/2015
Phillip Flathmann	12/29/2016
Raymond Buch	3/23/2017
Richard Eichhorn	7/14/2016
Rob Williams	3/5/2016
Roger Demir	12/3/2016
Roland Schwarz	3/2/2017
Rose O'Brian	11/10/2016
Ross DeVincentis	9/2/2016
Roy Phan	9/28/2015
Sam Craven	11/10/2014
Sarah Jordon	8/16/2017
Shahid Hopkins	11/3/2014
Shahid Shariari	9/7/2014
Sibella Parks	2/6/2017

Customer Name	
Sonia Sunley	9/2/2016
Stefania Perrino	12/30/2014
Steven Ward	7/14/2016
Sue Ann Reed	6/26/2015
Tamara Chand	10/2/2016
Theone Pippenger	4/14/2015 9/20/2015
Thomas Thornton	8/8/2015
Tim Brockman	12/8/2014
Toby Carlisle	7/14/2017
Toby Swindell	3/10/2015 9/8/2014
Todd Boyes	5/18/2017
Tom Boeckenhauer	4/14/2016
Trudy Brown	5/25/2017 5/28/2015

Order Date broken down by Customer Name. The data is filtered on Product Name, which keeps 17 of 1,798 members.

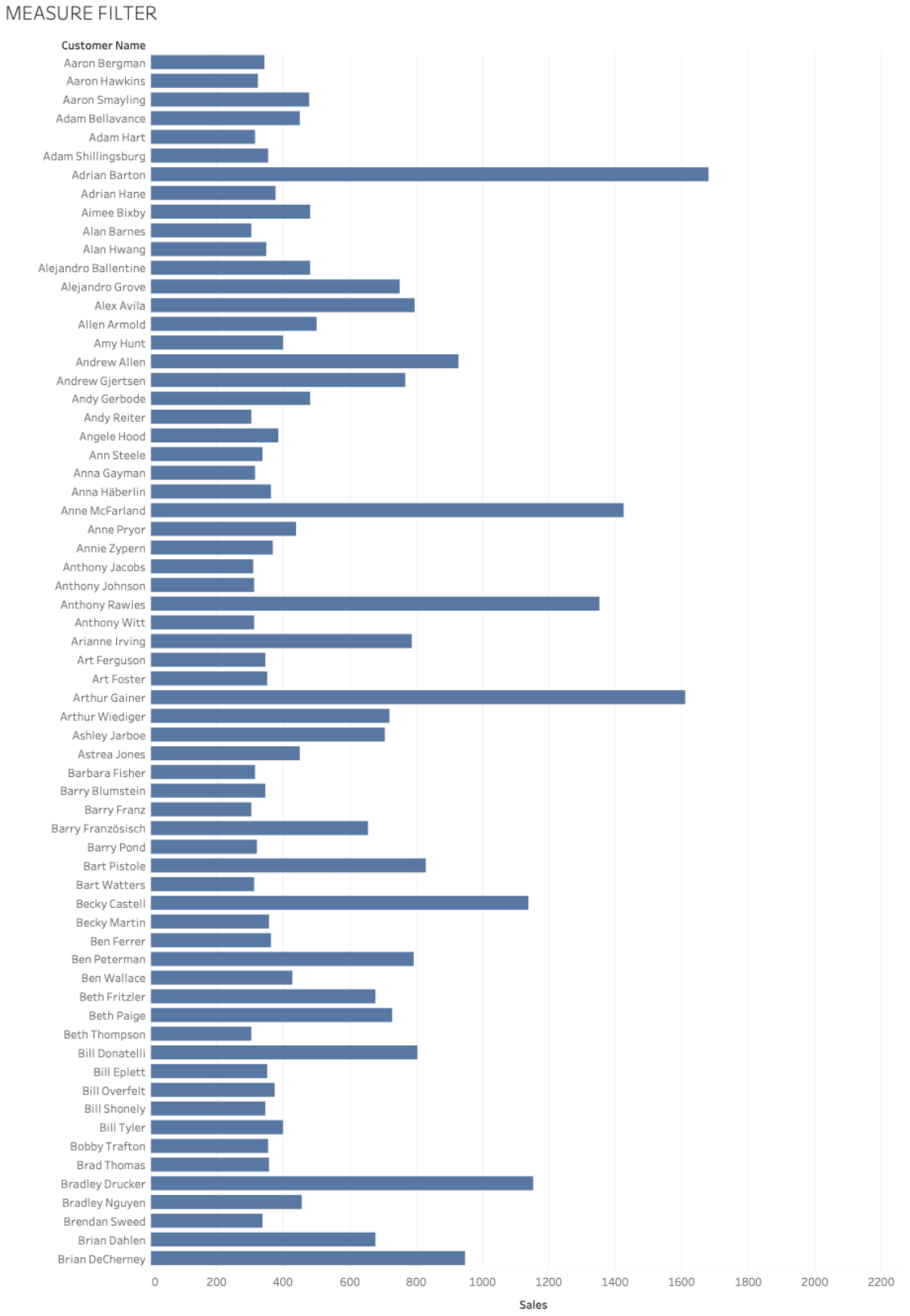
b. Context Filter

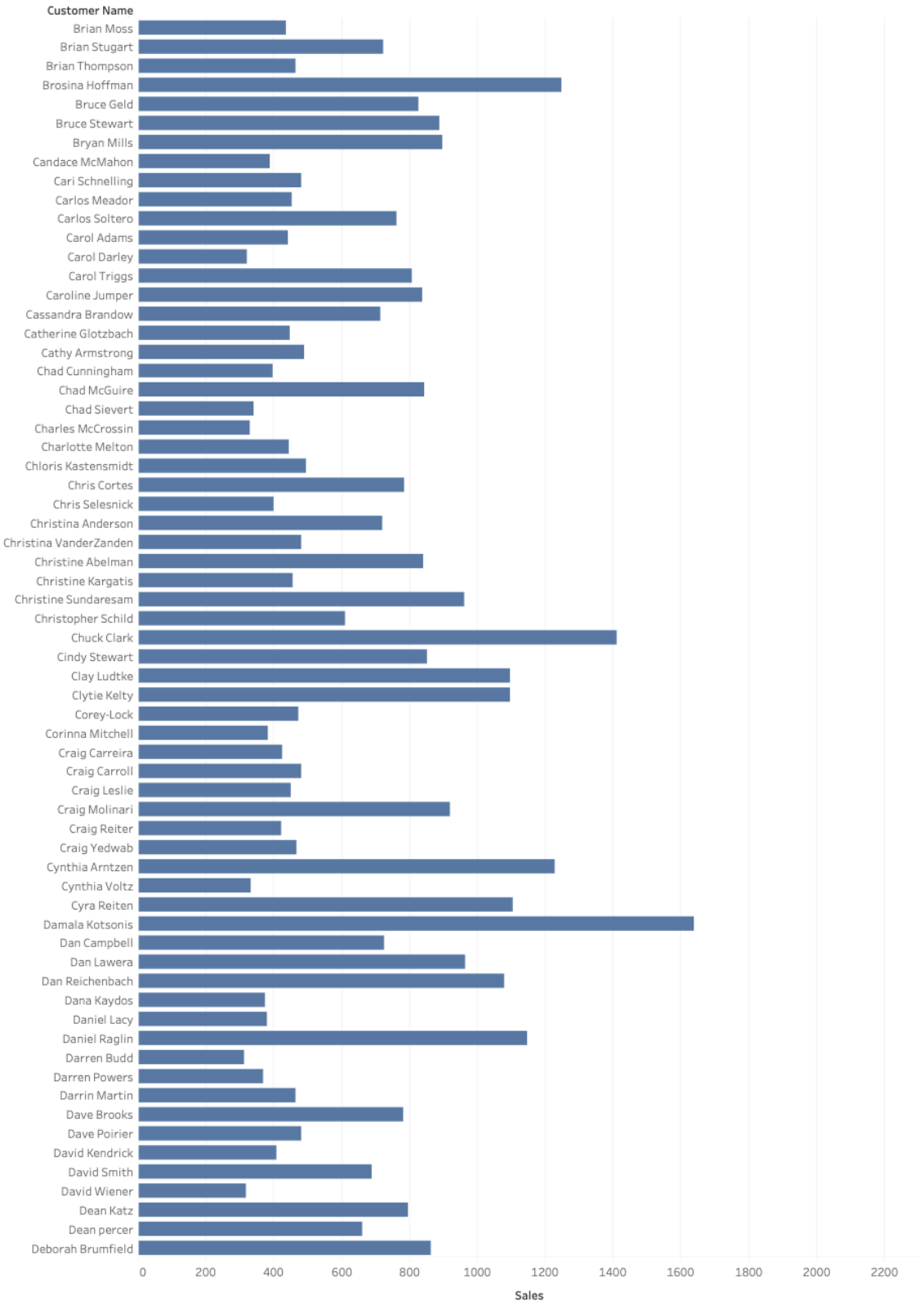
CONTEXT FILTER

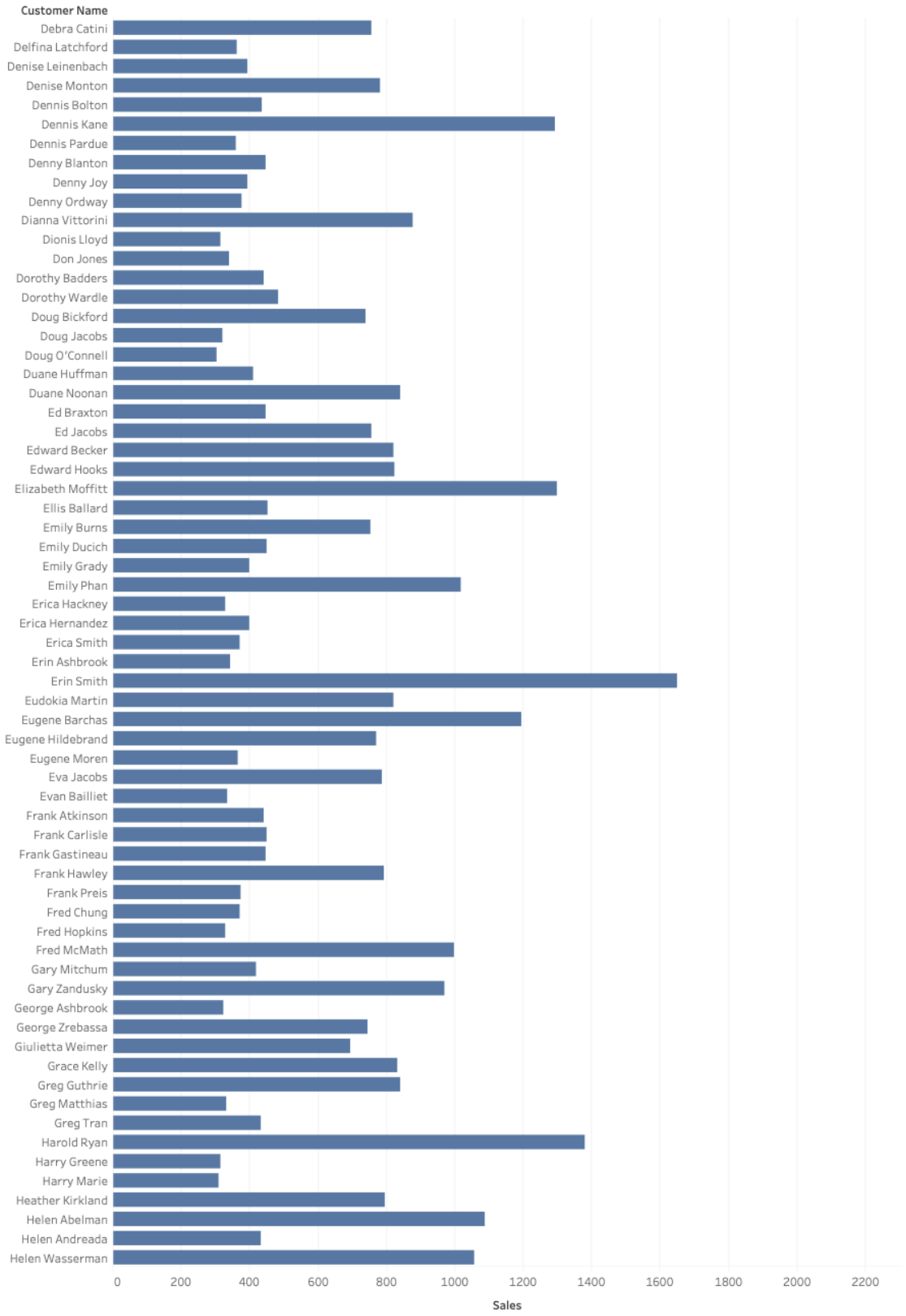


Sum of Sales for each Sub-Category. The context is filtered on Category, which keeps Furniture. The view is filtered on Sub-Category, which keeps Bookcases, Chairs, Furnishings and Tables.

c. Measure Filter




Customer Name
Brian Moss
Brian Stugart
Brian Thompson
Brosina Hoffman
Bruce Geld
Bruce Stewart
Bryan Mills
Candace McMahon
Cari Schnelling
Carlos Meador
Carlos Soltero
Carol Adams
Carol Darley
Carol Triggs
Caroline Jumper
Cassandra Brandow
Catherine Glotzbach
Cathy Armstrong
Chad Cunningham
Chad McGuire
Chad Sievert
Charles McCrossin
Charlotte Melton
Chloris Kastensmidt
Chris Cortes
Chris Selesnick
Christina Anderson
Christina VanderZanden
Christine Abelman
Christine Kargatis
Christine Sundaresam
Christopher Schild
Chuck Clark
Cindy Stewart
Clay Ludtke
Clytie Kelty
Corey-Lock
Corinna Mitchell
Craig Carreira
Craig Carroll
Craig Leslie
Craig Molinari
Craig Reiter
Craig Yedwab
Cynthia Arntzen
Cynthia Voltz
Cyra Reiten
Damala Kotsonis
Dan Campbell
Dan Lawera
Dan Reichenbach
Dana Kaydos
Daniel Lacy
Daniel Raglin
Darren Budd
Darren Powers
Darrin Martin
Dave Brooks
Dave Poirier
David Kendrick
David Smith
David Wiener
Dean Katz
Dean percer
Deborah Brumfield
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
Sales


Customer Name
Debra Catini
Delfina Latchford
Denise Leinenbach
Denise Monton
Dennis Bolton
Dennis Kane
Dennis Pardue
Denny Blanton
Denny Joy
Denny Ordway
Dianna Vittorini
Dionis Lloyd
Don Jones
Dorothy Badders
Dorothy Wardle
Doug Bickford
Doug Jacobs
Doug O'Connell
Duane Huffman
Duane Noonan
Ed Braxton
Ed Jacobs
Edward Becker
Edward Hooks
Elizabeth Moffitt
Ellis Ballard
Emily Burns
Emily Ducich
Emily Grady
Emily Phan
Erica Hackney
Erica Hernandez
Erica Smith
Erin Ashbrook
Erin Smith
Eudokia Martin
Eugene Barchas
Eugene Hildebrand
Eugene Moren
Eva Jacobs
Evan Bailliet
Frank Atkinson
Frank Carlisle
Frank Gastineau
Frank Hawley
Frank Preis
Fred Chung
Fred Hopkins
Fred McMath
Gary Mitchum
Gary Zandusky
George Ashbrook
George Zrebassa
Giulietta Weimer
Grace Kelly
Greg Guthrie
Greg Matthias
Greg Tran
Harold Ryan
Harry Greene
Harry Marie
Heather Kirkland
Helen Abelman
Helen Andreada
Helen Wasserman
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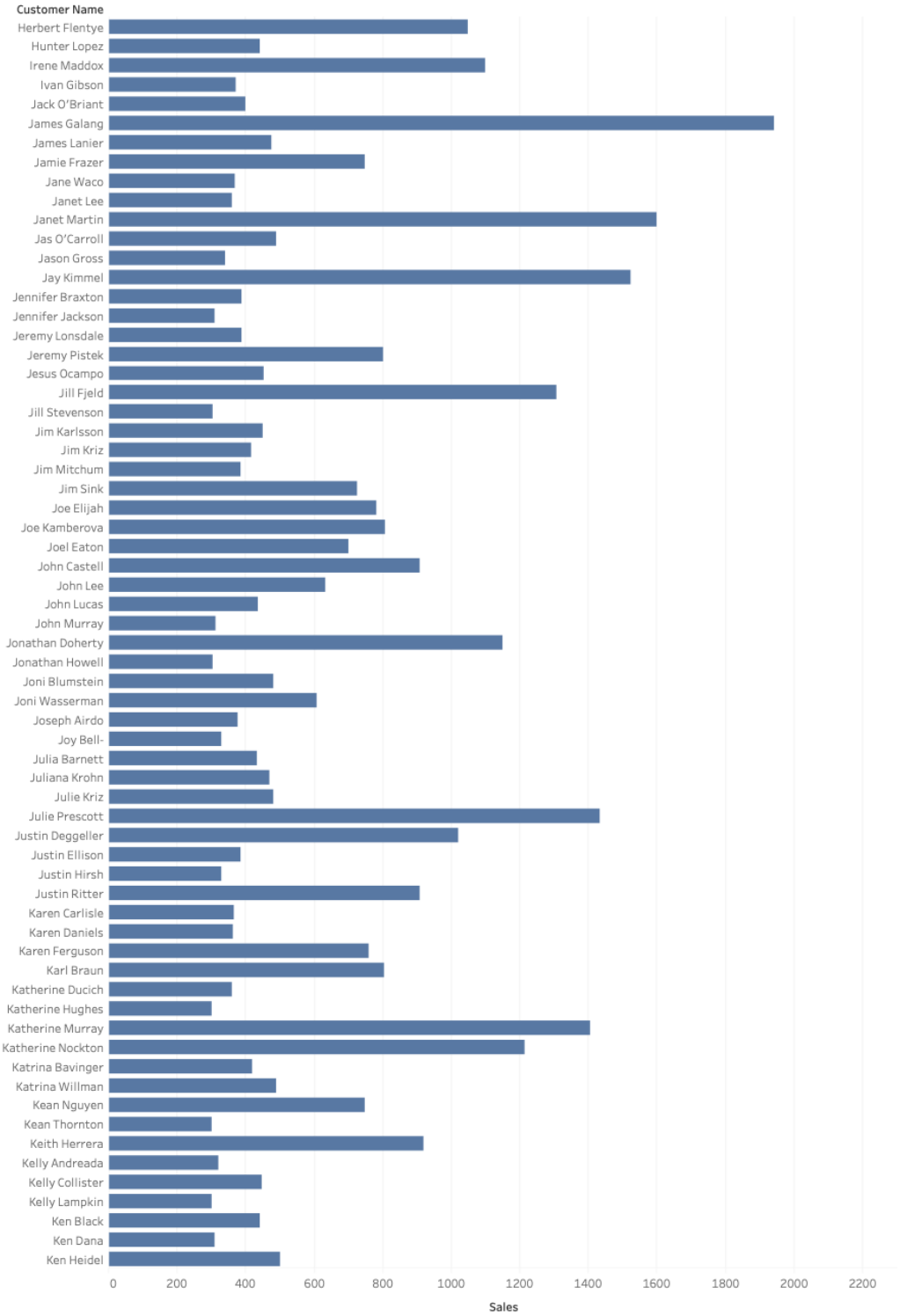
2200
Sales


Customer Name
Herbert Flentye
Hunter Lopez
Irene Maddox
Ivan Gibson
Jack O'Briant
James Galang
James Lanier
Jamie Frazer
Jane Waco
Janet Lee
Janet Martin
Jas O'Carroll
Jason Gross
Jay Kimmel
Jennifer Braxton
Jennifer Jackson
Jeremy Lonsdale
Jeremy Pistek
Jesus Ocampo
Jill Fjeld
Jill Stevenson
Jim Karlsson
Jim Kriz
Jim Mitchum
Jim Sink
Joe Elijah
Joe Kamberova
Joel Eaton
John Castell
John Lee
John Lucas
John Murray
Jonathan Doherty
Jonathan Howell
Joni Blumstein
Joni Wasserman
Joseph Airdo
Joy Bell-
Julia Barnett
Juliana Krohn
Julie Kriz
Julie Prescott
Justin Deggeller
Justin Ellison
Justin Hirsh
Justin Ritter
Karen Carlisle
Karen Daniels
Karen Ferguson
Karl Braun
Katherine Ducich
Katherine Hughes
Katherine Murray
Katherine Nockton
Katrina Bavinger
Katrina Willman
Kean Nguyen
Kean Thornton
Keith Herrera
Kelly Andreada
Kelly Collister
Kelly Lampkin
Ken Black
Ken Dana
Ken Heidel
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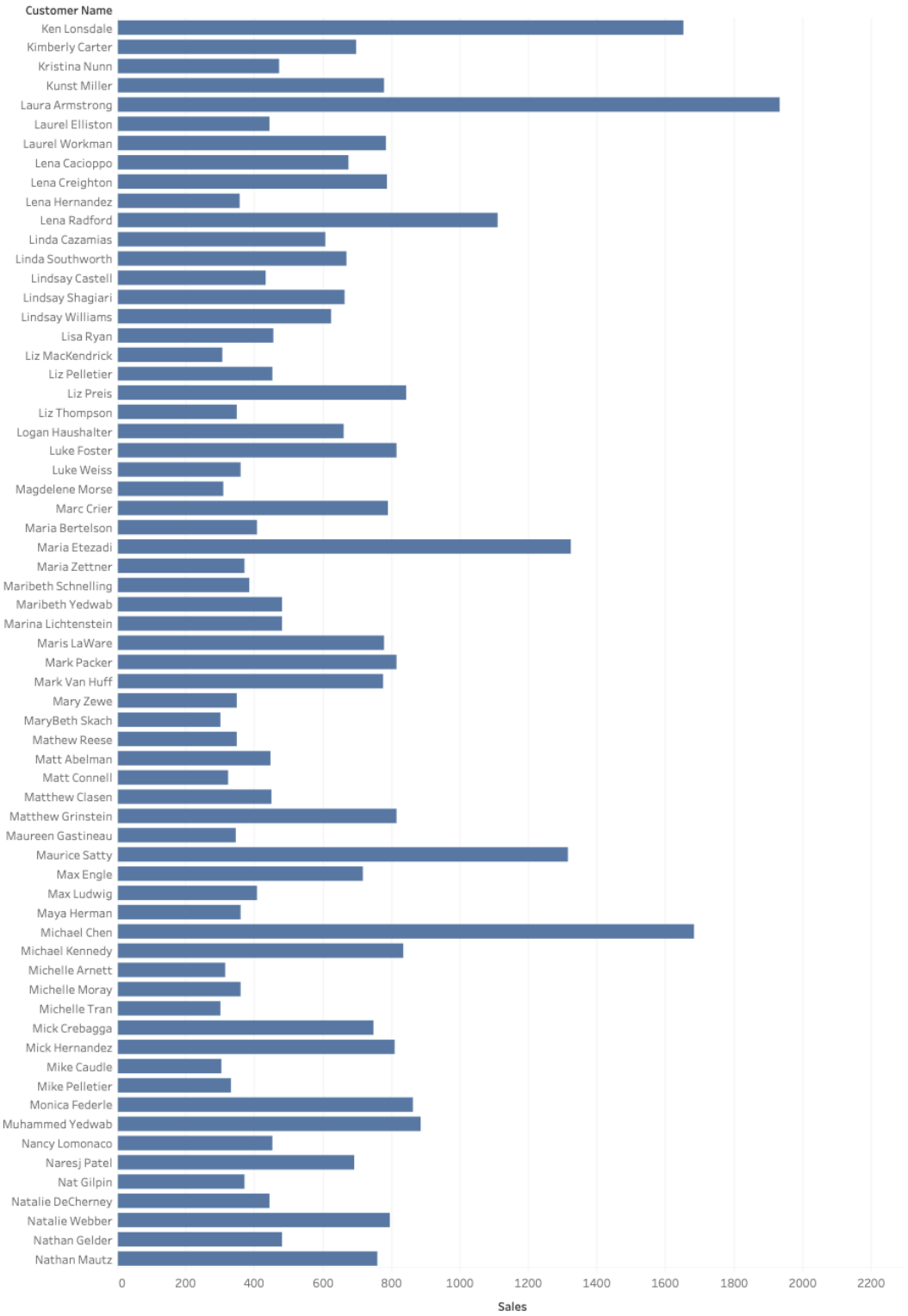
2000
2200
Sales


Customer Name
Ken Lonsdale
Kimberly Carter
Kristina Nunn
Kunst Miller
Laura Armstrong
Laurel Elliston
Laurel Workman
Lena Cacioppo
Lena Creighton
Lena Hernandez
Lena Radford
Linda Cazamias
Linda Southworth
Lindsay Castell
Lindsay Shagiari
Lindsay Williams
Lisa Ryan
Liz MacKendrick
Liz Pelletier
Liz Preis
Liz Thompson
Logan Haushalter
Luke Foster
Luke Weiss
Magdelene Morse
Marc Crier
Maria Bertelson
Maria Etezadi
Maria Zettner
Maribeth Schnelling
Maribeth Yedwab
Marina Lichtenstein
Maris LaWare
Mark Packer
Mark Van Huff
Mary Zewe
MaryBeth Skach
Mathew Reese
Matt Abelman
Matt Connell
Matthew Clasen
Matthew Grinstein
Maureen Gastineau
Maurice Satty
Max Engle
Max Ludwig
Maya Herman
Michael Chen
Michael Kennedy
Michelle Arnett
Michelle Moray
Michelle Tran
Mick Crebagga
Mick Hernandez
Mike Caudle
Mike Pelletier
Monica Federle
Muhammed Yedwab
Nancy Lomonaco
Naresj Patel
Nat Gilpin
Natalie DeCherney
Natalie Webber
Nathan Gelder
Nathan Mautz
0
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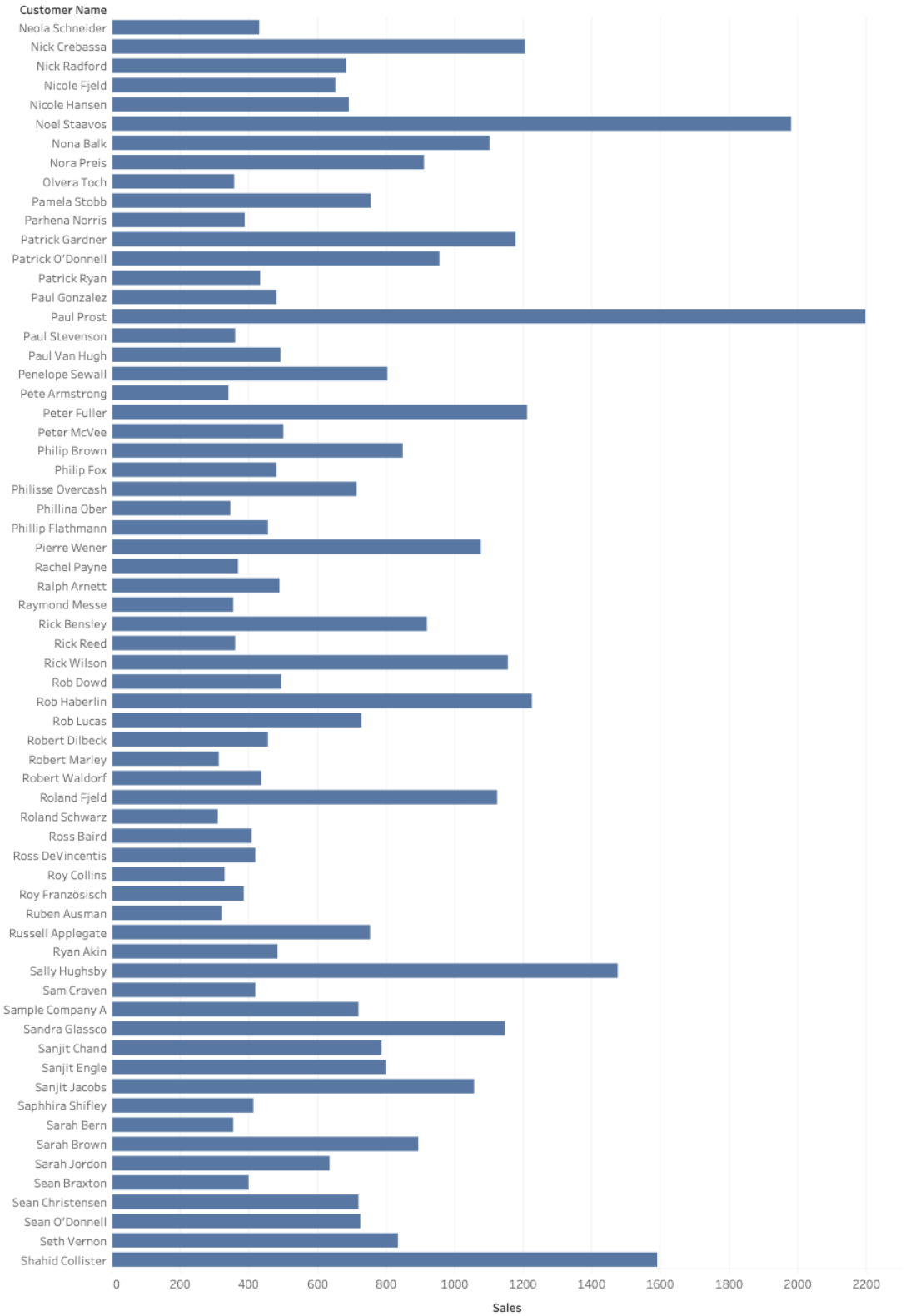
1800
2000
2200
Sales


Customer Name
Neola Schneider
Nick Crebassa
Nick Radford
Nicole Fjeld
Nicole Hansen
Noel Staavos
Nona Balk
Nora Preis
Olvera Toch
Pamela Stobb
Parhena Norris
Patrick Gardner
Patrick O'Donnell
Patrick Ryan
Paul Gonzalez
Paul Prost
Paul Stevenson
Paul Van Hugh
Penelope Sewall
Pete Armstrong
Peter Fuller
Peter McVee
Philip Brown
Philip Fox
Philisse Overcash
Phillina Ober
Phillip Flathmann
Pierre Wener
Rachel Payne
Ralph Arnett
Raymond Messe
Rick Bensley
Rick Reed
Rick Wilson
Rob Dowd
Rob Haberlin
Rob Lucas
Robert Dilbeck
Robert Marley
Robert Waldorf
Roland Fjeld
Roland Schwarz
Ross Baird
Ross DeVincentis
Roy Collins
Roy Französisch
Ruben Ausman
Russell Applegate
Ryan Akin
Sally Hughsby
Sam Craven
Sample Company A
Sandra Glassco
Sanjit Chand
Sanjit Engle
Sanjit Jacobs
Saphhira Shifley
Sarah Bern
Sarah Brown
Sarah Jordon
Sean Braxton
Sean Christensen
Sean O'Donnell
Seth Vernon
Shahid Collister
0
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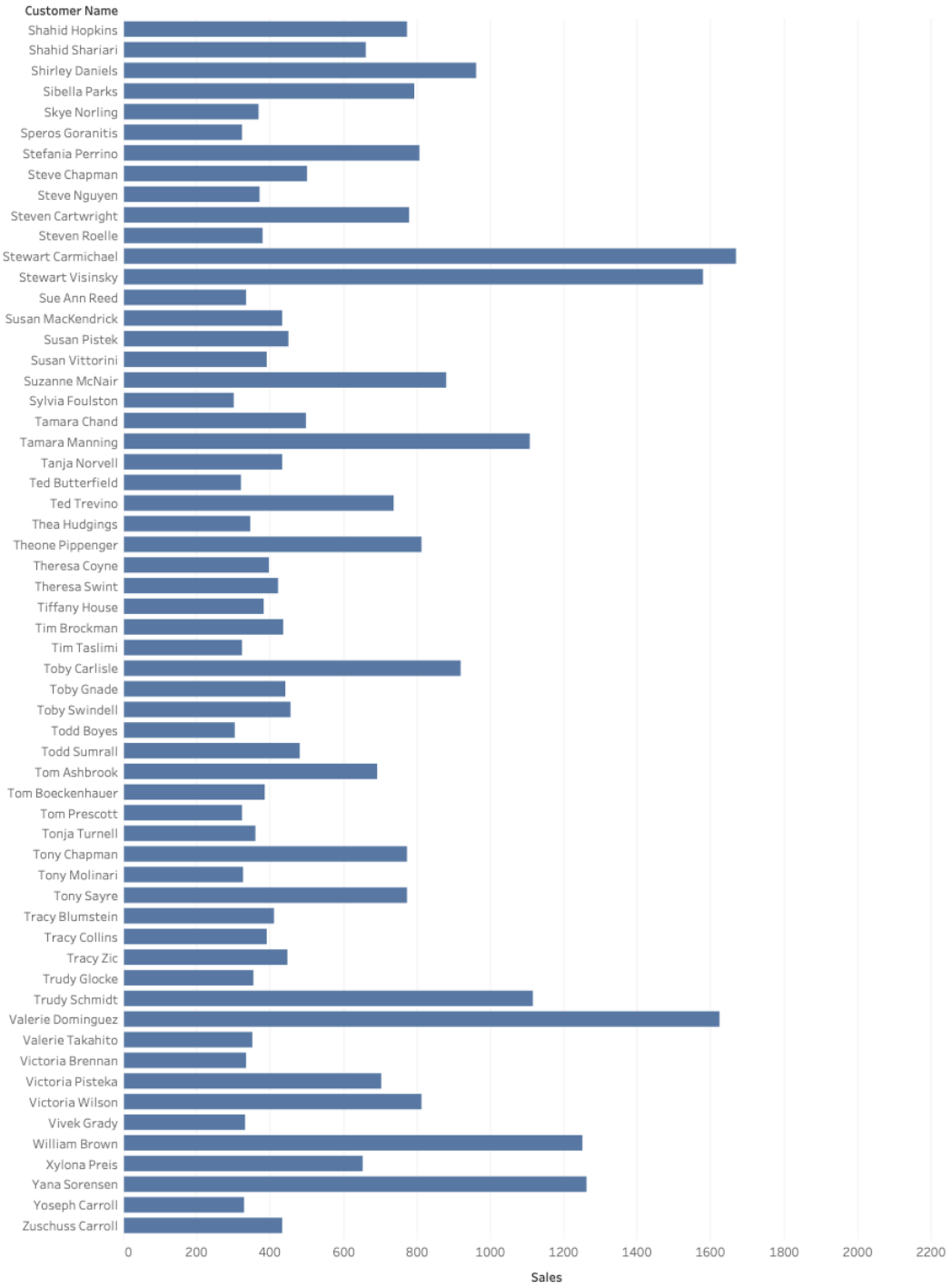
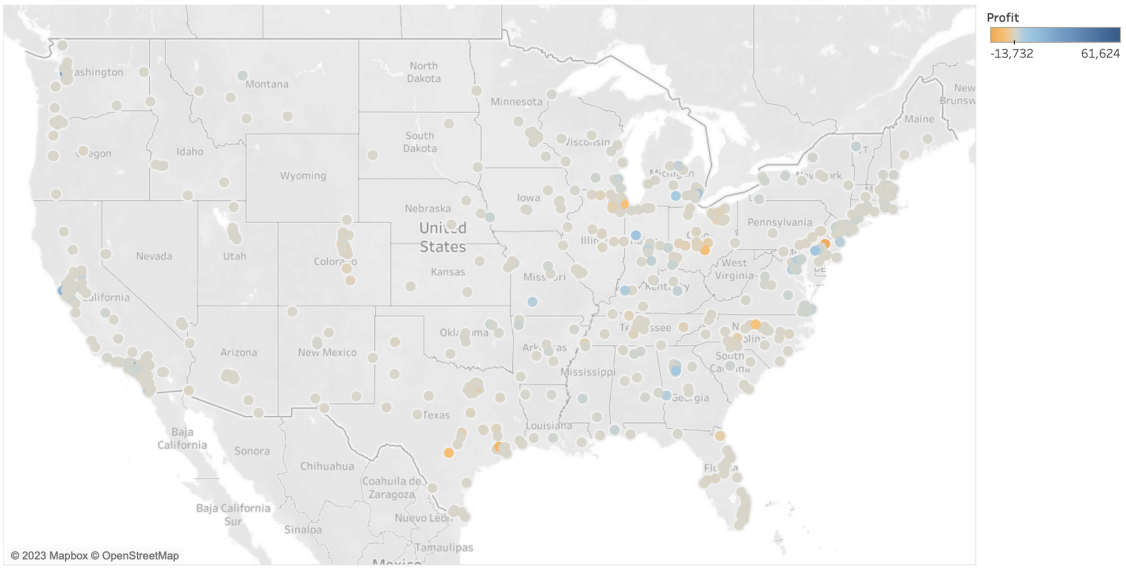
400
600
800
1000
1200
1400
1600
1800
2000
2200
Sales



Sum of Sales for each Customer Name. The data is filtered on Sales, which ranges from 300 to 500.

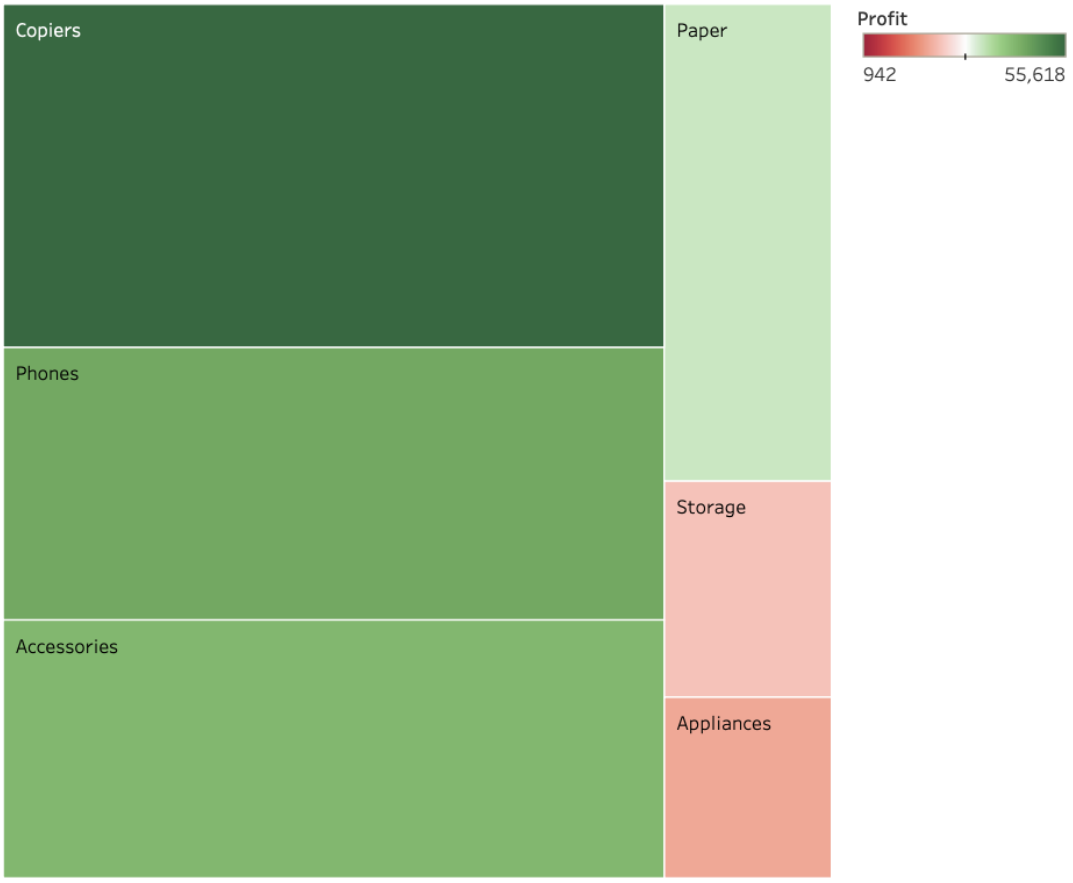
d. Other Four Visualization

STATE MAP



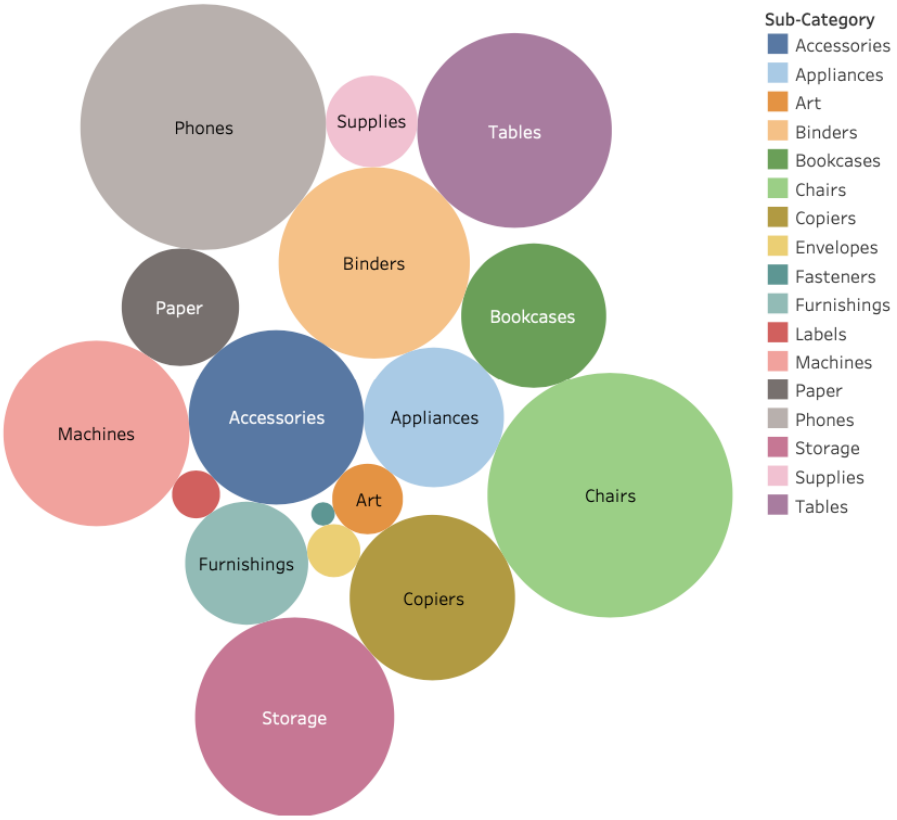
Map based on Longitude (generated) and Latitude (generated). Color shows sum of Profit. Details are shown for State and City.

TREE MAP



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 and keeps Null values.

BUBBLE CHART



Sub-Category. Color shows details about Sub-Category. Size shows sum of Sales. The marks are labeled by Sub-Category.

HEATMAP 2.0

Sub-Catego..ith	Region West
Accessories	
Appliances	
Art	
Binders	
Bookcases	
Chairs	
Copiers	
Envelopes	
Fasteners	
Furnishings	
Labels	
Machines	
Paper	
Phones	
Storage	
Supplies	
Tables	

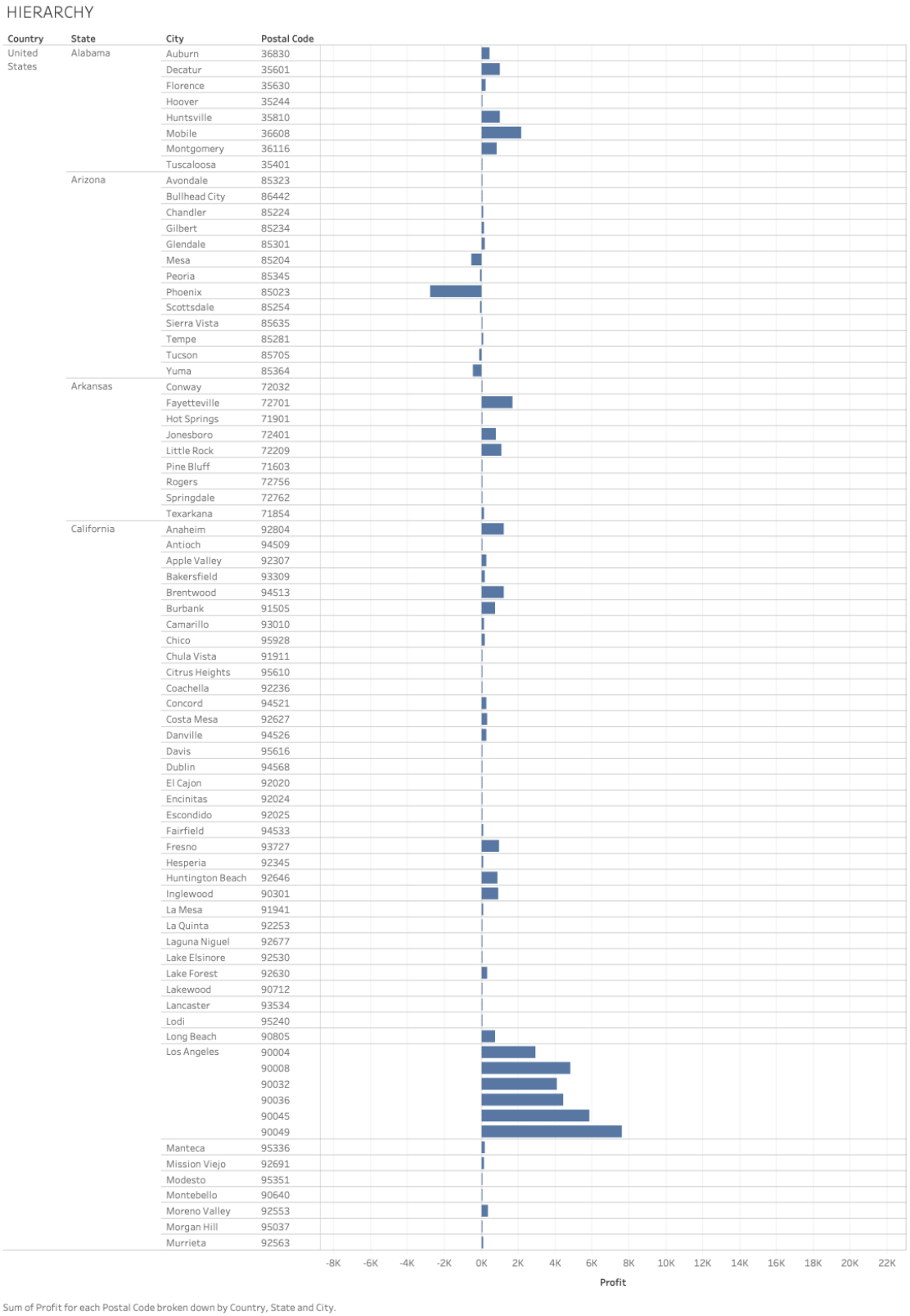
Sales
501
20,000
40,000
60,000
80,000
101,781

Profit
-11,025 19,327

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

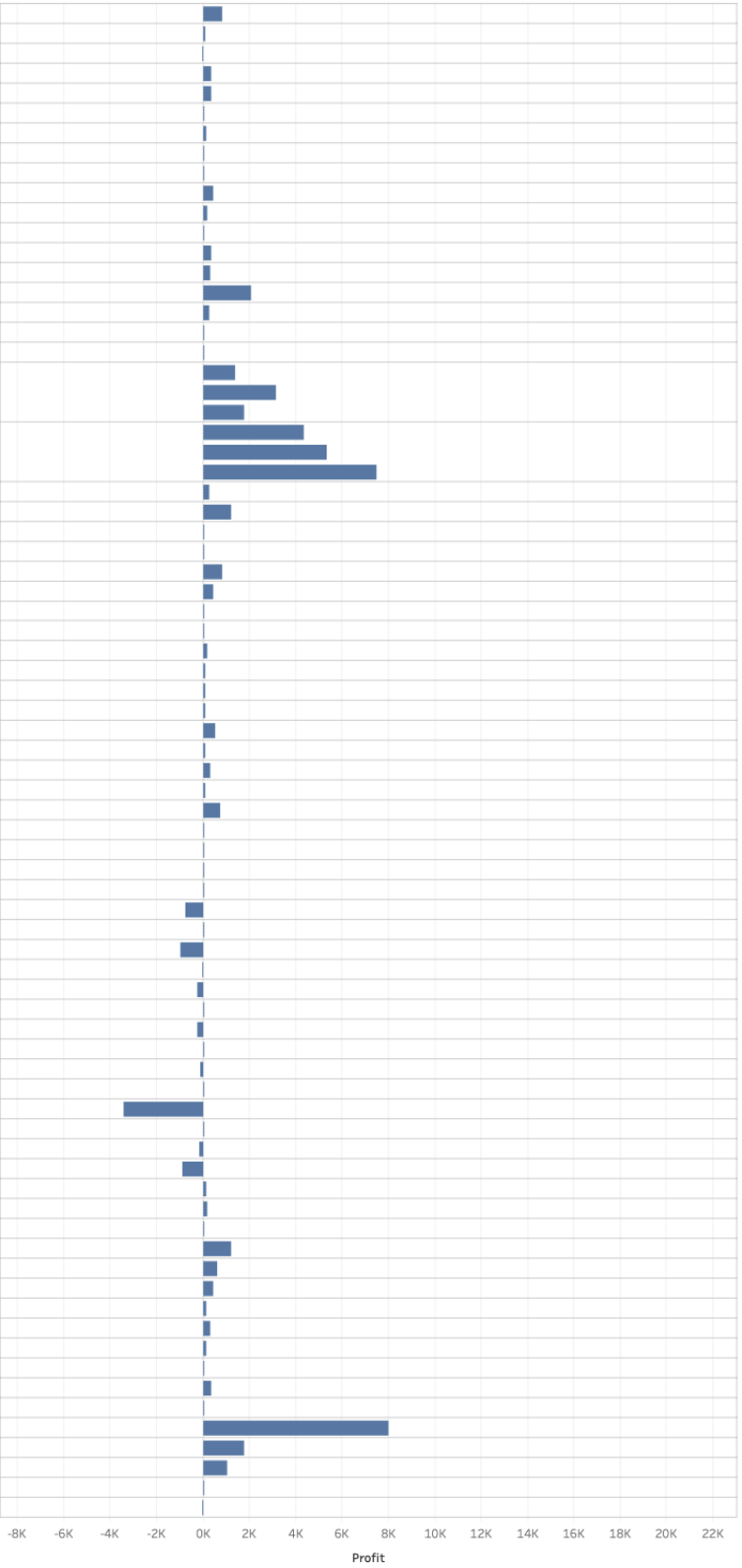
3. Perform the following data manipulations on your dataset

   a. create a Hierarchy



HIERARCHY

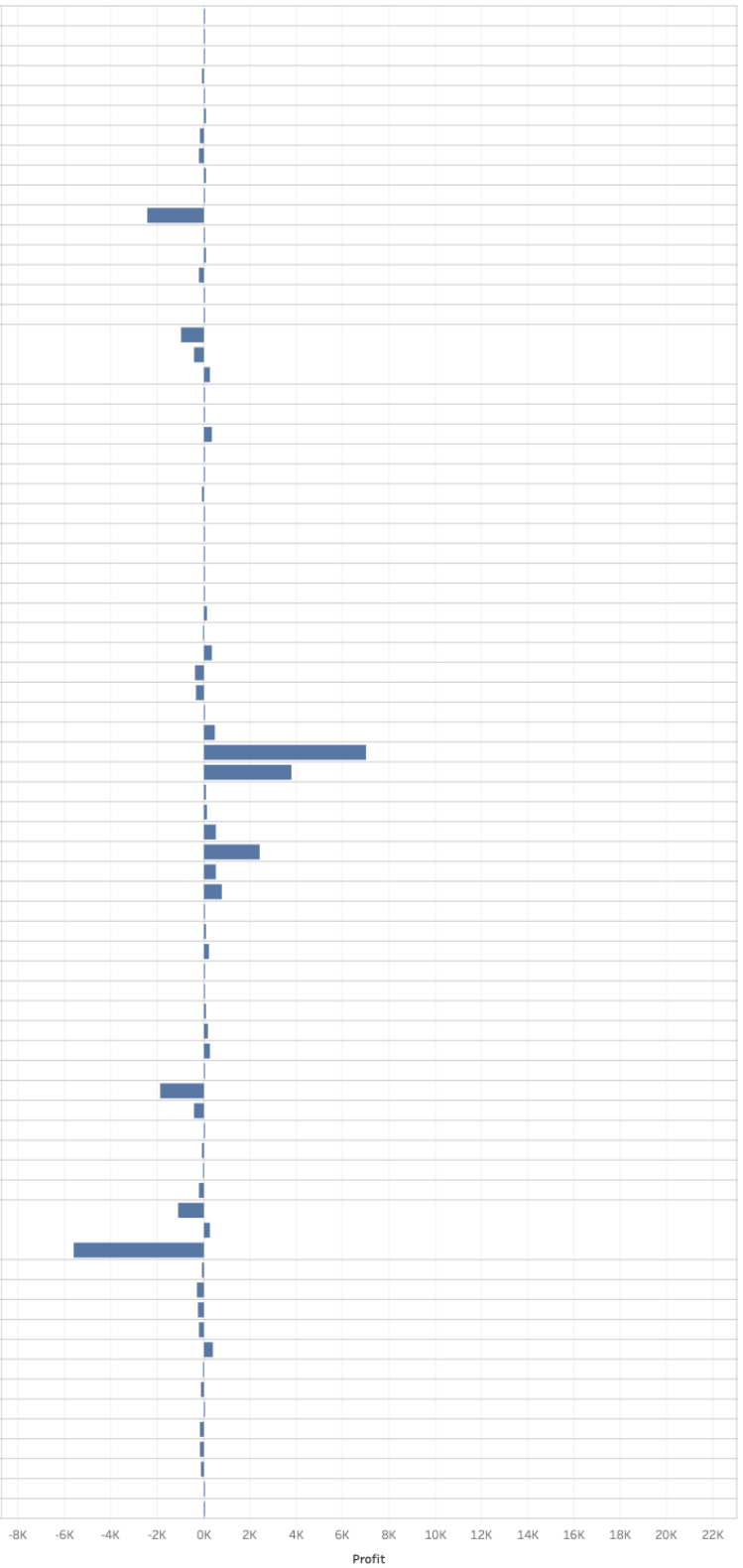
Country	State	City	Postal Code
United States	California	Oakland	94601
		Oceanside	92054
		Ontario	91761
		Oxnard	93030
		Pasadena	91104
		Pico Rivera	90660
		Pomona	91767
		Rancho Cucamonga	91730
		Redding	96003
		Redlands	92374
		Redondo Beach	90278
		Redwood City	94061
		Riverside	92503
		Roseville	95661
		Sacramento	95823
		Salinas	93905
		San Bernardino	92404
		San Clemente	92672
		San Diego	92024
			92037
			92105
		San Francisco	94109
			94110
			94122
		San Gabriel	91776
		San Jose	95123
		San Luis Obispo	93405
		San Mateo	94403
		Santa Ana	92704
		Santa Barbara	93101
		Santa Clara	95051
		Santa Maria	93454
		Stockton	95207
		Sunnyvale	94086
		Temecula	92592
		Thousand Oaks	91360
		Torrance	90503
		Vacaville	95687
		Vallejo	94591
		Visalia	93277
		Westminster	92683
		Whittier	90604
		Woodland	95695
		Yucaipa	92399
	Colorado	Arvada	80004
		Aurora	80013
		Broomfield	80020
		Colorado Springs	80906
		Commerce City	80022
		Denver	80219
		Englewood	80112
		Fort Collins	80525
		Greeley	80634
		Littleton	80122
		Longmont	80501
		Louisville	80027
		Loveland	80538
		Parker	80134
		Pueblo	81001
		Thornton	80229
	Connecticut	Bristol	06010
		Danbury	06810
		Fairfield	06824
		Manchester	06040
		Meriden	06450
		Middletown	06457
		Milford	06460
		Norwich	06360
		Shelton	06484
		Waterbury	06708
	Delaware	Dover	19901
		Newark	19711
		Wilmington	19805
	District of Columbia	Washington	20016
	Florida	Apopka	32712
		Boca Raton	33433



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

HIERARCHY

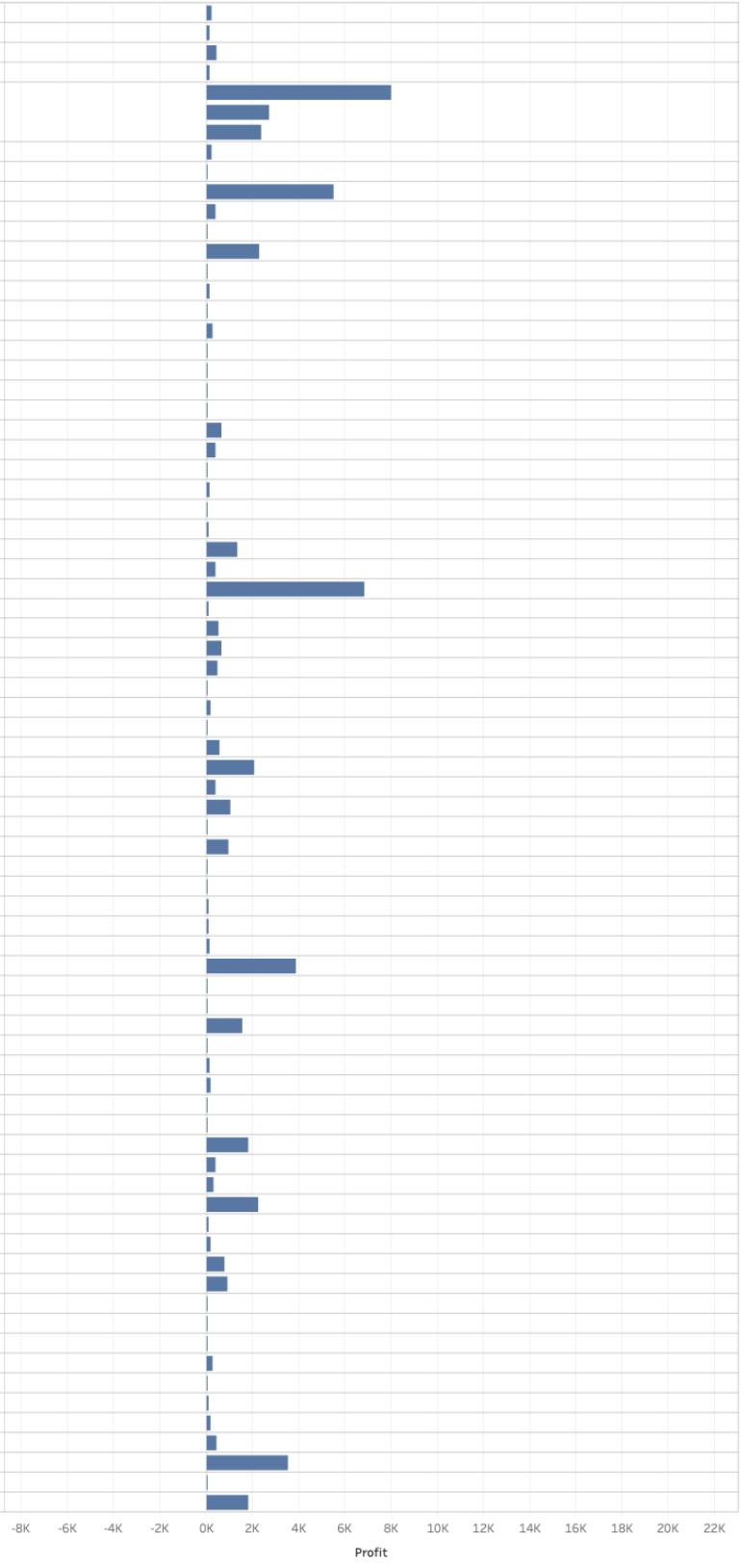
Country	State	City	Postal Code
United States	Florida	Boynton Beach	33437
		Coral Gables	33134
		Coral Springs	33065
		Daytona Beach	32114
		Delray Beach	33445
		Deltona	32725
		Fort Lauderdale	33311
		Hialeah	33012
		Hollywood	33021
		Homestead	33030
		Jacksonville	32216
		Jupiter	33458
		Kissimmee	34741
		Lakeland	33801
		Margate	33063
		Melbourne	32935
		Miami	33142
			33178
			33180
		Miramar	33023
		North Miami	33161
		Orlando	32839
		Ormond Beach	32174
		Palm Coast	32137
		Pembroke Pines	33024
		Pensacola	32503
		Plantation	33317
		Pompano Beach	33068
		Port Orange	32127
		Port Saint Lucie	34952
		Saint Petersburg	33710
		Sanford	32771
		Tallahassee	32303
		Tamarac	33319
		Tampa	33614
		West Palm Beach	33407
	Georgia	Athens	30605
		Atlanta	30318
		Columbus	31907
		East Point	30344
		Macon	31204
		Marietta	30062
		Roswell	30076
		Sandy Springs	30328
		Smyrna	30080
		Warner Robins	31088
		Woodstock	30188
	Idaho	Boise	83704
		Caldwell	83605
		Lewiston	83501
		Meridian	83642
		Pocatello	83201
		Twin Falls	83301
	Illinois	Arlington Heights	60004
		Aurora	60505
		Bloomington	61701
		Bolingbrook	60440
		Buffalo Grove	60089
		Carol Stream	60188
		Champaign	61821
		Chicago	60610
			60623
			60653
		Danville	61832
		Decatur	62521
		Des Plaines	60016
		Elmhurst	60126
		Evanston	60201
		Frankfort	60423
		Freeport	61032
		Glenview	60025
		Highland Park	60035
		Naperville	60540
		Normal	61761
		Oak Park	60302
		Orland Park	60462



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

HIERARCHY

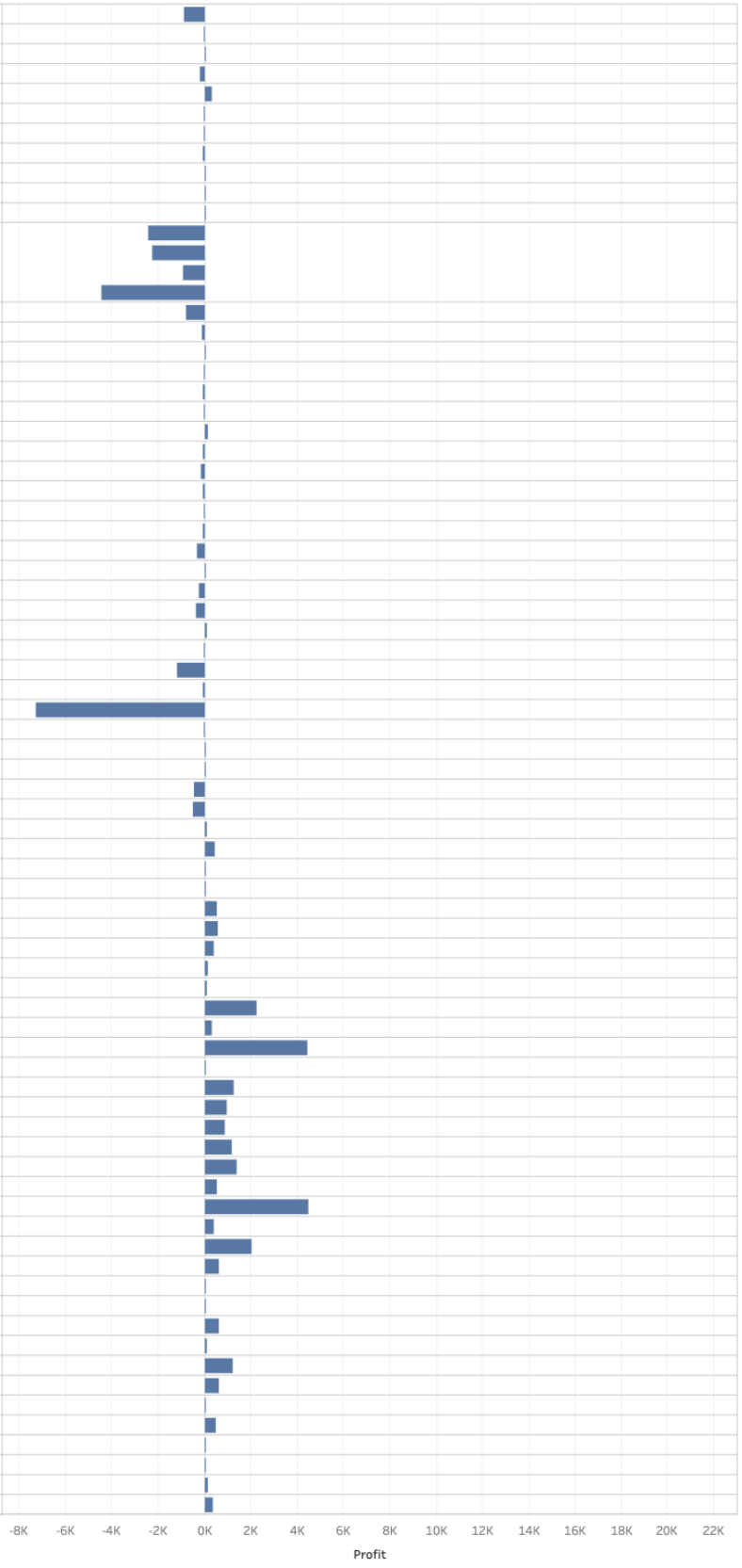
Country	State	City	Postal Code
United States	Michigan	Ann Arbor	48104
		Canton	48187
		Dearborn	48126
		Dearborn Heights	48127
		Detroit	48205
			48227
			48234
		Grand Rapids	49505
		Holland	49423
		Jackson	49201
		Lansing	48911
		Lincoln Park	48146
		Midland	48640
		Mount Pleasant	48858
		Oak Park	48237
		Rochester Hills	48307
		Roseville	48066
		Royal Oak	48073
		Saginaw	48601
		Sterling Heights	48310
		Taylor	48180
		Trenton	48183
		Westland	48185
	Minnesota	Apple Valley	55124
		Coon Rapids	55433
		Cottage Grove	55016
		Eagan	55122
		Lakeville	55044
		Maple Grove	55369
		Minneapolis	55407
		Moorhead	56560
		Rochester	55901
		Roseville	55113
		Saint Cloud	56301
		Saint Paul	55106
		Woodbury	55125
	Mississippi	Gulfport	39503
		Hattiesburg	39401
		Jackson	39212
		Southaven	38671
	Missouri	Columbia	65203
		Gladstone	64118
		Independence	64055
		Jefferson City	65109
		Kirkwood	63122
		Saint Charles	63301
		Saint Louis	63116
		Saint Peters	63376
		Springfield	65807
	Montana	Billings	59102
		Bozeman	59715
		Great Falls	59405
		Helena	59601
		Missoula	59801
	Nebraska	Fremont	68025
		Grand Island	68801
		Norfolk	68701
		Omaha	68104
	Nevada	Henderson	89015
		Las Vegas	89115
		North Las Vegas	89031
		Reno	89502
		Sparks	89431
	New Hampshire	Concord	03301
		Dover	03820
		Nashua	03060
	New Jersey	Atlantic City	08401
		Bayonne	07002
		Belleville	07109
		Bridgeton	08302
		Clifton	07011
		East Orange	07017
		Hackensack	07601
		Lakewood	08701
		Linden	07036
		Morristown	07960



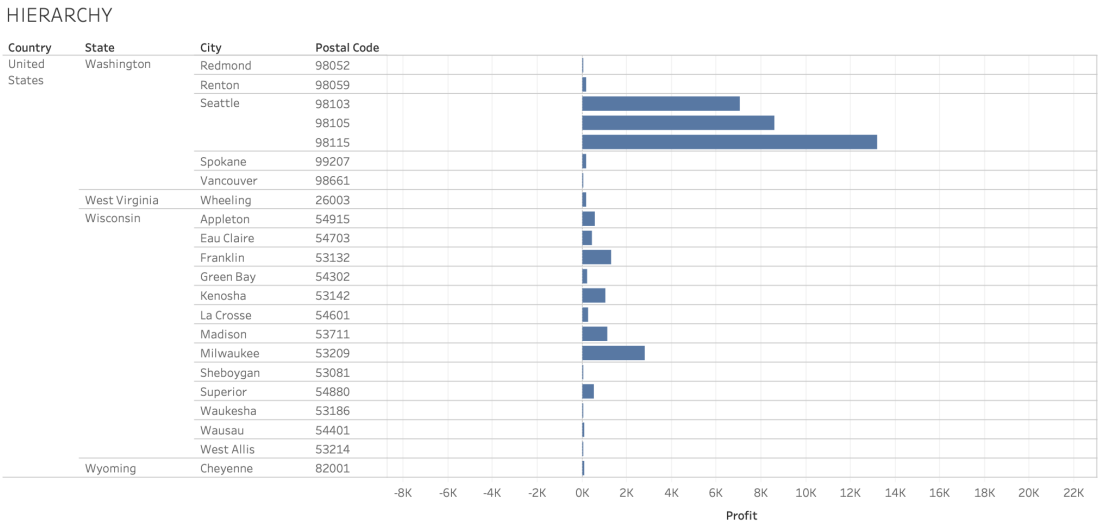
Sum of Profit for each Postal Code broken down by Country, State and City.

HIERARCHY

Country	State	City	Postal Code
United States	Texas	Dallas	75220
		Deer Park	77536
		Edinburg	78539
		El Paso	79907
		Fort Worth	76106
		Frisco	75034
		Garland	75043
		Grand Prairie	75051
		Grapevine	76051
		Haltom City	76117
		Harlingen	78550
		Houston	77036
			77041
			77070
			77095
		Huntsville	77340
		Irving	75061
		Keller	76248
		La Porte	77571
		Laredo	78041
		League City	77573
		Lubbock	79424
		Mansfield	76063
		Mcallen	78501
		Mesquite	75150
		Missouri City	77489
		Odessa	79762
		Pasadena	77506
		Pearland	77581
		Pharr	78577
		Plano	75023
		Port Arthur	77642
		Richardson	75080
		Round Rock	78664
		San Angelo	76903
		San Antonio	78207
		San Marcos	78666
		Texas City	77590
		The Colony	75056
		Tyler	75701
		Waco	76706
	Utah	Draper	84020
		Lehi	84043
		Logan	84321
		Murray	84107
		Orem	84057
		Pleasant Grove	84062
		Provo	84604
		Salt Lake City	84106
		West Jordan	84084
	Vermont	Burlington	05408
	Virginia	Alexandria	22304
		Arlington	22204
		Charlottesville	22901
		Chesapeake	23320
		Hampton	23666
		Harrisonburg	22801
		Newport News	23602
		Richmond	23223
		Salem	24153
		Springfield	22153
		Suffolk	23434
		Virginia Beach	23464
		Waynesboro	22980
	Washington	Auburn	98002
		Bellevue	98006
		Bellingham	98226
		Covington	98042
		Des Moines	98198
		Edmonds	98026
		Everett	98208
		Kent	98031
		Longview	98632
		Marysville	98270
		Olympia	98502
		Pasco	99301

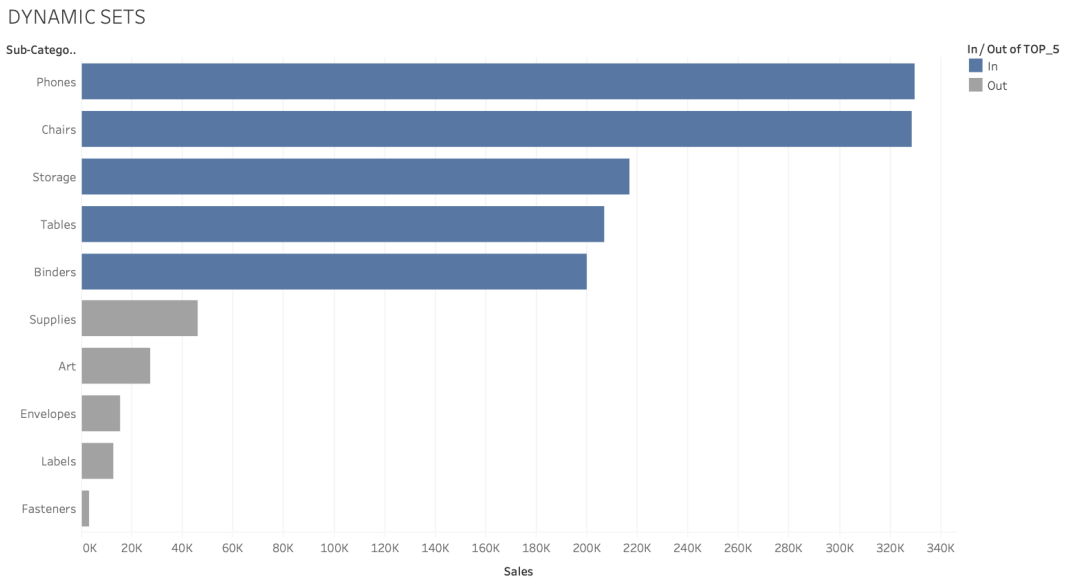


Sum of Profit for each Postal Code broken down by Country, State and City.



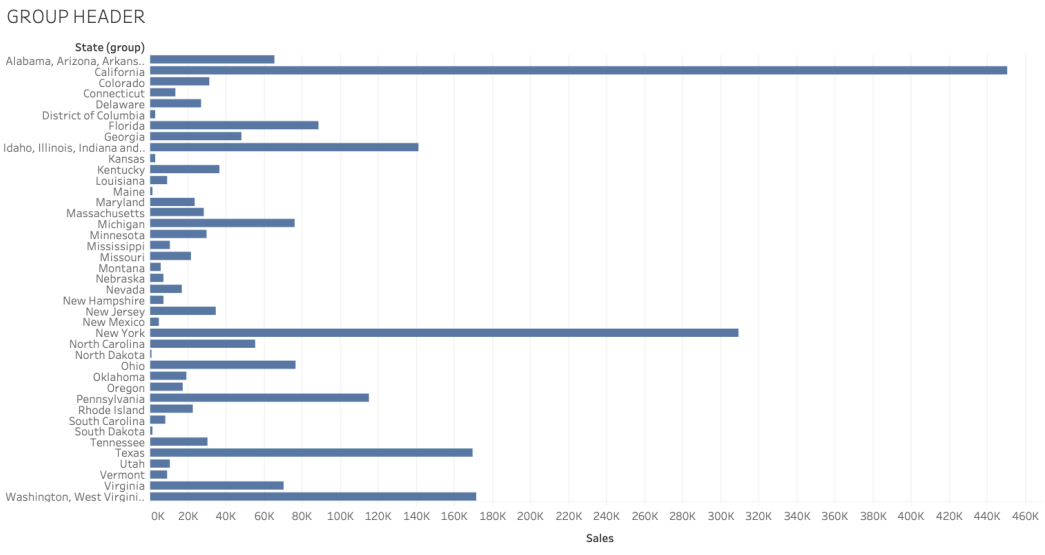
Sum of Profit for each Postal Code broken down by Country, State and City.

b. create a set



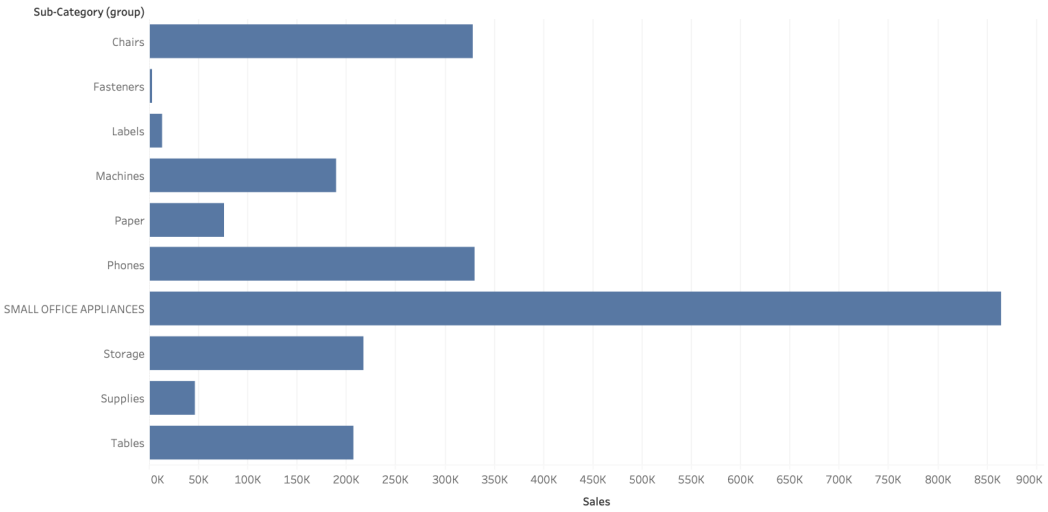
Sum of Sales for each Sub-Category. Color shows details about In / Out of TOP_5. The data is filtered on COMBINED_TOP_BOTTOM, which keeps 10 members.

c. create a group



Sum of Sales for each State (group).

GROUP DATA



Sum of Sales for each Sub-Category (group).