Smart Bridge – Data Analytics

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Campus: VIT Vellore

Assignment 2

Tableau Public link: https://public.tableau.com/app/profile/chanthrika.r.l/viz/ChanthrikaRLassignment2superstore/Histogram

Other Links:

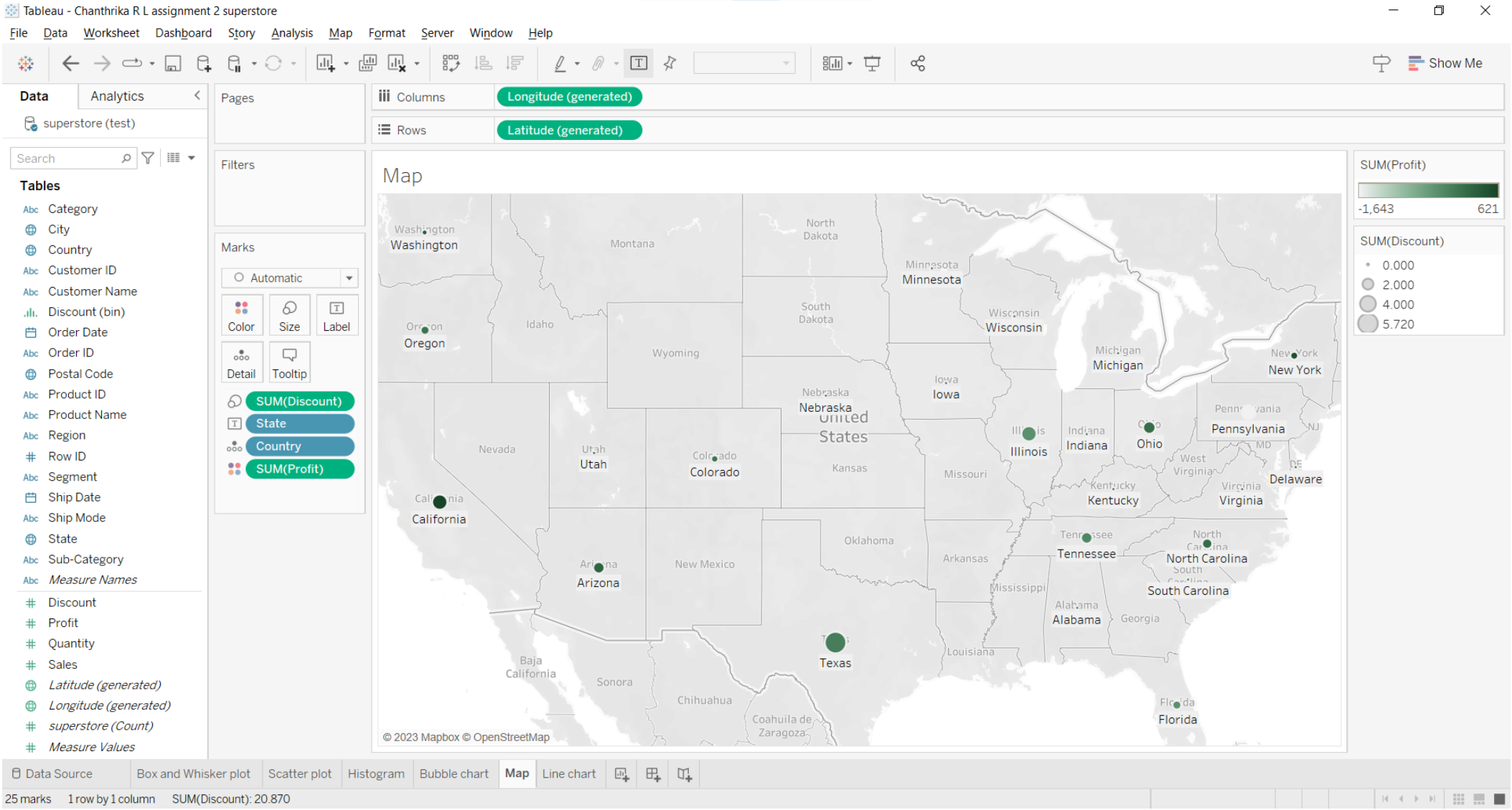
Google Drive link: https://drive.google.com/drive/folders/17V-l78iQX6zIB22wsjLjYacHEsT7hPJ4?usp=share_link

Folder link: https://drive.google.com/drive/folders/1qkR7OHNdeIkJd3u8v5Dmbpte6BGm4gmB?usp=share_link

GitHub link: https://github.com/Chanthrika-RL/Smart-Bridge-Data-Analytics

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

Map:



Histogram:

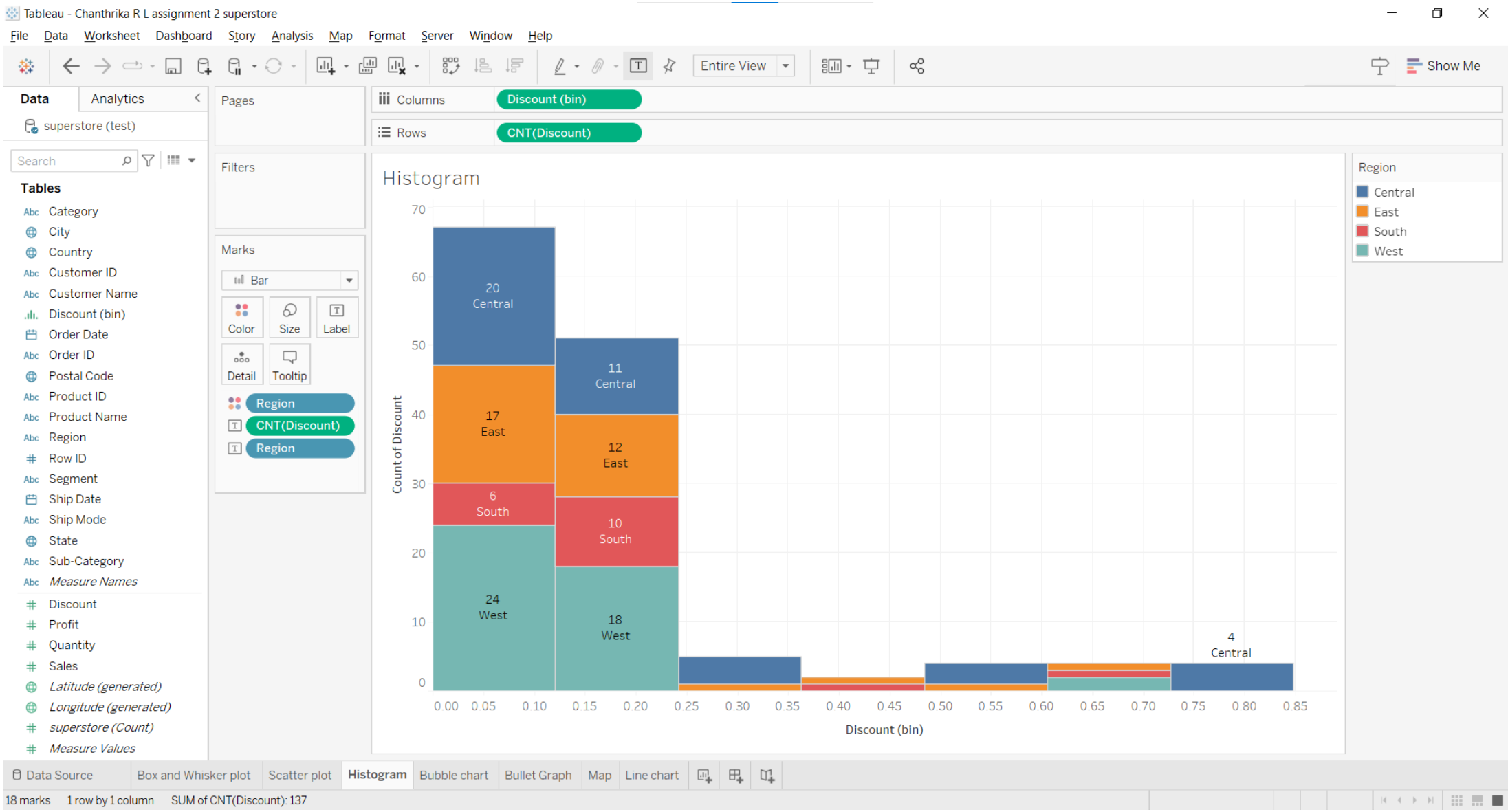
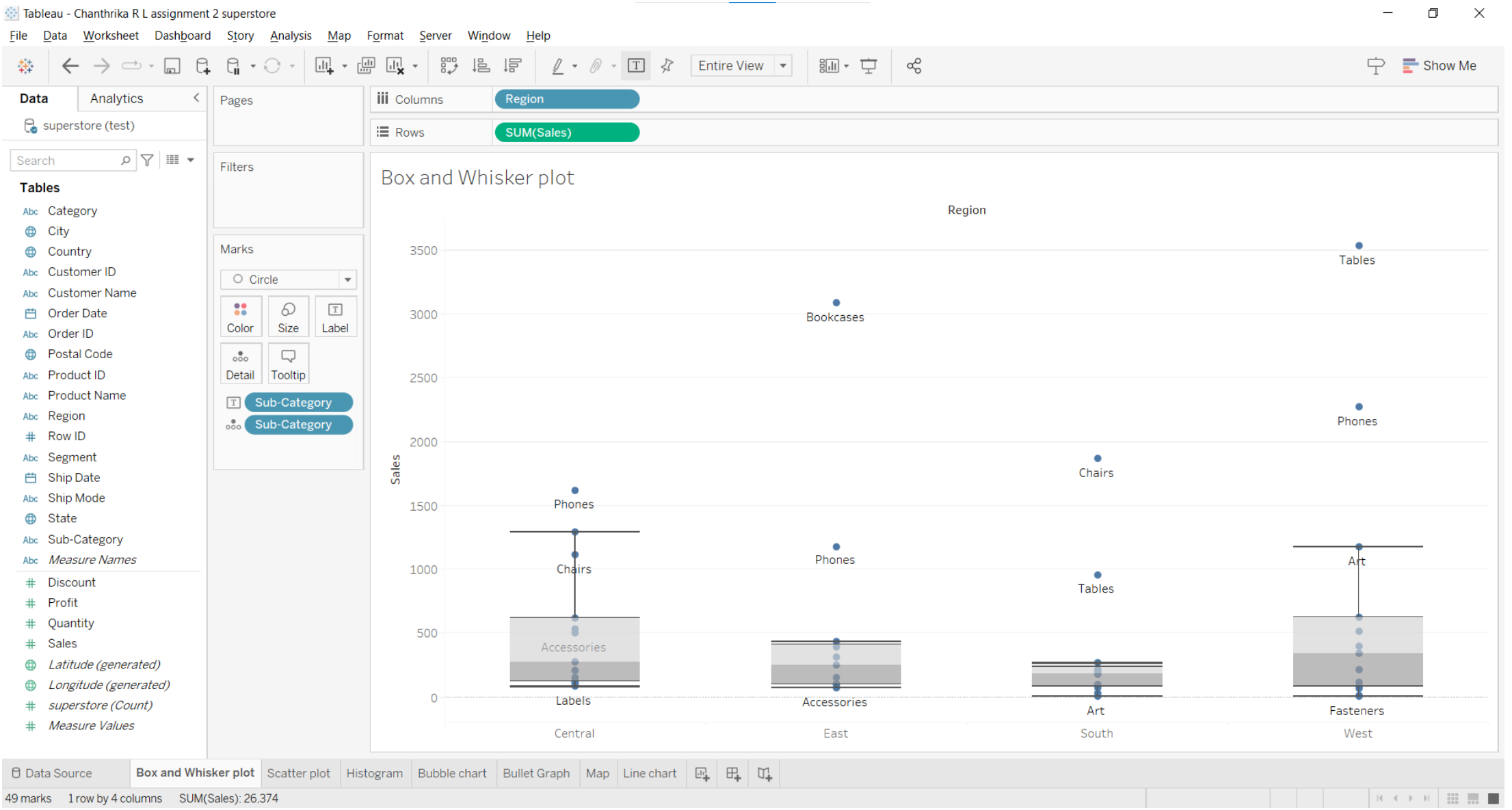


Tableau - Chanthrika R L assignment 2 superstore
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Entire View
Show Me
Data
Analytics
superstore (test)
Search
Tables
Abc Category
City
Country
Abc Customer ID
Abc Customer Name
Discount (bin)
Order Date
Abc Order ID
Postal Code
Abc Product ID
Abc Product Name
Abc Region
Row ID
Abc Segment
Ship Date
Abc Ship Mode
State
Abc Sub-Category
Abc Measure Names
Discount
Profit
Quantity
Sales
Latitude (generated)
Longitude (generated)
superstore (Count)
Measure Values
Pages
Filters
Marks
Bar
Color
Size
Label
Detail
Tooltip
Region
CNT(Discount)
Region
Columns
Discount (bin)
Rows
CNT(Discount)
Histogram
Count of Discount
Discount (bin)
20 Central
17 East
6 South
24 West
11 Central
12 East
10 South
18 West
4 Central
0.00 0.05 0.10 0.15 0.20 0.25 0.30 0.35 0.40 0.45 0.50 0.55 0.60 0.65 0.70 0.75 0.80 0.85
0 10 20 30 40 50 60 70
Region
Central
East
South
West
Data Source
Box and Whisker plot
Scatter plot
Histogram
Bubble chart
Bullet Graph
Map
Line chart
18 marks
1 row by 1 column
SUM of CNT(Discount): 137

Box and Whisker Plot:



Line graph:

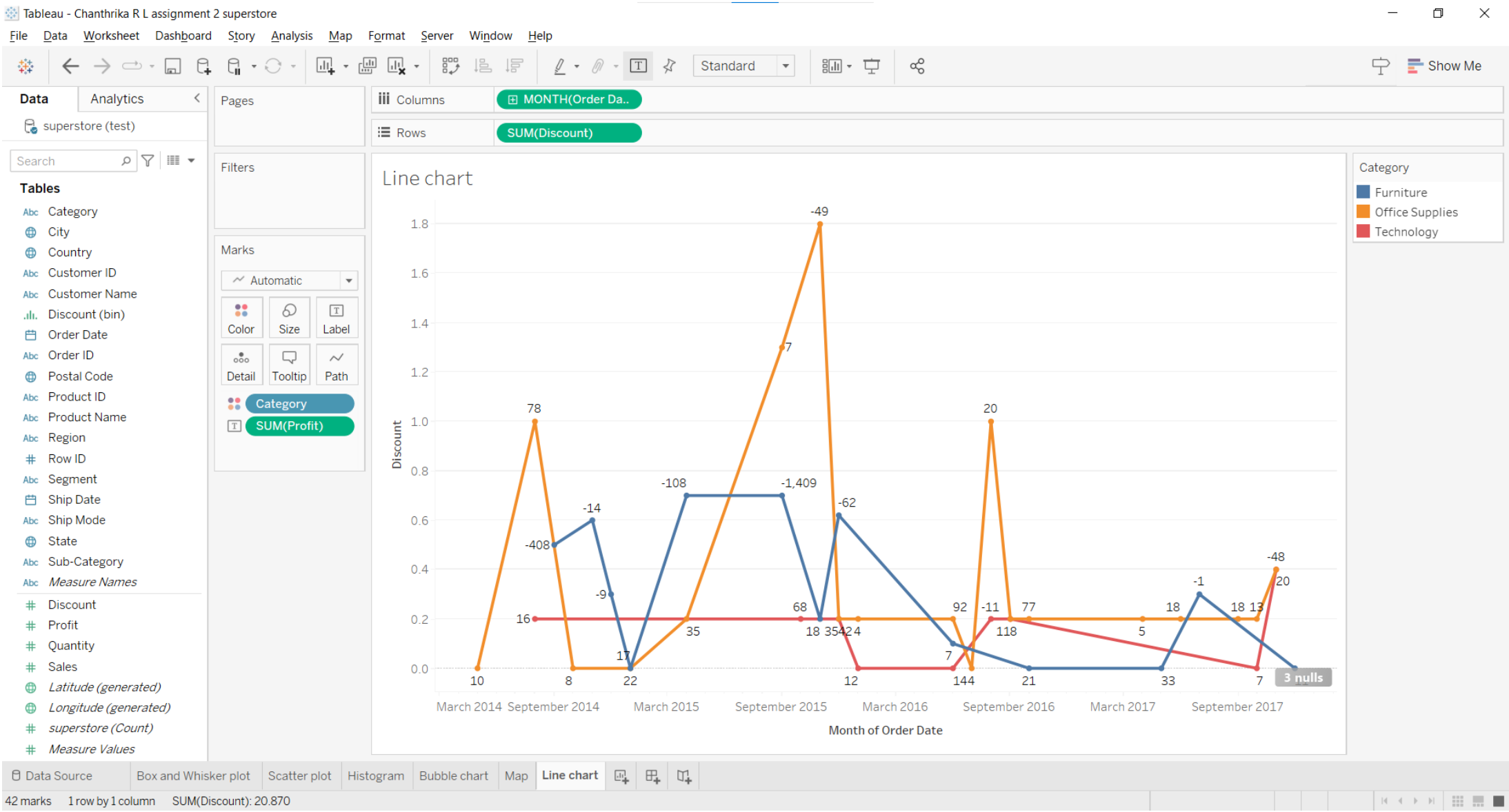
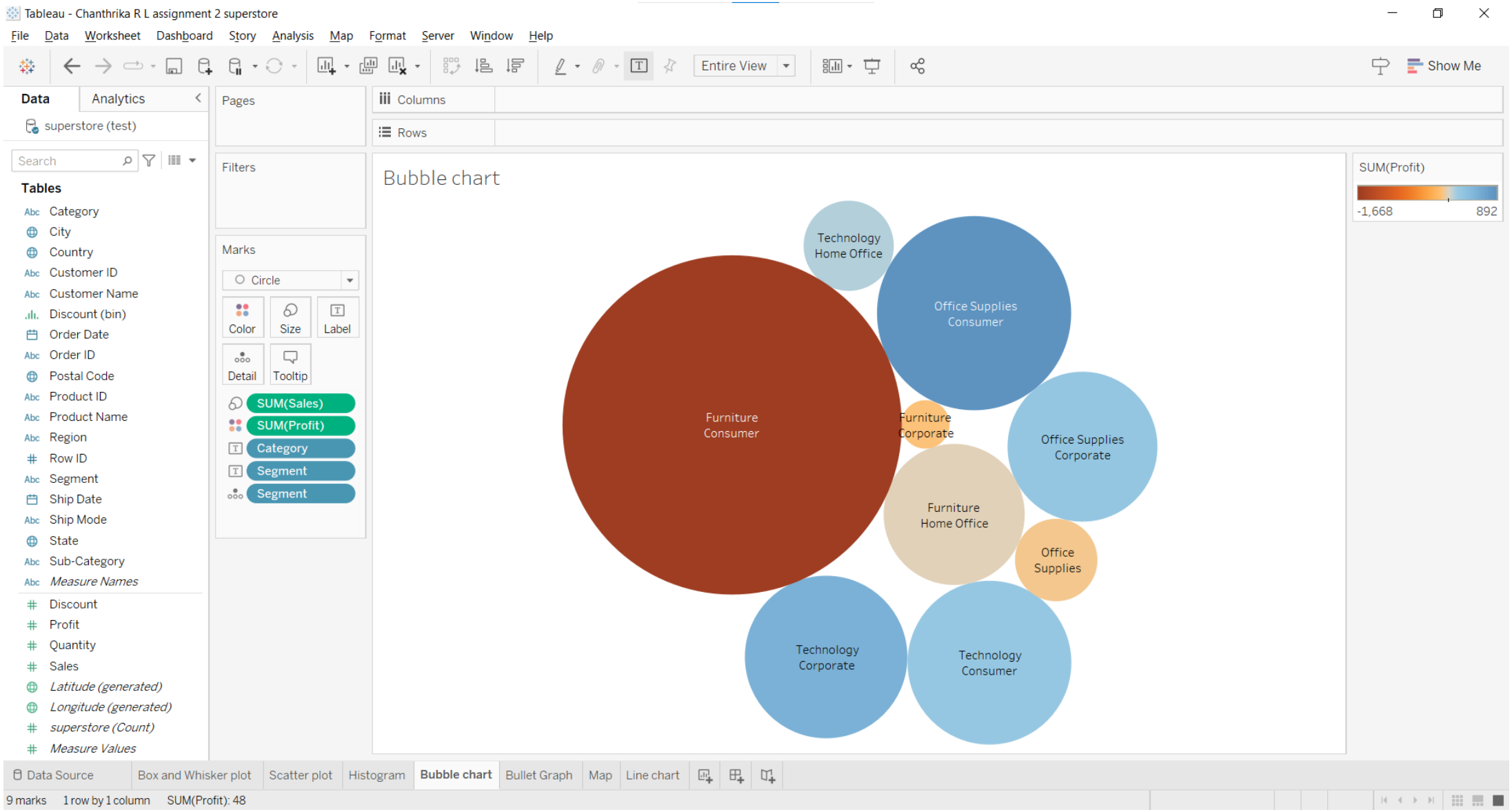


Tableau - Chanthrika R L assignment 2 superstore
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data
Analytics
superstore (test)
Search
Tables
Abc Category
City
Country
Abc Customer ID
Abc Customer Name
Discount (bin)
Order Date
Abc Order ID
Postal Code
Abc Product ID
Abc Product Name
Abc Region
Row ID
Abc Segment
Ship Date
Abc Ship Mode
State
Abc Sub-Category
Abc Measure Names
Discount
Profit
Quantity
Sales
Latitude (generated)
Longitude (generated)
superstore (Count)
Measure Values
Pages
Filters
Marks
Automatic
Color
Size
Label
Detail
Tooltip
Path
Category
SUM(Profit)
Columns
MONTH(Order Da..
Rows
SUM(Discount)
Line chart
Discount
Month of Order Date
March 2014
September 2014
March 2015
September 2015
March 2016
September 2016
March 2017
September 2017
3 nulls
Category
Furniture
Office Supplies
Technology
Data Source
Box and Whisker plot
Scatter plot
Histogram
Bubble chart
Map
Line chart
42 marks
1 row by 1 column
SUM(Discount): 20.870

Packed Bubbles chart:



Bar graph:

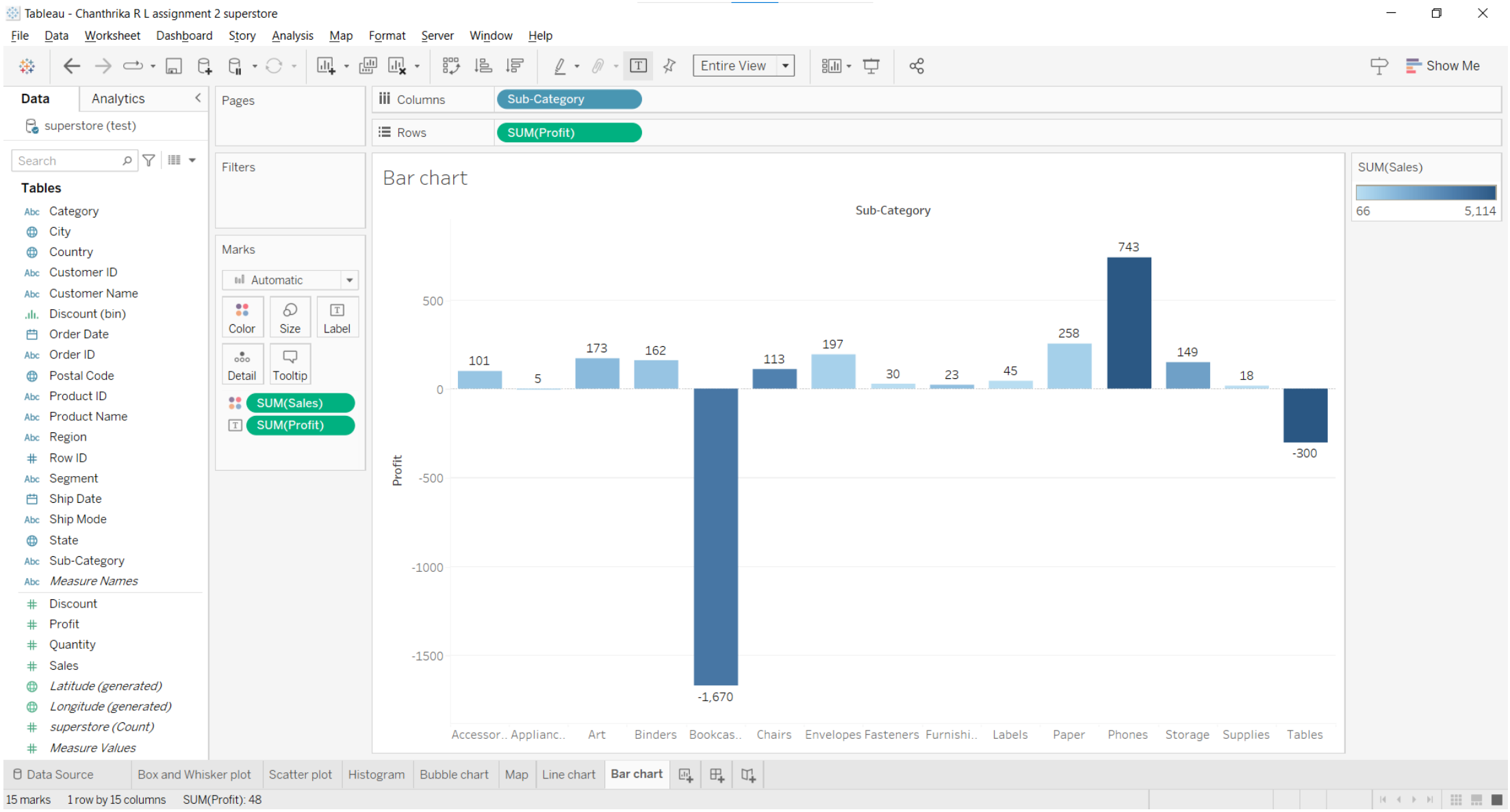
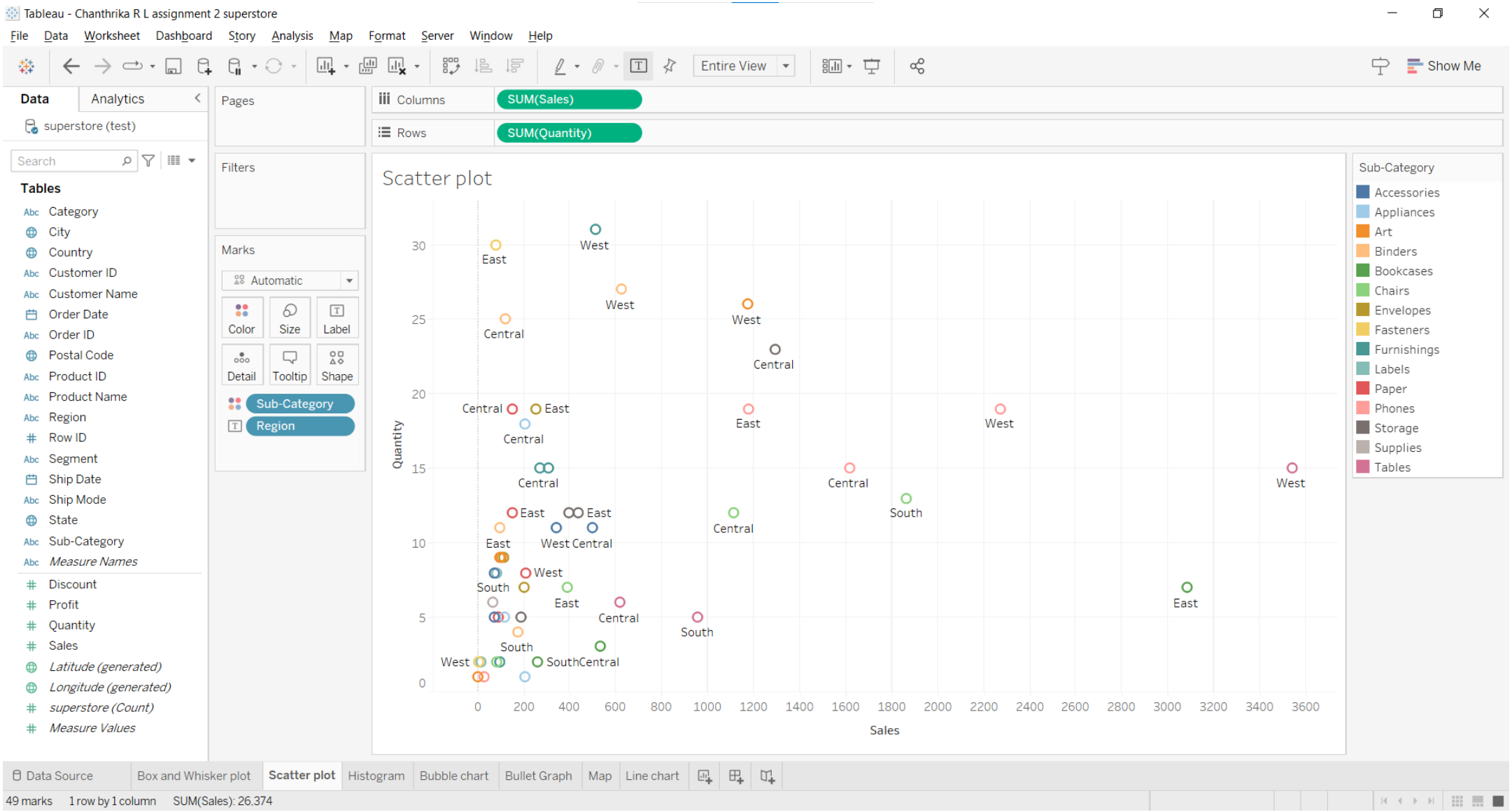


Tableau - Chanthrika R L assignment 2 superstore
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Entire View
Show Me
Data
Analytics
superstore (test)
Search
Tables
Abc Category
City
Country
Abc Customer ID
Abc Customer Name
Discount (bin)
Order Date
Abc Order ID
Postal Code
Abc Product ID
Abc Product Name
Abc Region
Row ID
Abc Segment
Ship Date
Abc Ship Mode
State
Abc Sub-Category
Abc Measure Names
Discount
Profit
Quantity
Sales
Latitude (generated)
Longitude (generated)
superstore (Count)
Measure Values
Pages
Filters
Marks
Automatic
Color
Size
Label
Detail
Tooltip
SUM(Sales)
SUM(Profit)
Columns
Sub-Category
Rows
SUM(Profit)
Bar chart
Sub-Category
Profit
500
0
-500
-1000
-1500
101
5
173
162
-1,670
113
197
30
23
45
258
743
149
18
-300
Accessor..
Applianc..
Art
Binders
Bookcas..
Chairs
Envelopes
Fasteners
Furnishi..
Labels
Paper
Phones
Storage
Supplies
Tables
SUM(Sales)
66
5,114
Data Source
Box and Whisker plot
Scatter plot
Histogram
Bubble chart
Map
Line chart
Bar chart
15 marks
1 row by 15 columns
SUM(Profit): 48

Scatter Plot:



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

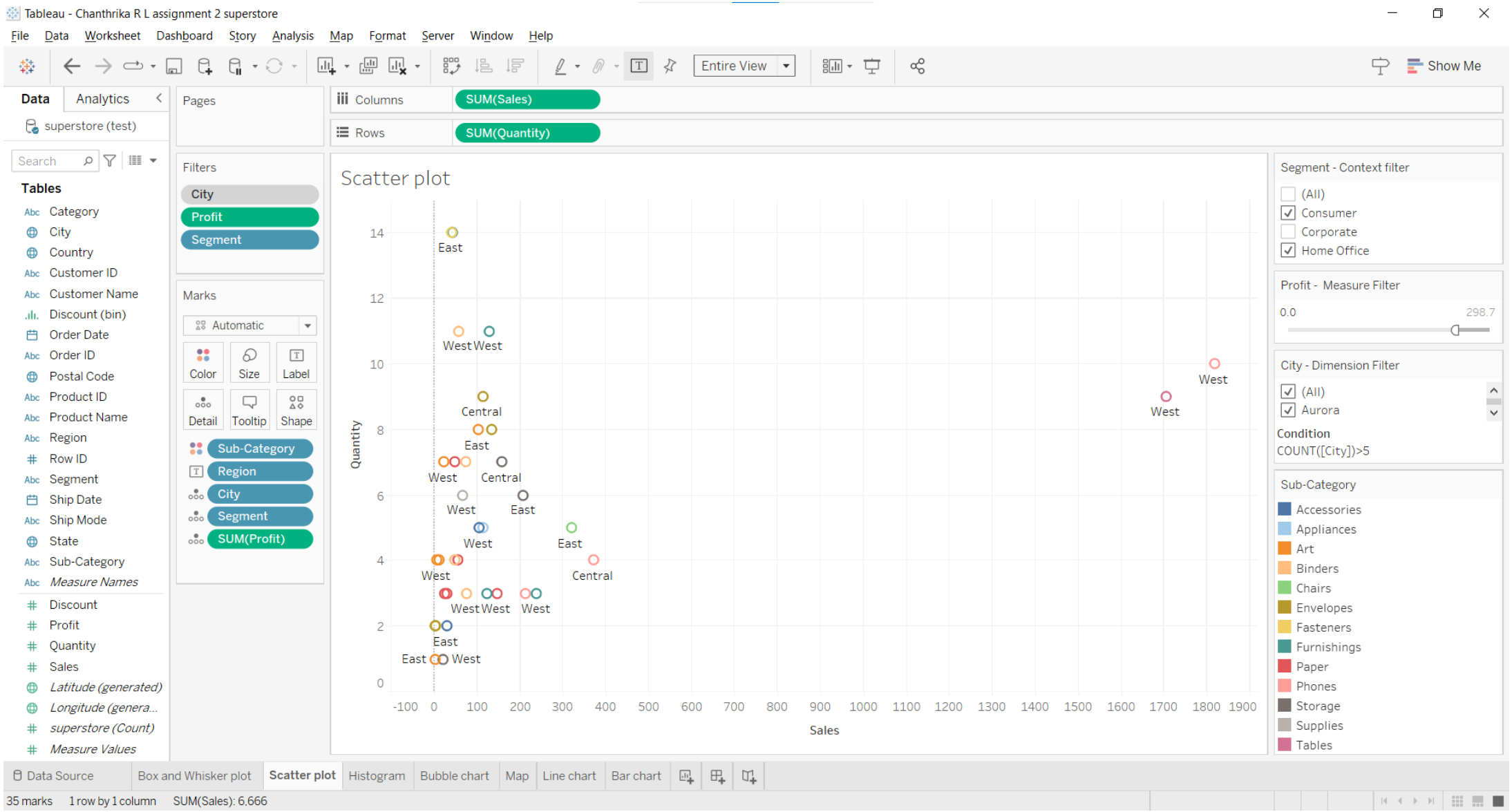


Tableau - Chanthrika R L assignment 2 superstore

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Entire View | Show Me

Data | Analytics

superstore (test)

Search

Tables

- Abc Category
- City
- Country
- Abc Customer ID
- Abc Customer Name
- Discount (bin)
- Order Date
- Abc Order ID
- Postal Code
- Abc Product ID
- Abc Product Name
- Abc Region
- Row ID
- Abc Segment
- Ship Date
- Abc Ship Mode
- State
- Abc Sub-Category
- Abc *Measure Names*
- Discount
- Profit
- Quantity
- Sales
- *Latitude (generated)*
- *Longitude (genera...*
- *superstore (Count)*
- *Measure Values*

Pages

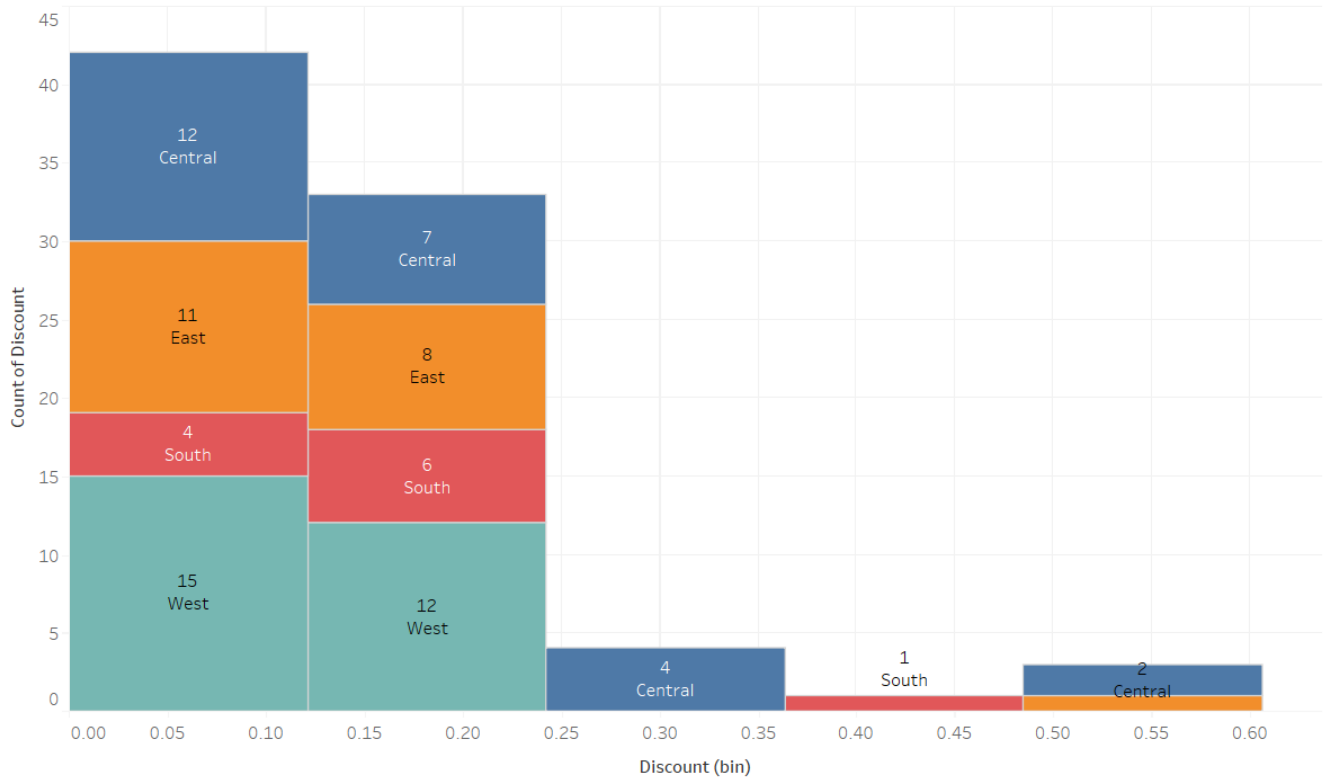
Filters
- Sub-Category
- Segment
- SUM(Sales)

Marks
- Bar
- Color | Size | Label | Detail | Tooltip
- Region
- CNT(Discount)
- Region

Columns: Discount (bin)

Rows: CNT(Discount)

Histogram



SUM(Sales) - Measure filter

300 3,083

Segment - Dimension Filter
- (All)
- ☑ Consumer
- Corporate
- ☑ Home Office

Sub-Category - Context Filter
- (All)
- Accessories
- ☑ ~~Appliances~~
- ☑ ~~Art~~
- Binders
- Bookcases
- Chairs
- Envelopes
- Fasteners
- Furnishings
- ☑ ~~Labels~~
- Paper
- ☑ ~~Phones~~
- Storage

Region
- Central
- East
- South
- West

Data Source | Box and Whisker plot | Scatter plot | Histogram | Bubble chart | Map | Line chart | Bar chart

12 marks 1 row by 1 column SUM of CNT(Discount): 83

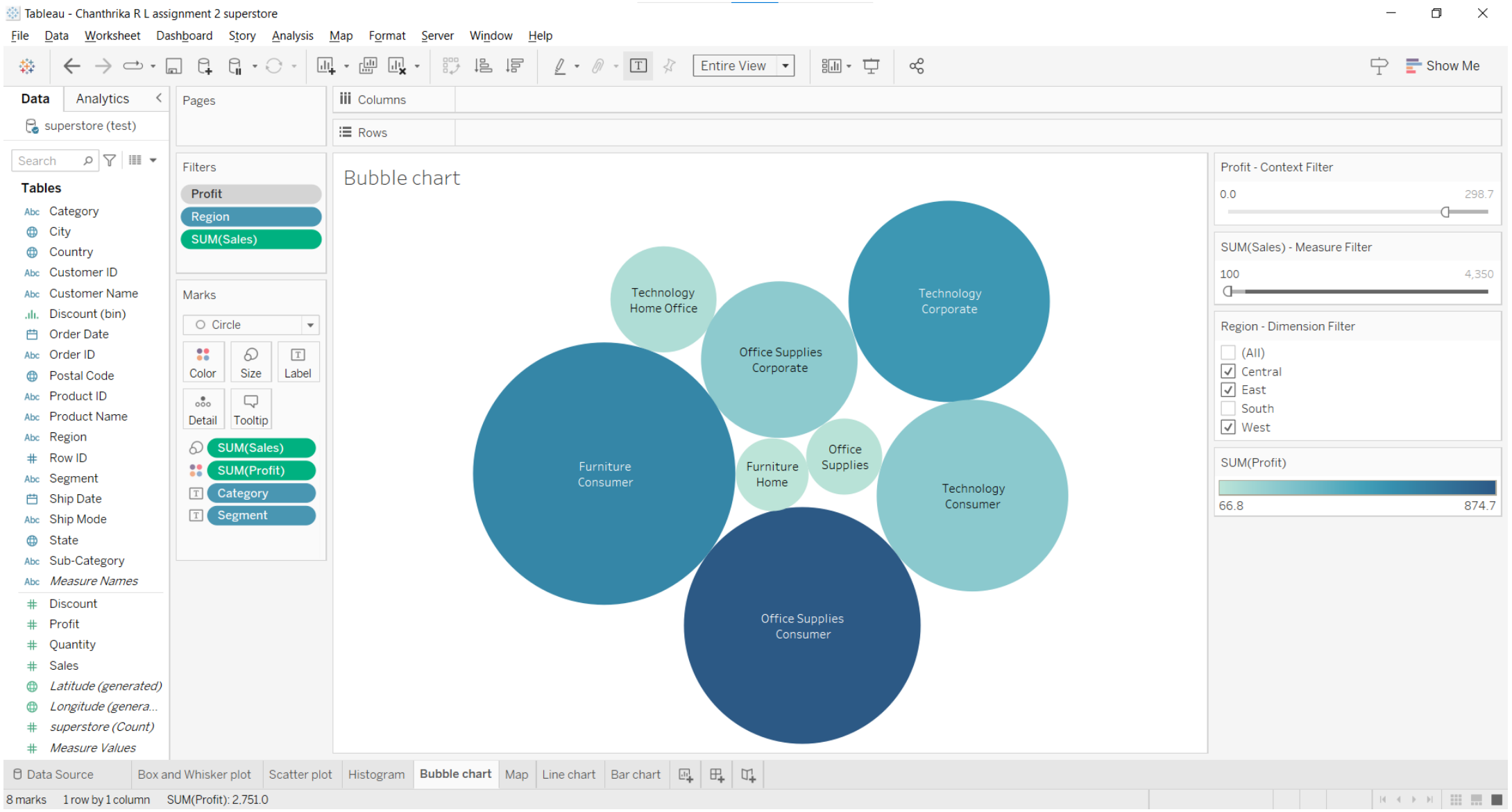


Tableau - Chanthrika R L assignment 2 superstore
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Entire View
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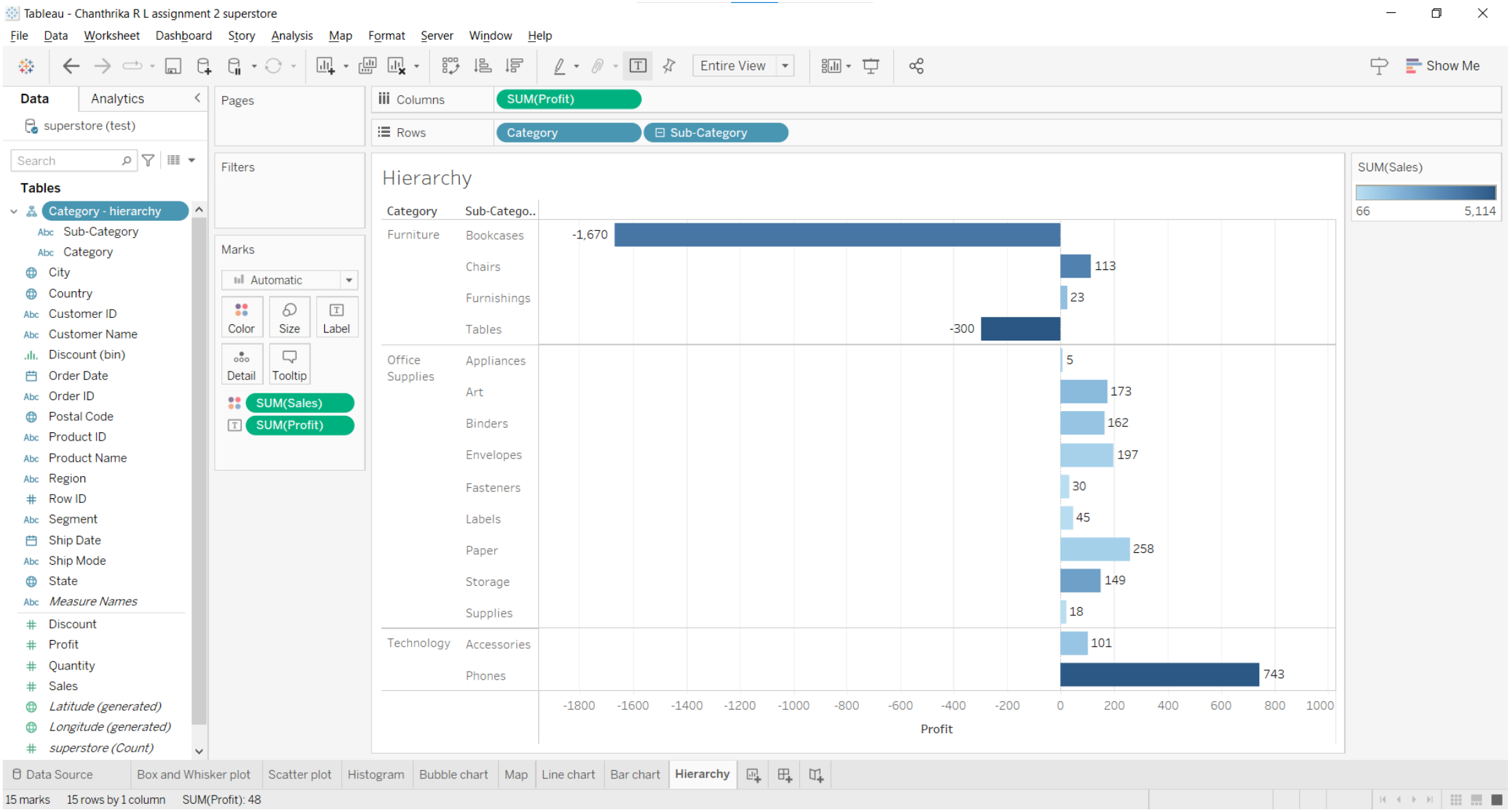
Data
Analytics
superstore (test)
Search
Tables
Abc Category
City
Country
Abc Customer ID
Abc Customer Name
Discount (bin)
Order Date
Abc Order ID
Postal Code
Abc Product ID
Abc Product Name
Abc Region
Row ID
Abc Segment
Ship Date
Abc Ship Mode
State
Abc Sub-Category
Abc Measure Names
Discount
Profit
Quantity
Sales
Latitude (generated)
Longitude (genera...
superstore (Count)
Measure Values
Pages
Columns
Rows
Filters
Profit
Region
SUM(Sales)
Marks
Circle
Color
Size
Label
Detail
Tooltip
SUM(Sales)
SUM(Profit)
Category
Segment
Bubble chart
Technology Home Office
Technology Corporate
Office Supplies Corporate
Furniture Consumer
Furniture Home
Office Supplies
Technology Consumer
Office Supplies Consumer
Profit - Context Filter
0.0
298.7
SUM(Sales) - Measure Filter
100
4,350
Region - Dimension Filter
(All)
Central
East
South
West
SUM(Profit)
66.8
874.7
Data Source
Box and Whisker plot
Scatter plot
Histogram
Bubble chart
Map
Line chart
Bar chart
8 marks
1 row by 1 column
SUM(Profit): 2,751.0

3) Perform the following data manipulations on your dataset

Create Hierarchy:



Create Set:

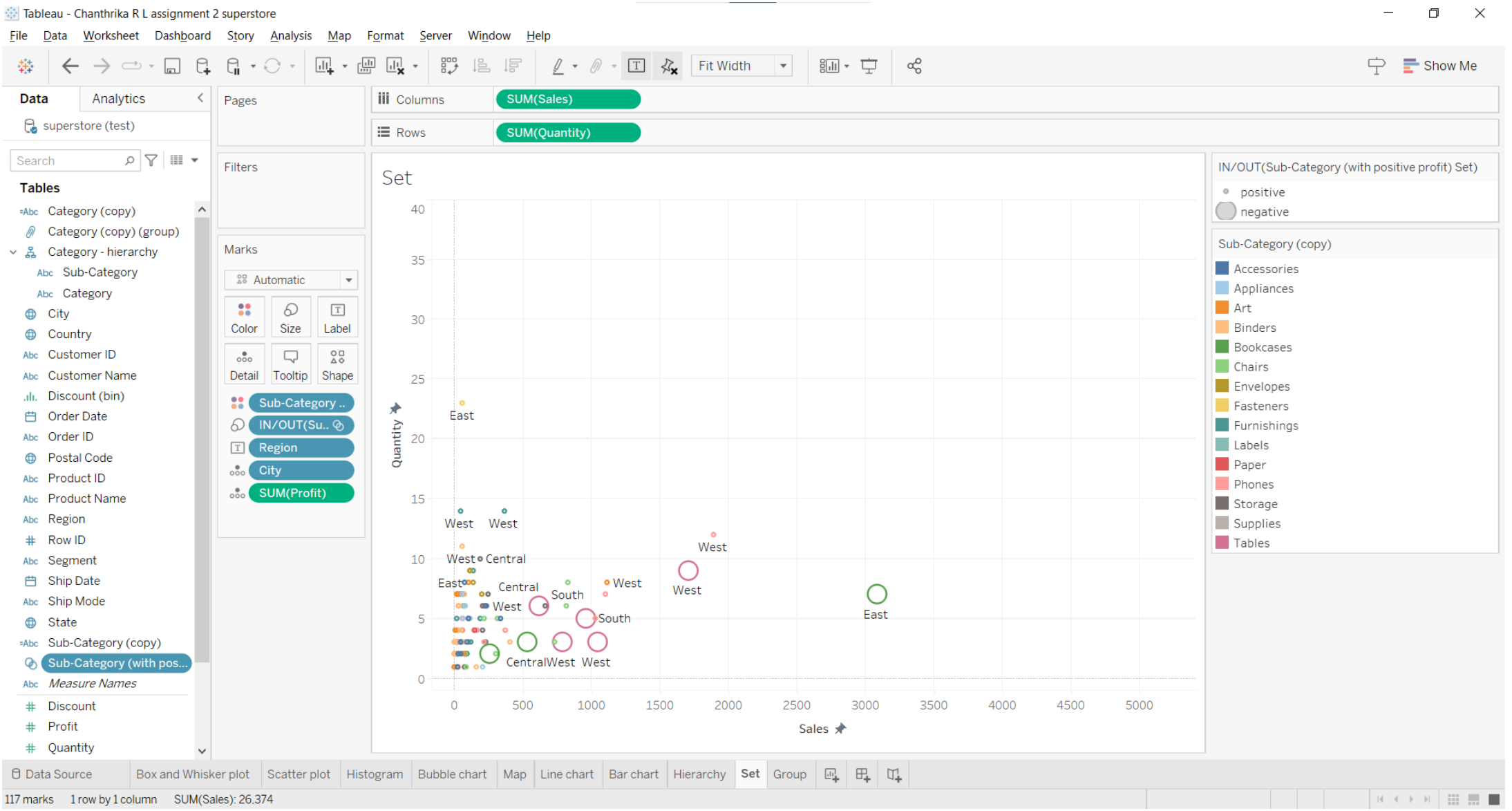
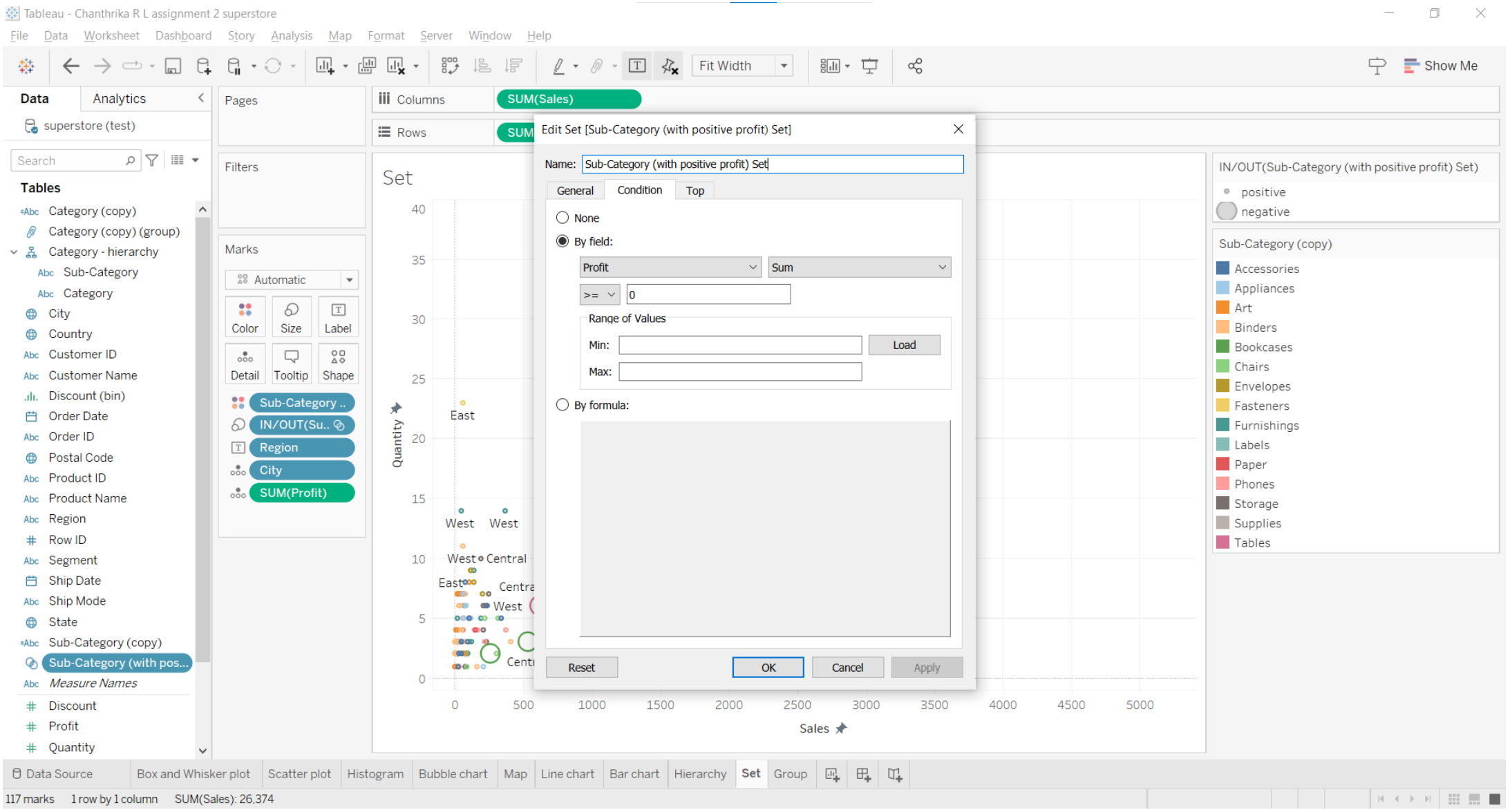


Tableau - Chanthrika R L assignment 2 superstore
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Fit Width
Show Me
Data
Analytics
superstore (test)
Search
Tables
Category (copy)
Category (copy) (group)
Category - hierarchy
Sub-Category
Category
City
Country
Customer ID
Customer Name
Discount (bin)
Order Date
Order ID
Postal Code
Product ID
Product Name
Region
Row ID
Segment
Ship Date
Ship Mode
State
Sub-Category (copy)
Sub-Category (with pos...
Measure Names
Discount
Profit
Quantity
Pages
Filters
Marks
Automatic
Color
Size
Label
Detail
Tooltip
Shape
Sub-Category ..
IN/OUT(Su..
Region
City
SUM(Profit)
Columns
SUM(Sales)
Rows
SUM(Quantity)
Set
Quantity
Sales
IN/OUT(Sub-Category (with positive profit) Set)
positive
negative
Sub-Category (copy)
Accessories
Appliances
Art
Binders
Bookcases
Chairs
Envelopes
Fasteners
Furnishings
Labels
Paper
Phones
Storage
Supplies
Tables
Data Source
Box and Whisker plot
Scatter plot
Histogram
Bubble chart
Map
Line chart
Bar chart
Hierarchy
Set
Group
117 marks
1 row by 1 column
SUM(Sales): 26,374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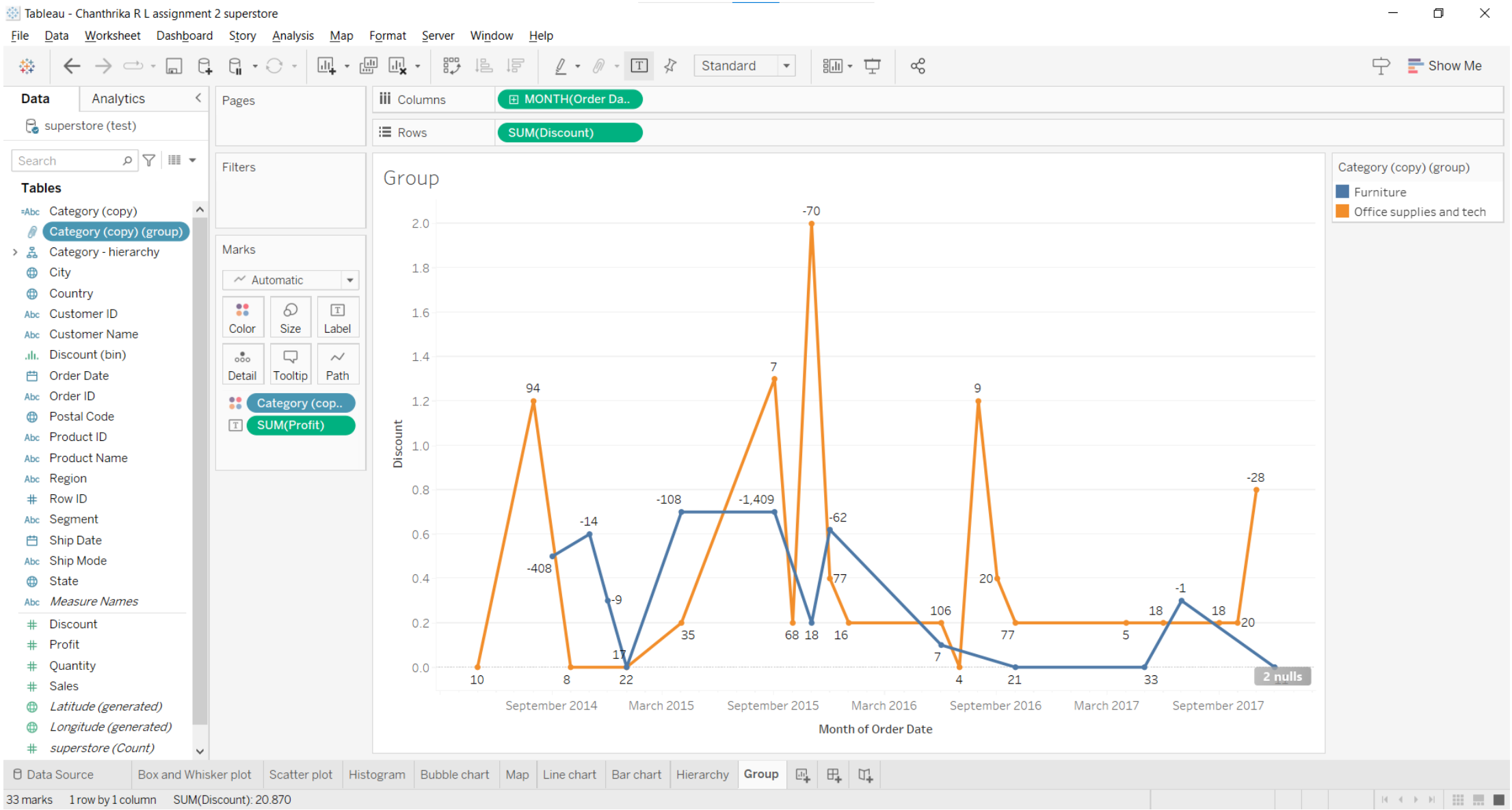
Fit Width
Show Me
Data
Analytics
superstore (test)
Search
Tables
Category (copy)
Category (copy) (group)
Category - hierarchy
Sub-Category
Category
City
Country
Customer ID
Customer Name
Discount (bin)
Order Date
Order ID
Postal Code
Product ID
Product Name
Region
Row ID
Segment
Ship Date
Ship Mode
State
Sub-Category (copy)
Sub-Category (with pos...
Measure Names
Discount
Profit
Quantity
Pages
Filters
Marks
Automatic
Color
Size
Label
Detail
Tooltip
Shape
Sub-Category ..
IN/OUT(Su..
Region
City
SUM(Profit)
Columns
SUM(Sales)
Rows
SUM
Edit Set [Sub-Category (with positive profit) Set]
Name: Sub-Category (with positive profit) Set
General
Condition
Top
None
By field:
Profit
Sum
>=
0
Range of Values
Min:
Max:
Load
By formula:
Reset
OK
Cancel
Apply
Set
Quantity
Sales
East
West
Central
IN/OUT(Sub-Category (with positive profit) Set)
positive
negative
Sub-Category (copy)
Accessories
Appliances
Art
Binders
Bookcases
Chairs
Envelopes
Fasteners
Furnishings
Labels
Paper
Phones
Storage
Supplies
Tables
Data Source
Box and Whisker plot
Scatter plot
Histogram
Bubble chart
Map
Line chart
Bar chart
Hierarchy
Set
Group
117 marks
1 row by 1 column
SUM(Sales): 26.374

Create Group:



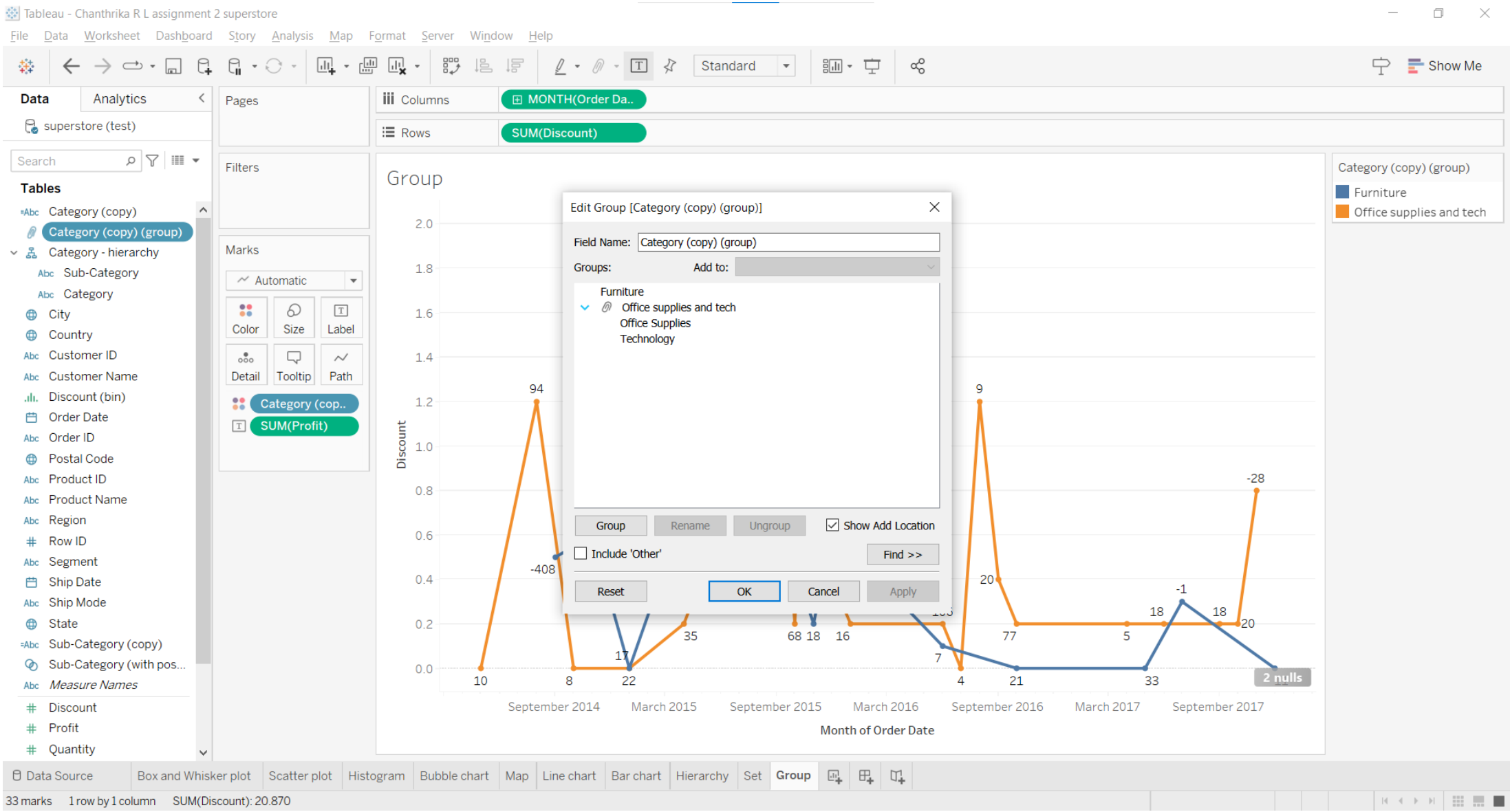


Tableau - Chanthrika R L assignment 2 superstore
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data
Analytics
superstore (test)
Search
Tables
Category (copy)
Category (copy) (group)
Category - hierarchy
Sub-Category
Category
City
Country
Customer ID
Customer Name
Discount (bin)
Order Date
Order ID
Postal Code
Product ID
Product Name
Region
Row ID
Segment
Ship Date
Ship Mode
State
Sub-Category (copy)
Sub-Category (with pos...
Measure Names
Discount
Profit
Quantity
Pages
Filters
Marks
Automatic
Color
Size
Label
Detail
Tooltip
Path
Category (cop..
SUM(Profit)
Columns
MONTH(Order Da..
Rows
SUM(Discount)
Group
Edit Group [Category (copy) (group)]
Field Name: Category (copy) (group)
Groups:
Add to:
Furniture
Office supplies and tech
Office Supplies
Technology
Group
Rename
Ungroup
Show Add Location
Include 'Other'
Find >>
Reset
OK
Cancel
Apply
Category (copy) (group)
Furniture
Office supplies and tech
Discount
Month of Order Date
September 2014
March 2015
September 2015
March 2016
September 2016
March 2017
September 2017
2 nulls
Data Source
Box and Whisker plot
Scatter plot
Histogram
Bubble chart
Map
Line chart
Bar chart
Hierarchy
Set
Group
33 marks
1 row by 1 column
SUM(Discount): 20.870