

Activity 3

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Tutorial 1 :

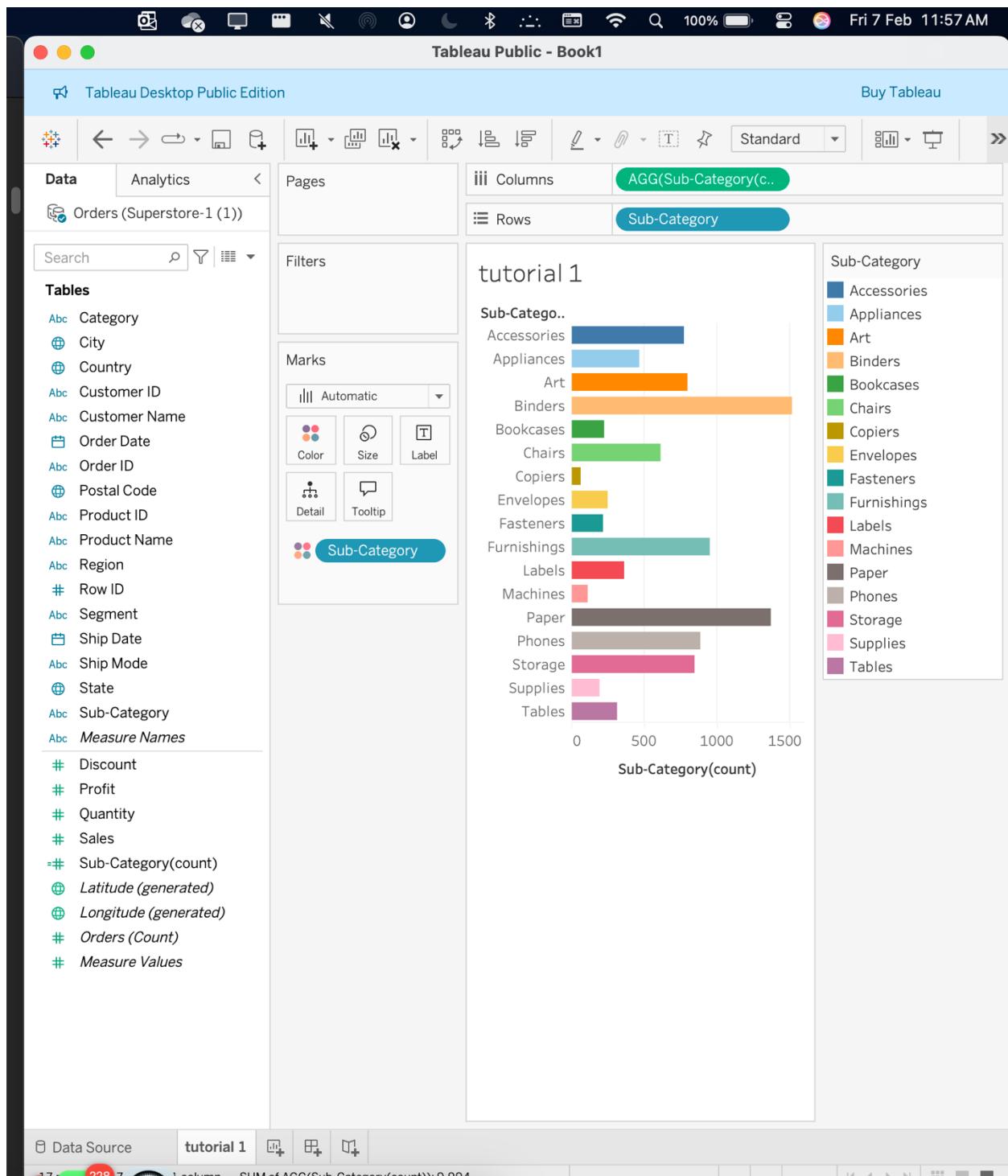
Step 1 : uploading the required excel files into the tableau and then creating a calculated field.

The screenshot shows the Tableau Desktop Public Edition interface. On the left, the Data pane displays a single data source: 'Orders (Superstore-1 (1))'. The main workspace is titled 'tutorial 1' and contains a single blank sheet. A context menu is open over the workspace, with the top item being 'Calculation1'. This calculation dialog box is centered and contains the text 'Calculation1' in its input field. At the bottom right of the dialog are two buttons: 'Apply' and 'OK'. The status bar at the bottom of the screen shows the file name 'tutorial 1' and some other status indicators.

Step 2 : Sub-Category(count) and type the function Count (Sub-Category)

The screenshot shows the Tableau Desktop Public Edition interface. The top bar displays the title "Tableau Public - Book1" and the date "Fri 7 Feb 11:52 AM". The left sidebar contains a "Data" tab selected, showing a list of fields from the "Orders (Superstore-1 (1))" data source. Fields include Category, City, Country, Customer ID, Customer Name, Order Date, Order ID, Postal Code, Product ID, Product Name, Region, Row ID, Segment, Ship Date, Ship Mode, State, Sub-Category, Measure Names, Discount, Profit, Quantity, Sales, and Sub-Category(count). The "Sub-Category(count)" field is highlighted with a green rounded rectangle. The main workspace is titled "tutorial 1" and features two blank white canvases with "Drop field here" placeholder text. The bottom navigation bar includes tabs for "Data Source" and "tutorial 1", along with other standard Tableau icons.

Step 3 : graph visualization. We can see binders have the highest count and copiers the least.



Question 1 .a

Setting up the calculate field editor.

Fri 7 Feb 12:01 PM

Tableau Public - Book1

Tableau Desktop Public Edition

Buy Tableau

Data Analytics < Pages Columns Rows

Orders (Superstore-1 (1))

Search

Tables

Calculation1

Abc Category
Abc City
Abc Country
Abc Customer ID
Abc Customer Name
Abc Order Date
Abc Order ID
Abc 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
-# Sub-Category(count)
Latitude (generated)
Longitude (generated)
Orders (Count)
Measure Values

Drop field here

Drop field here

Apply OK

Data Source tutorial 1 question 1

The screenshot shows the Tableau desktop interface with a calculation dialog box open. The dialog box has a title 'Calculation1' and two buttons at the bottom: 'Apply' and 'OK'. The main area of the dialog is empty. In the background, the Tableau interface shows a data source named 'tutorial 1' and a sheet named 'question 1'. The sidebar on the left lists various dimensions and measures from the Superstore dataset, including Category, City, Country, Customer ID, Customer Name, Order Date, Order ID, Postal Code, Product ID, Product Name, Region, Row ID, Segment, Ship Date, Ship Mode, State, Sub-Category, Measure Names, and several generated measures like Profit, Quantity, and Sales.

Question 1.b

$\text{SUM}([\text{Profit}])/\text{SUM}([\text{Sales}])$

Fri 7 Feb 12:03 PM

Tableau Public - Book1

Tableau Desktop Public Edition

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Data Analytics <

Orders (Superstore-1 (1))

Search

Tables

- Abc Category
- ⊕ City
- ⊕ Country
- Abc Customer ID
- Abc Customer Name
- ⊕ 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

Measure Names

- # Discount
- # Profit
- # Profit Ratio
- # Quantity
- # Sales
- # Sub-Category(count)
- ⊕ Latitude (generated)
- ⊕ Longitude (generated)
- # Orders (Count)
- # Measure Values

Pages

Columns

Rows

question 1

Drop field here

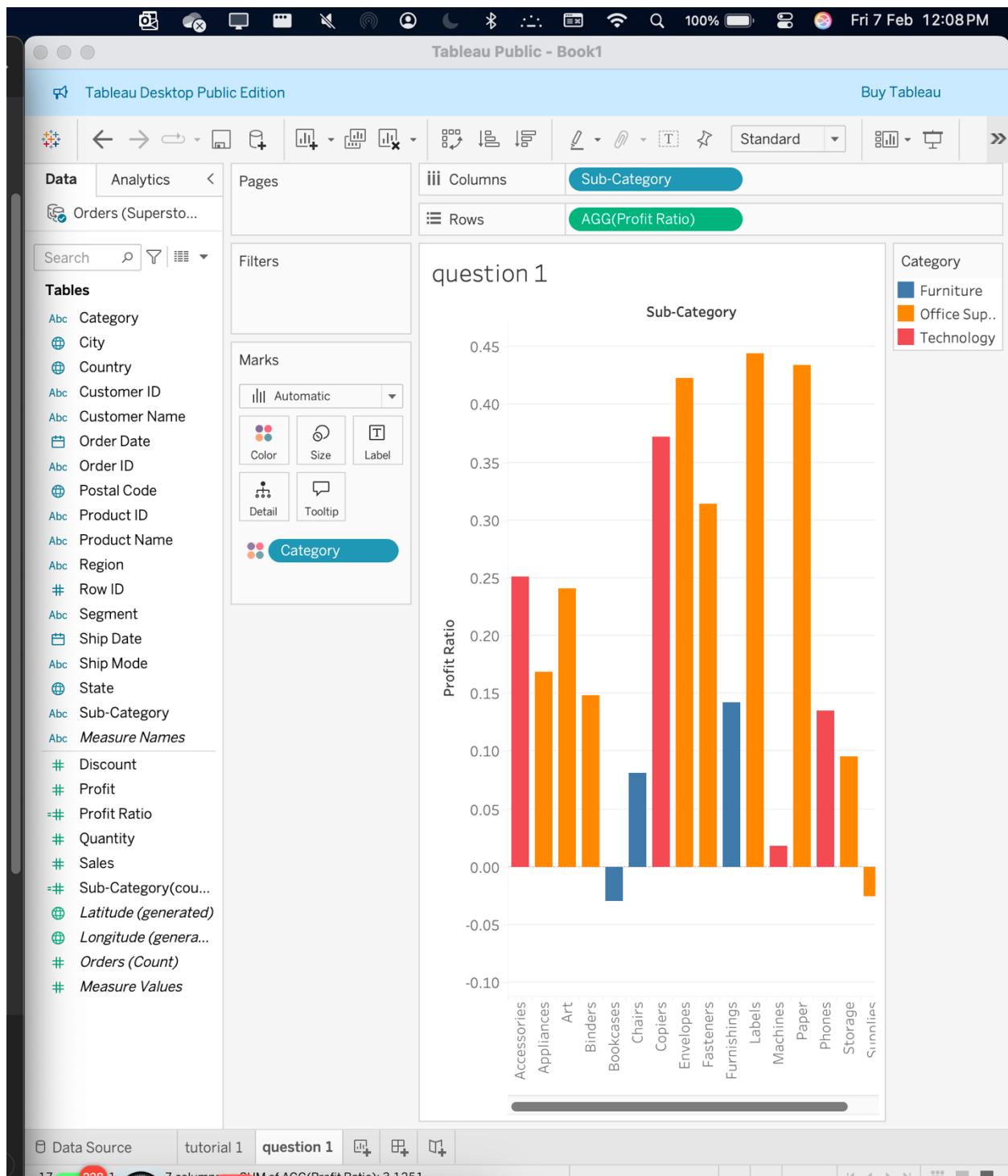
Drop field here

Drop field here

Data Source tutorial 1 question 1

The screenshot shows the Tableau desktop interface with a dashboard titled 'question 1'. The dashboard has three empty data shelves labeled 'Drop field here'. The left sidebar lists various fields from the 'Orders (Superstore-1)' data source. The 'Profit Ratio' field is highlighted with a green background. The bottom navigation bar shows 'Data Source' and 'tutorial 1'.

Question 1.c.



Understanding :

Here , when positioning the $\text{SUM}([\text{Profit}])/\text{SUM}([\text{Sales}])$ on the rows and the sub category placed on the columns shelf , we can have a proper bar chart which basically shows “ margin of profit” per each sub category present over there .

Tutorial 2:

Interactivity in the visualizations with filters.

Step 1: worksheet source and destination.

The screenshot shows the Tableau Desktop Public Edition interface with two workbooks open: "Book1" and "Book2".

Book1 (Source Workbook):

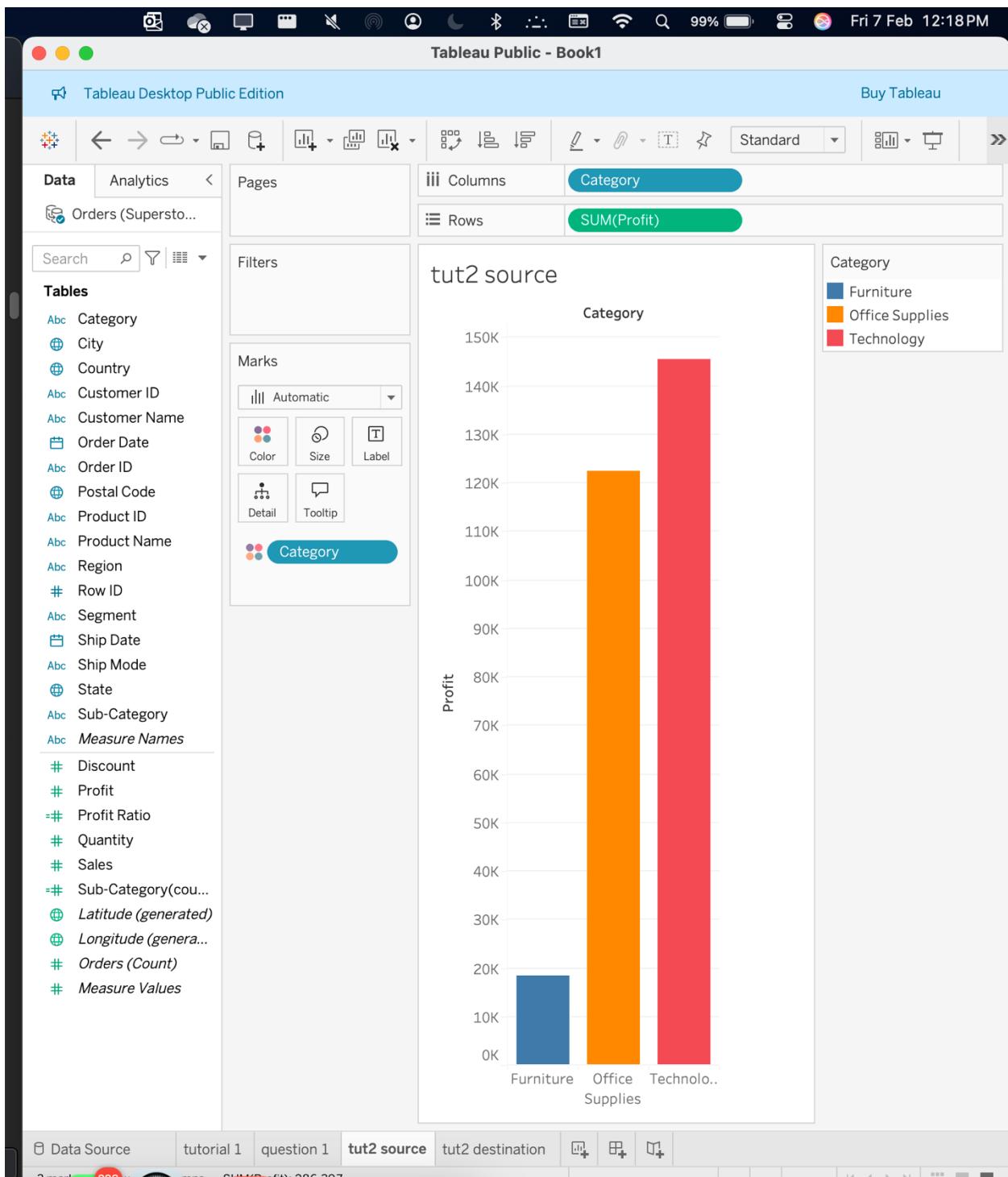
- Pages:** Contains "tut2 source".
- Filters:** Empty.
- Marks:** Set to "Automatic". Options include Color, Size, Text, Detail, and Tooltip.
- Fields:** A large list of fields from the "Orders (Superstore)" data source, categorized under "Tables".

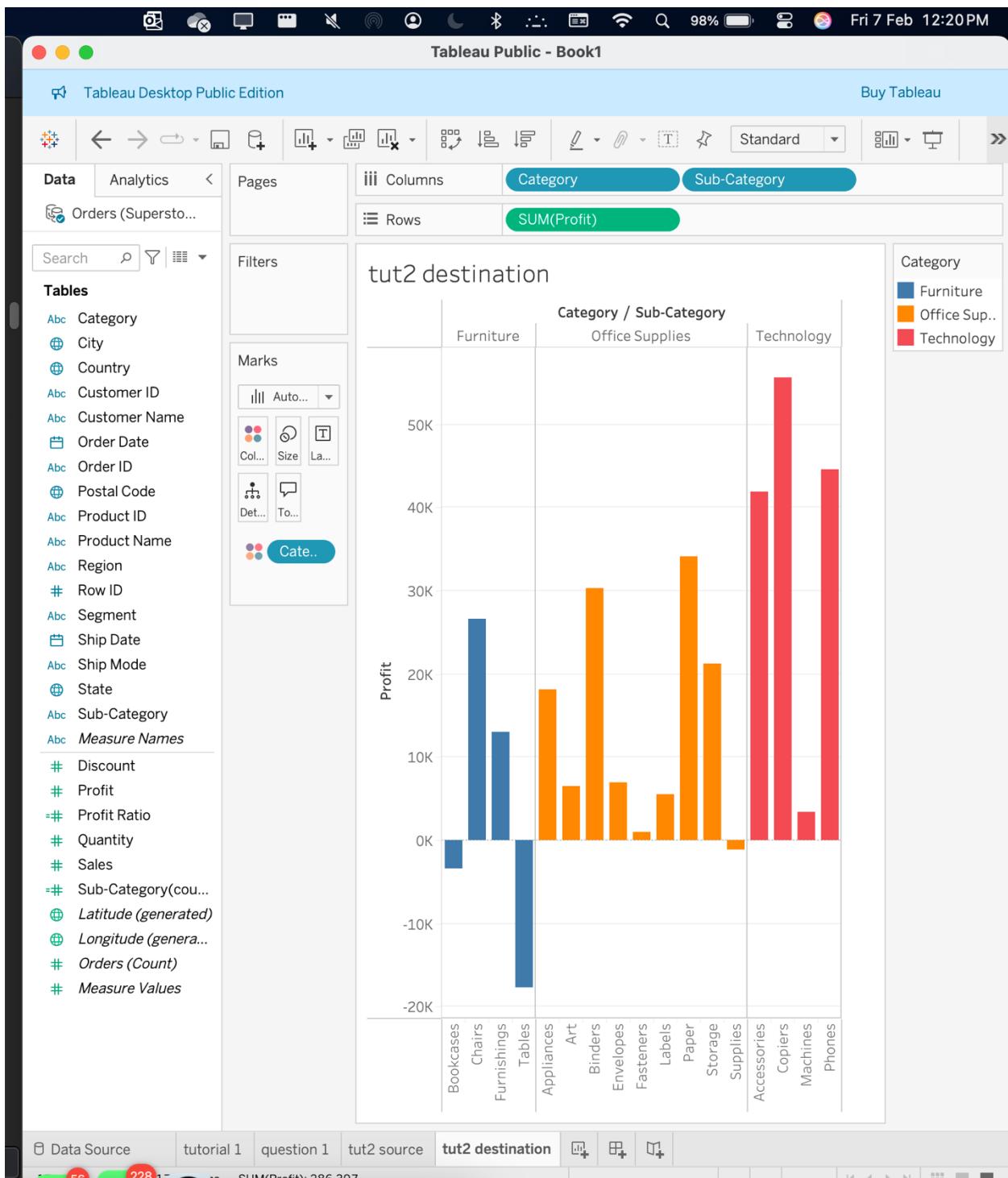
Book2 (Destination Workbook):

- Pages:** Contains "tut2 destination".
- Filters:** Empty.
- Marks:** Empty.
- Fields:** A large list of fields from the "Orders (Superstore)" data source, categorized under "Tables".

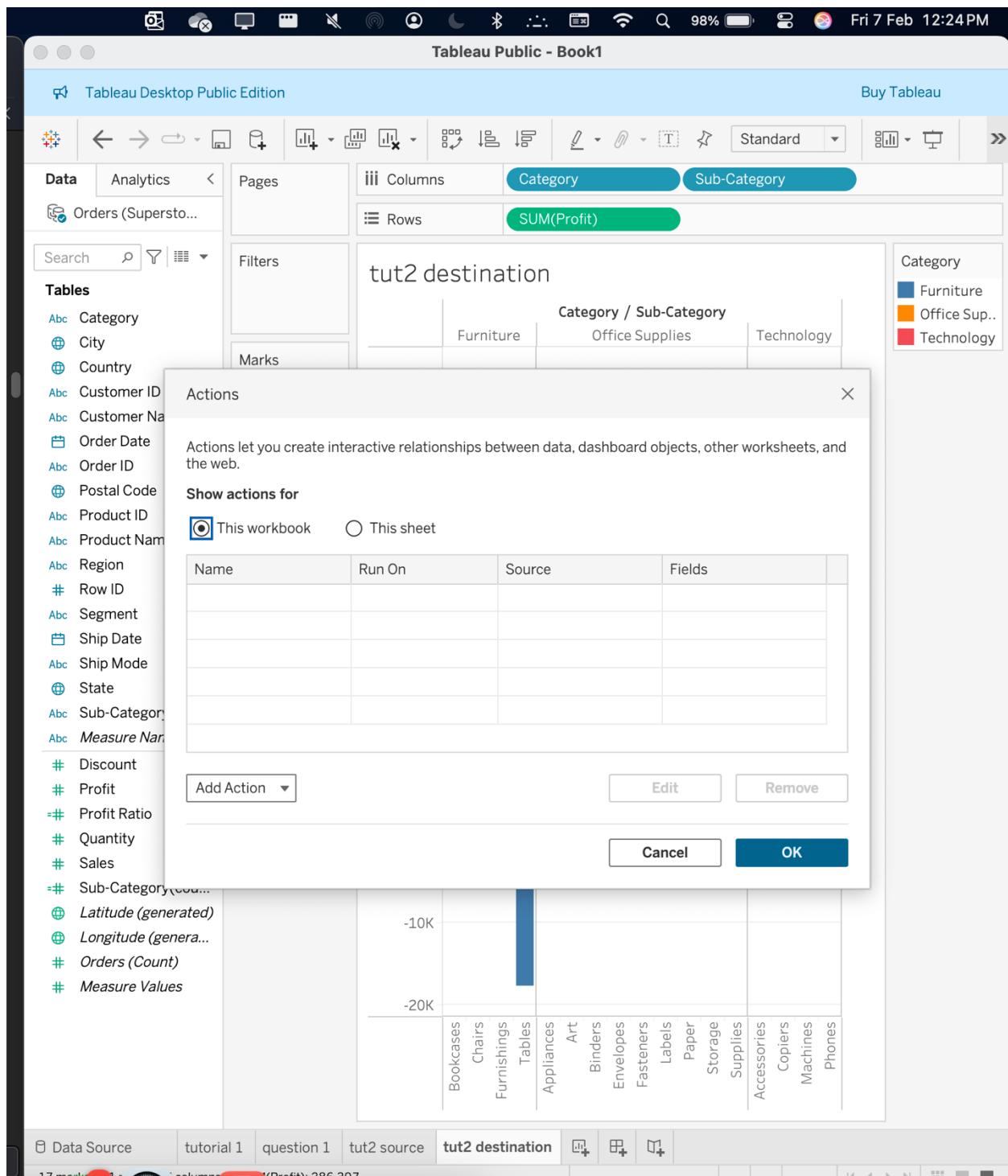
The status bar at the bottom shows the date and time: Fri 7 Feb 12:15 PM.

Step 2: source and destination worksheets setup .

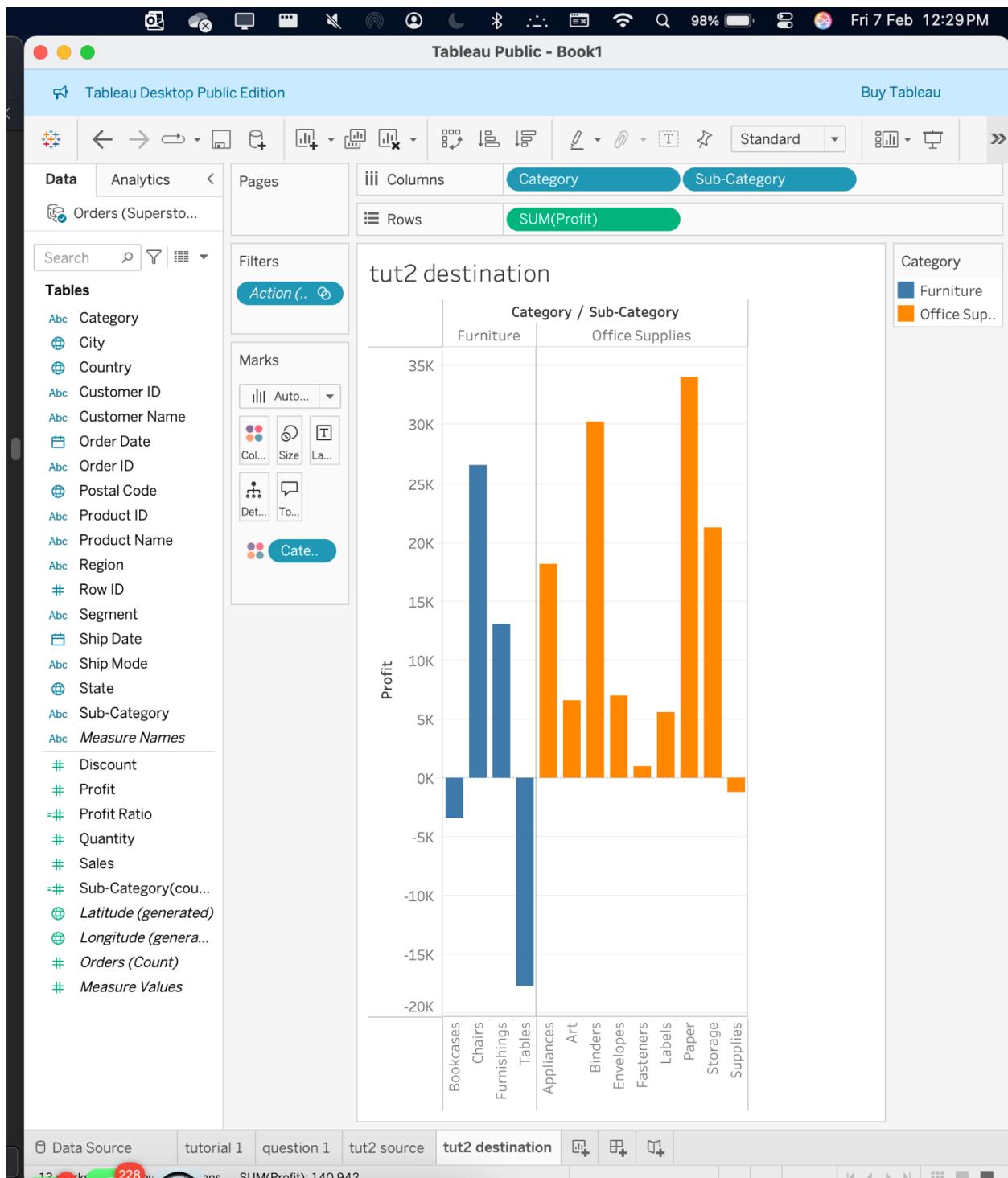




Step 3 :

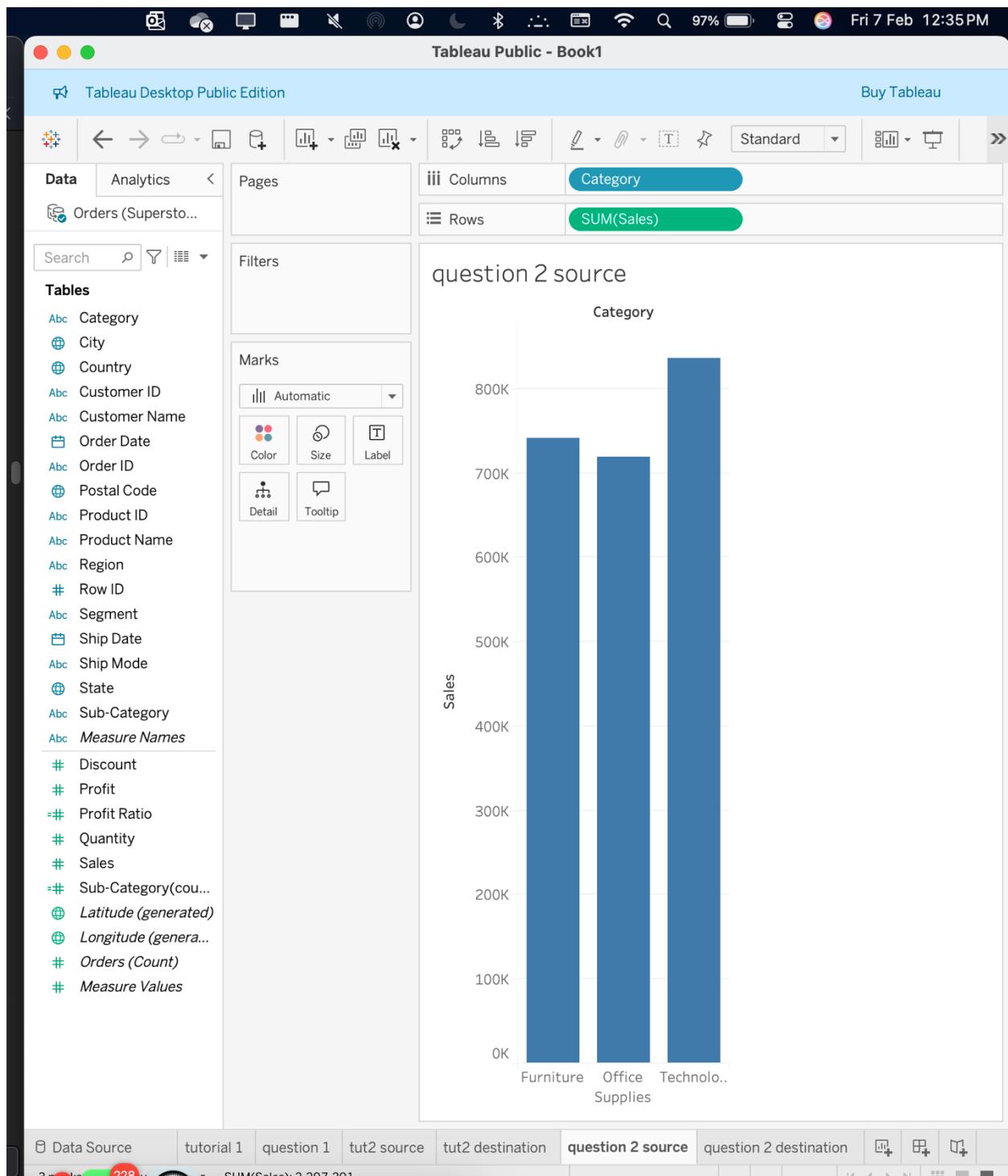


Step 4 : applying a action filter and it provides interactivity based on what we choose.



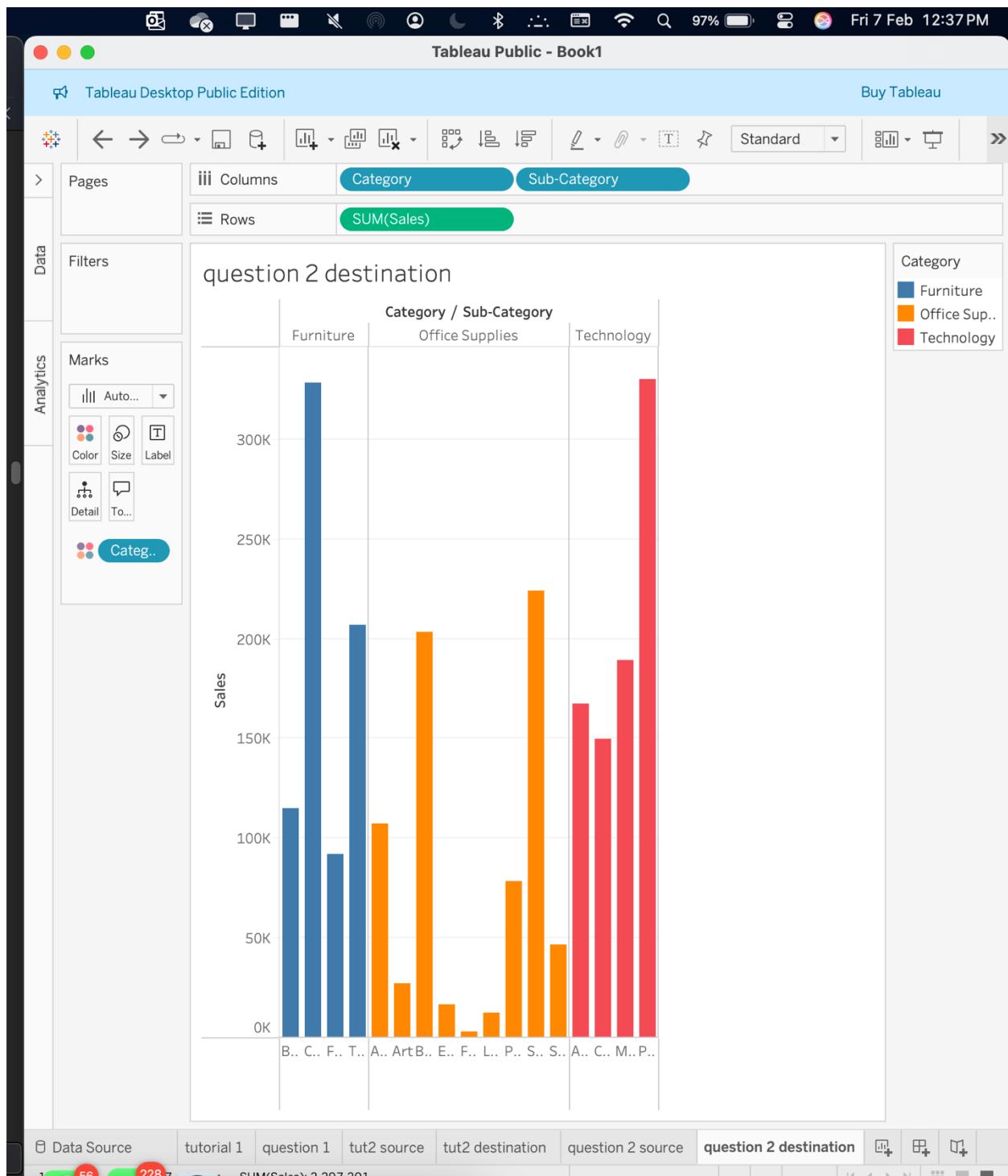
Question 2. a : (Sales-Category) as the source sheet

put Sales in the rows and Category in the column.



Question 2.b

(Sales-Subcategory) as the destination sheet



Question 2.c.

Interactivity: selecting the source and destination sheets.

Fri 7 Feb 12:40PM

Tableau Public - Book1

Tableau Desktop Public Edition

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Data Analytics Pages Columns Category

Orders (S)

Search

Tables

Abc Category
Abc City
Abc Country
Abc Customer
Abc Customer
Order Date
Abc Order ID
Postal Code
Abc Product
Abc Product
Abc Region
Row ID
Abc Segment
Ship Date
Abc Ship Mode
State
Abc Sub-Cat
Abc Measure
Discount
Profit
Profit Rate
Quantity
Sales
Sub-Cat
Latitude
Longitude
Orders (S)
Measure

Edit Filter Action

Name: question2 filter

Source Sheets: Orders (Superstore-1 (1))

Run action on:

- Hover
- Select
- Menu
- Single-select only

Target Sheets: question 2 destination

Clearing the selection will:

- Keep filtered values
- Show all values
- Exclude all values

Filter:

- All fields
- Selected fields

Source Field	Target Data Source	Target Field
Click to add		

Remove

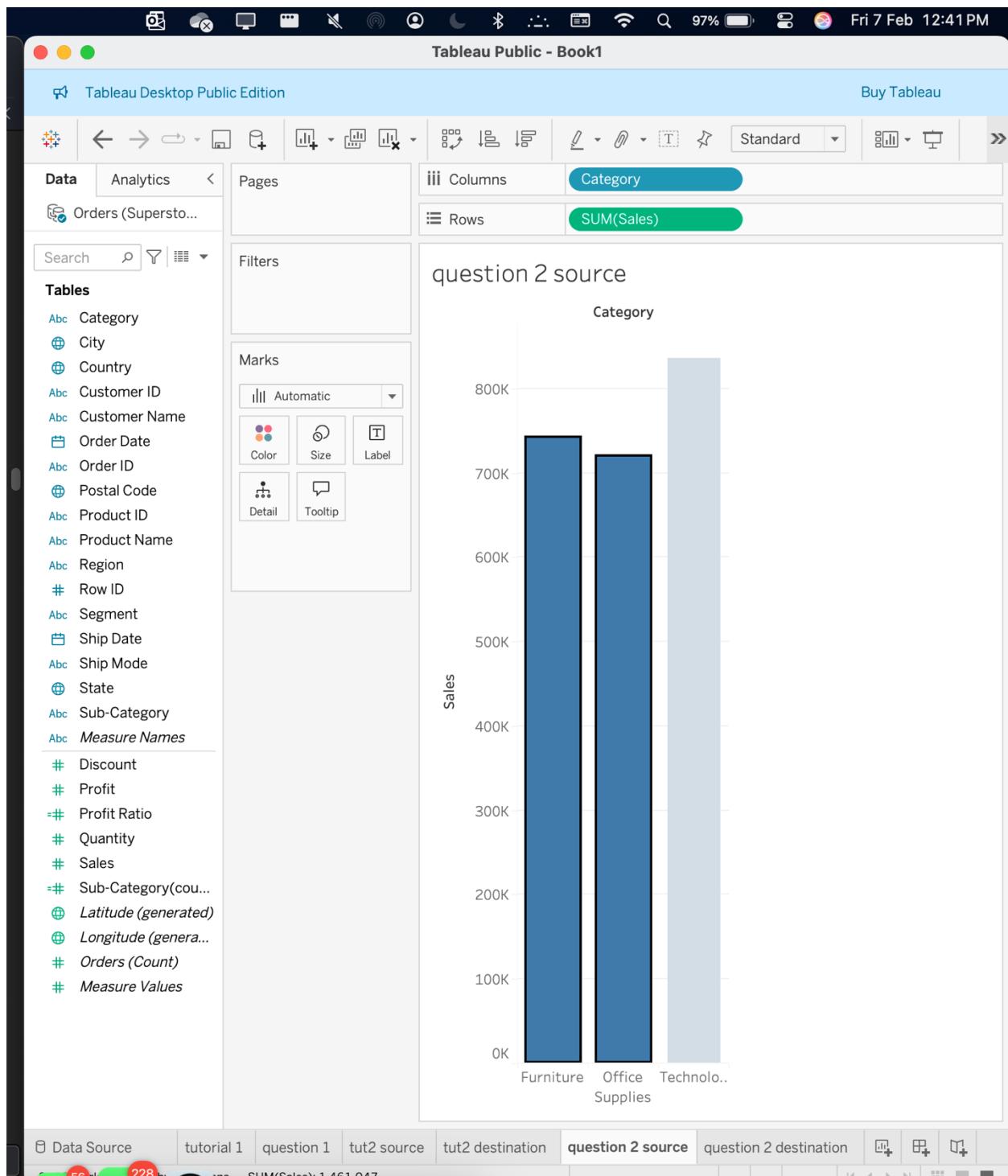
Cancel OK

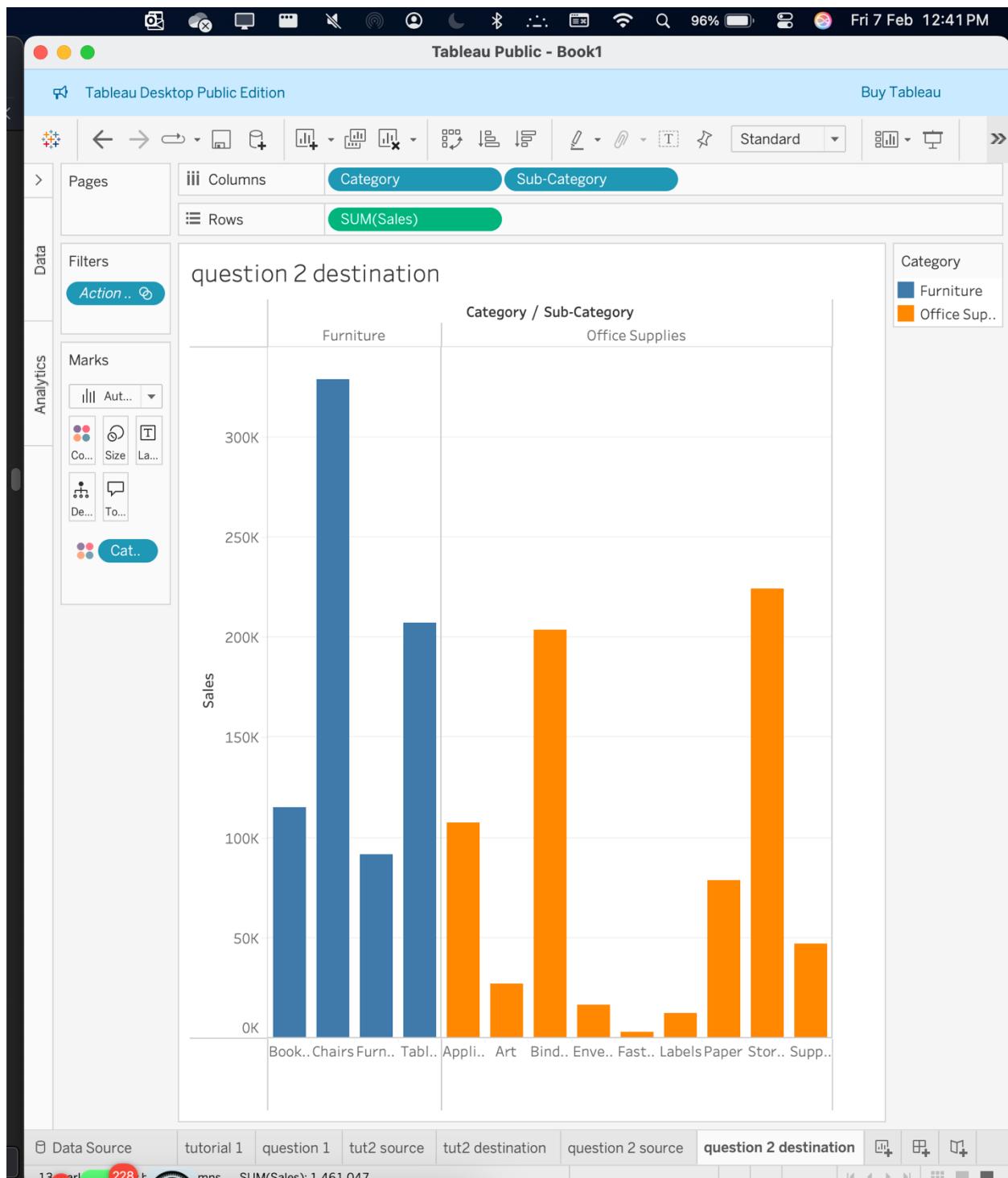
Furniture Office Technolo..
Supplies

Data Source tutorial 1 question 1 tut2 source tut2 destination question 2 source question 2 destination

1 of 3 rows 1 columns SUM(Sales): 742,000

Question 2.d : I have selected furniture and office supplies in the source and it got reflected in the destination .

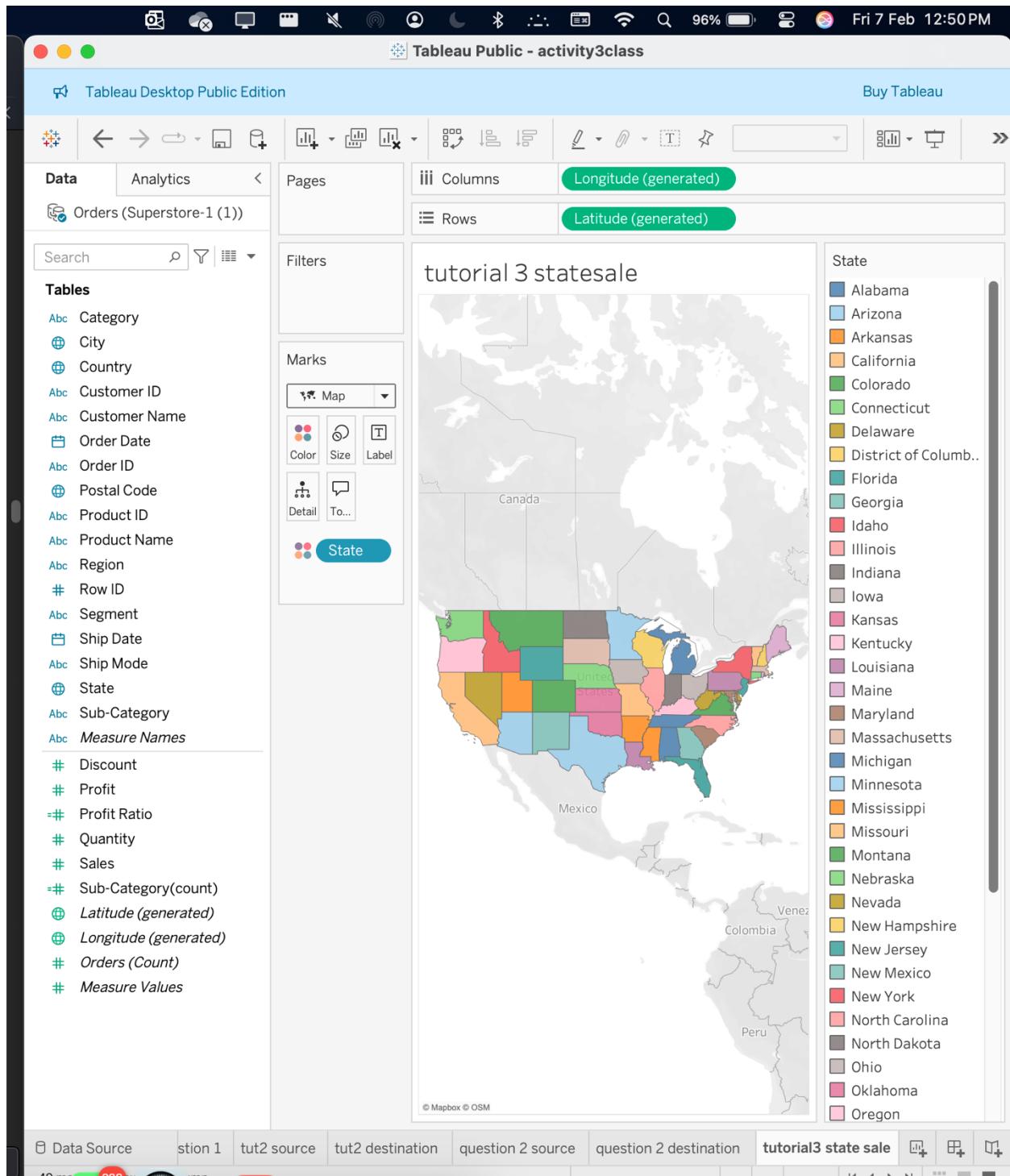


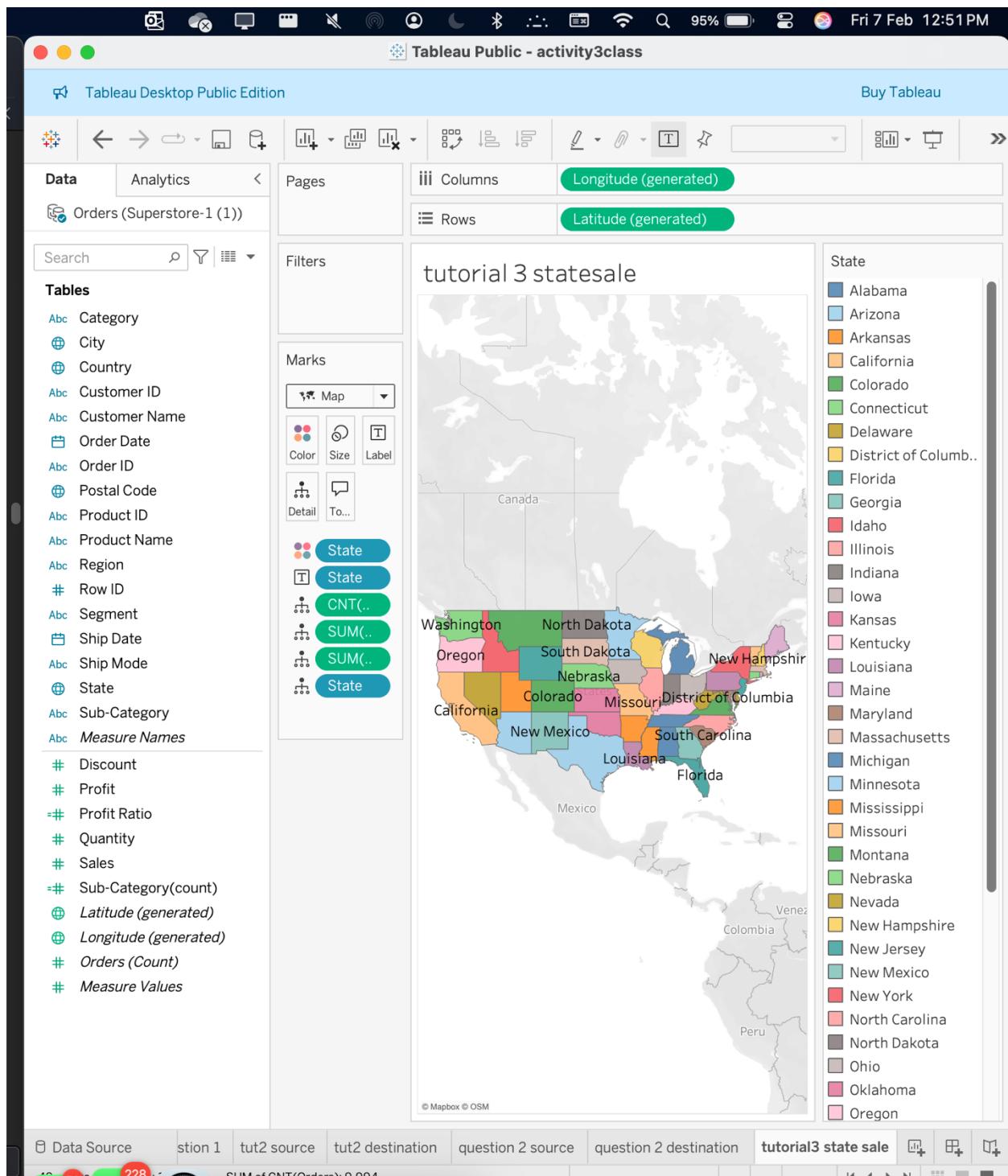


Tutorial 3 :

Interactivity with url :

Step 1 :





Step 2 : adding url

Tableau Desktop Public Edition

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Data Analytics < Pages Columns Longitude (generated)

Orders (Superstore-1 (1)) Rows Latitude (generated)

Search

Tables

Category, City, Country, Customer ID, Customer Name, Order Date, Order ID, Postal Code, Product ID, Product Name, Region, Row ID, Segment, Ship Date, Ship Mode, State, Sub-Category, Measure Name, Discount, Profit, Profit Ratio, Quantity, Sales, Sub-Category, Latitude (generated), Longitude (generated), Orders (Count), Measure Values

Pages

Filters Marks

tutorial 3 statesale

Actions

Actions let you create interactive relationships between data, dashboard objects, other worksheets, and the web.

Show actions for

This workbook This sheet

Name	Run On	Source	Fields
question2 filter	Select	Orders (Superstore-1 (1))	All
Filter1	Select	Orders (Superstore-1 (1))	All
tutorial3 stateinfo	Select	Orders (Superstore-1 (1))	State

Add Action ▾

Edit Remove

Cancel OK

© Mapbox © OSM

Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon

Step 3 : got state's Wikipedia when I click on the state on the tutorial sheet.

Safari File Edit View History Bookmarks Window Help

Profit Ra... Utah - W... en.wiki Log in ...

WIKIPEDIA The Free Encyclopedia

Photograph your local culture, help Wikipedia and win!

Nebraska

Article Talk Read Edit View history Tools Checked

From Wikipedia, the free encyclopedia

This article is about the U.S. state. For other uses, see [Nebraska \(disambiguation\)](#).

Nebraska (nəˈbræska) (ne-*BRASS-ka*)^[17] is a landlocked state in the Midwestern region of the United States. It borders South Dakota to the north; Iowa to the east and Missouri to the southeast, both across the Missouri River; Kansas to the south; Colorado to the southwest; and Wyoming to the west. Nebraska is the 16th-largest state by land area, with just over 77,220 square miles (200,000 km²). With a population of over 2 million as of 2024,^[3] it is the 38th-most populous state and the eighth-least densely populated. Its capital is Lincoln, and its most populous city is Omaha, which is on the Missouri River. Nebraska was admitted into the United States in 1867, two years after the end of the [American Civil War](#). The [Nebraska Legislature](#) is unlike any other American legislature in that it is [unicameral](#), and its members are elected without any official reference to [political party affiliation](#). Nebraska is one of only two states that divide electoral college votes by district, and is not winner-take-all.^[18]

Nebraska is composed of two major land regions: the [Dissected Till Plains](#) and the [Great Plains](#). The Dissected Till Plains region consists of gently rolling hills and contains the treeless [prairie](#). Eastern Nebraska has a [humid continental](#)

Get citation Omaha and Lincoln. The Great Plains of western Nebraska, is characterized by treeless prairie. Eastern Nebraska has a humid continental

Tables Data Analytics Orders (Superstore-1 (1)) Pages

Search Filters

Marks

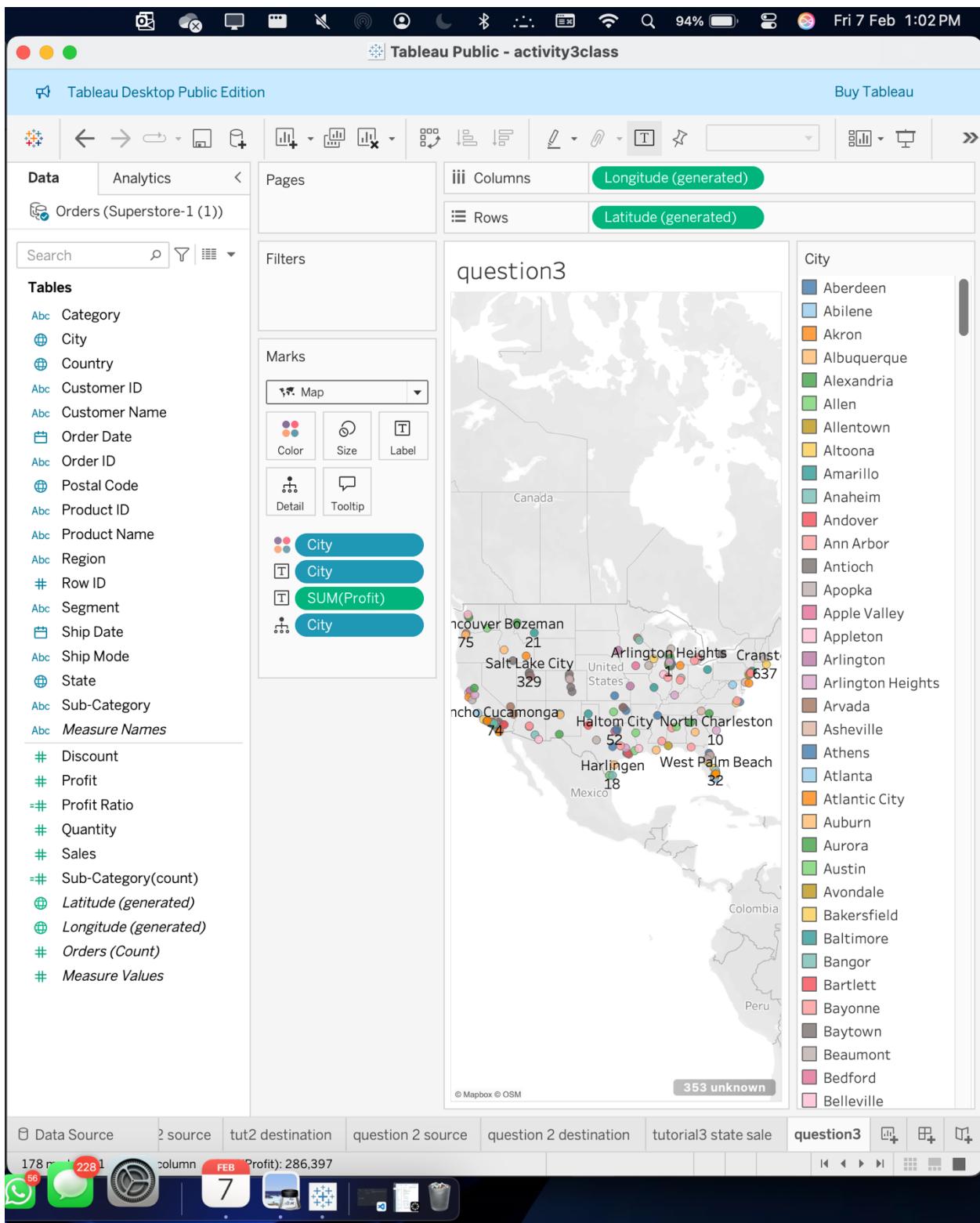
Tables

State

tutorial 3 statesale

© Mapbox © OSM

Question 3 .a



Question 3.b adding the url

Safari File Edit View History Bookmarks Window Help

Wikipedia The Free Encyclopedia

Photograph your local culture, help Wikipedia and win!

North Charleston, South Carolina

47 languages

Read Edit View history Tools

Coordinates: 32°53'7"N 80°1'1"W

North Charleston

City

North Charleston City Hall

Flag Seal Logo

Motto(s): "A great place to live, work, and play"
"Perseverance - Progress - Prosperity"

Map showing North Charleston, South Carolina, including Goose Creek and surrounding areas.

History [edit]

1680–1901: Plantations [edit]

From the 17th century until the Civil War, plantations cultivated commodity crops, such as rice and indigo. Some of the plantations in what is now North Charleston were:

- Archdale Hall Plantation – dating from 1680, Archdale Hall was on the Ashley River. By 1783, it had grown to almost 3,000 acres (12 km²). Its primary crops were indigo and rice. The plantation was the longest family-owned

Get citation [edit]

North Carolina. It has since been redeveloped into the Archdale subdivision. (Archdale subdivision is not in corporate city limits of, but is

Tableau Desktop Public Edition

Tables

Filters

Marks

Columns

Rows

question 2 destination

Category / ..

Office Furn... Supp..

Sales

Category

Sub-Category

Category

Office Furn... Supp..

Furniture

Office Sup...

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Question 3.c : Wichita

Safari File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Wikipedia The Free Encyclopedia

Wichita

26 languages

Article Talk Read Edit View history Tools

From Wikipedia, the free encyclopedia

Wichita (/wɪtʃɪtə, -tə/ WITCH-ih-taw, -tah) may refer to:

Look up Wichita in Wiktionary, the free dictionary.

People [edit]

- Wichita people, a Native American tribe
- Wichita language, the language of the tribe

Places in the United States [edit]

- Wichita, Kansas, a city located in Sedgwick County
- Wichita County, Kansas, a county in western Kansas
- Wichita Falls, Texas, a city
- Wichita County, Texas
- Wichita Mountains

In the military [edit]

- Wichita-class cruiser, a heavy cruiser class of the US Navy
 - USS Wichita (CA-45), the only ship of the class; active in World War II
- Wichita-class replenishment oiler, a class of US Navy oilers from the late 1960s to the mid-1990s
 - USS Wichita (AOE-1), the lead ship of the class; in service from 1969 to 1993
- Beechcraft AT-10 Wichita, a World War II trainer airplane for the United States Army Air Forces

In entertainment [edit]

- Wichita (1955 film), a 1955 American Western movie directed by Jacques Tourneur
- of a proposed movie, eventually made as Knight and Day starring Cameron Diaz and
- Wichita Recordings, a London-based independent record label

Tableau Desktop Public Edition

Tables

Filters

Marks

Columns

Rows

question3

City

Oxnard

Palatine

Palm Coast

Park Ridge

Parker

Parma

Pasadena

Pasco

Passaic

Patterson

Pearland

Pembroke Pines

Pensacola

Peoria

Perth Amboy

Pharr

Philadelphia

Phoenix

Pico Rivera

Pine Bluff

Plainfield

Plano

Plantation

Pleasant Grove

Pocatello

Pomona

Pompano Beach

Port Arthur

Port Orange

Port Saint Lucie

Portage

Portland

Providence

Pueblo

Quincy

Buy Tableau

Indianapolis

The screenshot shows a dual-monitor setup. The left monitor displays the Wikipedia page for Indianapolis, which includes a large image of the city skyline, sections for 'Downtown Indianapolis', 'Indiana Statehouse', and 'Monument Circle', and a detailed description of the city's history and population. The right monitor displays Tableau Desktop Public Edition, showing a map of the United States where various cities are highlighted in different colors. A legend on the right side of the Tableau interface lists numerous city names, each associated with a specific color.

Question 4 :

Profit by Wichita : 324

Profit by Indianapolis :

Tutorial 4. :

Step 1 : creating of sets

Tableau Public - Book1

Tableau Desktop Public Edition

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Data Analytics < DIY_SALES_BDCS (Tableau)

Search

Tables

- Abc Channel Type
- Abc Customer Country
- # Customer ID
- Abc Customer Location
- Abc Customer Name
- Abc Department
- Abc Employee Code
- Abc Employee Country
- # Employee ID
- Abc Employee Locations
- Abc Employee Name
- Abc Item Category
- Abc Item code
- # Item ID
- Abc Item Name
- Abc Manager
- Abc Pay Type
- Di Sales Date
- Abc Sales Type
- Abc Measure Names

- # Sales Amt
- # Sales Cost
- # Sales Qty
- # DIY_SALES_BDCS (Count)
- Abc Latitude (generated)
- Abc Longitude (generated)
- # Measure Values

Pages

iii Columns

Rows

tutorial4

Drop field here

Drop field here

Drop field here

Data Source tutorial4

The screenshot shows the Tableau Desktop interface with a blank dashboard titled "tutorial4". The left sidebar lists various data fields under "Tables" and "Measure Names". The dashboard area has three large, empty rectangular boxes labeled "Drop field here" for rows, columns, and details. The bottom navigation bar shows the current data source is "tutorial4". The top status bar indicates the date as "Fri 7 Feb 1:30 PM" and battery level as "89%".

Step2

Tableau Public - Book1

Tableau Desktop Public Edition

Buy Tableau

Data Analytics < Pages Columns Rows

DIY_SALES_BDCS (Table)

Search

Tables

Abc Channel Type
Abc Customer Country
Abc Customer ID
Abc **Customer Location**
Abc Customer Name
Abc Department
Abc Employee Code
Abc Employee Country
Abc Employee ID
Abc Employee Locations
Abc Employee Name
Abc Item Category
Abc Item code
Abc Item ID
Abc Item Name
Abc Manager
Abc Pay Type
B Sales Date
Abc Sales Type
Abc Measure Names
Abc Sales Amt
Abc Sales Cost
Abc Sales Qty
Abc DIY_SALES_BDCS (Country)
Abc Latitude (generated)
Abc Longitude (generated)
Abc Measure Values

Create Set

Name: Customer Location Set

General Condition Top

Select from list Custom value list Use all

Enter search text

AP
Bristol
 London
 Mumbai
 New York
Washington

All None Exclude

Summary

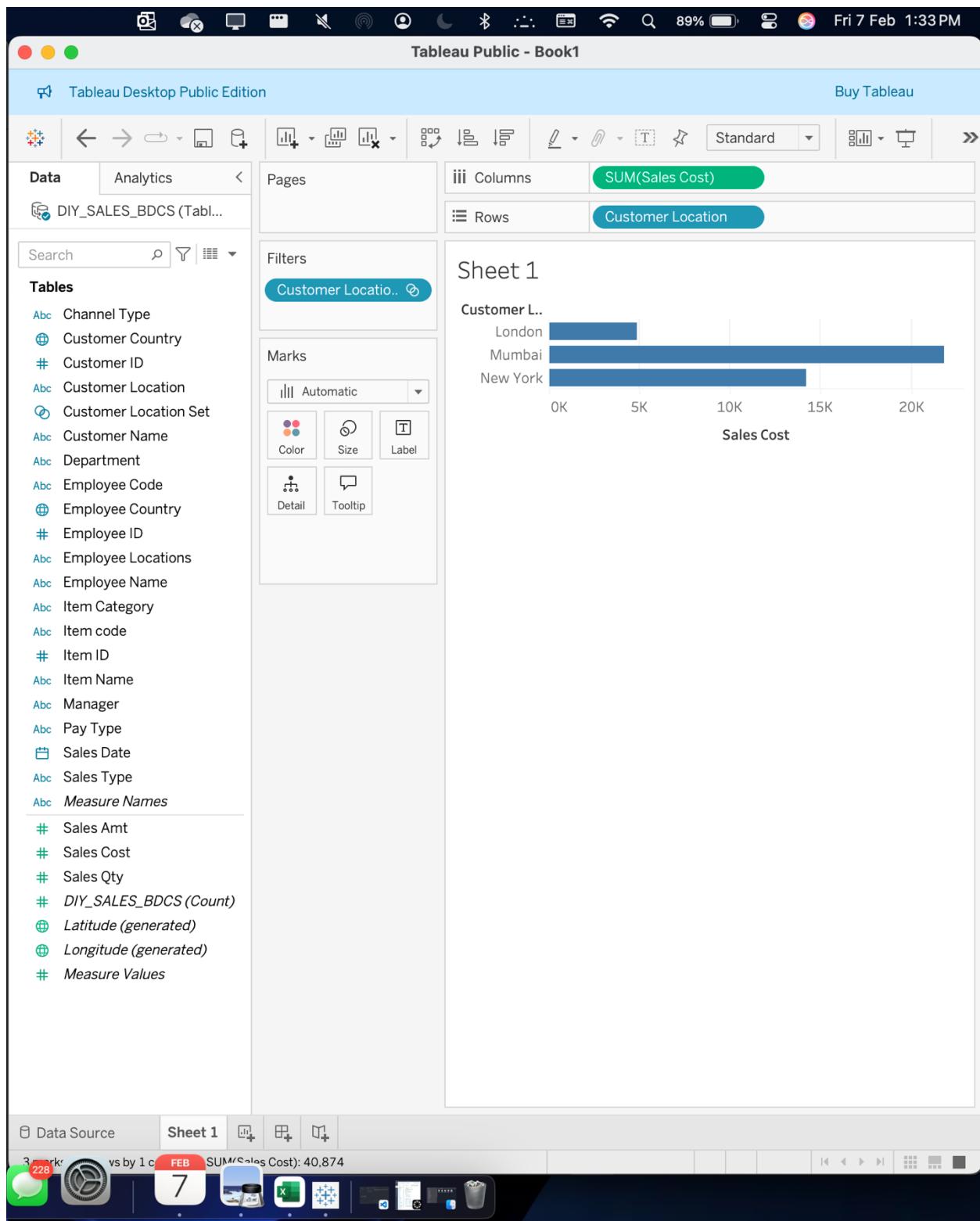
Field: [Customer Location]
Selection: Selected 3 of 6 values
Wildcard: All
Condition: None
Limit: None

Reset Cancel OK

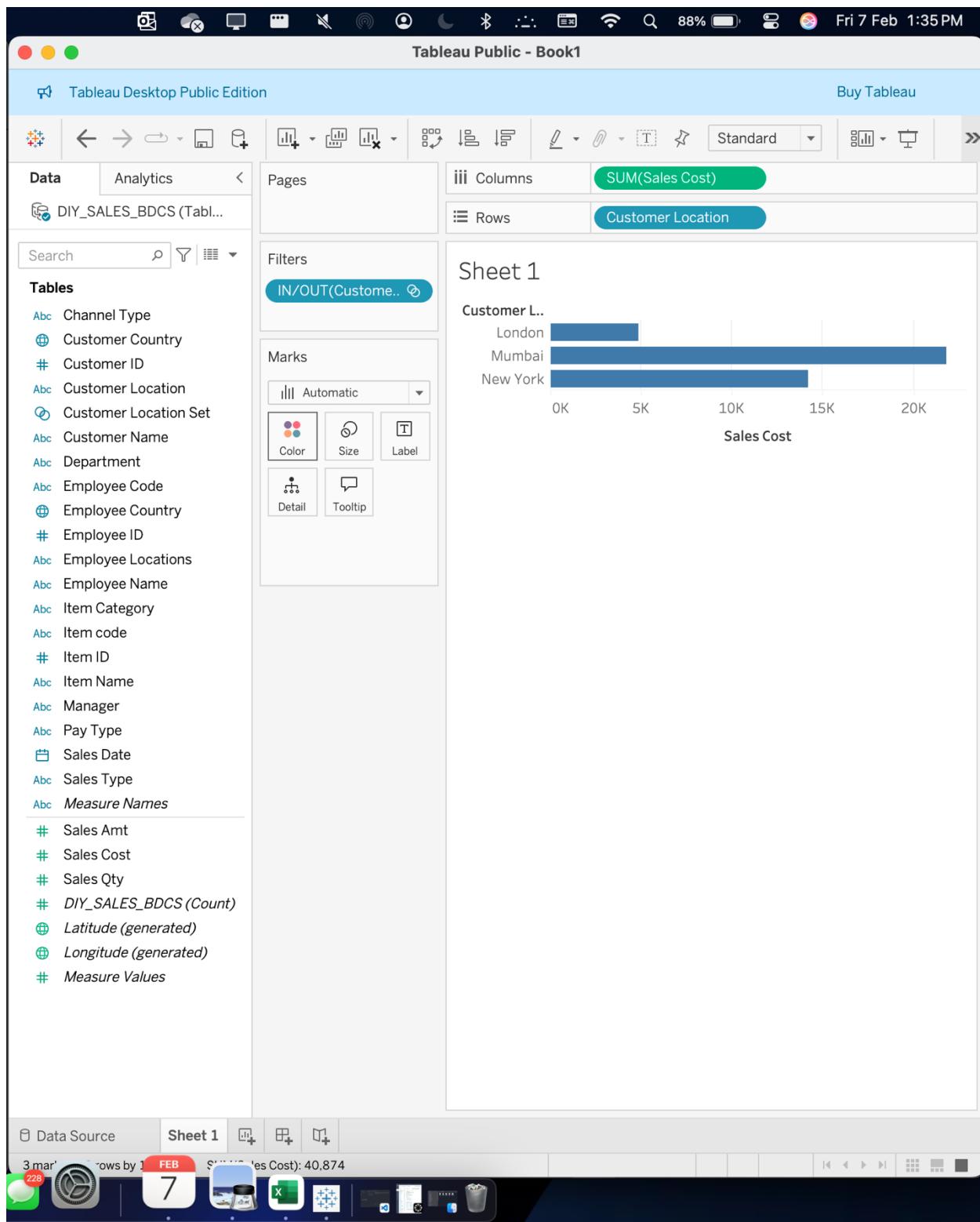
Data Source tutorial4

7 FEB

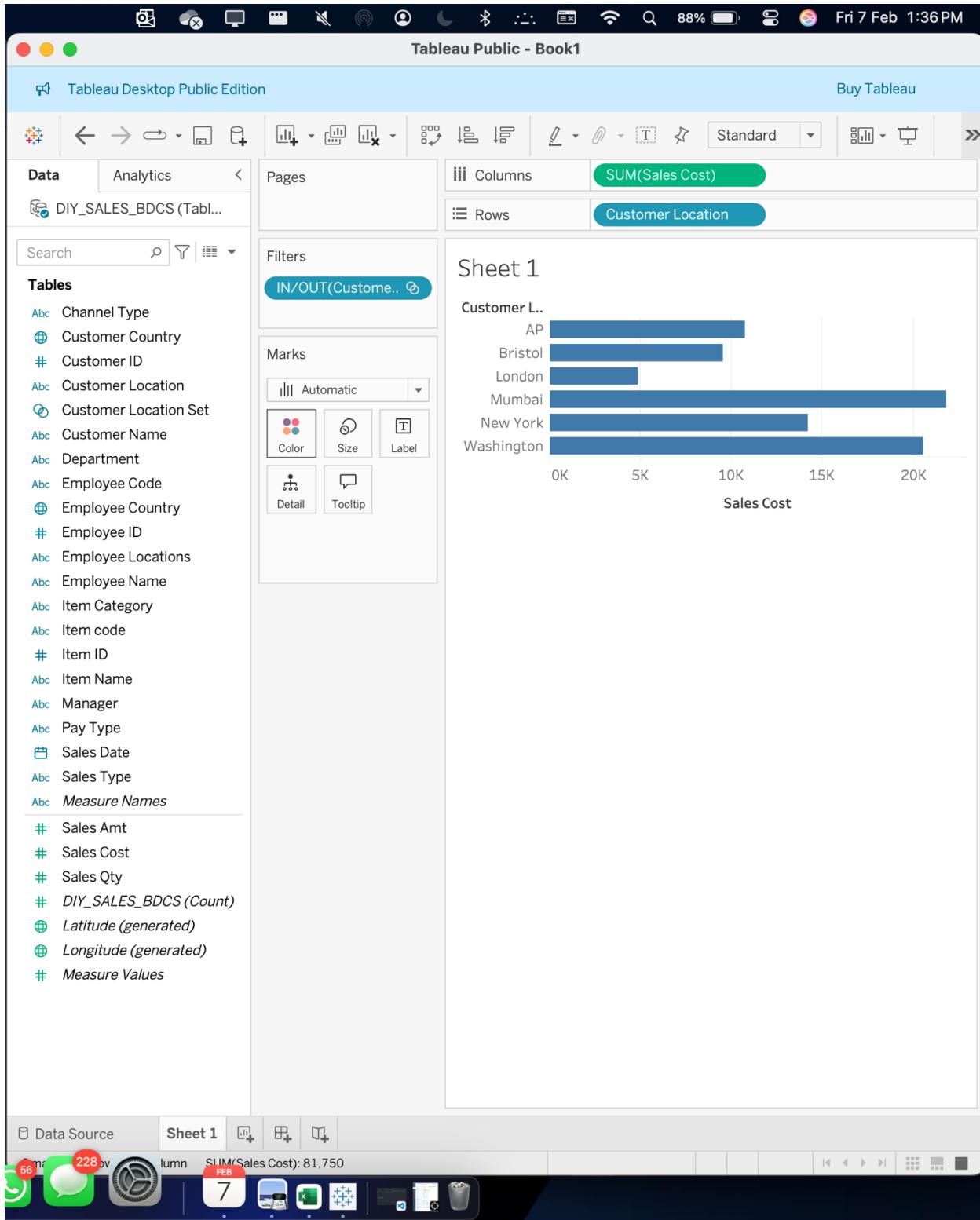
Step 3 :



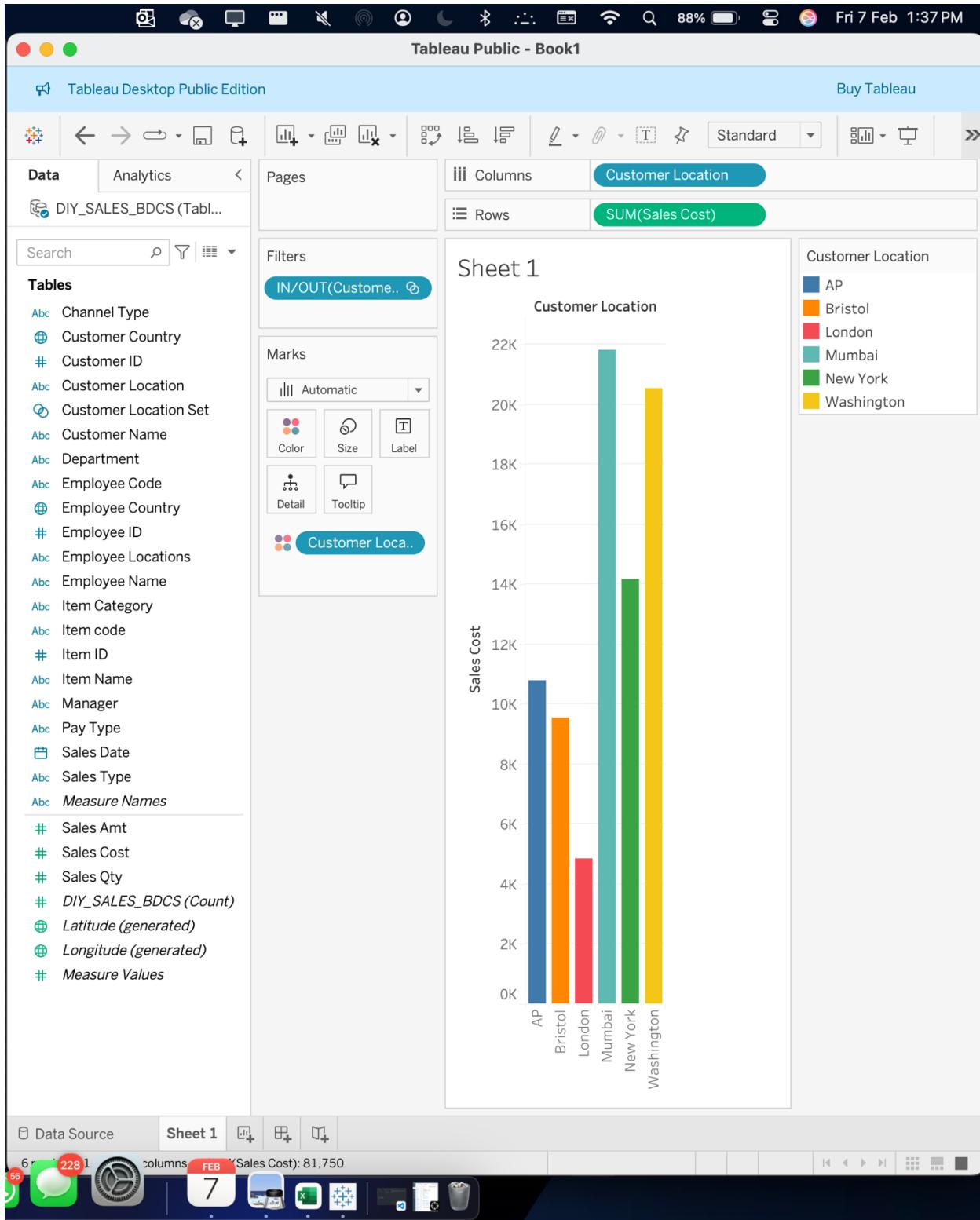
Step 3

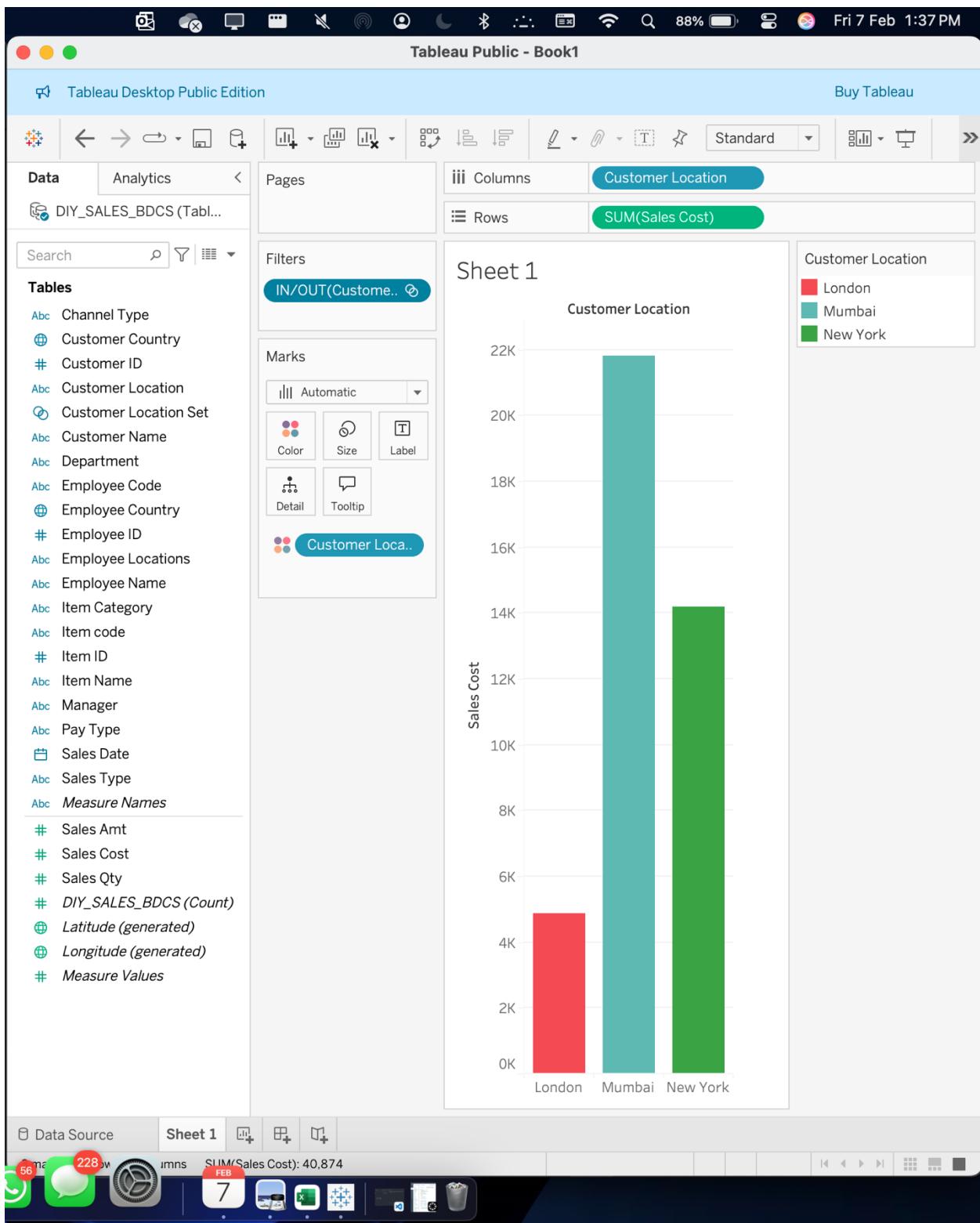


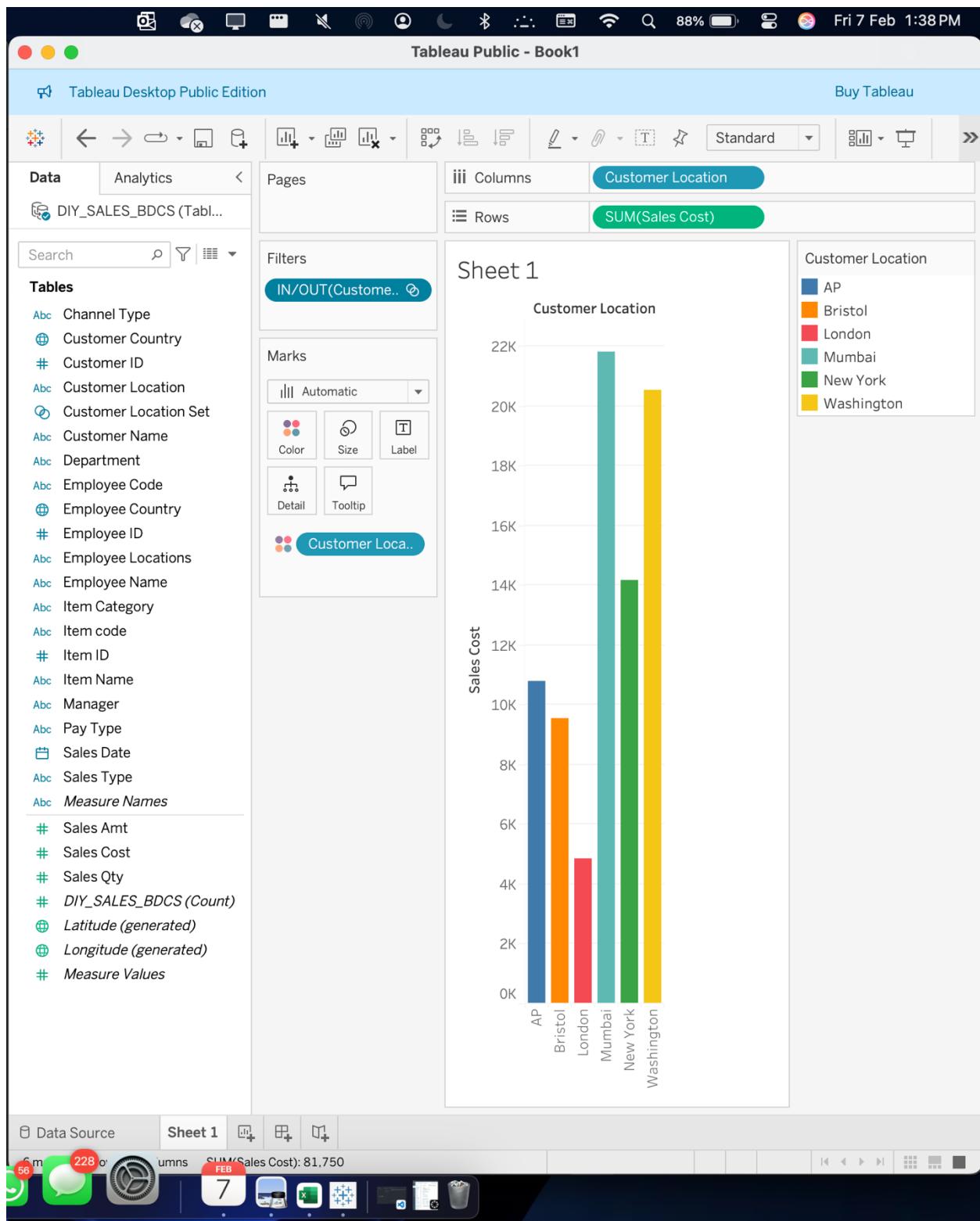
Step 4 :



Step 4 : visualizations :







Question 4 : a

Tableau Public - activity3class

Tableau Desktop Public Edition

Buy Tableau

Data Analytics < Pages Columns Rows

Orders (Superstore-1 (1))

Search

Tables

- Abc Category
- ⊕ City
- ⊕ Country
- Abc Customer ID
- Abc Customer Name
- ⊕ 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
- =# Profit Ratio
- # Quantity
- # Sales
- =# Sub-Category(count)
- ⊕ Latitude (generated)
- ⊕ Longitude (generated)
- # Orders (Count)
- # Measure Values

Create Set

Name: Sub-Category Set

General Condition Top

Select from list Custom value list Use all

Enter search text

- Accessories
- Appliances
- Art
- Binders
- Bookcases
- Chairs
- Copiers
- Envelopes
- Fasteners
- Furnishings
- Labels

All None Exclude

Summary

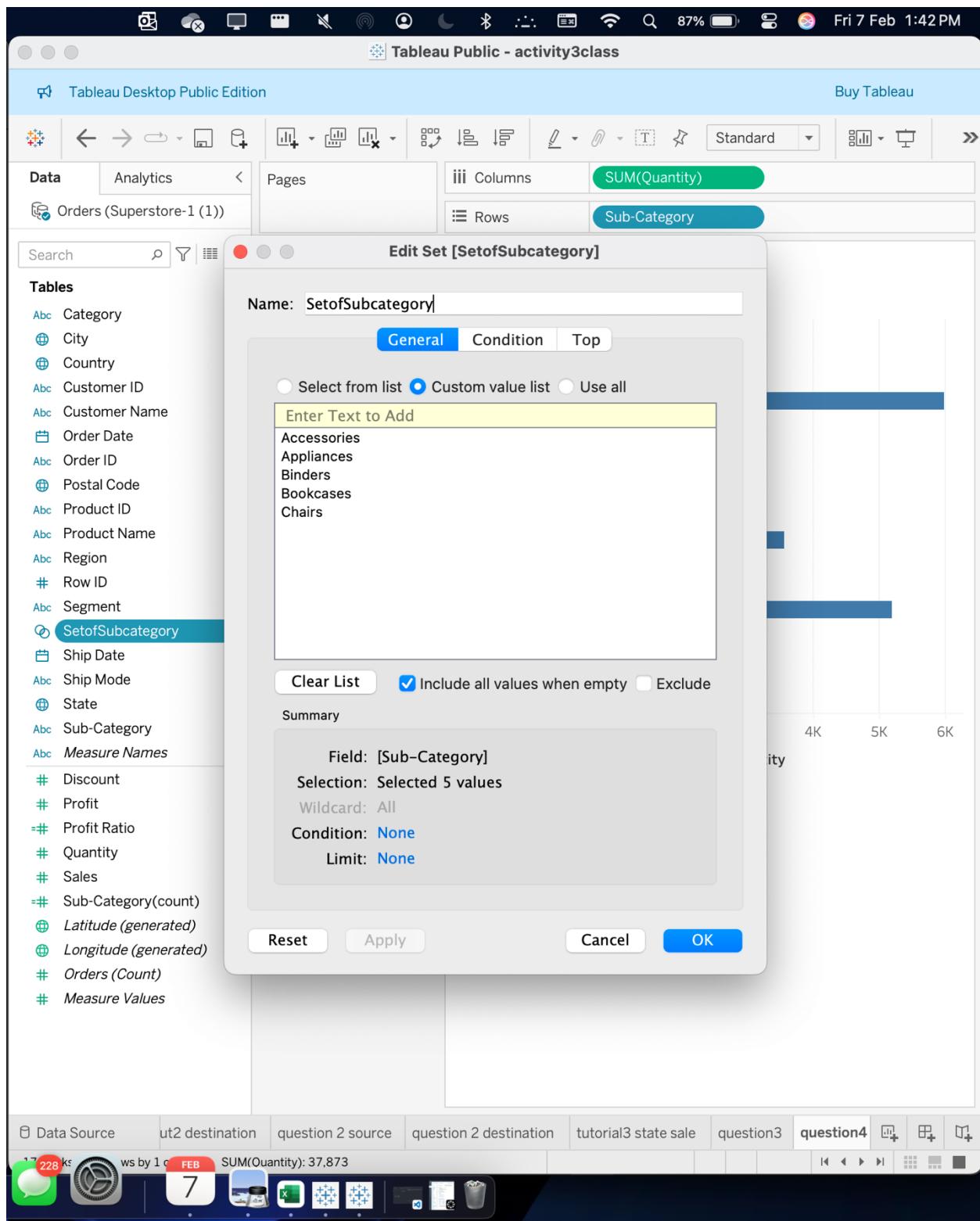
Field: [Sub-Category]
Selection: Selected 0 of 17 values
Wildcard: All
Condition: None
Limit: None

Reset Cancel OK

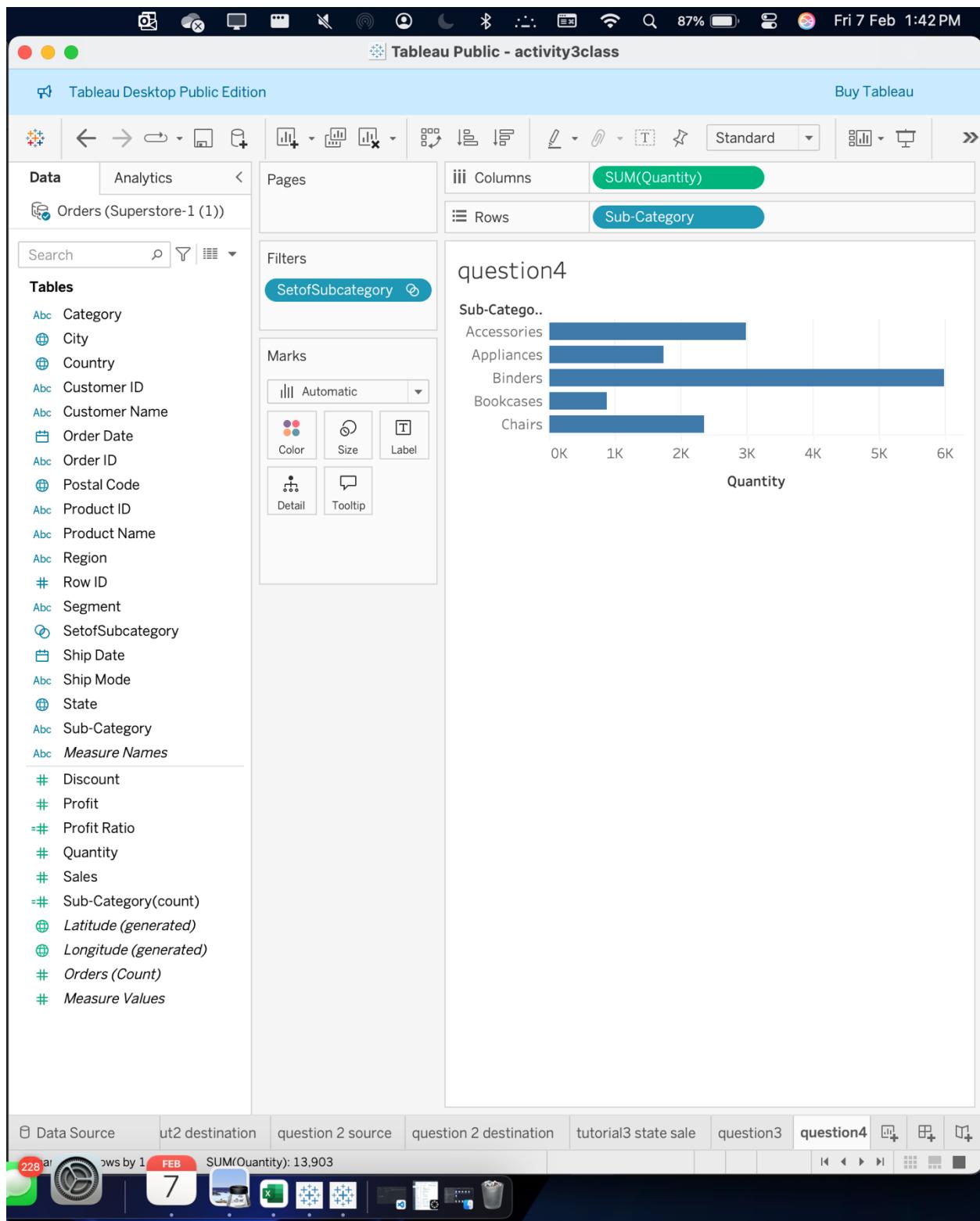
Data Source ut2 destination question 2 source question 2 destination tutorial3 state sale question3 question4

228 FEB 7

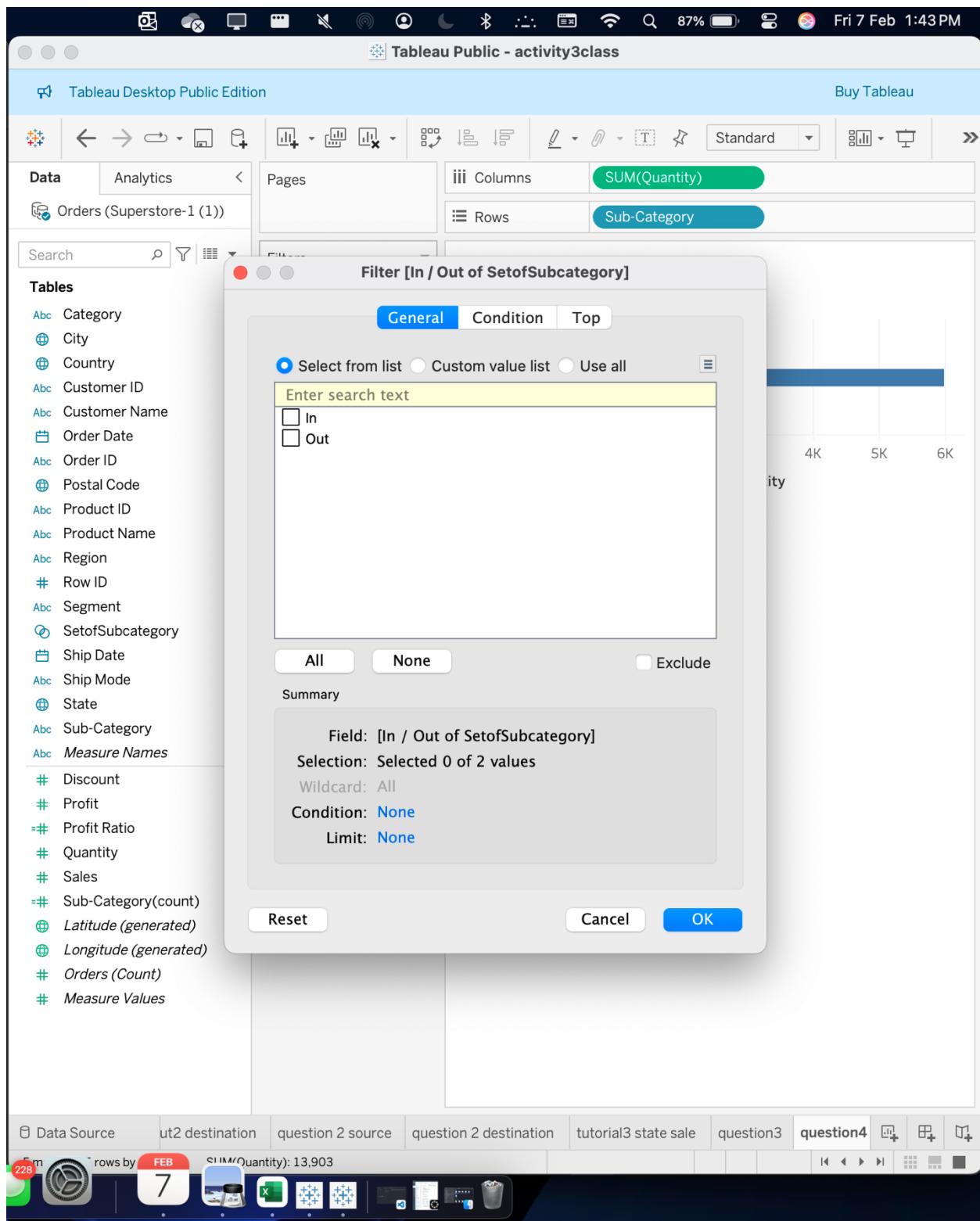
Question 4.b



Question 4.c:

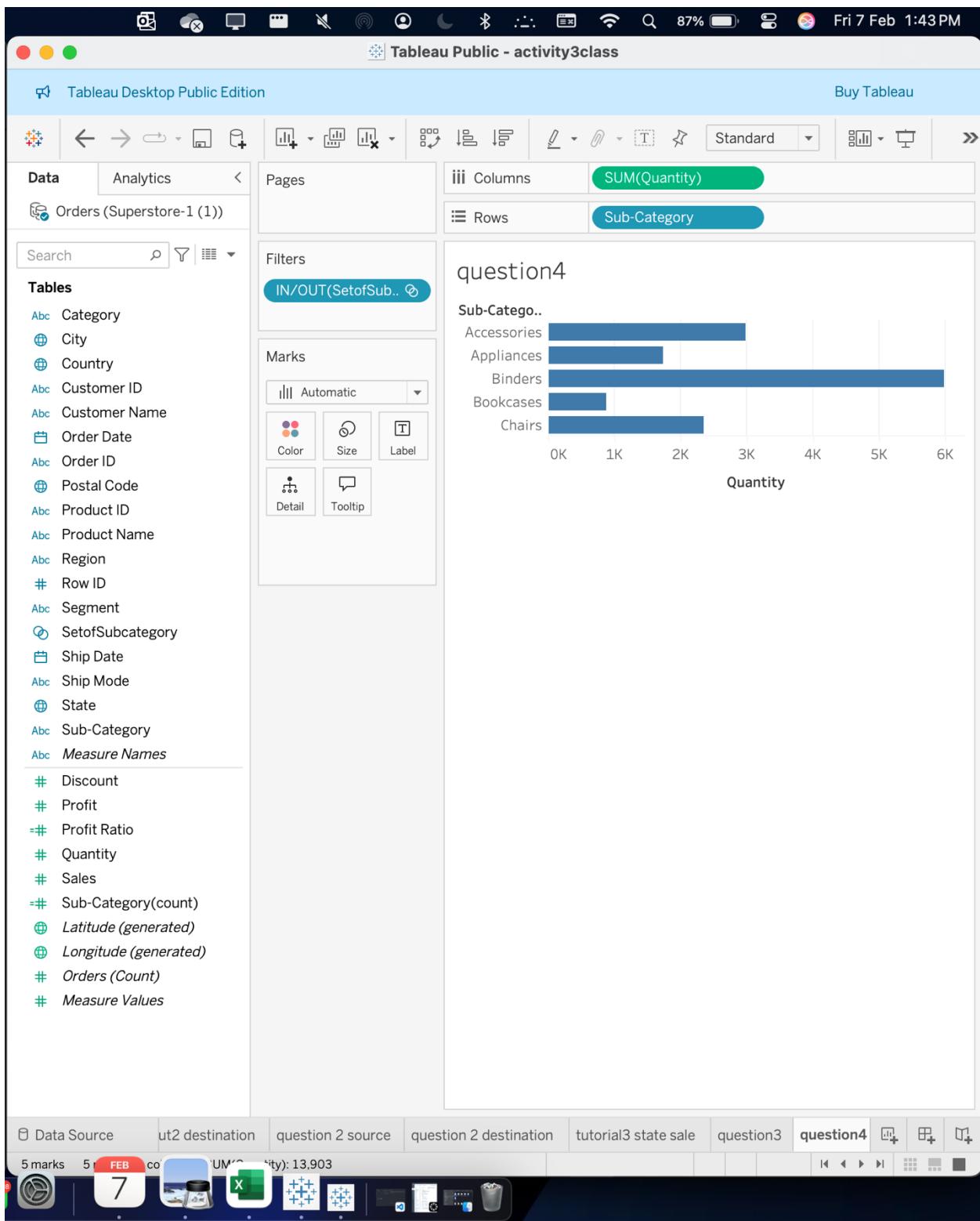


Question 4.d:

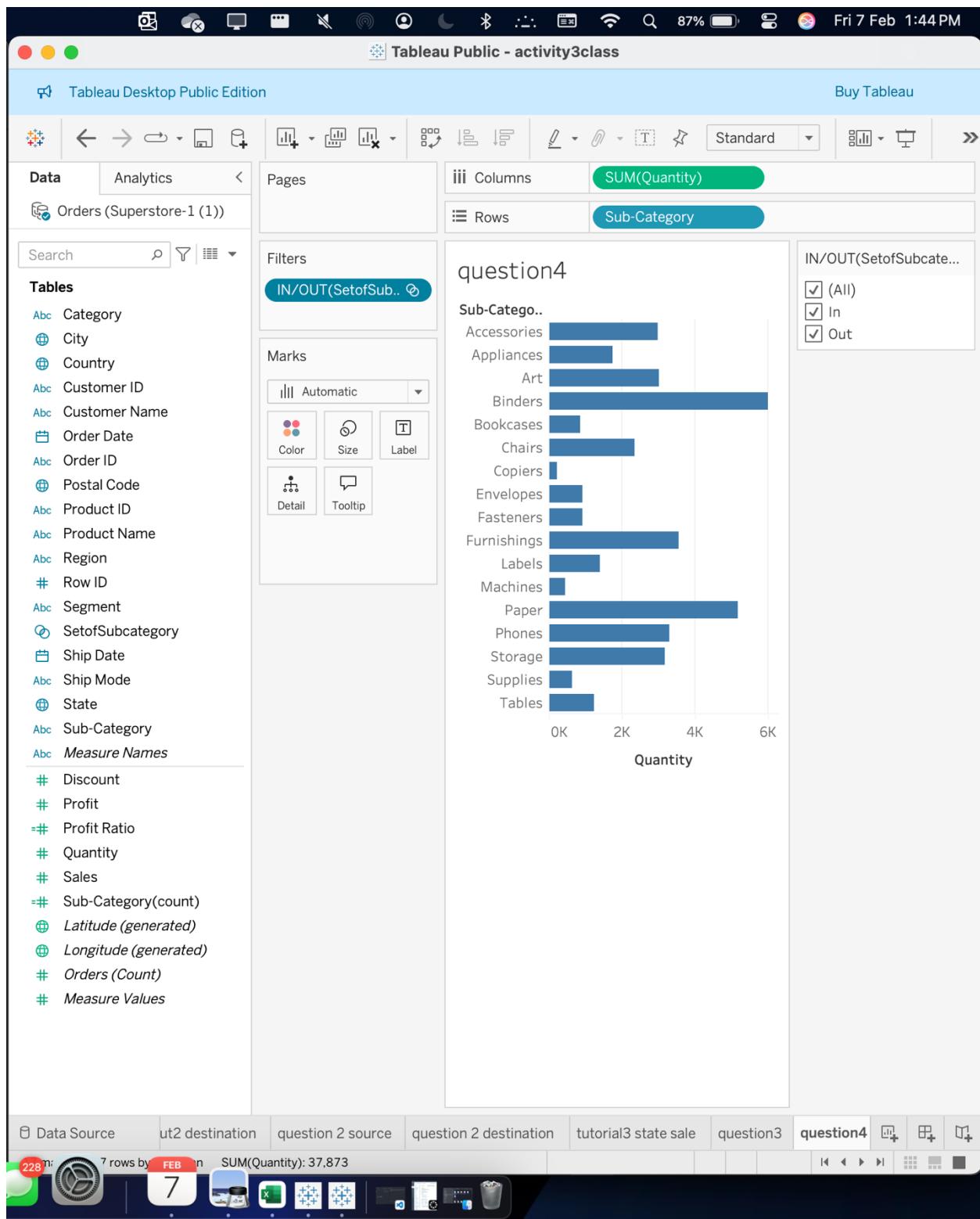


Question 4.e:

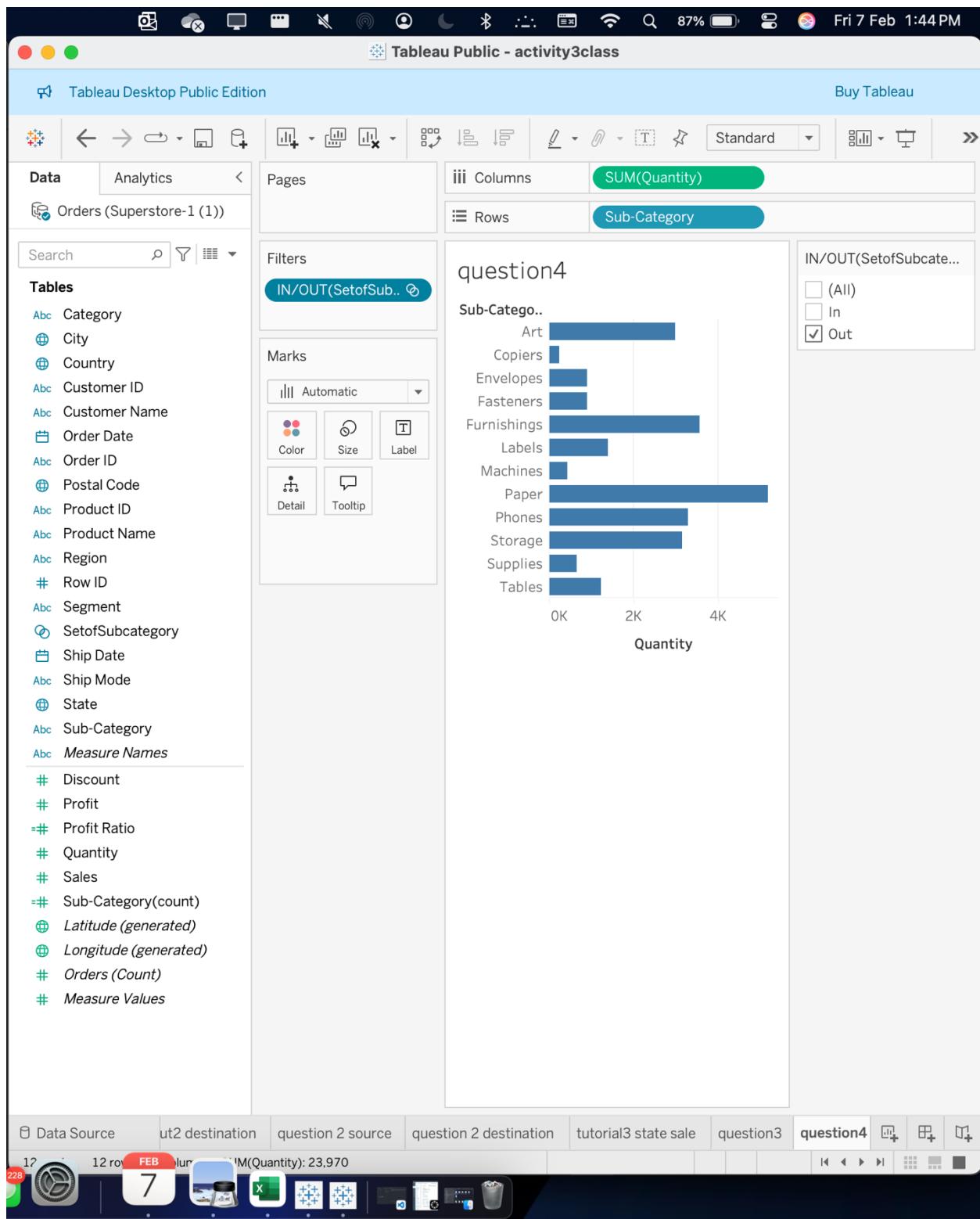
IN set



ALL set

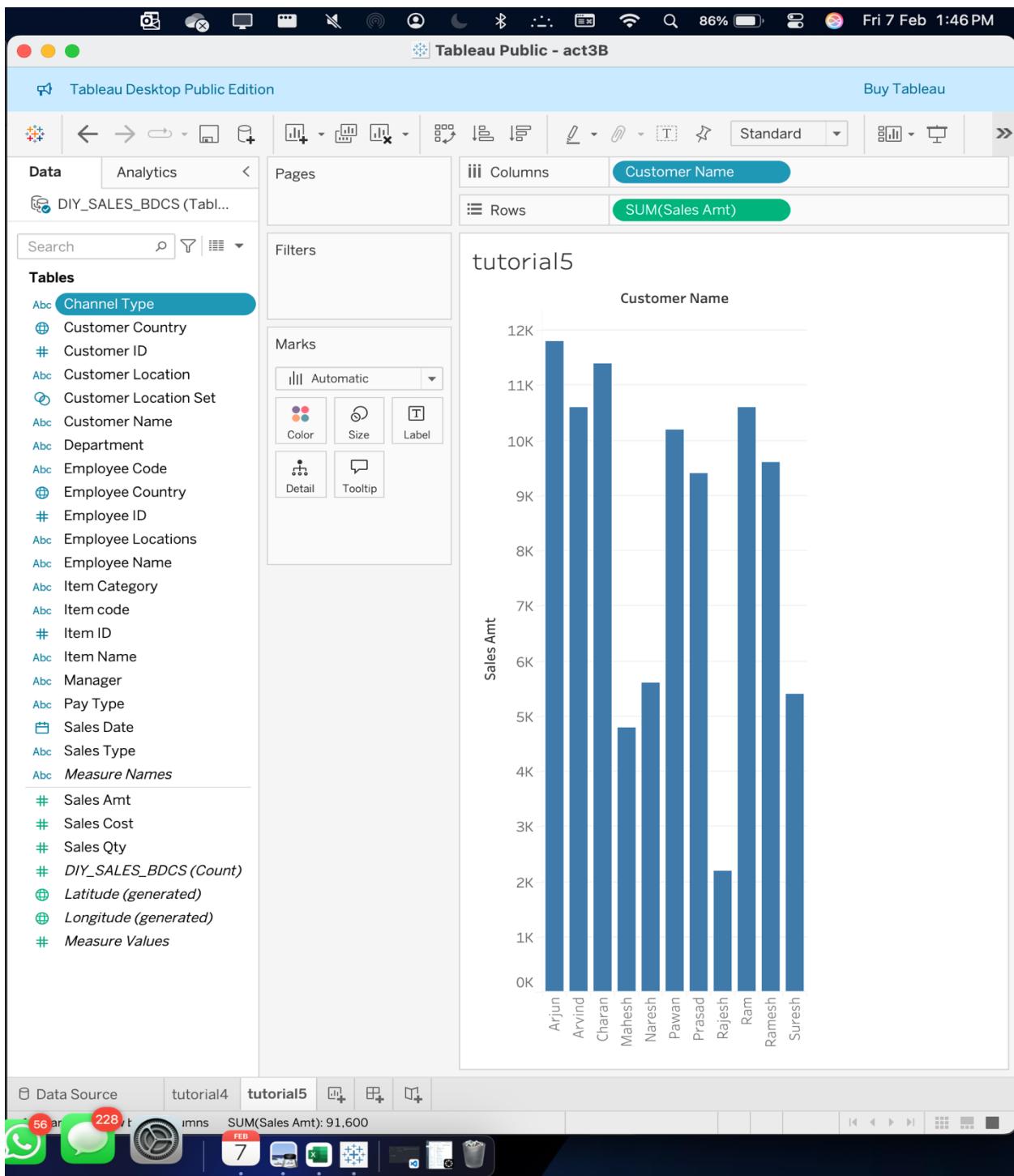


Out filter:

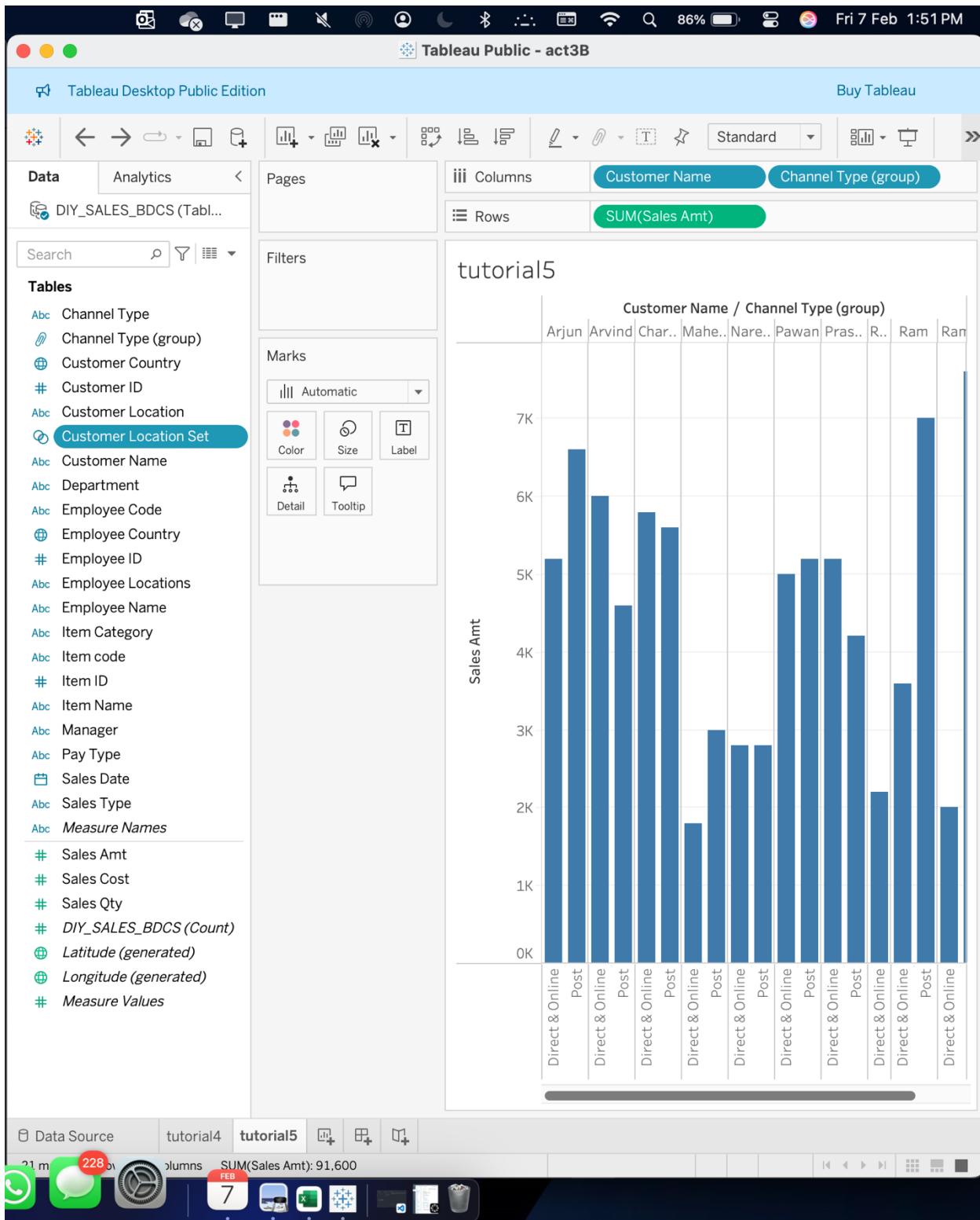


Tutorial 5 :

Step 1:



Step 2 :



Question 5.a

Screenshot of Tableau Desktop Public Edition showing the 'Create Group [Category]' dialog box.

The 'Tables' pane on the left shows the following fields under the 'Category' group:

- City
- Country
- Customer ID
- Customer Name
- Order Date
- Order ID
- Postal Code
- Product ID
- Product Name
- Region
- Row ID
- Segment
- SetofSubcategory
- Ship Date
- Ship Mode
- State
- Sub-Category
- Measure Names
- Discount
- Profit
- Profit Ratio
- Quantity
- Sales
- Sub-Category(count)
- Latitude (generated)
- Longitude (generated)
- Orders (Count)
- Measure Values

The 'Create Group [Category]' dialog box contains the following settings:

- Field Name: Category (group)
- Groups: Furniture, Office Supplies, Technology
- Add to: (dropdown menu)
- Show Add Location (checkbox checked)
- Include 'Other' (checkbox)
- Find > (button)
- Reset (button)
- Apply (button)
- Cancel (button)
- OK (button)

The status bar at the bottom shows the following tabs: Data Source, question 2 source, question 2 destination, tutorial3 state sale, question3, question4, question5, and several other tabs like question 2 source, question 2 destination, etc.

Question 5.b

Screenshot of Tableau Desktop Public Edition showing the 'Create Group [Category]' dialog box.

The dialog box is titled "Create Group [Category]" and contains the following fields:

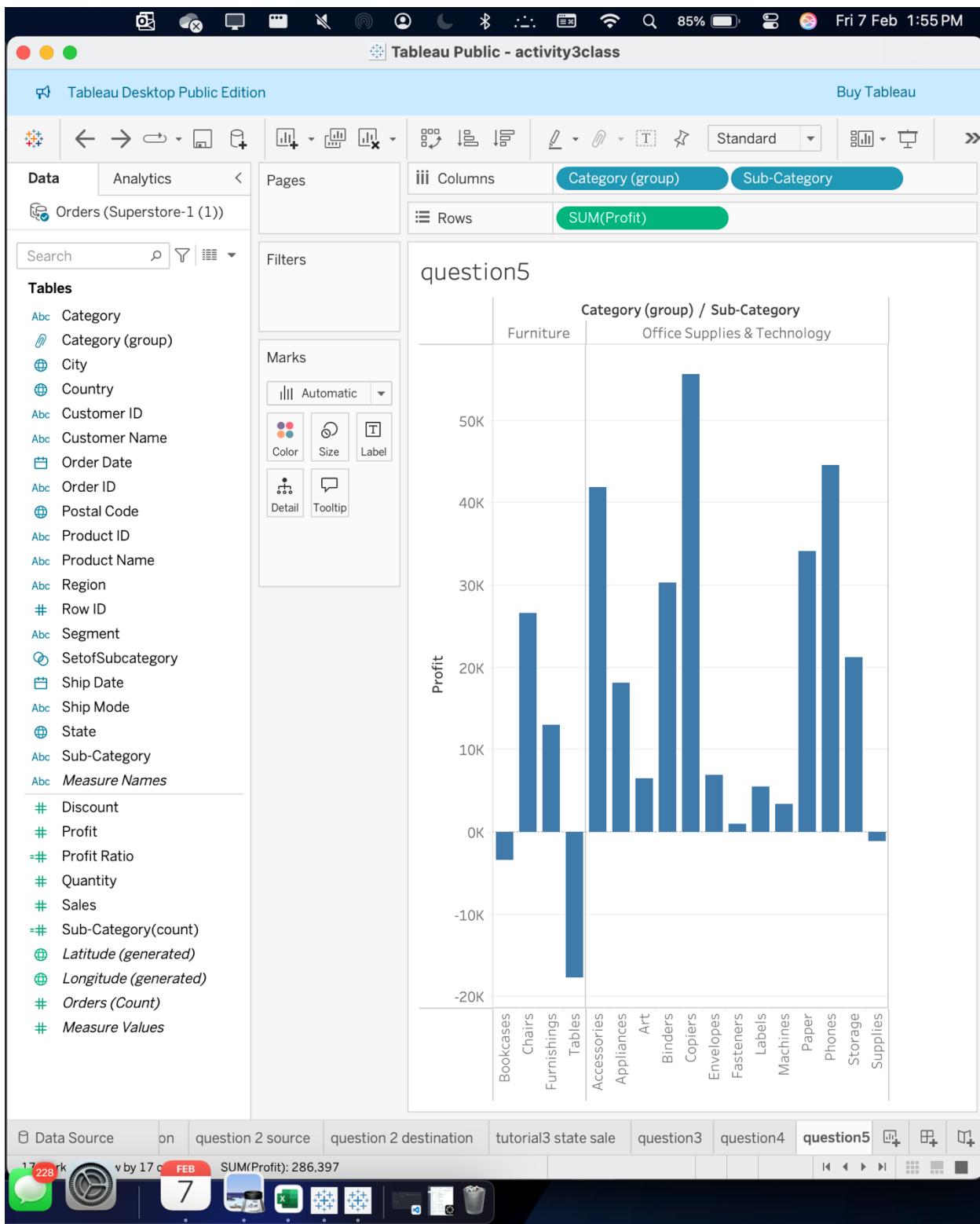
- Field Name: Category (group)
- Groups: Add to: Office Supplies & Technology
- Sub-categories under Furniture:
 - Office Supplies & Technology
 - Office Supplies
 - Technology

Buttons at the bottom include: Group, Rename, Ungroup, Show Add Location (checked), Find >>, Reset, Apply, Cancel, and OK.

The Tableau interface shows a Data pane with "Orders (Superstore-1 (1))" selected, and a Filters pane with "question5". The main workspace shows a visualization with the title "question5".

The Mac OS X dock at the bottom includes icons for Mail (228 messages), Finder, Calendar (showing Feb 7), and other applications like Excel and Tableau.

Question 5.c



Question 5.d

This is a bar chart that will be able to effectively visualize the total amount of profit which is the sum of profit for a variety of sub categories within a broader category of classifications and this can include the furniture ; office supplies and some other . this bars will be able to represent the total amount of profit which is on a specific sub category . positive and negative indicate the profit ..