

Experiment-6

AIM

Foundations for building data visualizations, Creating first visualization.

PROCEDURE

Step-1: Study about basics of data visualization

Step-2: Study about prerequisites of data visualization

Step-3: Study about different visualization charts for data visualization

Step-4: read the required data into tableau using source connection in Tableau

Step-5: Study different visualization charts available in Tableau on the data

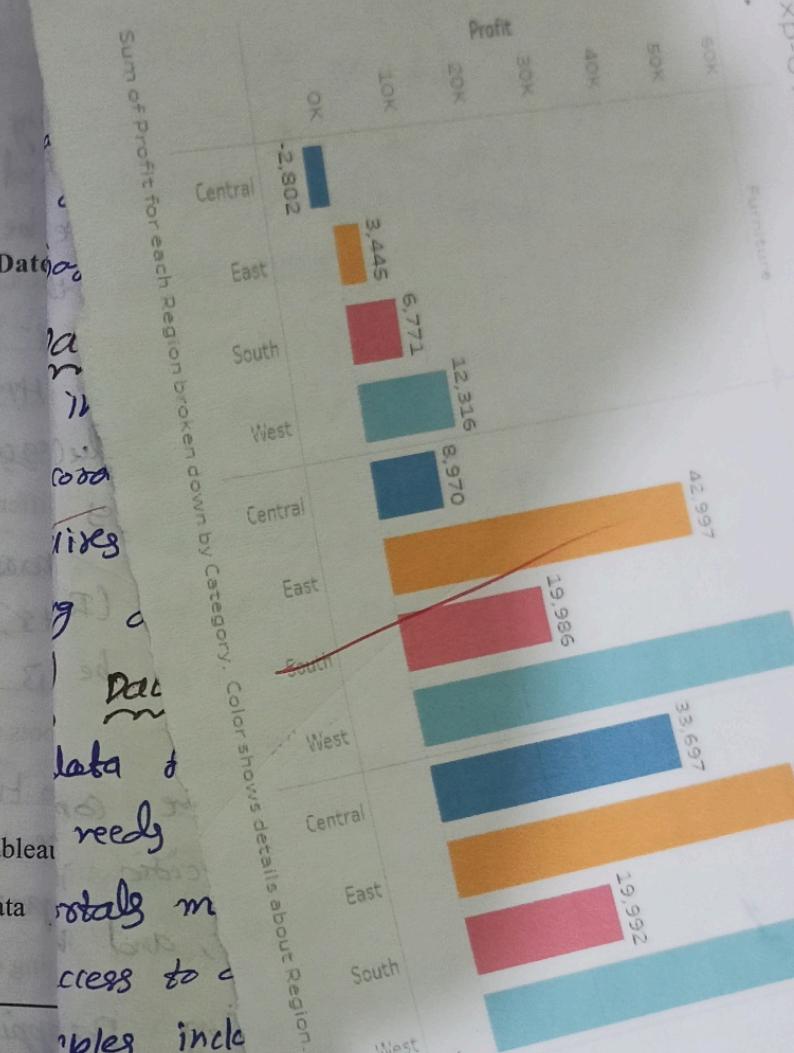
SOURCE CODE

What is Data?

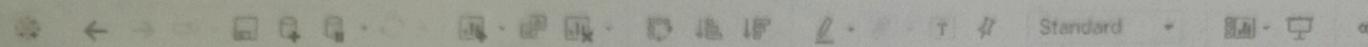
Data refers to raw facts, statistics, or information collected or stored in a structured or unstructured form. Data can take various forms, such as text, images, videos, and more. It is the foundation of information and knowledge and is used in fields for analysis, decision making, and academic tasks often not in the SCI

on Programming Interfaces) Some web APIs that allow you to program

113 Data



14/9



Data Analytics Pages

Columns

YEAR(Ship Date)

Orders+ (Sample - Superstore)

Rows

SUM(Sales)

Search

P T

Filters

Tables

- Customer Name
- Order Date
- Order ID
- Postal Code
- Product ID
- Product Name
- Region
- Row ID
- Segment
- Ship Date
- Ship Mode
- State
- Sub-Category
- Discount
- Profit
- Quantity
- Sales
- Orders (Count)

People

- Person
- Region (People)
- Person (Count)

Data Source

Line Chart

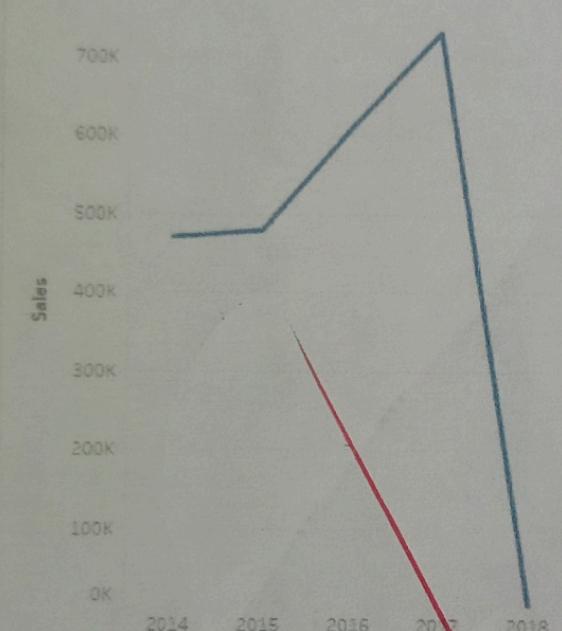
Bar Chart

Treemap Chart



Line Chart

Ship Date



connection

page, click

"New"

like, bar, charts, tree maps

the file

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button

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source pane: "drag and drop the Sales field
into Rows shelf and a numeric field
into Row shelf.

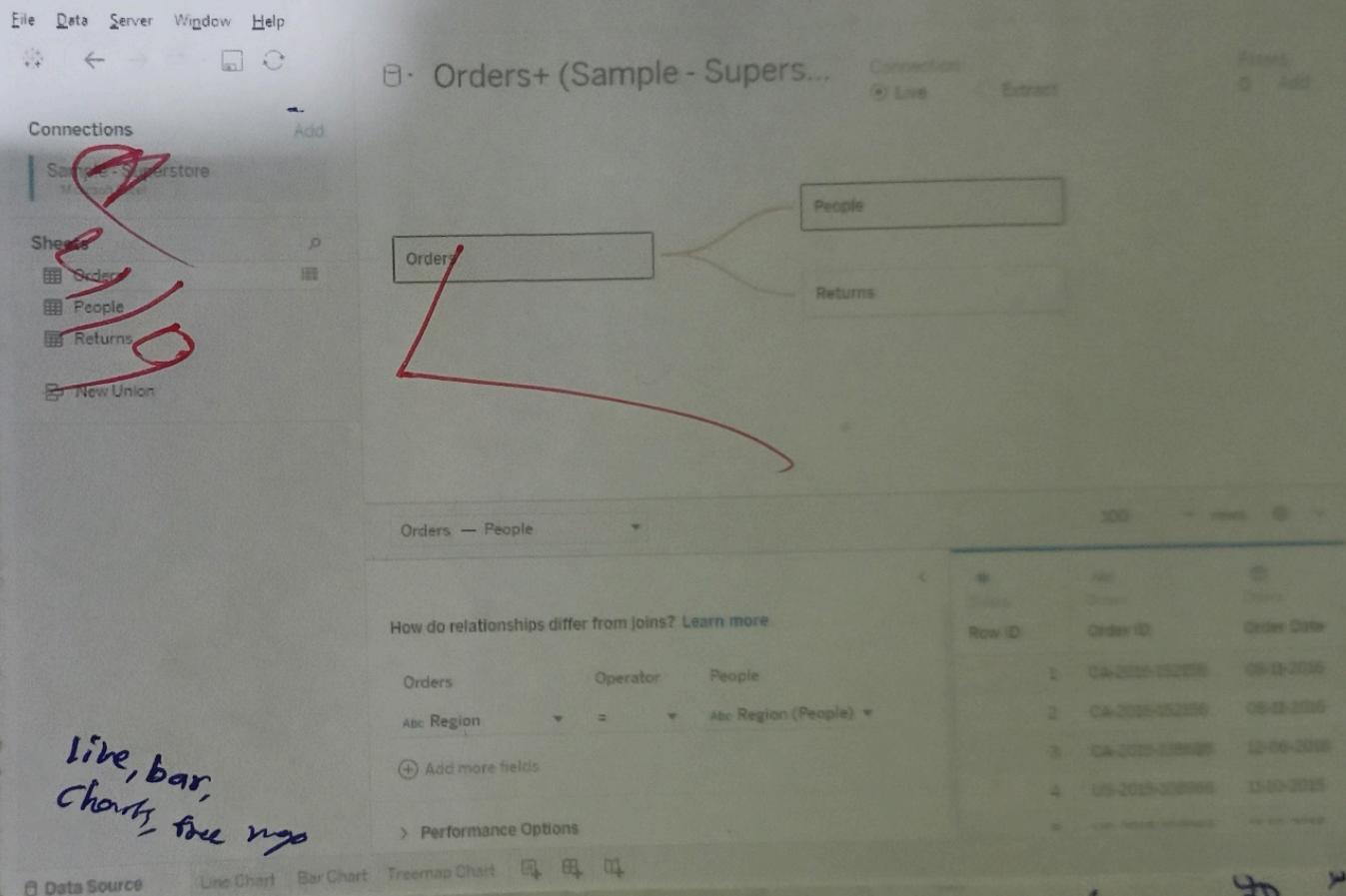
Power BI

for chart - for
formatting as
bars click on
"show mark"

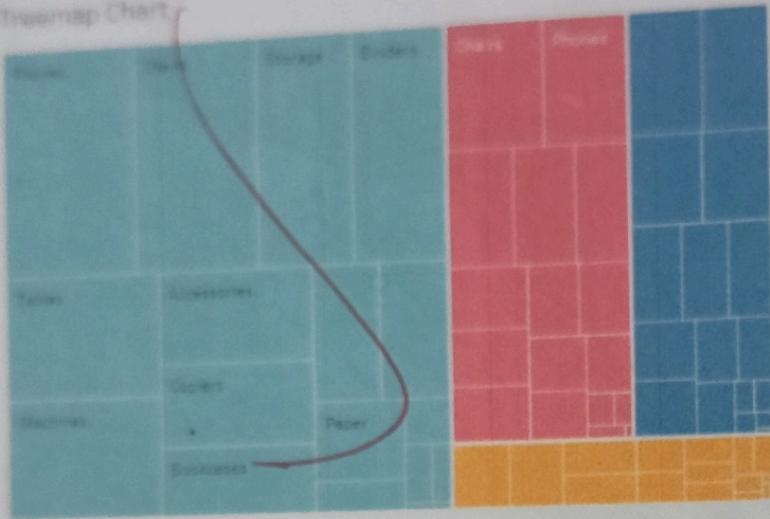
field to set

to the size

utilization tool
adjusting colours

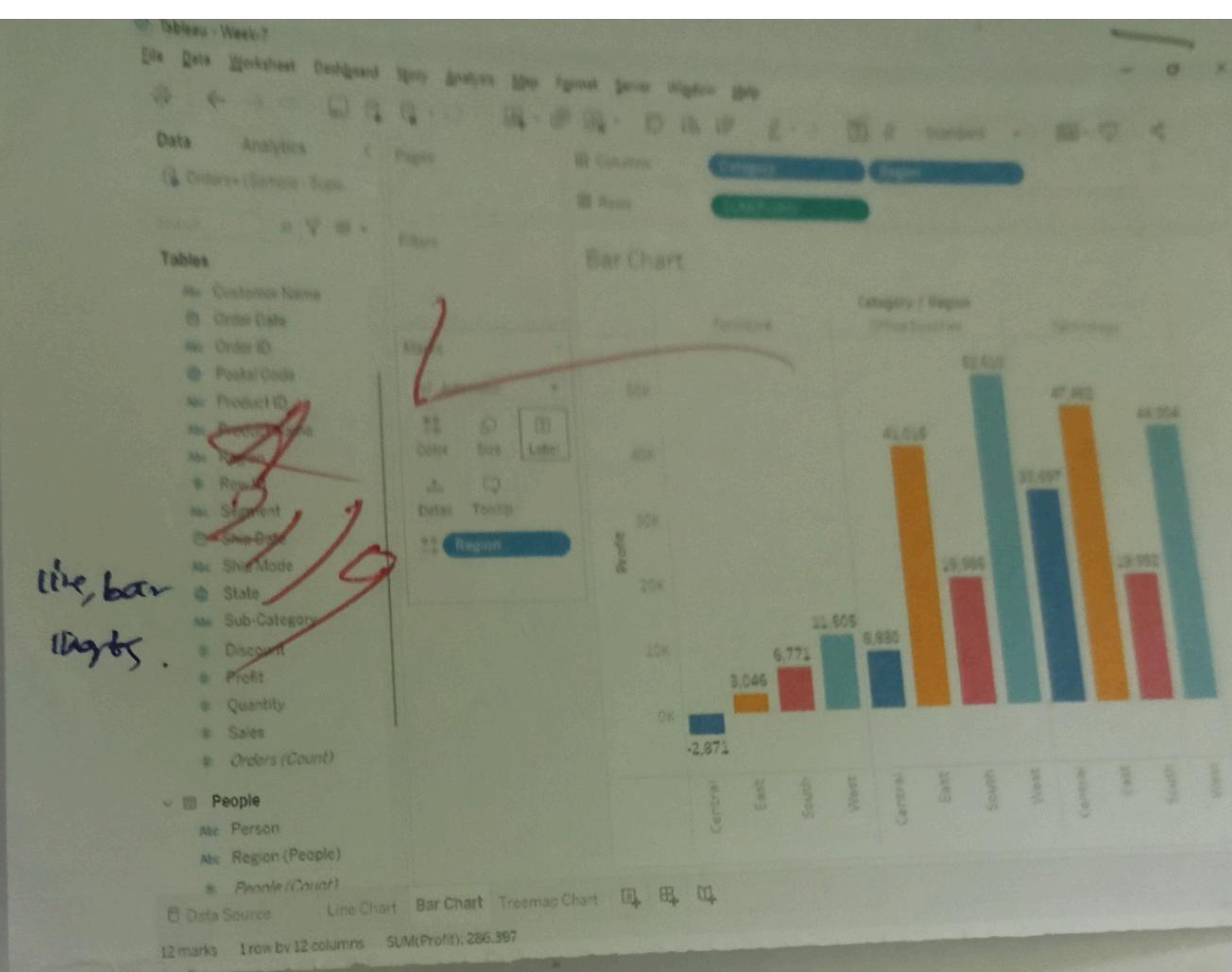


Treemap Chart



like bar,
charts, bar graphs.

all 19



What is table?

Ans. Table is a organized people

What are the different data con-

Ins. There are two types of data: boxed, structured & unstructured.

What are the different type

Ins. Bar chart, Line chart, Bubble chart

How can you share yo-

Ins. share directly

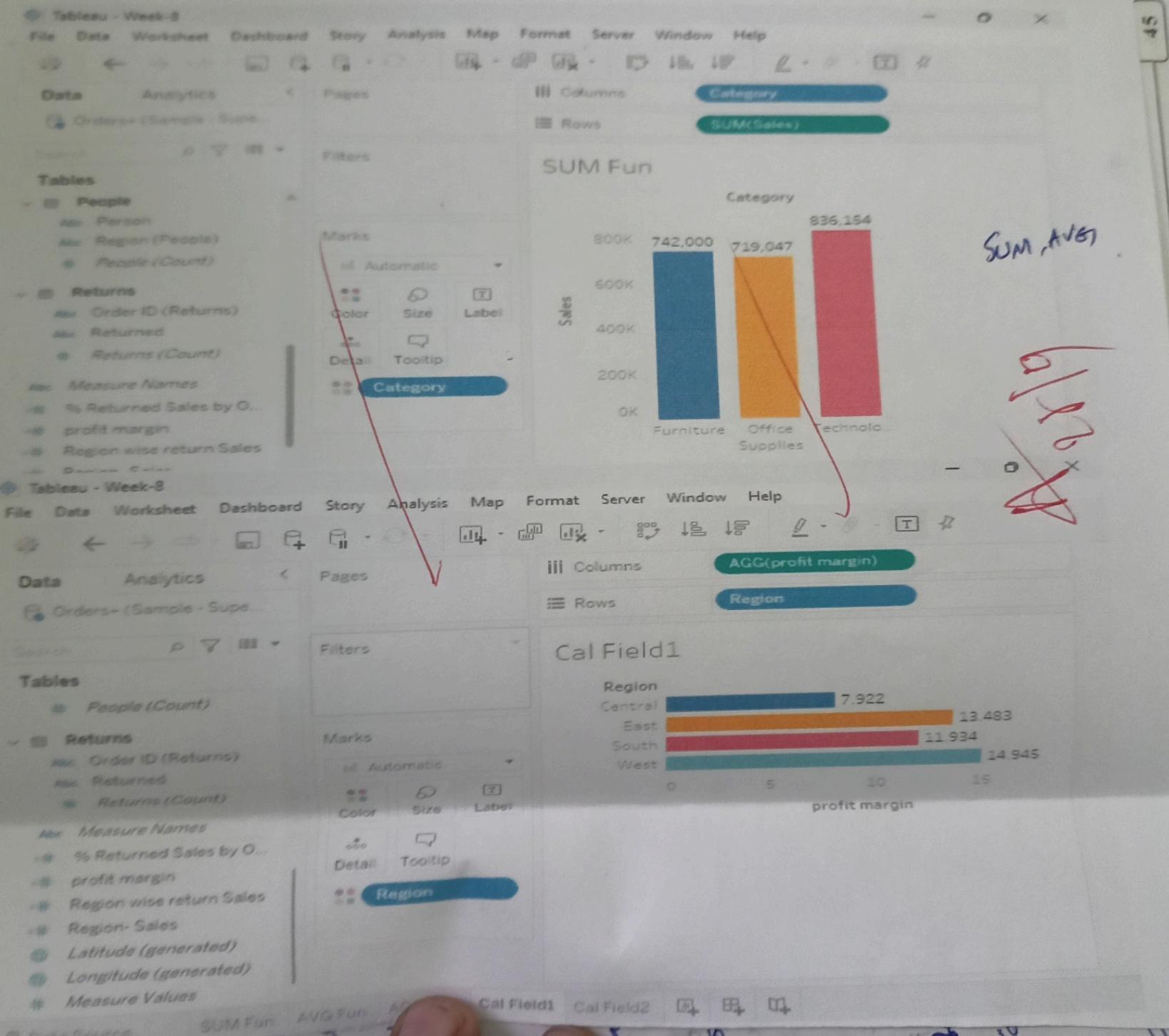
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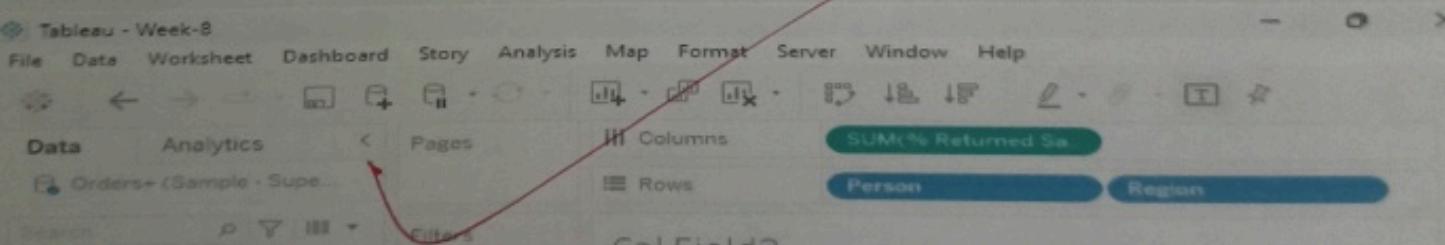
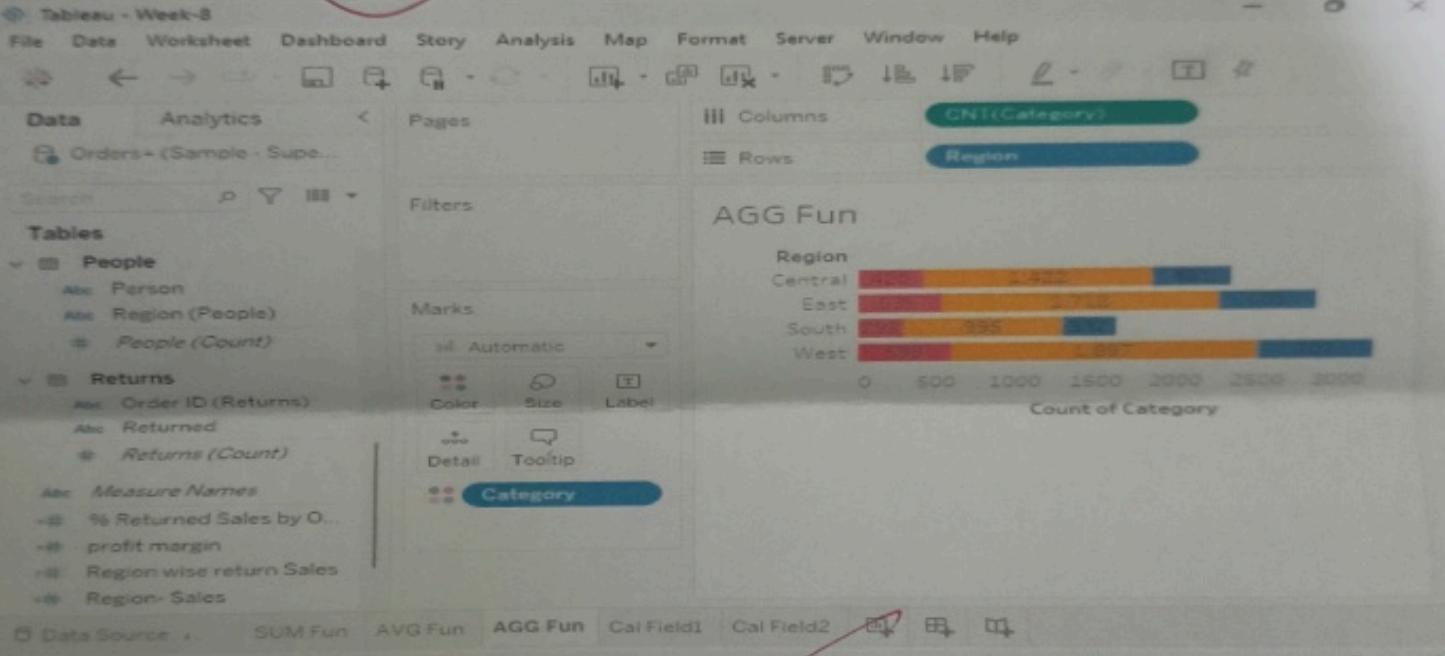
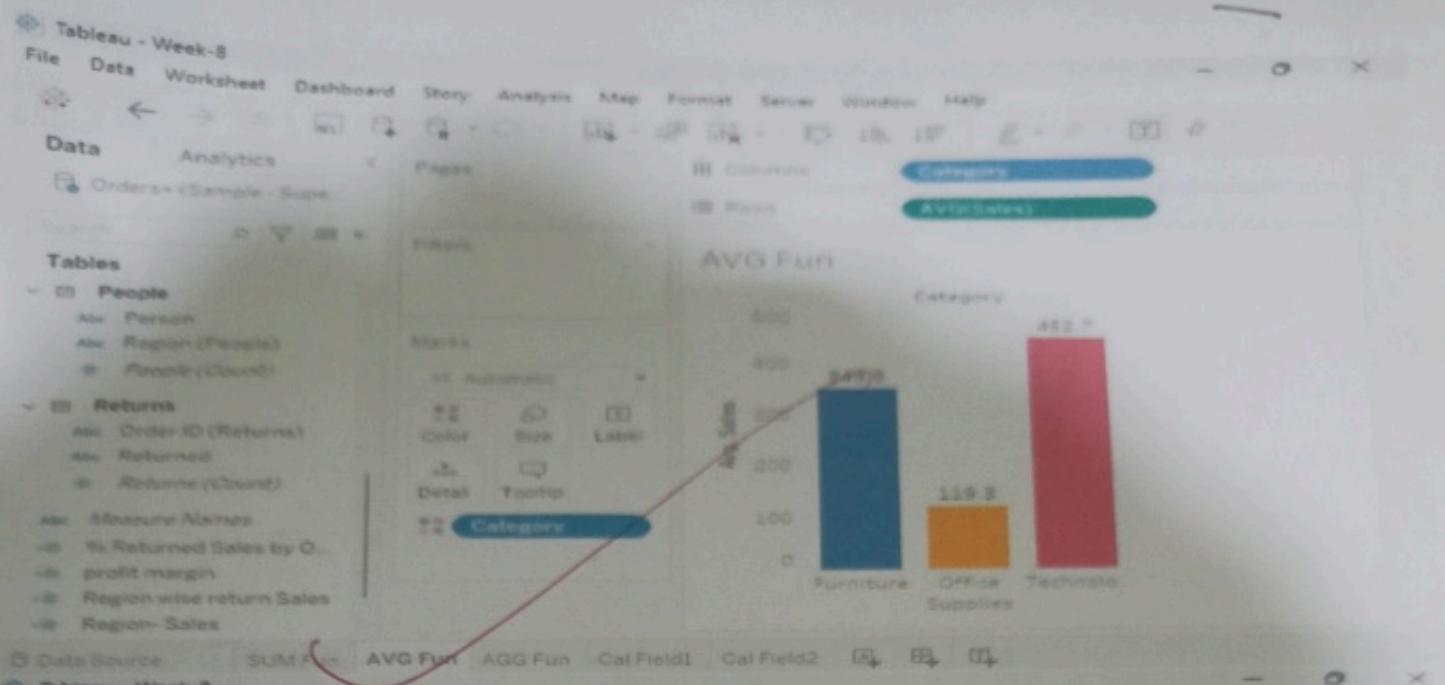
Copy link:-)

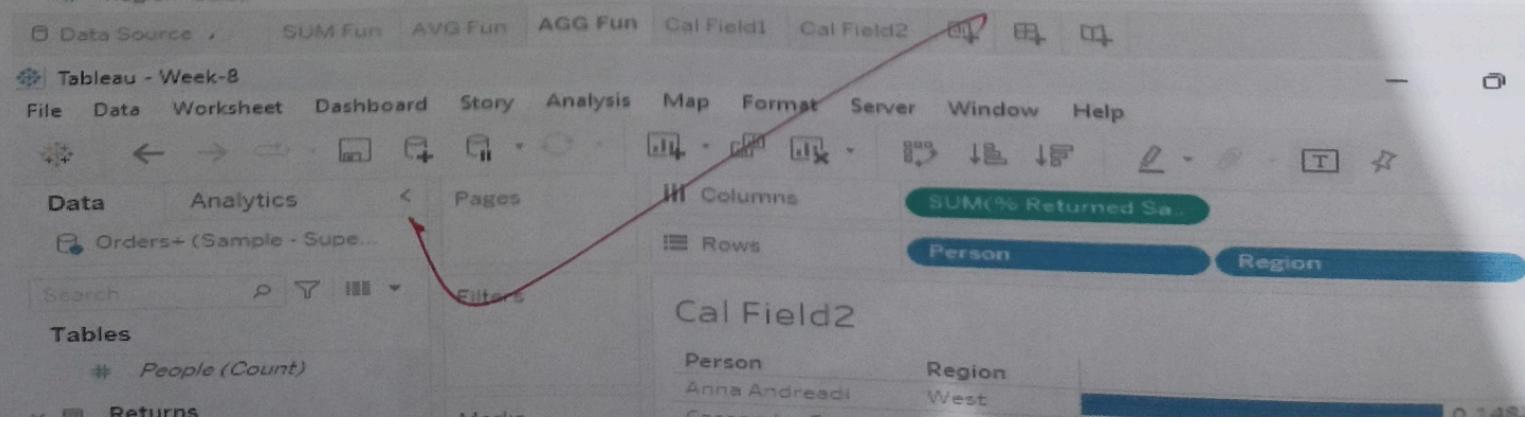
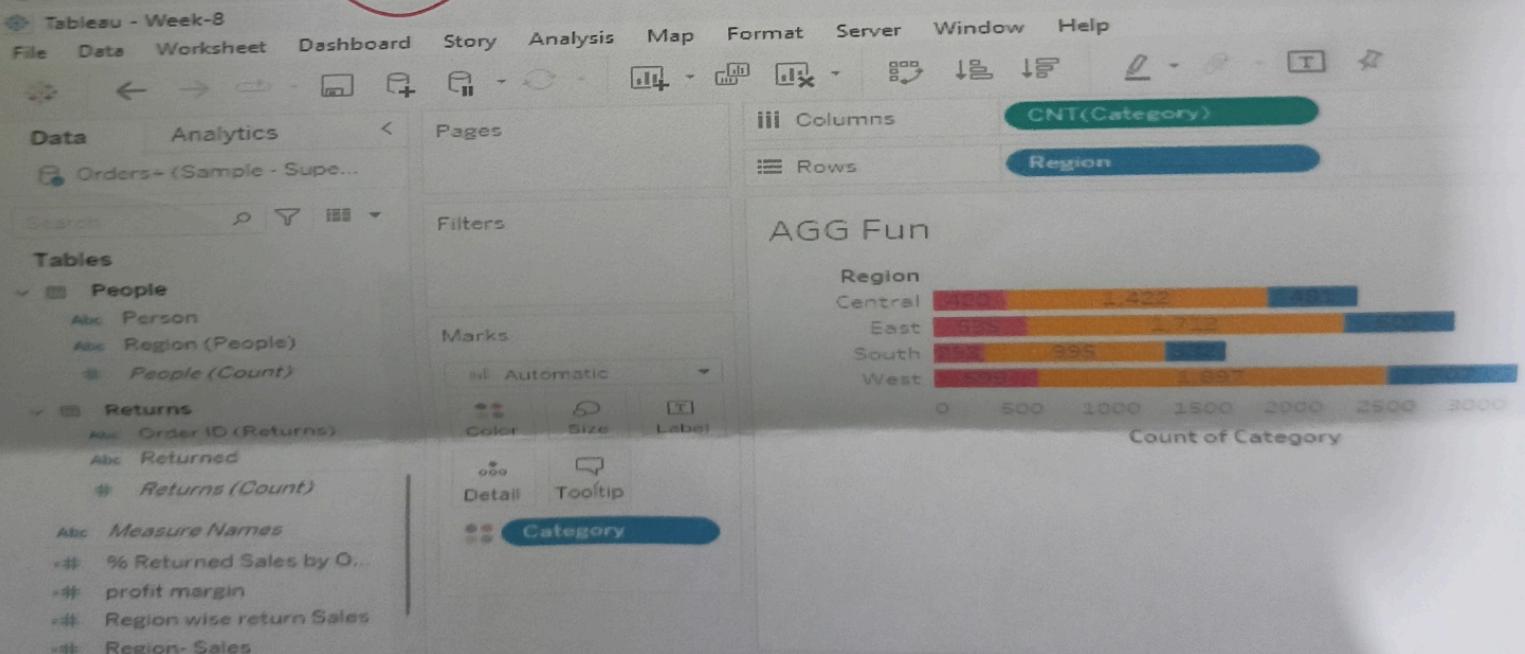
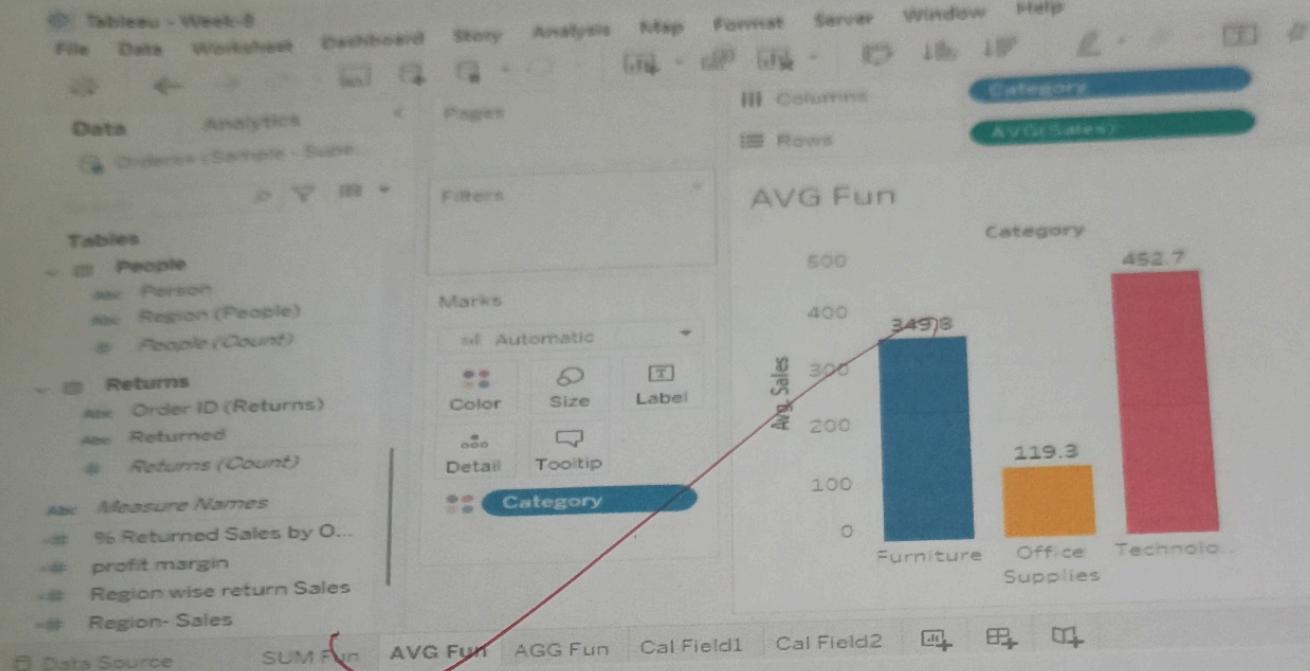
5. What can't be done

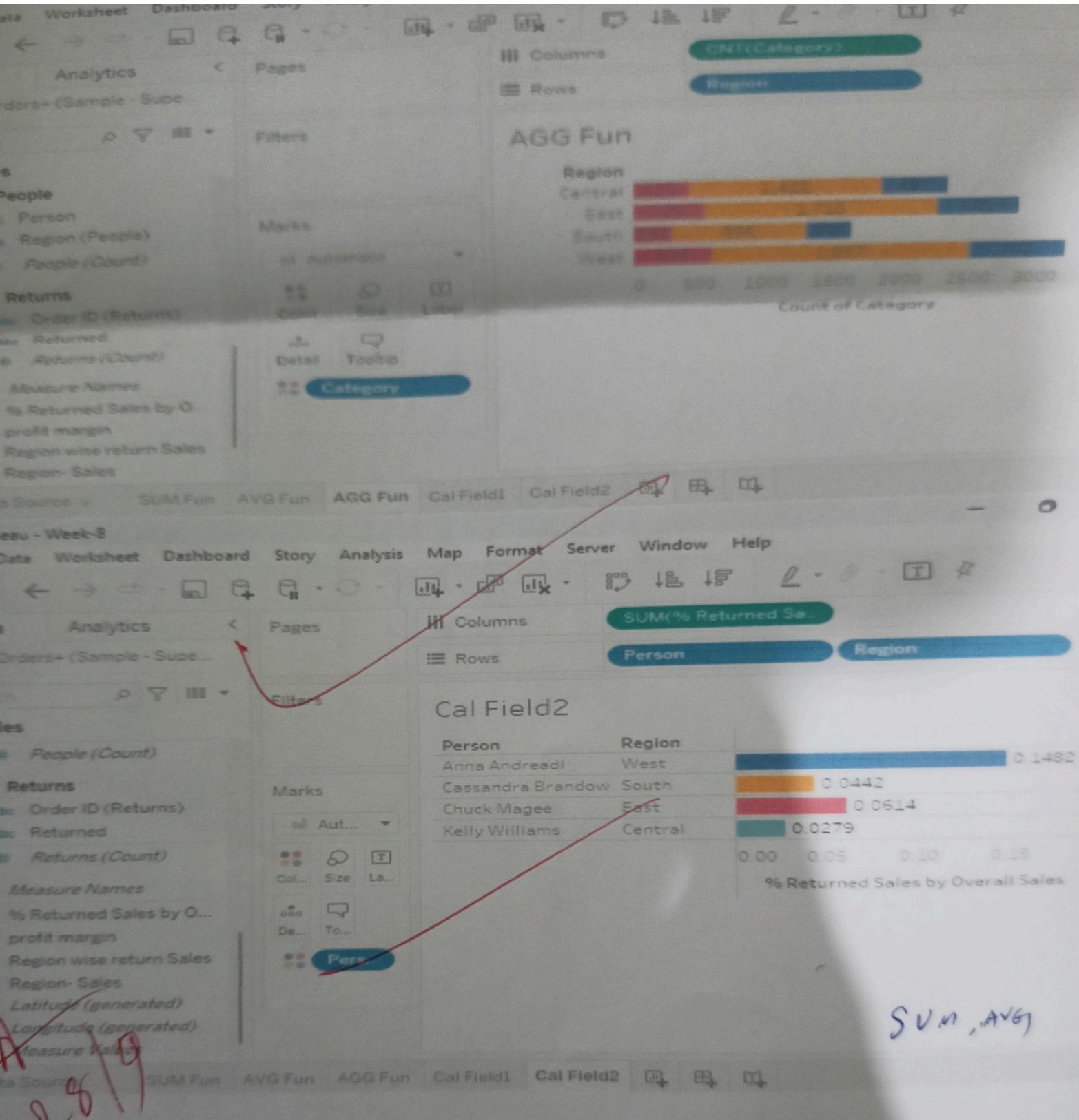
Ans. You can't

another source







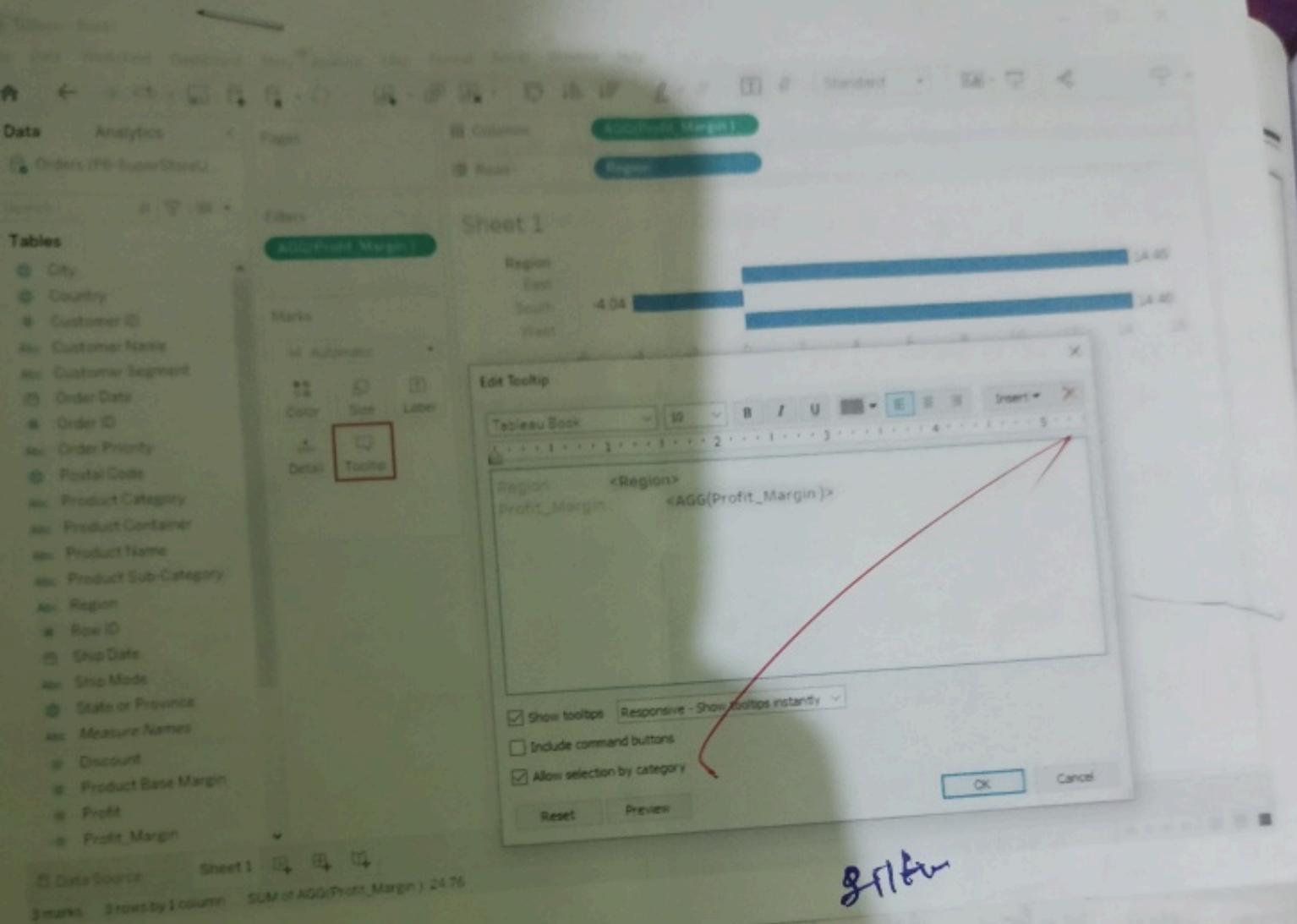


• Your data
other
gration others

• defining
specify the
regularity
in tools like

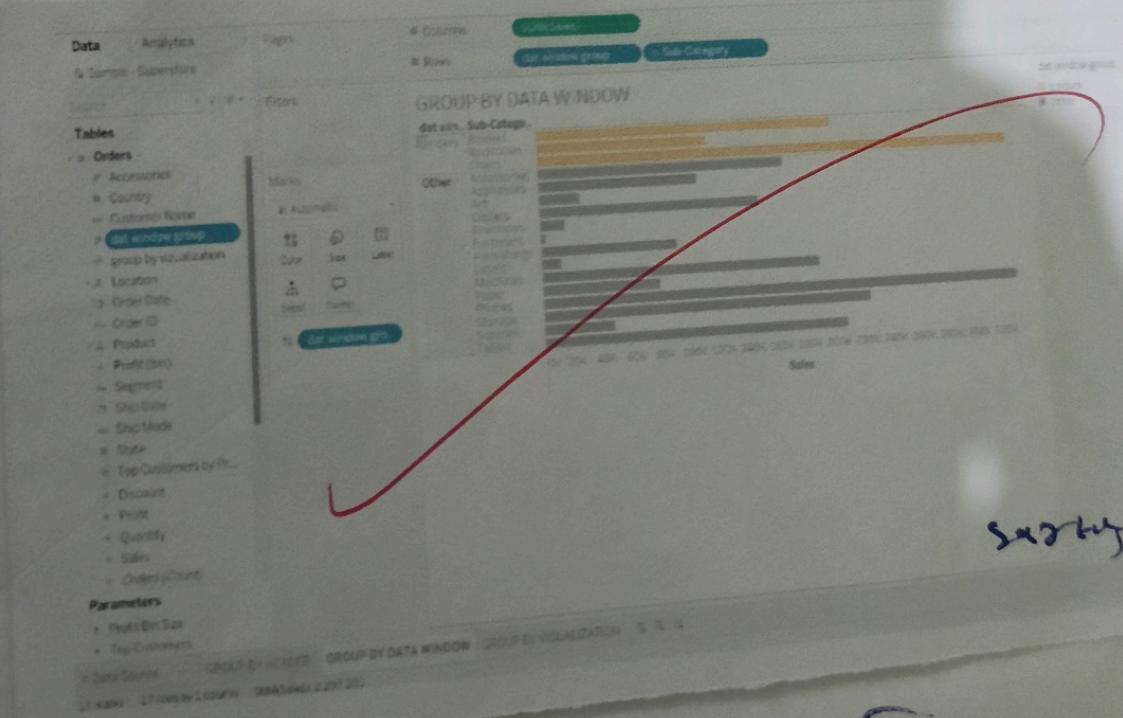
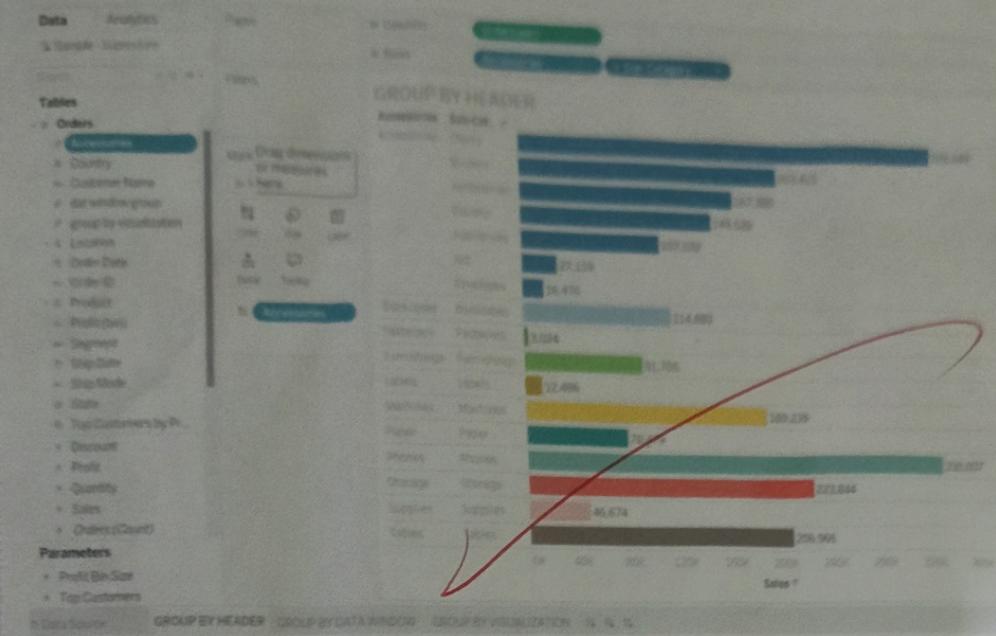
• useful ways to
interpret in
different ways
applied

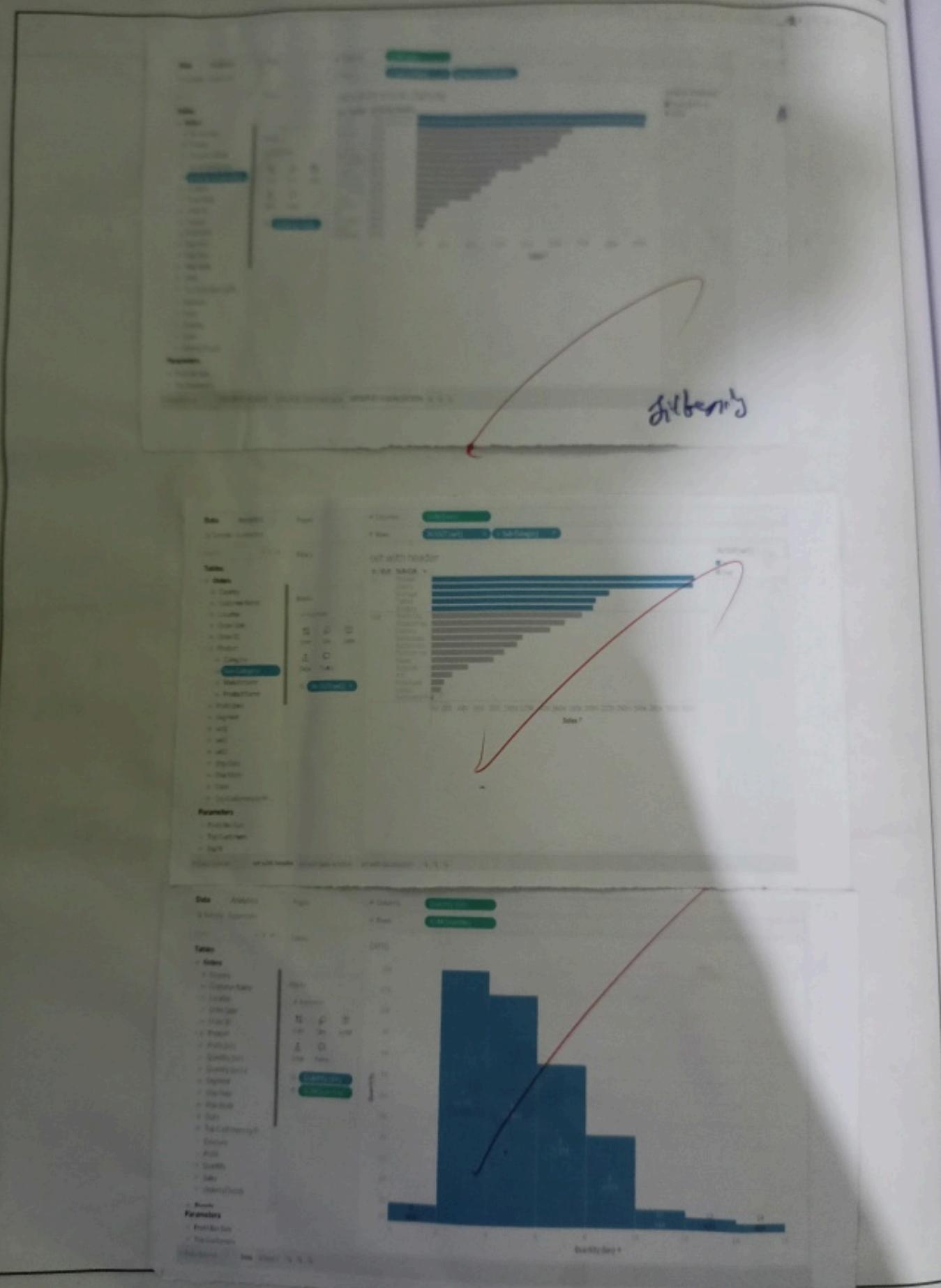
for visualization

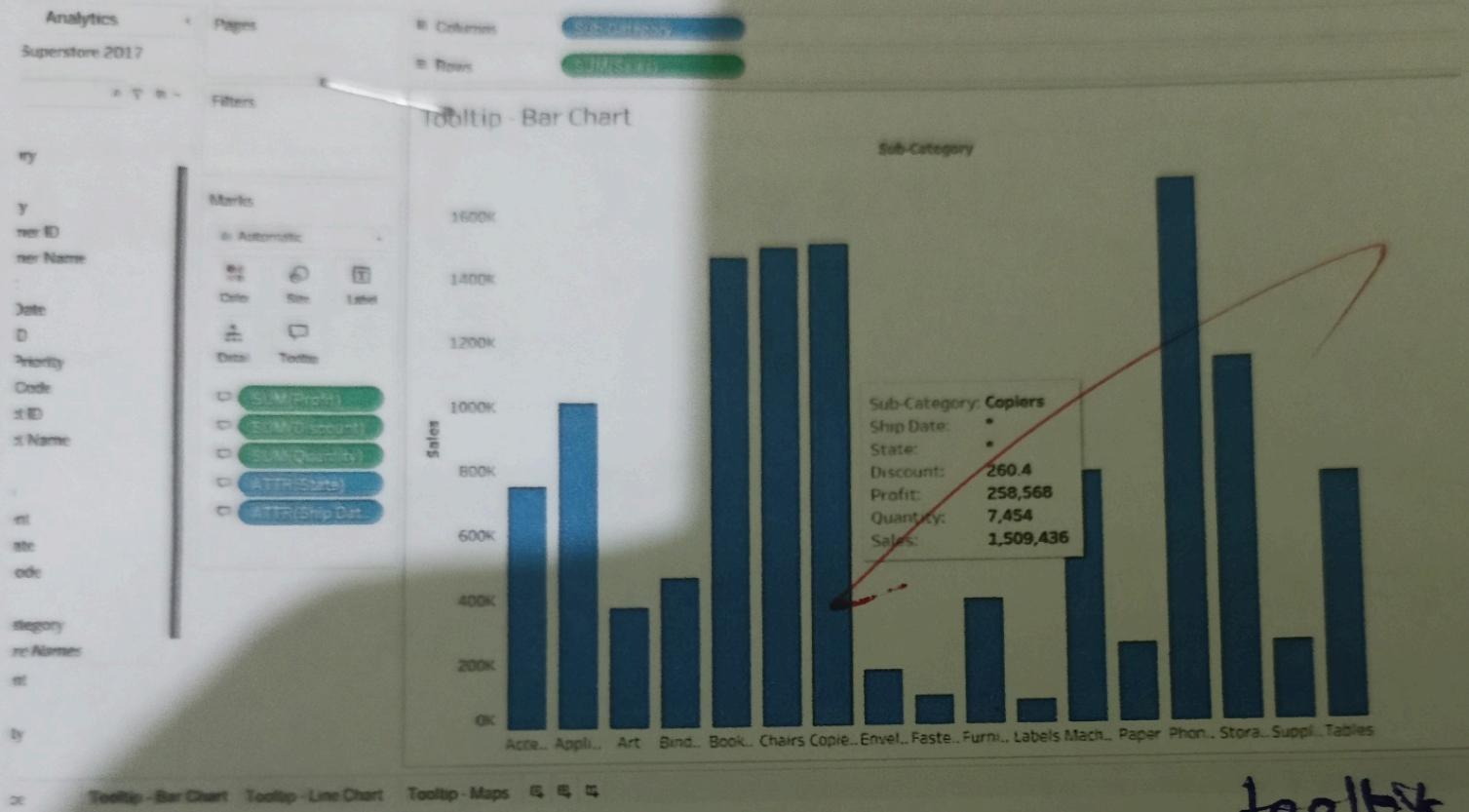


- 2) In the Create Bin dialog box, take default a few field name Quantity (bin) & size of bins: 2 that you want to and then click ok.
- 3) Drag Quantity (bin) field on to the Colors shelf.

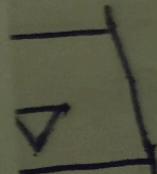
OUTPUT



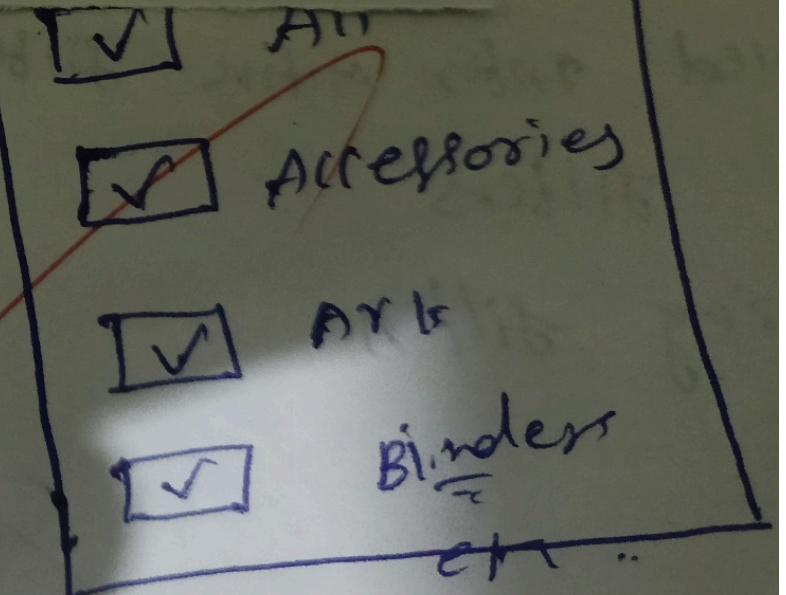
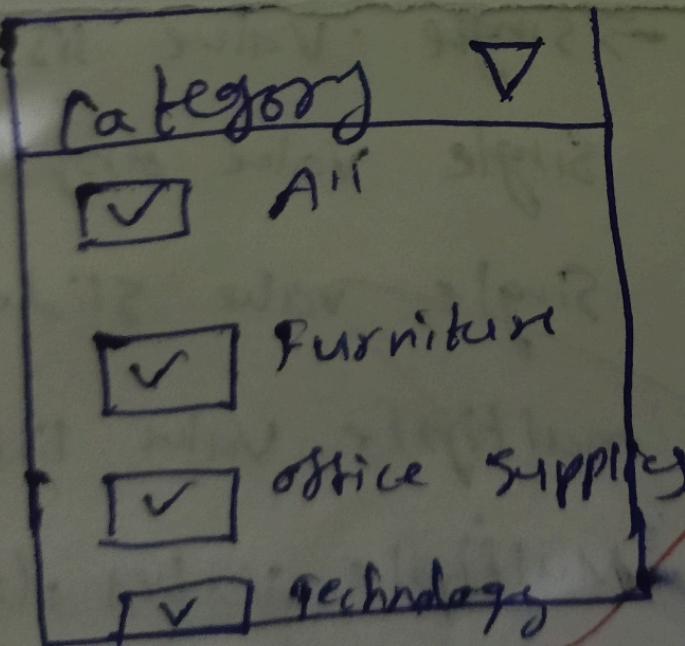




columns are



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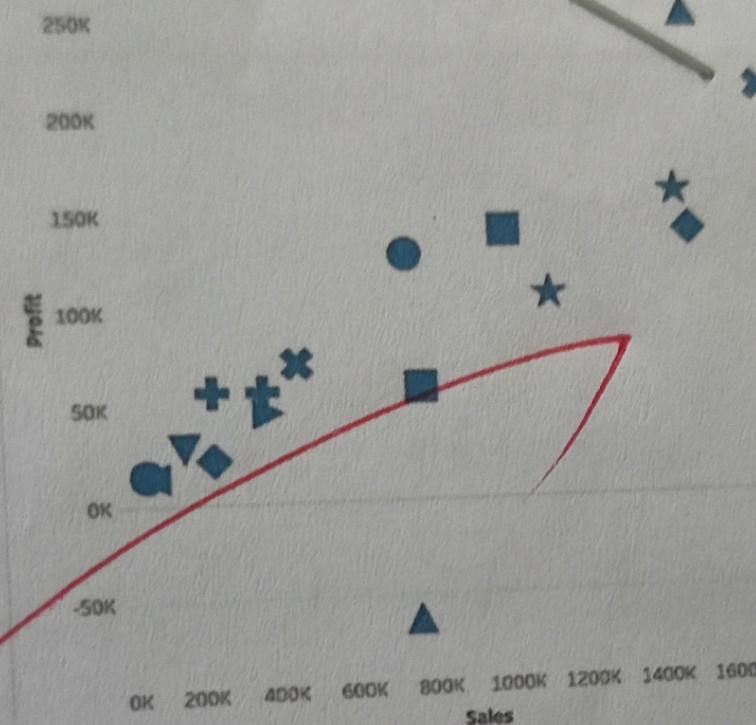
Marks

Automatic

- Color
- Size
- Label
- Detail
- Tooltip
- Shape

Sub-Category

Shapes - Scatter Chart

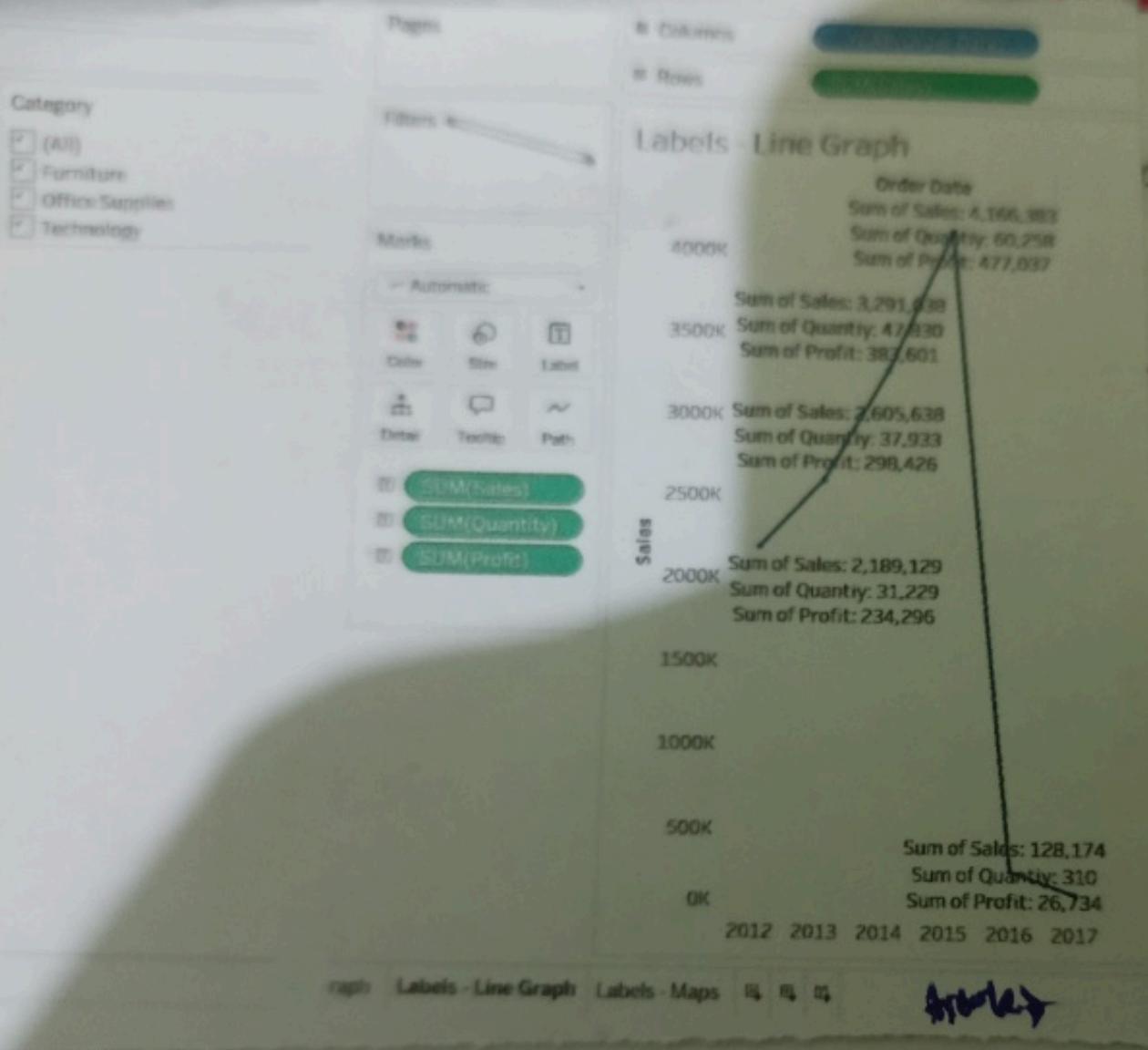


- Sub-Category
- Accessories
 - Appliances
 - ▲ Art
 - Binders
 - ★ Bookcases
 - ◆ Chairs
 - ▲ Copiers
 - ▼ Envelopes
 - ◀ Fasteners
 - Furnishings
 - Labels
 - Machines
 - ◆ Paper
 - Phones
 - ★ Storage
 - Supplies
 - ▲ Tables

Shapes - Scatter Chart

trend

you can see after,



Python/R Programming/Power BI

Show me

Show A

Show B

color!

Color with Bar! col := sum(sales)

Pages

Columns

Sum(Sales)

Rows

Category

Sub-Category

Filters

Category

Marks

Automatic

Color

Size

Label

Detail

Tooltip

Interactive Filters - Introduction

Category

Sub-Catego..

Furniture

Bookcases

Chairs

Furnishings

Tables

Office

Appliances

Art

Binders

Envelopes

Fasteners

Labels

Paper

Storage

Supplies

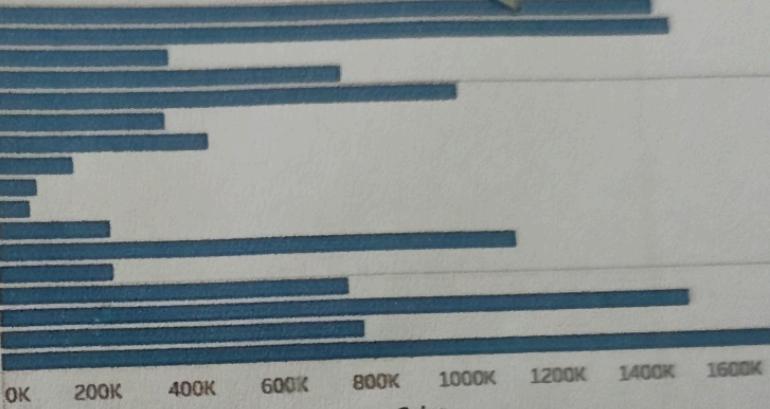
Technology

Accessories

Copiers

Machines

Phones



OK 200K 400K 600K 800K 1000K 1200K 1400K 1600K

Sales

Filters - Introduction

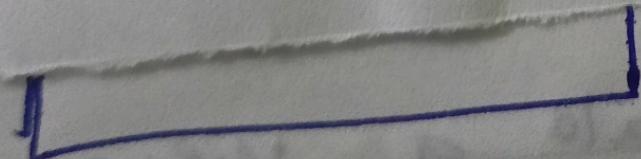
Interactive Filters - Layouts

Interactive Filters - Dependent

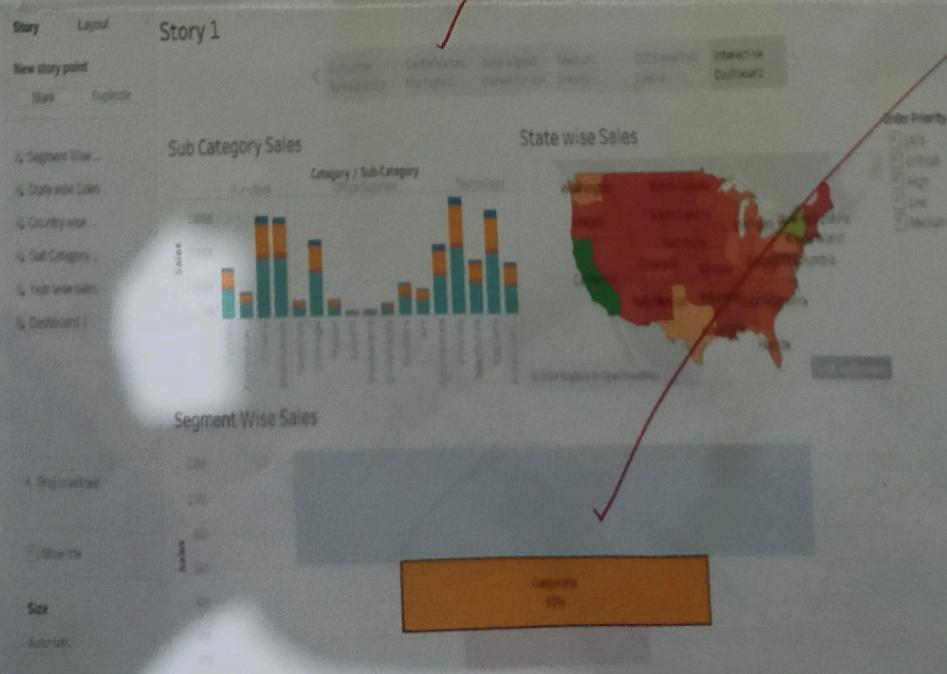
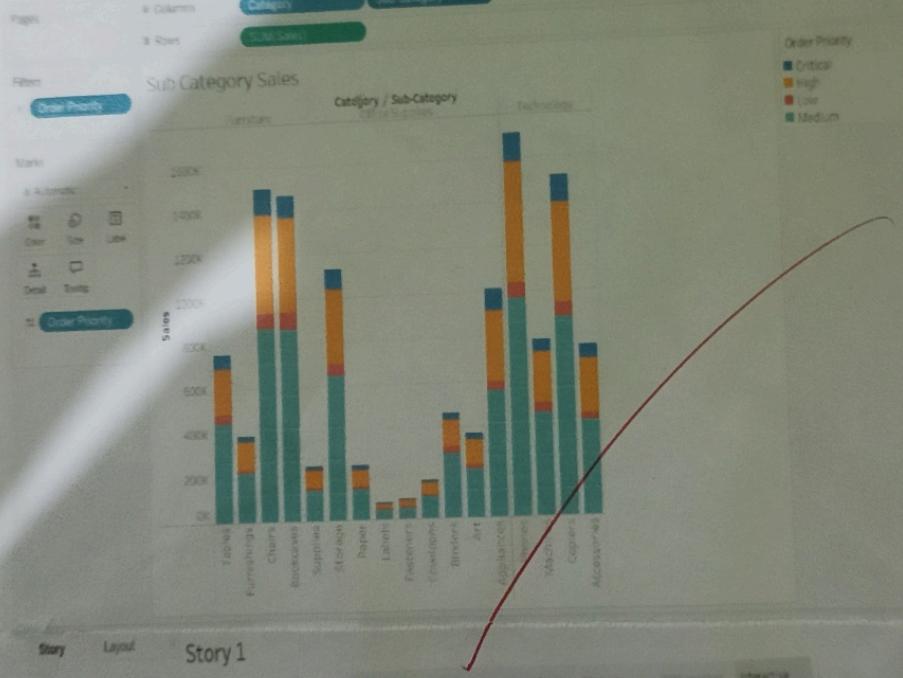
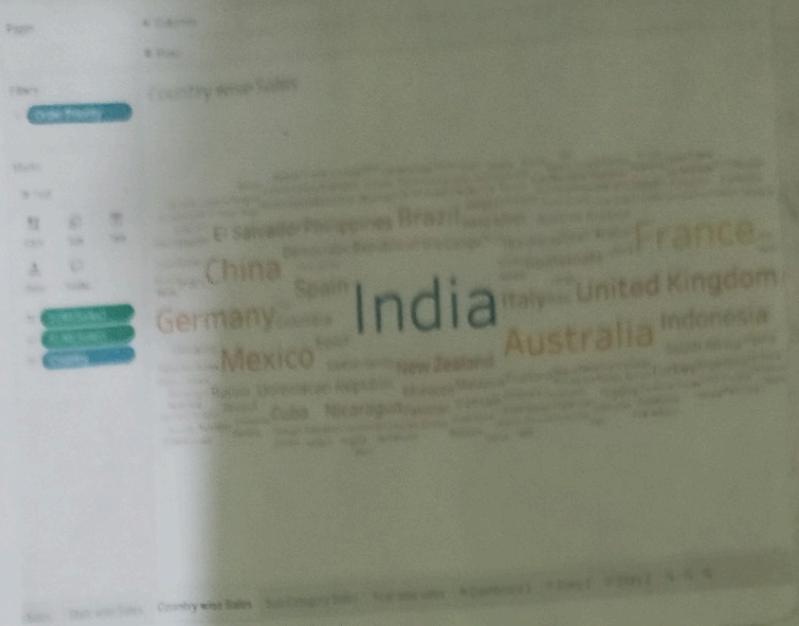
Interactive Date Filters

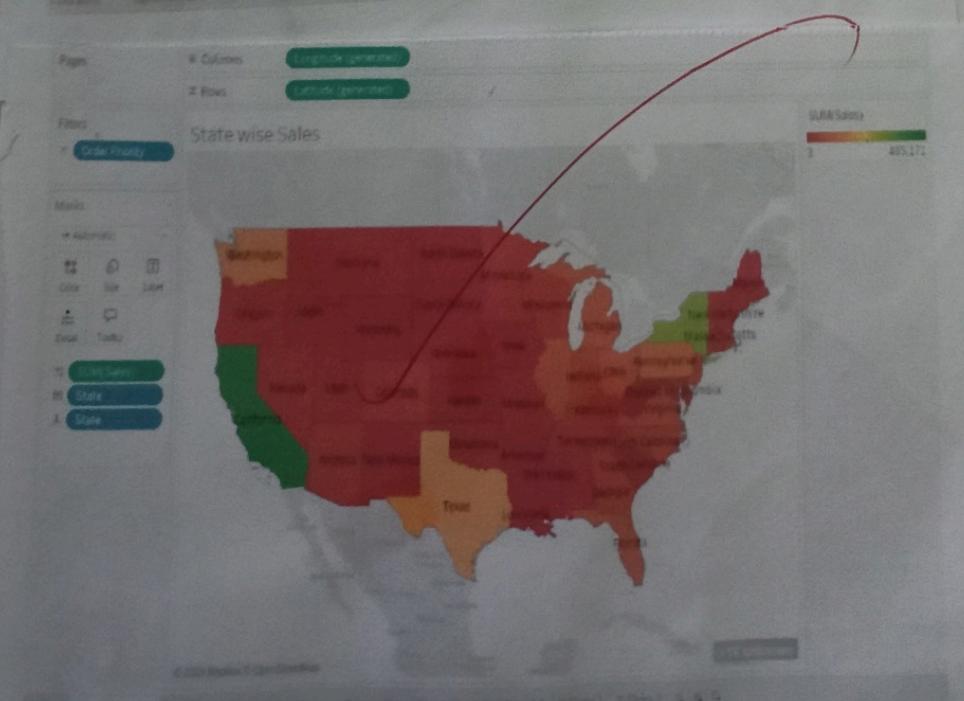
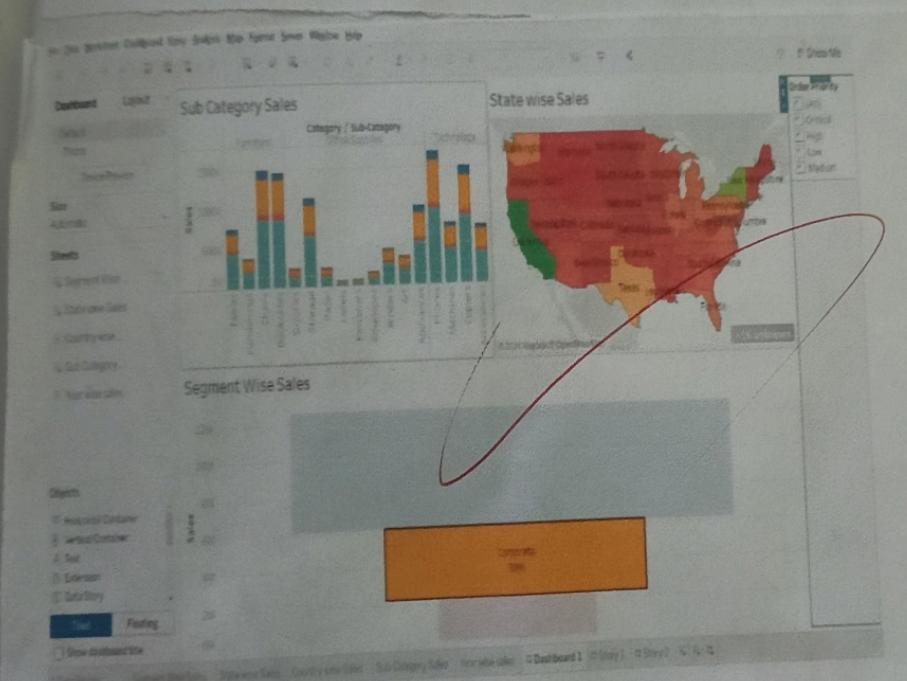
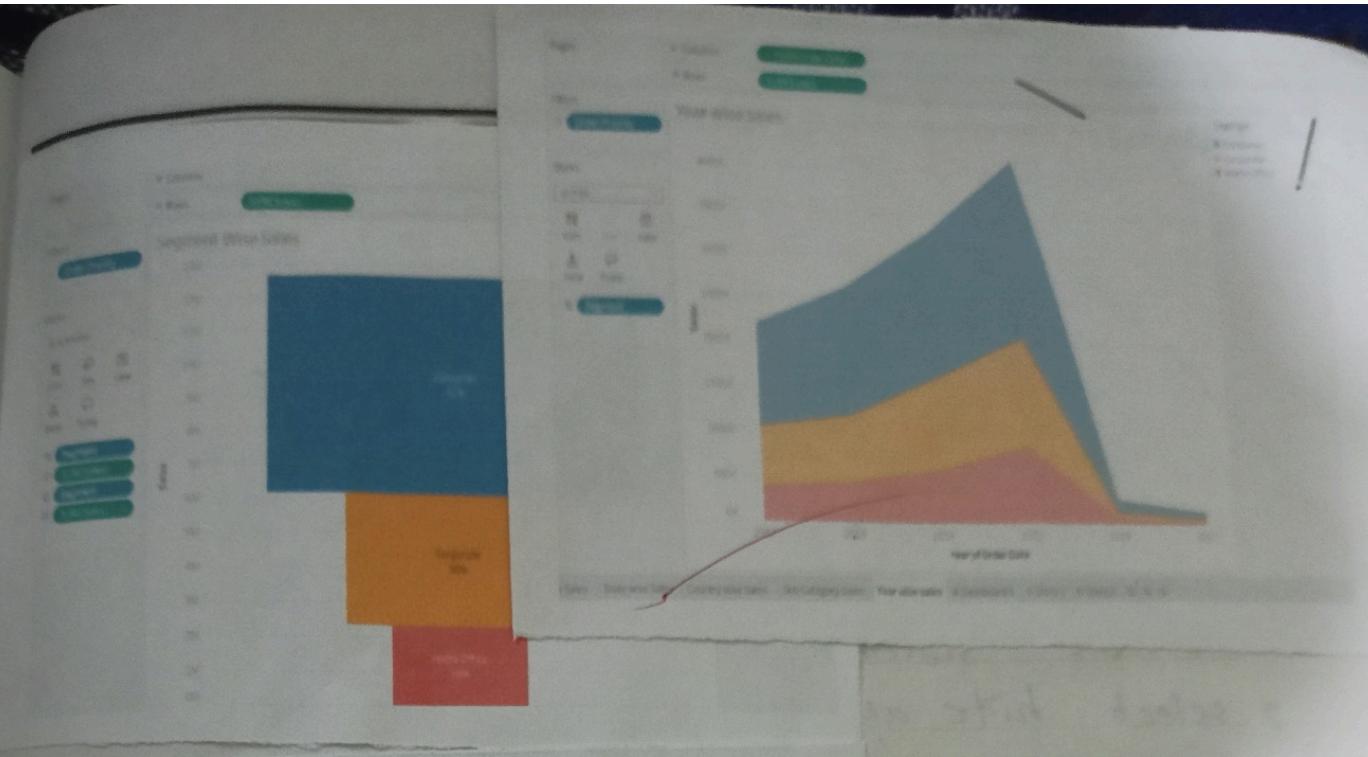
size

Point



center top , middle , bottom





area chart, donut charts

OUTPUT

