



BATCH :
LESSON :
DATE :
SUBJECT :

TABLEAU 2024

Tableau ENG

04 June 2024

Different Topics

PLEASE USE **LMS** TO JOIN THE ZOOM
MEETINGS

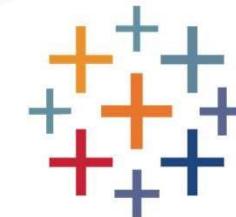


TECHPROEDUCATION



BUMP CHART

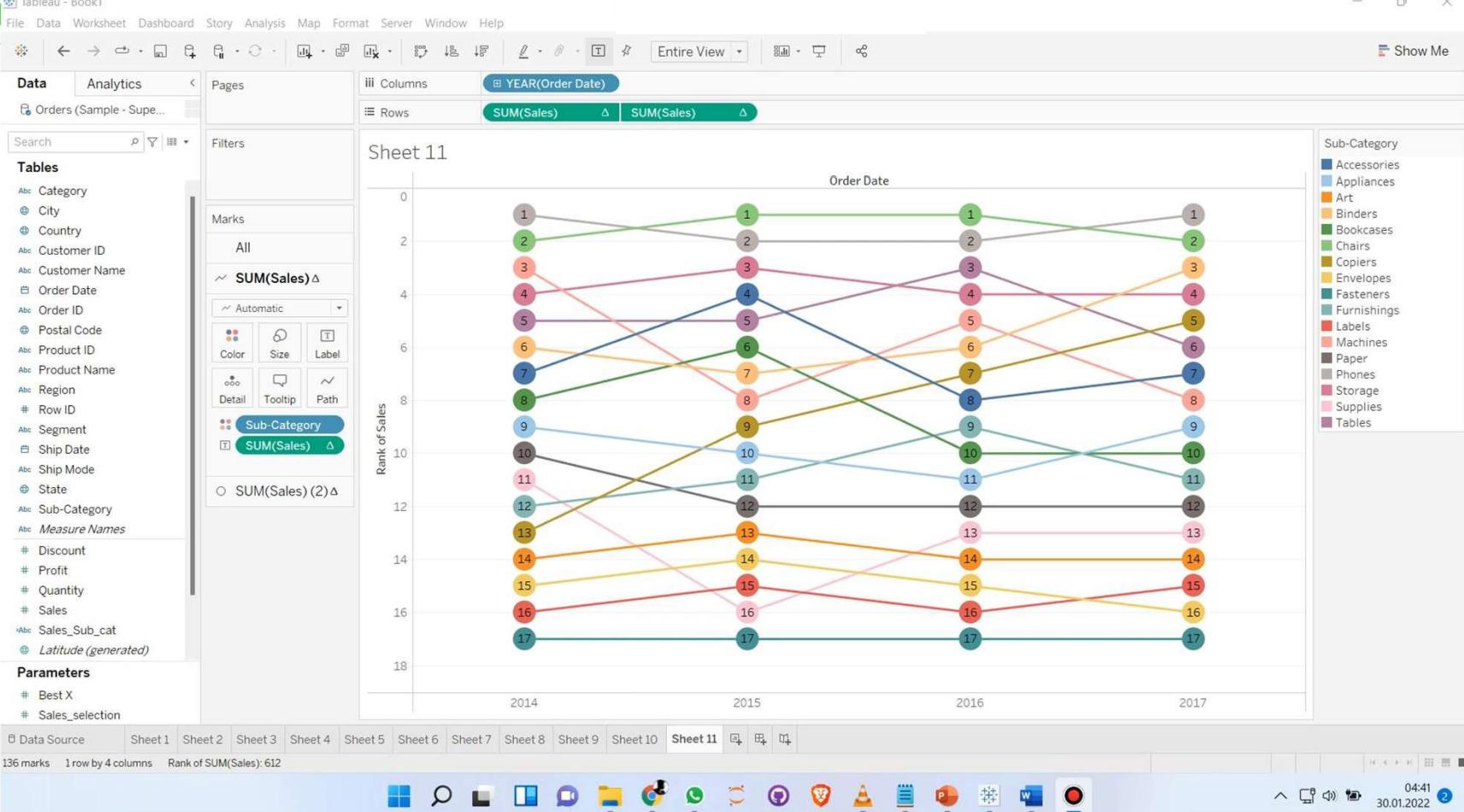
SAMPLE GRAPH



+ a b | e a u



Bump Chart





ANALYTIC PANE



Analytic Pane - 1

Tableau - Book1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Show Me

Data Analytics < Pages Columns Rows

Orders (Sample - Superstore)

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 Names
- Discount
- Profit
- Quantity
- Sales
- Sales_Sub_cat
- Latitude (generated)

Parameters

- Best X
- Sales_selection

Sheet 12

Drop field here

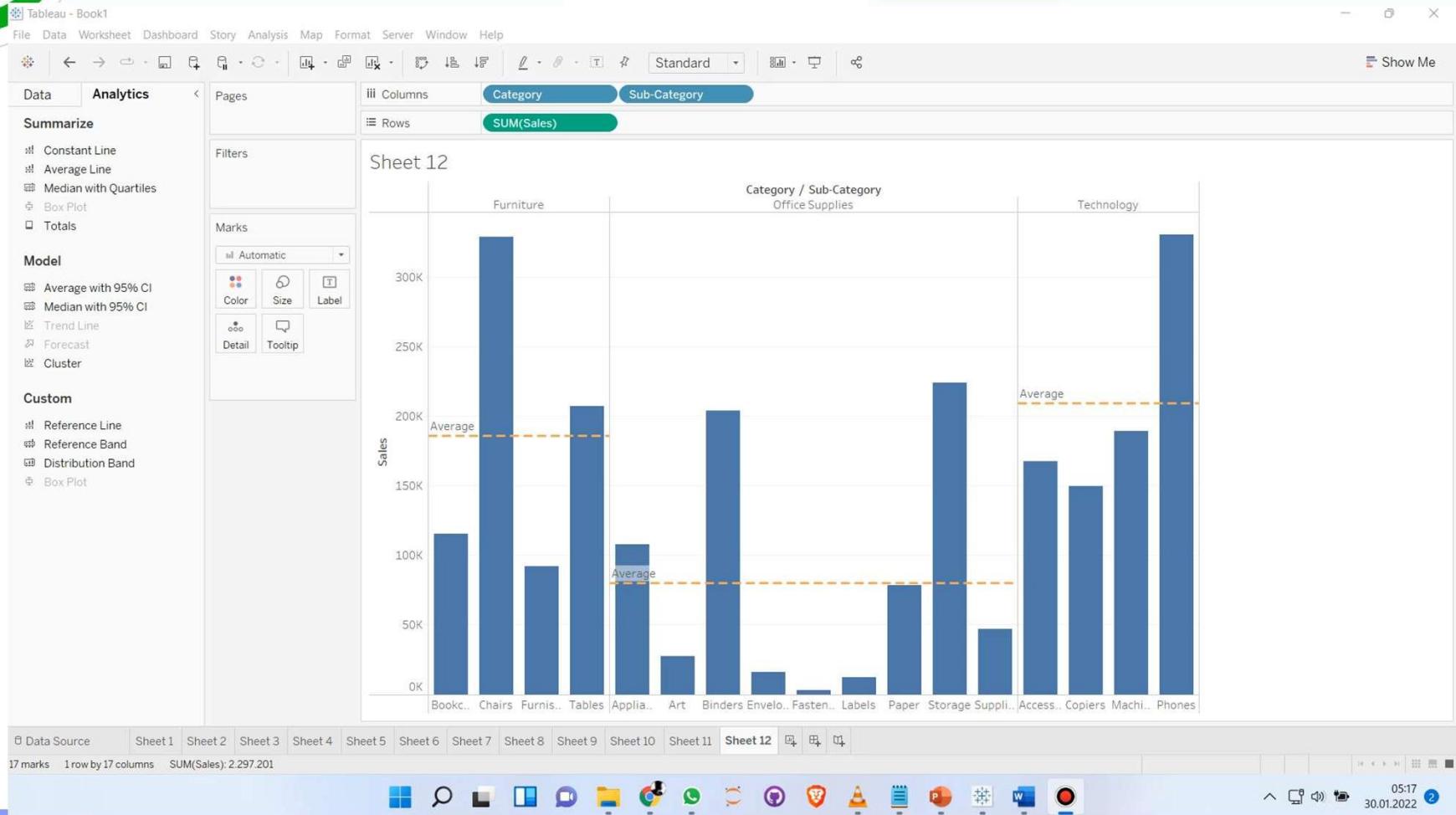
Drop field here

Drop field here

Data Source Sheet 1 Sheet 2 Sheet 3 Sheet 4 Sheet 5 Sheet 6 Sheet 7 Sheet 8 Sheet 9 Sheet 10 Sheet 11 Sheet 12

05:08 30.01.2022

Analytic Pane - 2

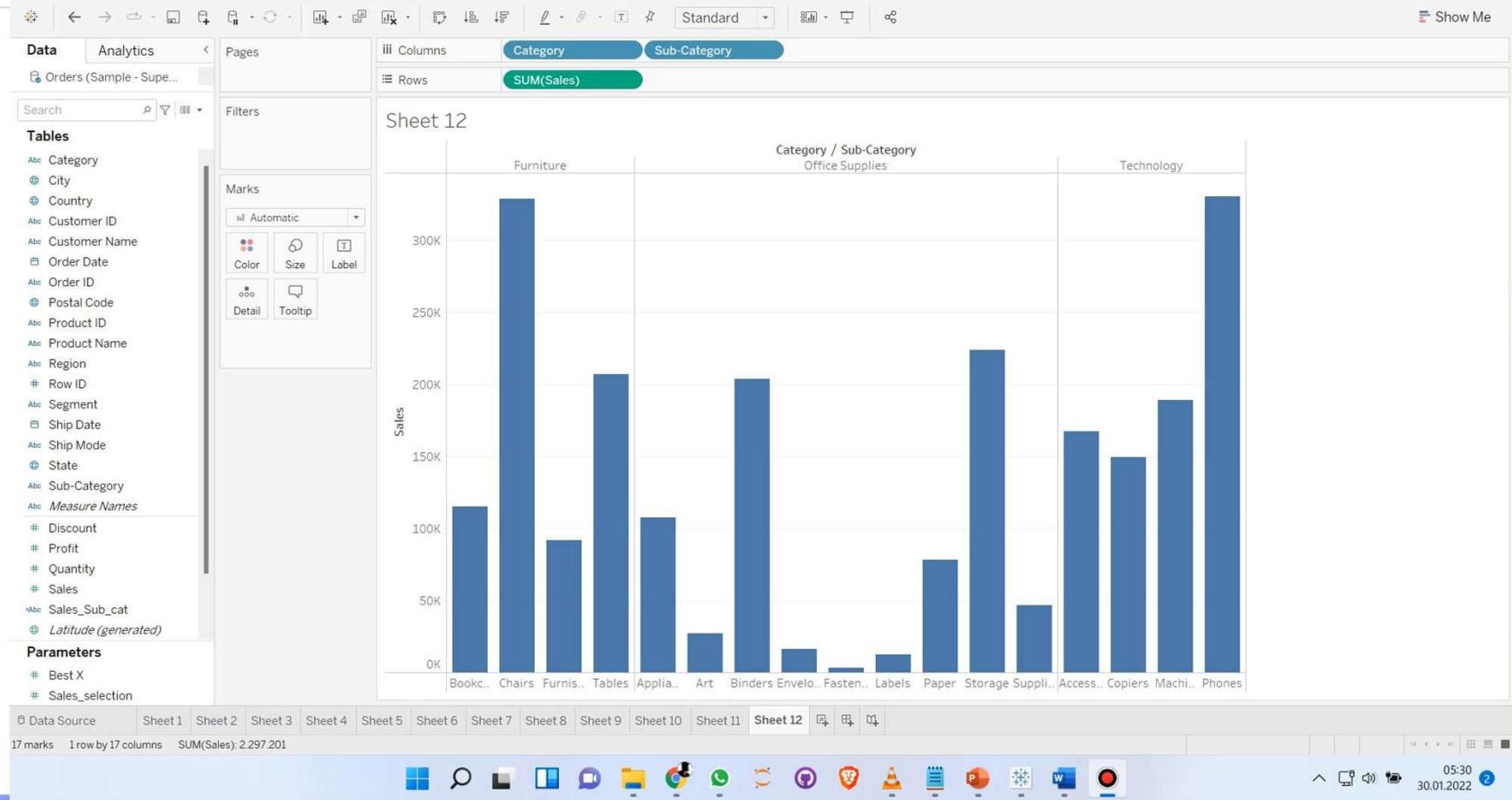


Analytic Pane - 3



Tableau - Book1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help



Analytic Pane - 4



Tableau - Book1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help



Data Analytics

Summarize

- Constant Line
- Average Line
- Median with Quartiles
- Box Plot
- Totals

Model

- Average with 95% CI
- Median with 95% CI
- Trend Line
- Forecast
- Cluster

Custom

- Reference Line
- Reference Band
- Distribution Band
- Box Plot

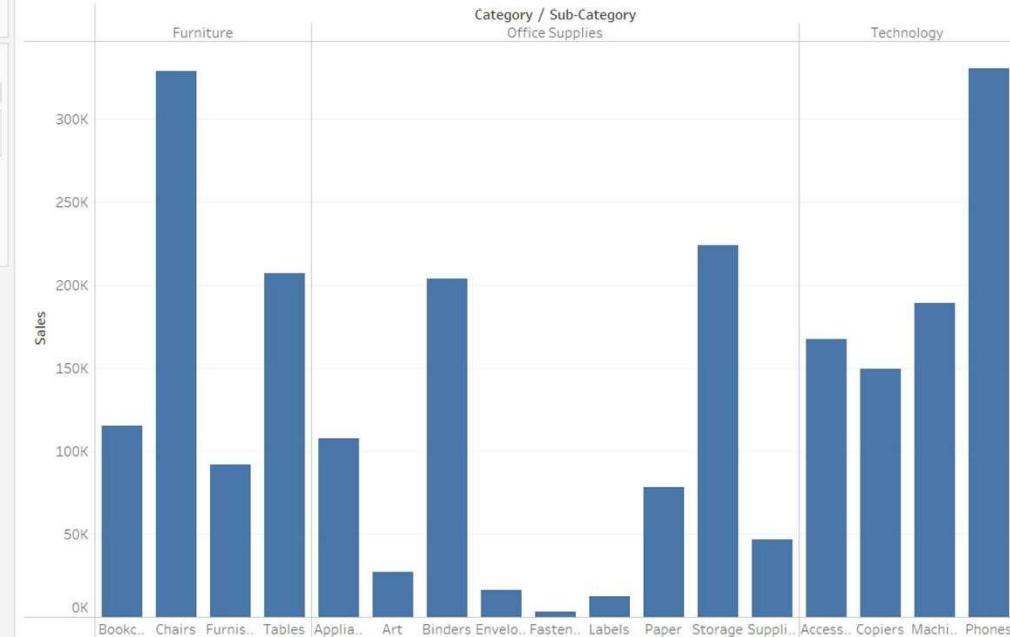
Pages

iii Columns Category Sub-Category

Rows

SUM(Sales)

Sheet 12



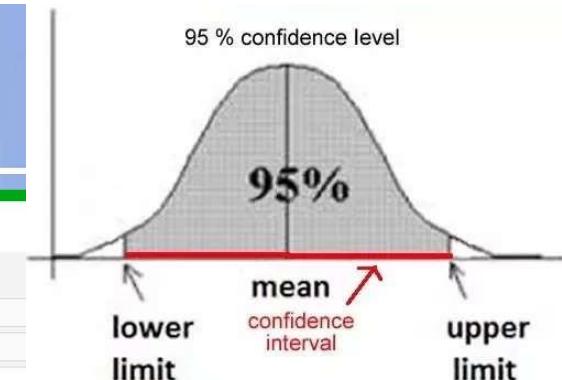
Data Source

Sheet 1 Sheet 2 Sheet 3 Sheet 4 Sheet 5 Sheet 6 Sheet 7 Sheet 8 Sheet 9 Sheet 10 Sheet 11 Sheet 12

17 marks 1 row by 17 columns SUM(Sales): 2.297.201



95 % confidence level



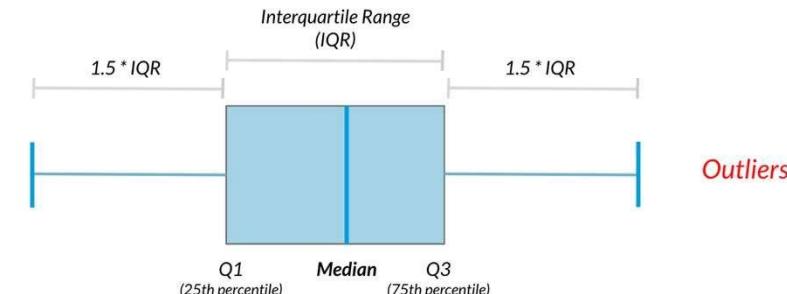
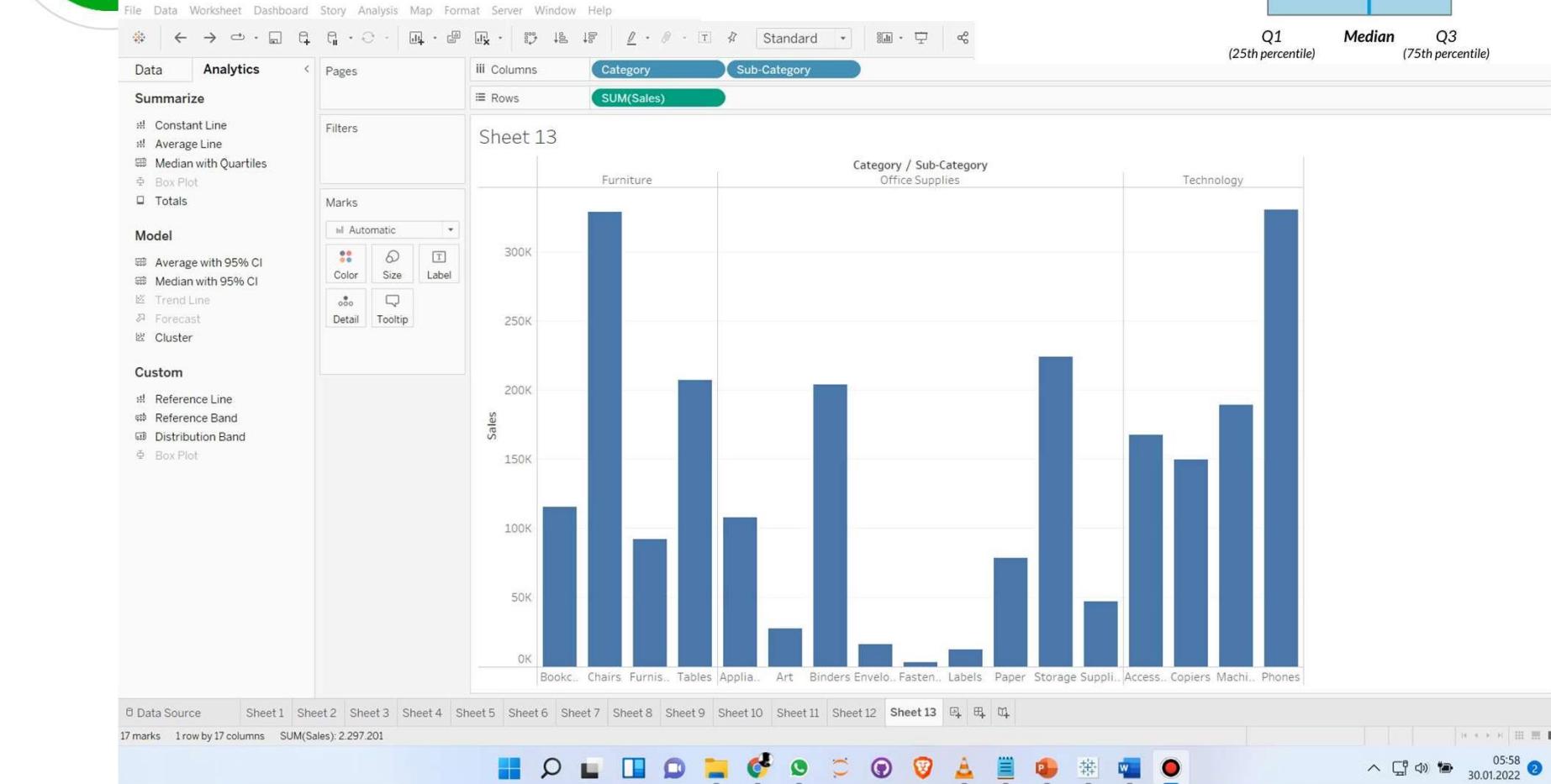
mean

confidence interval

lower limit
upper limit

05:35
30.01.2022 2

Analytic Pane - 5

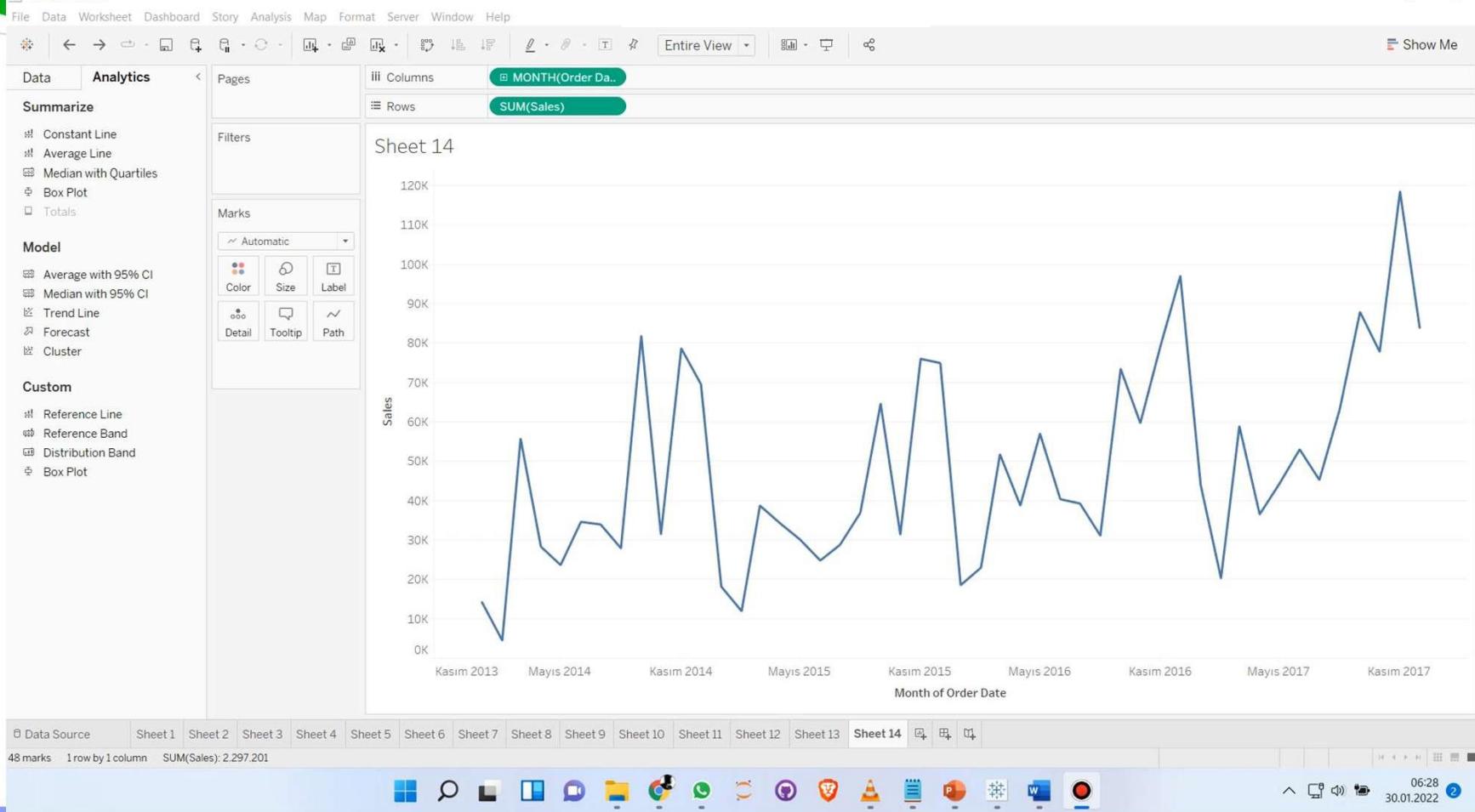


Analytic Pane - 6

The screenshot displays the Tableau software interface, specifically the Analytic Pane, which is used for creating visualizations. The interface includes:

- Top Bar:** Shows the title "Tableau - Book1" and standard window controls.
- Menu Bar:** Includes File, Data, Worksheet, Dashboard, Story, Analysis, Map, Format, Server, Window, and Help.
- Toolbar:** Features icons for zooming, navigating, and selecting data.
- Left Panel (Data Source):** Lists available fields:
 - 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 Names, Discount, Profit, Quantity, Sales, Sales_Sub_cat, Latitude (generated).
 - Parameters:** Best X, Sales_selection.
- Central Area:** The "Sheet 14" workspace. It contains two blank "Drop field here" areas for dragging and dropping data fields to create a visualization.
- Marks Card:** Located in the center-left of the workspace, it shows options for Automatic, Color, Size, Text, Detail, and Tooltip.
- Bottom Navigation:** Shows tabs for Data Source, Sheet 1, Sheet 2, Sheet 3, Sheet 4, Sheet 5, Sheet 6, Sheet 7, Sheet 8, Sheet 9, Sheet 10, Sheet 11, Sheet 12, Sheet 13, and Sheet 14. The "Sheet 14" tab is selected.
- Taskbar:** At the bottom, it includes icons for Windows Start, Task View, File Explorer, Google Chrome, WhatsApp, VLC, FileZilla, Microsoft Edge, and Microsoft Word, along with system status indicators like battery level and date/time (06:16, 30.01.2022).

Analytic Pane - 7





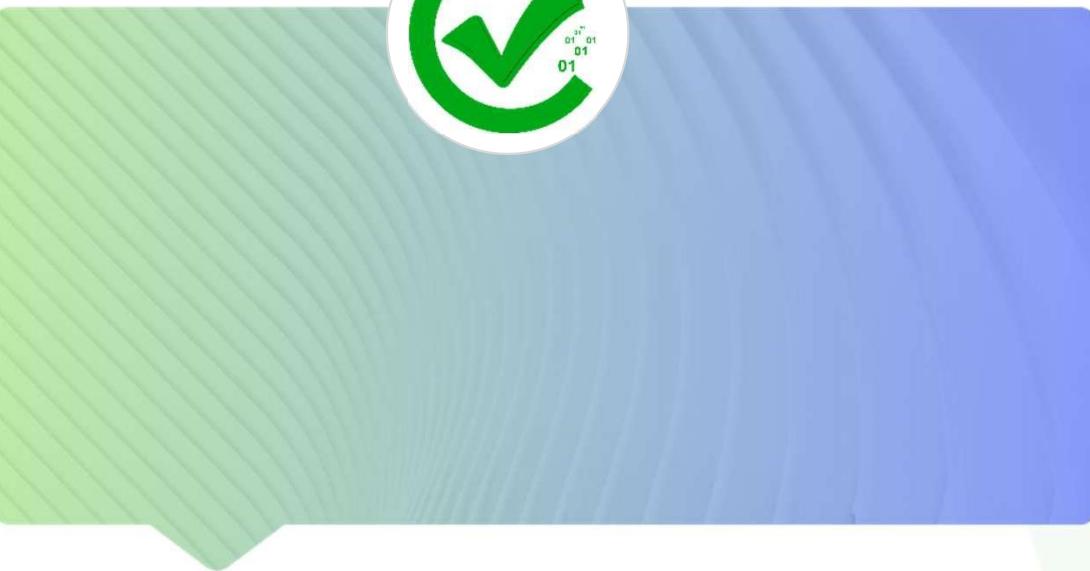
Order Details

- Create Order No
- Calculate shipping time for each ship mode
- Draw a graph with which we can see top x customers based on number of orders they made, we should be able to filter this graph by ship mode



Sales Meta

- Show me the sales line chart of each year-month
- Show me the sales records by months of total data
- Create order no
- Create product no



**I have no problem with the first
5 lectures!**





Tableau - 6



Different Topics



+ a b | e a u



JOIN

JOIN – 1

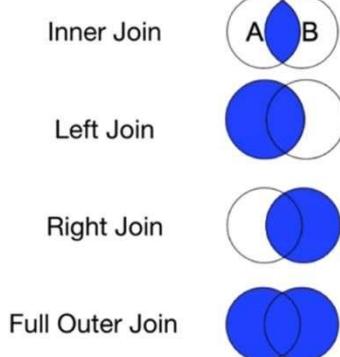


	ID	Author	Sales Number
1	20030	Dan Brown	20
2	20060	Agatha Christie	40
4	20080	Ahmet Ümit	25
5	20090	Ahmet Ümit	35
6	20110	J.R.R. Tolkien	20

Table - 1

1	Book Name	Price	Publish #	ID
2	Başlangıç	25	24	20030
3	Cehennem	25	20	20040
4	On Küçük Zenci	12	31	20060
5	İstanbul Hatırası	20	18	20080
6	Patasana	19	64	20090
7	Yüzük Kardeşliği	40	14	20100

Table - 2



ID	Author	Sales Number	Book Name	Price	Publish #	ID
20030	Dan Brown	20	Başlangıç	25	24	20030
20060	Agatha Christie	40	On Küçük Zenci	12	31	20060
20080	Ahmet Ümit	25	İstanbul Hatırası	20	18	20080
20090	Ahmet Ümit	35	Patasana	19	64	20090

Inner Join

JOIN – Inner Join



Tablo 1 (Book List)

Tablo 1 is made of 1 table. ①

Tablo 1

Tablo 1 (Book List) 3 fields 5 rows 5 rows

Name
Tablo 1

Fields

Type	Field Name	Physical Table	Remote Field ...
#	ID	Tablo 1	ID
Abc	Author	Tablo 1	Author
#	Sales Number	Tablo 1	Sales Number

Tablo 1 is made of 2 tables. ①

Tablo 1 Tablo 2

#	Abc	#	
Tablo 1	Tablo 1	Tablo 1	Sales Number
ID	Author	Author	
20030	Dan Brown		20
20060	Agatha Christie		40
20080	Ahmet Ümit		25
20090	Ahmet Ümit		35
20110	J.R.R. Tolkien		20

JOIN – Inner Join



Table 1+ (Book List)

Search

Tables

- Table 1
 - Author
 - # ID
 - # Sales Number
- Table 2
 - Book Name
 - # ID (Table 2)
- Measure Names

Table 2

- Price
- Publish #
- # Table 1 (Count)
- # Measure Values

Search

- Create Calculated Field...
- Create Parameter...
- Group by Folder
- Group by Data Source Table
- Sort by Name
- Sort by Data Source Order
- Hide All Unused Fields
- Show Hidden Fields
- Expand All
- Collapse All

Table 2

Folders

- Author
- Book Name
- # ID
- # ID (Table 2)
- # Sales Number
- Measure Names
- Price
- Publish #
- # Table 1 (Count)
- # Measure Values



JOIN – Inner Join

Sheet 1

Book Name	Author
Başlangıç	Dan Brown
İstanbul Hatırası	Ahmet Ümit
On Küçük Zenci	Agatha Christie
Patasana	Ahmet Ümit

JOIN – Left & Right Join



The screenshot shows the Tableau interface with a connection to "Book List" (Microsoft Excel). A tooltip indicates that Tablo 1 is made of 2 tables. Below, the data from Tablo 1 is displayed in a grid format:

#	Tablo 1	Abc	Tablo 1	#	Tablo 1	Abc	Tablo 2	#	Tablo 2	#	Tablo 2	#	Tablo 2
ID	Author			Sales Number		Book Name	Price		Publish #		ID (Tablo 2)		
20030	Dan Brown			20	Başlangıç		25		24		20030		
20060	Agatha Christie			40	On Küçük Zenci		12		31		20060		
20080	Ahmet Ümit			25	Istanbul Hatrası		20		18		20080		
20090	Ahmet Ümit			35	Patasana		19		64		20090		

JOIN – Cross Database



Product-Meta.csv (Multiple Connections)

Connection: Live Extract

Filters: 0 | Add

Satışlar is made of 2 tables. ⓘ

Satışlar → Product-Meta.csv

Work on physical layer

Satışlar									10 fields 51290 rows
#	Abc	Abc	Abc	Abc	#	Abc	Abc	Abc	/
Satışlar	Satışlar	Satışlar	Satışlar	Satışlar	Satışlar	Product-Meta.csv	Product-Meta.csv	Kategori	A
Satır ID	Sipariş ID	Sipariş Tarihi	Pazar	Ürün ID	Satış	Urun ID	Urun ID	Kategori	L
1	MX-2015-SC2057582-42279	2.10.2015	LATAM	OFF-LA-4658	13,08	OFF-LA-4658	Office Supplies	L	
2	MX-2013-KW1657028-41562	15.10.2013	LATAM	FUR-FU-6238	252,16	FUR-FU-6238	Furniture	F	
3	MX-2013-KW1657028-41562	15.10.2013	LATAM	FUR-BO-4845	193,28	FUR-BO-4845	Furniture	B	
4	MX-2013-KW1657028-41562	15.10.2013	LATAM	OFF-BI-3720	35,44	OFF-BI-3720	Office Supplies	B	
5	MX-2013-KW1657028-41562	15.10.2013	LATAM	OFF-AR-5905	71,60	OFF-AR-5905	Office Supplies	A	
6	MX-2013-KW1657028-41562	15.10.2013	LATAM	OFF-EN-4446	56,12	OFF-EN-4446	Office Supplies	E	
7	MX-2014-DP1300018-41909	27.09.2014	LATAM	OFF-EN-4446	56,12	OFF-EN-4446	Office Supplies	E	
8	MX-2014-DP1300018-41909	27.09.2014	LATAM	TEC-MA-5003	344,64	TEC-MA-5003	Technology	M	

Data Source: Sheet 1

JOIN – Cross Database



Product-Meta.csv (Multiple Connections)

Search

Tables

- Product-Meta.csv
 - Alt Kategori
 - Kategori
 - Urun Adi
 - Urun ID
- Satışlar
 - Pazar
 - Satır ID
 - Sipariş ID
 - Sipariş Tarihi
 - Ürün ID
- Measure Names
- Satışlar
 - Satış
 - Satışlar (Count)
 - Measure Values

Filters

Marks

- Automatic
- Colour
- Size
- Text
- Detail
- Tooltip

Rows Urun ID Ürün ID

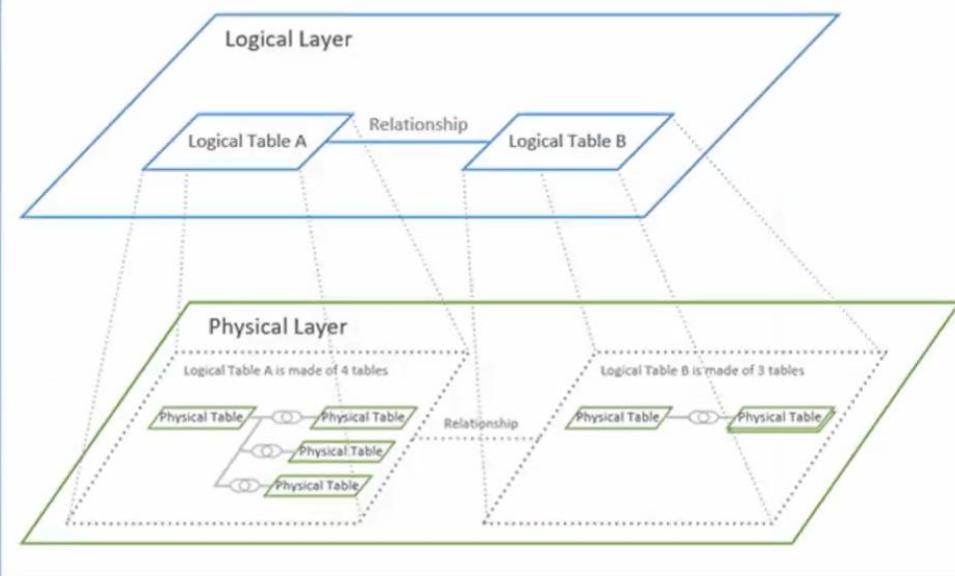
Sheet 1

Urun ID	Ürün ID
FUR-BO-3174	FUR-BO-3174
FUR-BO-3175	FUR-BO-3175
FUR-BO-3176	FUR-BO-3176
FUR-BO-3177	FUR-BO-3177
FUR-BO-3409	FUR-BO-3409
FUR-BO-3615	FUR-BO-3615
FUR-BO-3616	FUR-BO-3616
FUR-BO-3617	FUR-BO-3617
FUR-BO-3618	FUR-BO-3618
FUR-BO-3621	FUR-BO-3621
FUR-BO-3623	FUR-BO-3623
FUR-BO-3624	FUR-BO-3624
FUR-BO-3625	FUR-BO-3625
FUR-BO-3626	FUR-BO-3626
FUR-BO-3627	FUR-BO-3627
FUR-BO-3628	FUR-BO-3628
FUR-BO-3629	FUR-BO-3629
FUR-BO-3630	FUR-BO-3630
FUR-BO-3631	FUR-BO-3631
FUR-BO-3632	FUR-BO-3632
FUR-BO-3634	FUR-BO-3634
FUR-BO-3635	FUR-BO-3635
FUR-BO-3636	FUR-BO-3636
FUR-BO-3637	FUR-BO-3637

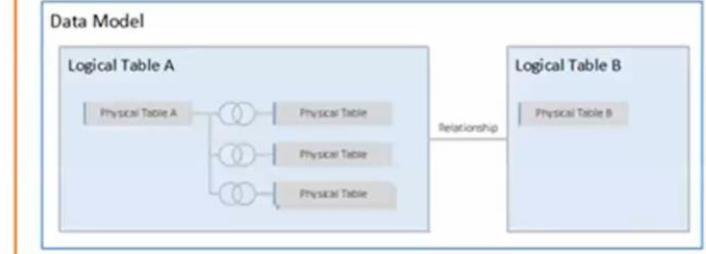
Blending Intro



Data Source



Data Source





Logical Layer & Physical Layer

LOGICAL LAYER

Relationships canvas in the Data Source page

Tables that you drag here are called logical tables

Logical tables can be related to other logical tables

Logical tables are like containers for physical tables

Level of detail is at the row level of the logical table

Logical tables remain distinct (normalized), not merged in the data source

PHYSICAL LAYER

Join/Union canvas in the Data Source page

Tables that you drag here are called physical tables

Physical tables can be joined or unioned to other physical tables

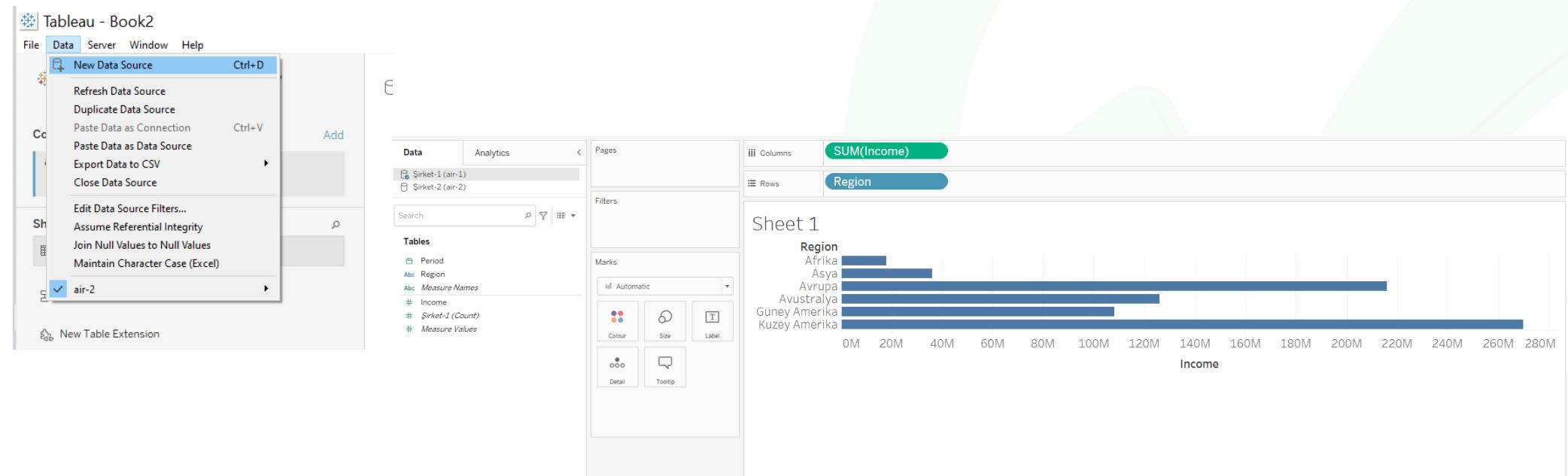
Double-click a logical table to see its physical tables

Level of detail is at the row level of merged physical tables

Physical tables are merged into a single, flat table that defines the logical table

Blending Exmpl 1 Part 1

Use air 1, air 2 data sets. Convert the year data as date type. To open the second one use Data- New Data Source



Blending Example 1 Part 2

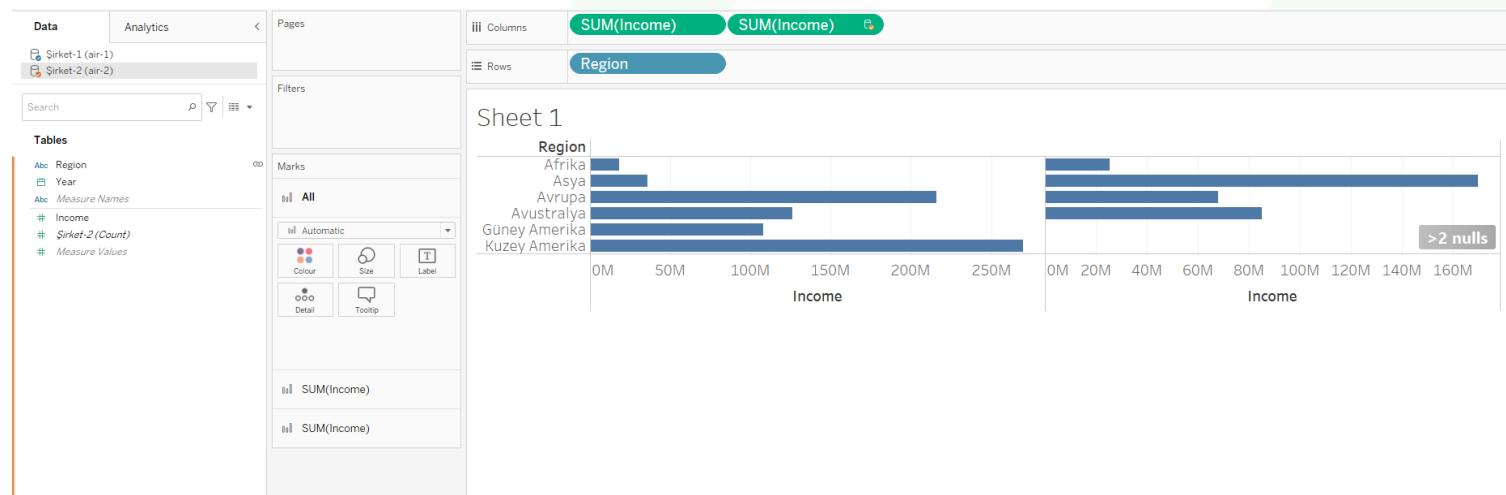


Sirket-1 (air-1)
Sirket-2 (air-2)

Search

Tables

- Abc Region
- Year
- Abc Measure Names
- # Income
- # Sirket-2 (Count)
- # Measure Values



Blending Example 1 Part 3



Sirket-1 (air-1)
Sirket-2 (air-2)

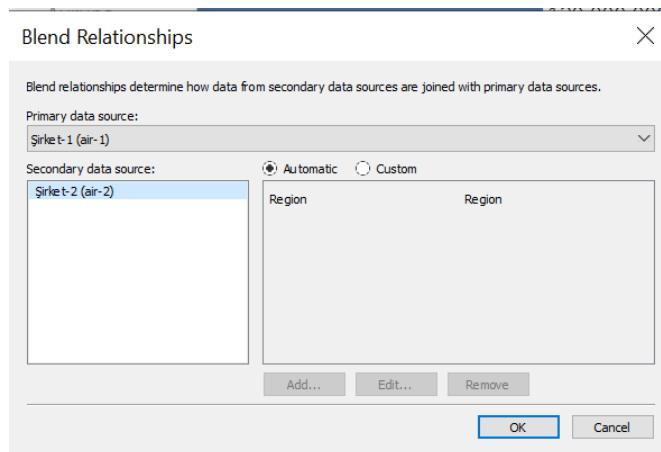
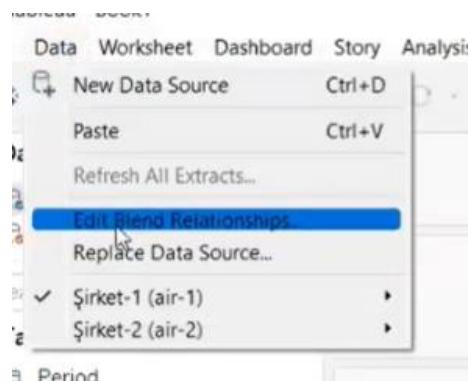
Search Filter

Tables

- Period
 - Add to Sheet
 - Show Filter
 - Duplicate
 - Rename
 - Hide
 - Create
 - Transform
 - Convert to Discrete
 - Change Data Type
 - Default Properties
- Region
- Measure Names
- Income
- Sirket-1 (Count)
- Measure Values



Blending Exmpl 1 Part 4



Blend Relationships

Blend relationships determine how data from secondary data sources are joined with primary data sources.

Primary data source:

Şirket-1 (air-1)

Secondary data source:

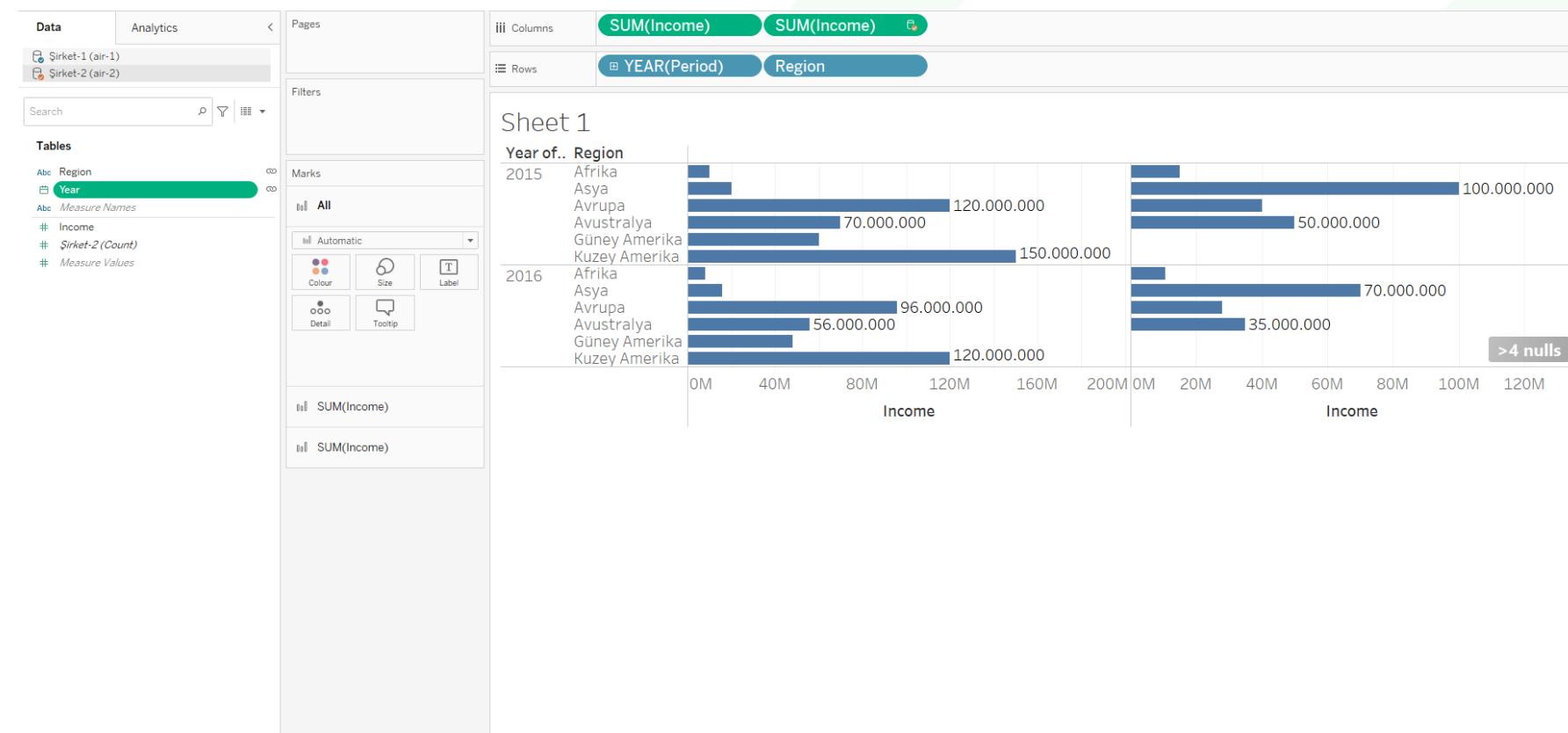
Automatic Custom

Şirket-2 (air-2)	Period	Year
	Region	Region

Add... Edit... Remove

OK Cancel

Blending Exmpl 1 Part 5





JOIN & BLENDING



First **Combine** Then **Aggregate**



First **Aggregate** Then **Combine**

JOIN & BLENDING

JOIN

Customers

CustomerID	Name
1	Maria
2	John
3	Georg

Orders

CustomerID	Sales	Date
1	50	2020
	30	2023
2	20	2023



Left



CustomerID	Name	CustomerID	Sales	Date
1	Maria	1	50	2020
1	Maria	1	30	2023
2	John	2	20	2023
3	Georg	NULL	NULL	NULL

BLENDING

Customers

CustomerID	Name
1	Maria
2	John
3	Georg

Orders



BLENDING

CustomerID	Sales	Date
1	50	2020
	30	2023
2	20	2023



CustomerID	Name	CustomerID	Sales	Date
1	Maria	1	80	*
2	John	2	20	2023
3	Georg	NULL	NULL	NULL

Union



Connections

Union Microsoft Excel

Add

Sheets

- A Sınıfı
- B Sınıfı
- C Sınıfı

New Union

New Table Extension

Tables in union: 2

Apply OK

Union

Specific (manual) Wildcard (automatic)

Connection: Union

- A Sınıfı
- B Sınıfı

Tables in union: 2

Apply OK

Union (Union)

Union 5 fields 9 rows

Table Details	Abc	Abc	#	Abc	Abc
Öğrenci Adı	Union	Union	Union	Union	Union
Ders	Ders		Aldığı Not	Sheet	Table Name
Ahmet	Matematik		85	A Sınıfı	A Sınıfı
Zuhal	Fizik		80	A Sınıfı	A Sınıfı
Hilal	İngilizce		90	A Sınıfı	A Sınıfı
Murat	Matematik		70	B Sınıfı	B Sınıfı
Zeynep	Fizik		85	B Sınıfı	B Sınıfı
Duru	İngilizce		95	B Sınıfı	B Sınıfı
Handan	Matematik		75	C Sınıfı	C Sınıfı
Ziya	Fizik		80	C Sınıfı	C Sınıfı
Şükran	İngilizce		88	C Sınıfı	C Sınıfı



UNION



JOINS



RELATIONSHIP



BLENDING



Layer

Physical Layer

Physical Layer

Multi-
Data Sources

Merge Tables?



Flexibility

Static

Static

Flexible

Very Flexible
(Page by Page)

Join Types

n/a

Inner, Left, Right, Full

All

Left



Rank

n/a

3

1
(Default)

2

DASHBOARD OBJECTS



Dashboard Layout Default Phone Device Preview

Size Automatic

Sheets Sheet 1

Objects Data Story Image Blank Workflow Web Page Tiled Floating

Show dashboard title

Choose an image

Edit Image Object

Insert Image File Link to Image

Artboard 1 copy 2.png Choose

Options

Fit Image

Centre Image

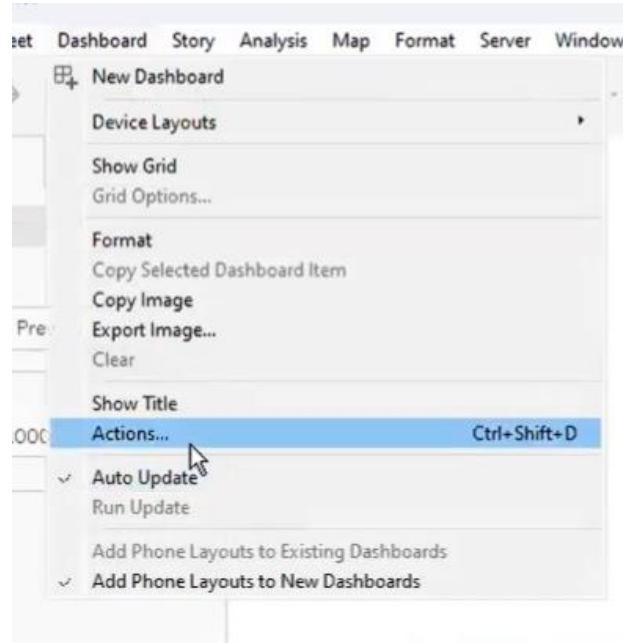
URL Opened When Image Is Clicked

Alt Text

Apply OK

Data Source Sheet 1 Dashboard 1

DASHBOARD ACTION



Actions

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

Show actions for

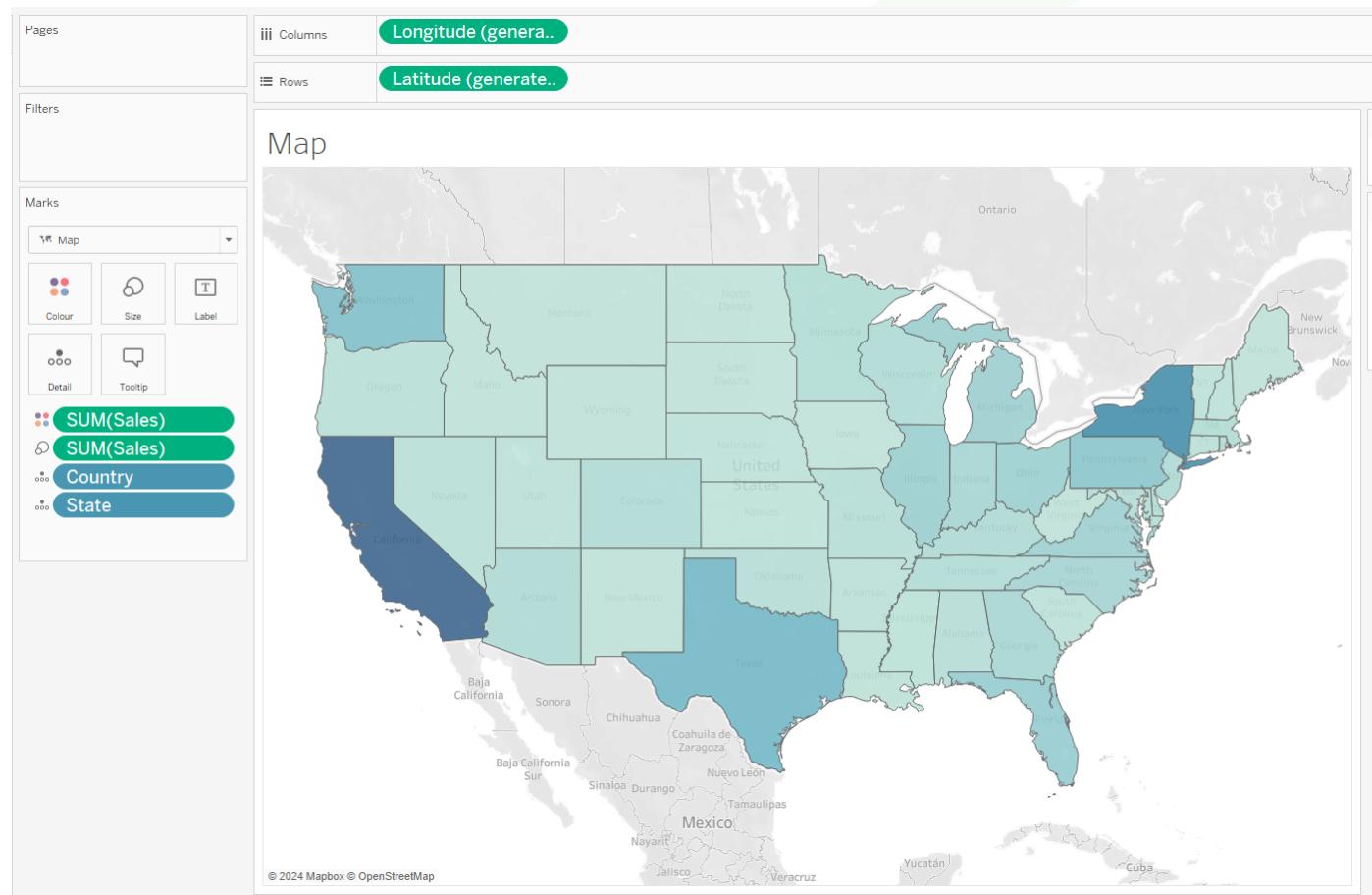
This workbook This sheet

Name	Run On	Source	Fields

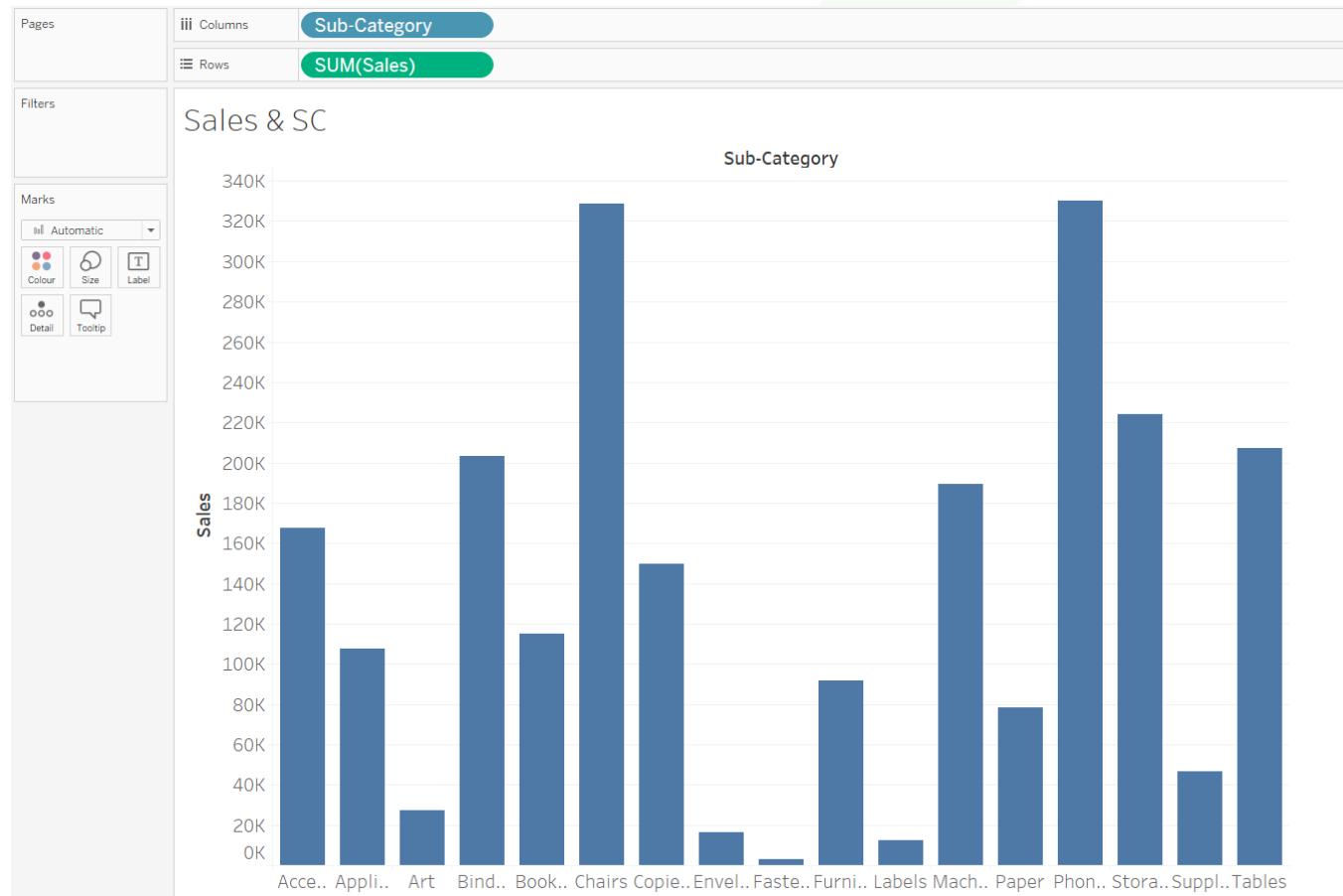
Add Action ▾ Edit Remove

Cancel OK

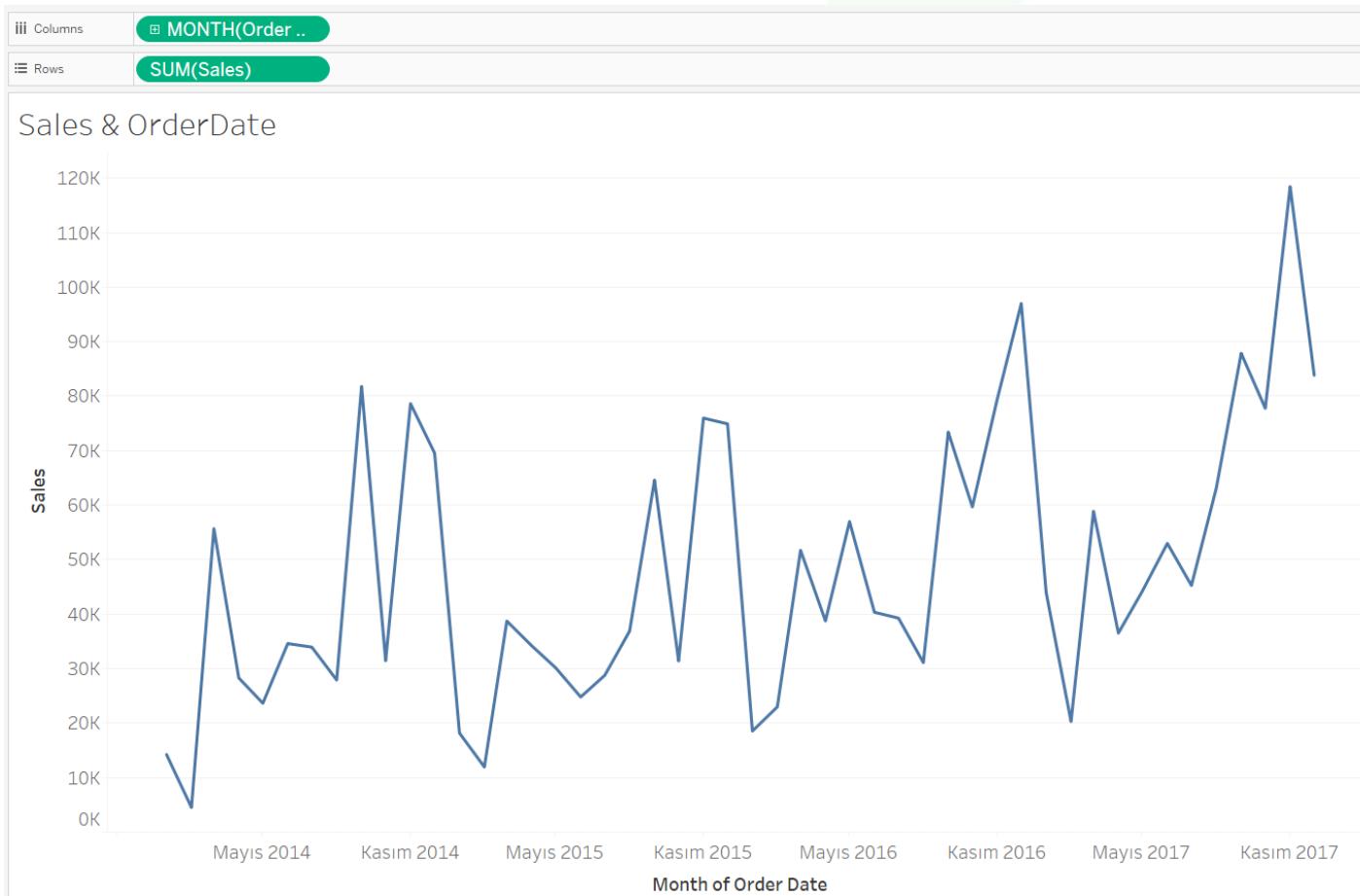
Example Sheets1



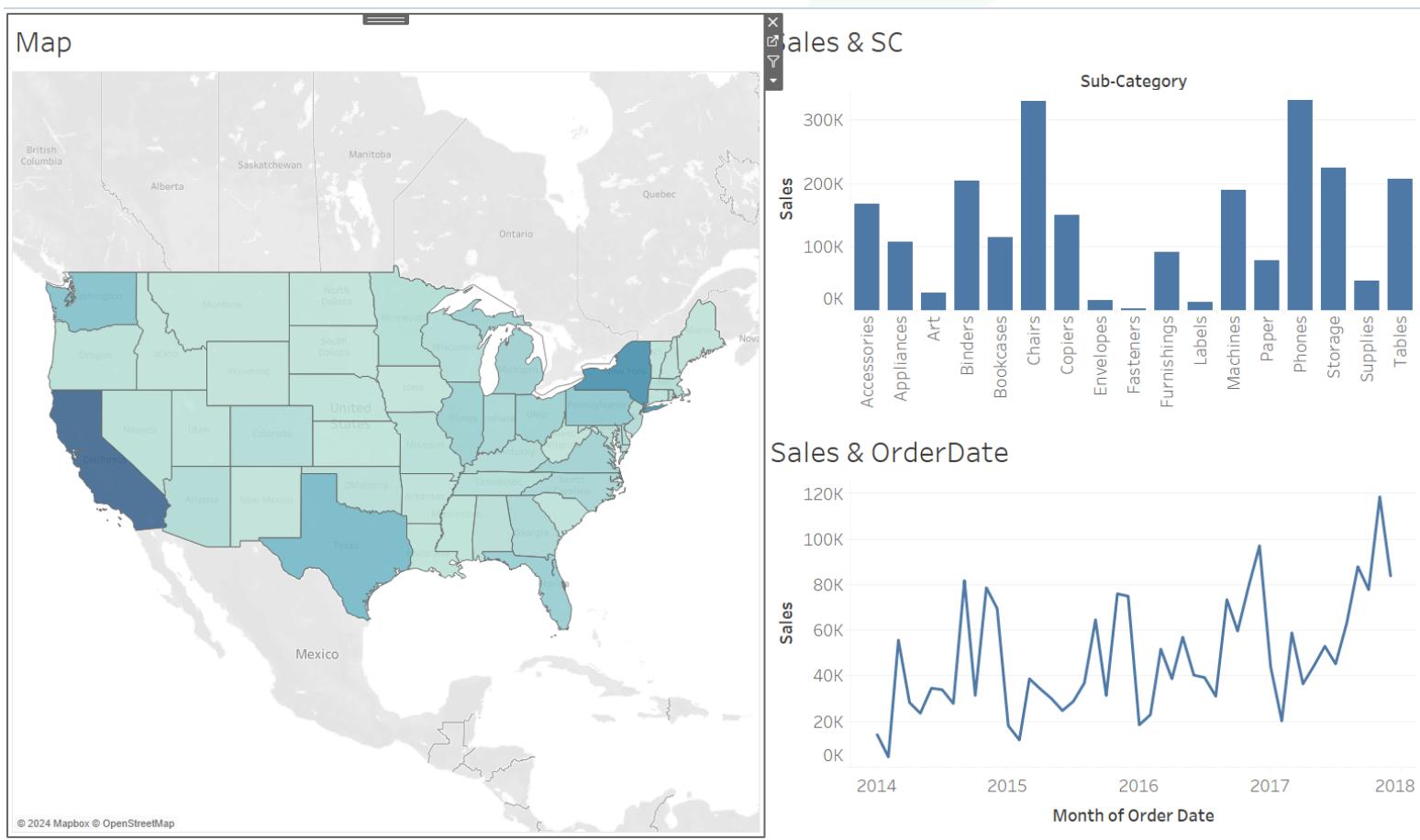
Example Sheets2



Example Sheets3



Create Dashboard



Filtering



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
<input type="button" value="Filter..."/>			
<input type="button" value="Highlight..."/>			
<input type="button" value="Go to URL..."/>			
<input type="button" value="Go to Sheet..."/>			
<input type="button" value="Change Parameter..."/>			
<input type="button" value="Change Set Values..."/>			

Add Action ▾

Edit Remove

Cancel OK

Add Filter Action X

Name Insert ▾

Filter1

Source Sheets

Dashboard 1

Map
 Sales & OrderDate
 Sales & SC

Run action on

Hover
 Select
 Menu
 Single-select only

Target Sheets

Dashboard 1

Map
 Sales & OrderDate
 Sales & SC

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
<input type="checkbox"/>			
<input type="checkbox"/>	Click to add		

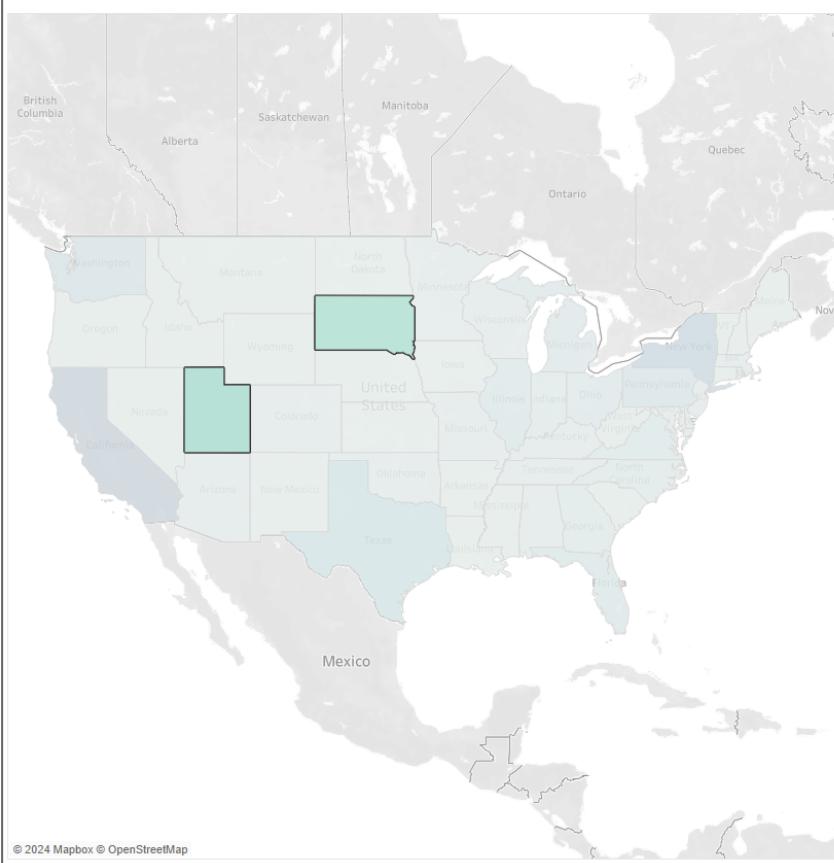
Remove

Cancel OK

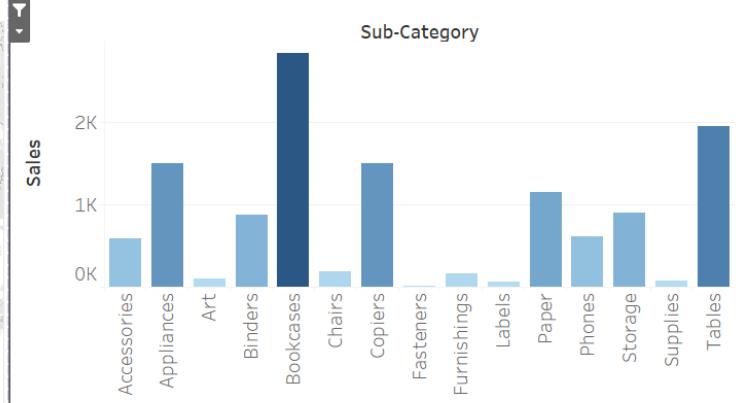
ACTION



Map



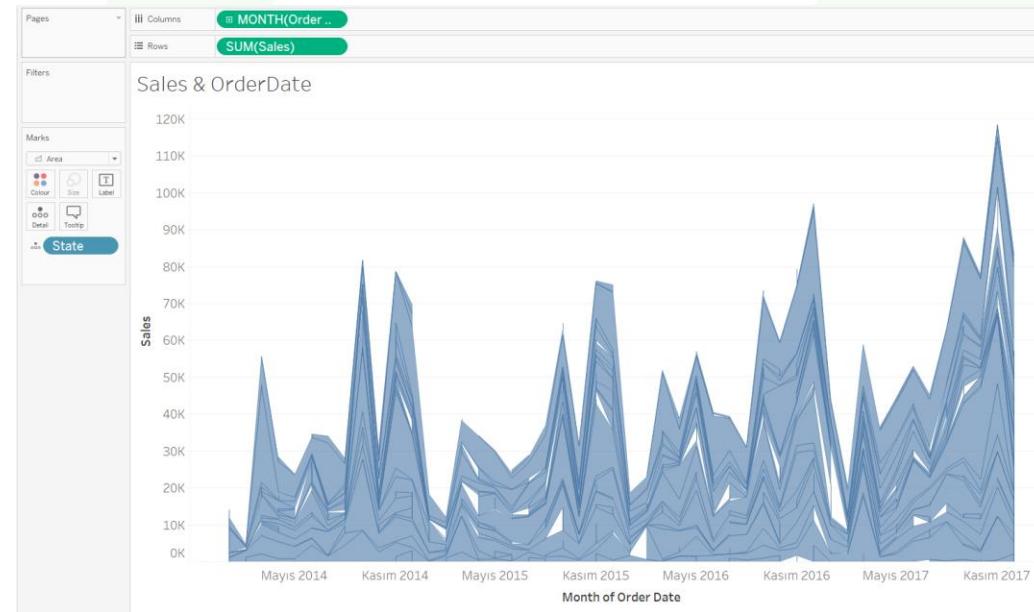
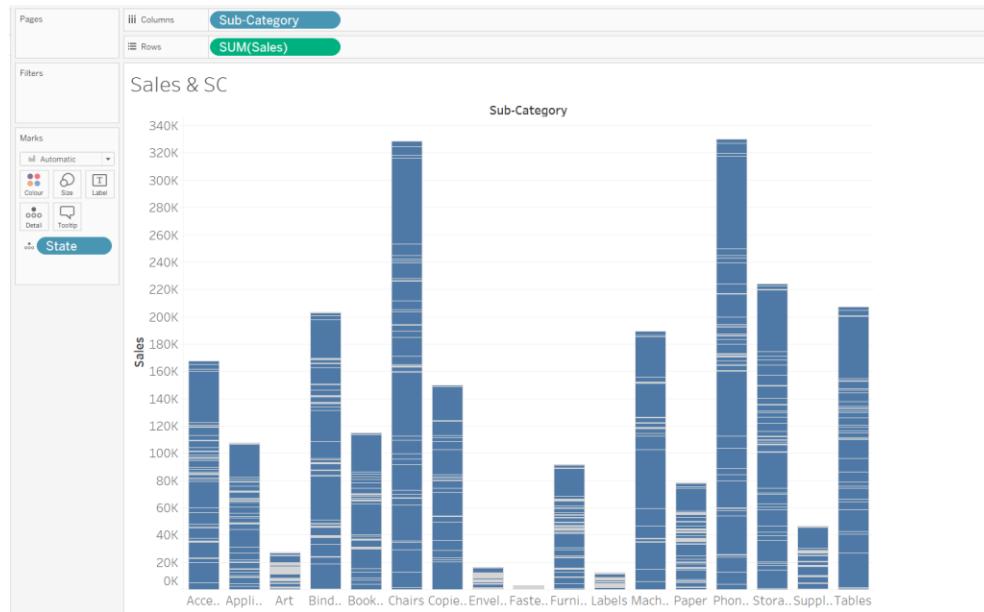
Sales & SC



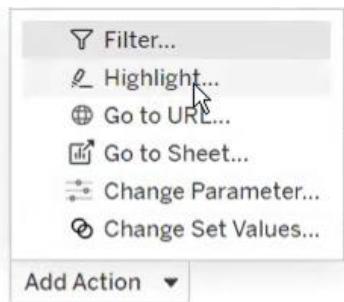
Sales & OrderDate



Highlight Exmpl Part 2



Highlight Exmpl Part 1



Edit Highlight Action

Name: Insert ▾

Source Sheets:

Run action on:

Hover
 Select
 Menu

Source Sheets:

Target Sheets:

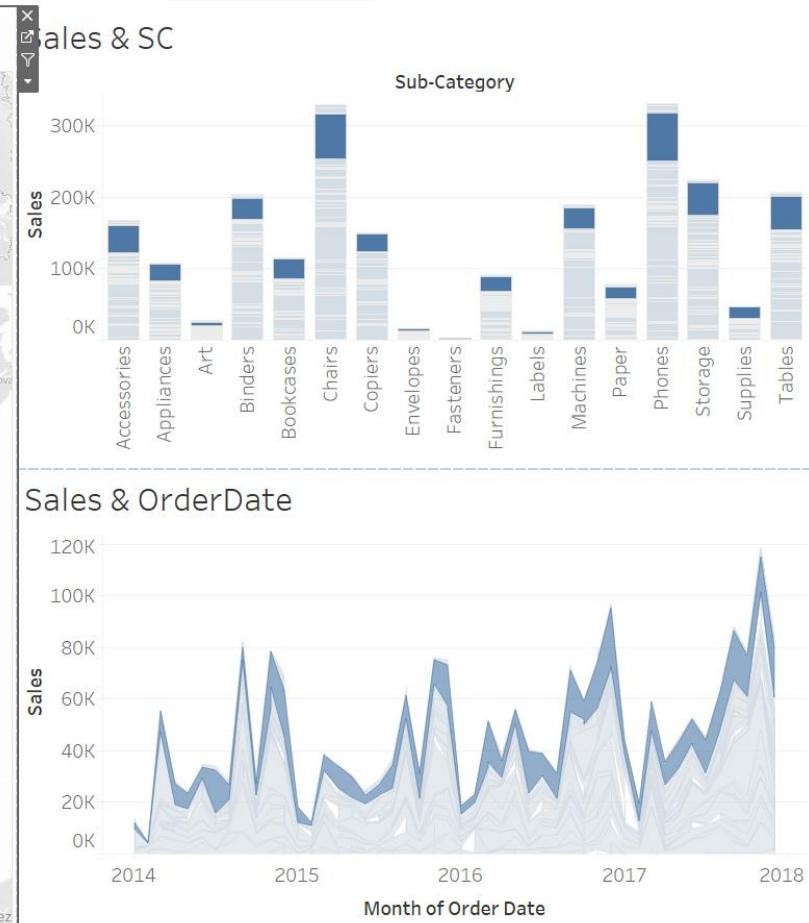
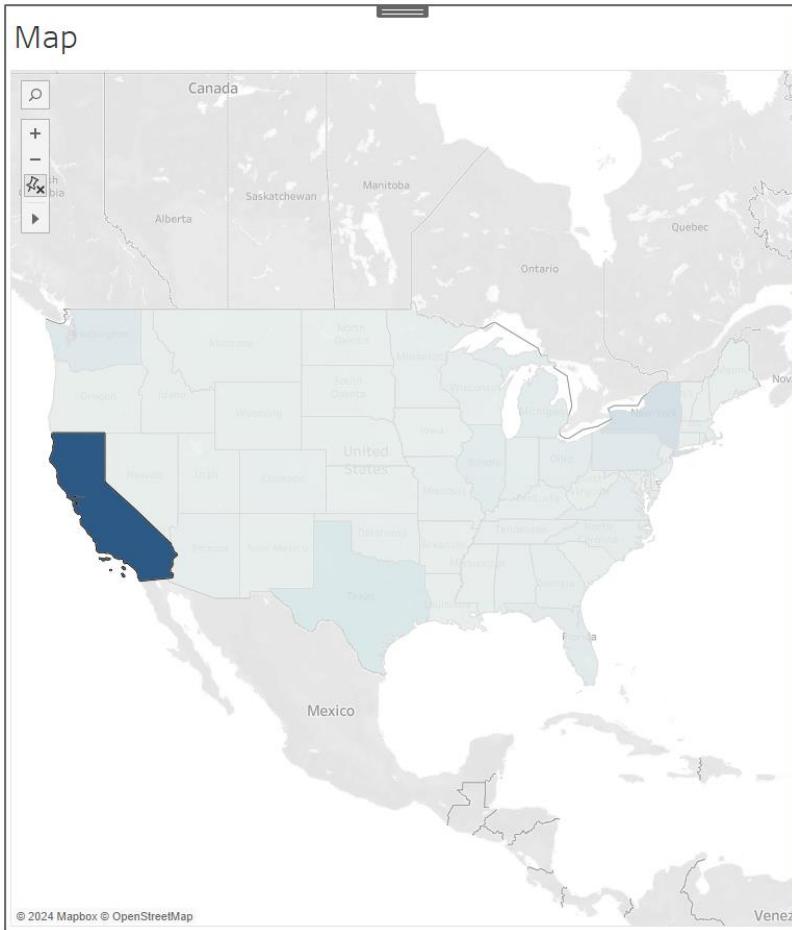
Target Highlighting:

All Fields
 Dates and Times
 Selected Fields

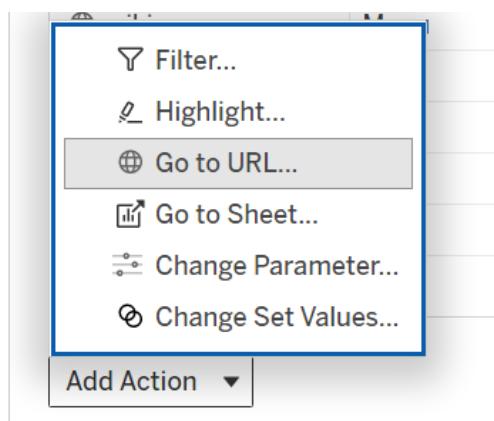
Country
 State

Cancel OK

Highlight Exmpl Part 3



Go to URL (US States Example)



Add URL Action X

Name Insert ▾

Source Sheets Dashboard 3

Run action on Hover Select Menu

Map

URL Target New Tab if no Web Page Object Exists New Browser Tab Web Page Object

www.google.com Insert ▾

URL Insert ▾

<https://en.wikipedia.org/wiki/Alabama>

> Data Values

Cancel OK



Go to URL (US State Example)

Map

© 2024 Mapbox © OpenStreetMap

WIKIPEDIA
The Free Encyclopedia

California

From Wikipedia, the free encyclopedia

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

California is a state in the Western United States, lying on the American Pacific Coast. It borders Oregon to the north, Nevada and Arizona to the east, and the Mexican state of Baja California to the south. With 39 million residents^[1] across an area of 163,696 square miles (423,970 km²),^[1] it is the most populous U.S. state, the third-largest by area, and most populated subnational entity in North America. The Greater Los Angeles and San Francisco Bay areas are the nation's second- and fifth-most populous urban regions, with 19 million and 10 million residents respectively.^[12] Los Angeles is the state's most populous city and the nation's second-most, after New York. California's capital, Sacramento, is located in the Central Valley.

Prior to European colonization, California was one of the most culturally and linguistically diverse areas in pre-Columbian North America. European exploration in the 16th and 17th centuries led to the colonization by the Spanish Empire. The area became a part of Mexico in 1821, following its successful war for independence, but was ceded to the United States in 1848 after the Mexican–American War. The California Gold Rush started in 1848 and led to social and demographic changes, including depopulation of indigenous peoples in the California genocide. The western portion of Alta California was then organized and admitted as the 31st state in 1850, as a free state, following the Compromise of 1850.

Notable contributions to popular culture, ranging from entertainment, sports, music, and fashion, have their origins in California. The state has made contributions in communication, information, innovation, education, environmentalism, entertainment, economics, politics, technology, and religion.^{[13][14][15]} California is the home of Hollywood, the oldest and one of the largest film industries in the world, profoundly influencing global entertainment. It is the origin of hippie counterculture, blue jeans, the internet, the personal computer, Barbie, skateboarding, among other inventions.^{[16][17][18]} The San Francisco Bay and the Greater Los Angeles areas are seen as the centers of the global technology and U.S. film industries, respectively.^[19]

California's economy is the largest of any US state, with a \$3.6 trillion gross state product as of 2022.^[20] It is the largest sub-national economy in the world. California's agricultural industry has the highest output of any U.S. state.^{[21][22][23]} and is led by its dairy, almonds, and grapes.^[24] With more than 100 million tourists annually, California is the top tourism destination in the United States.^[25]

California

State

Flag

Seal

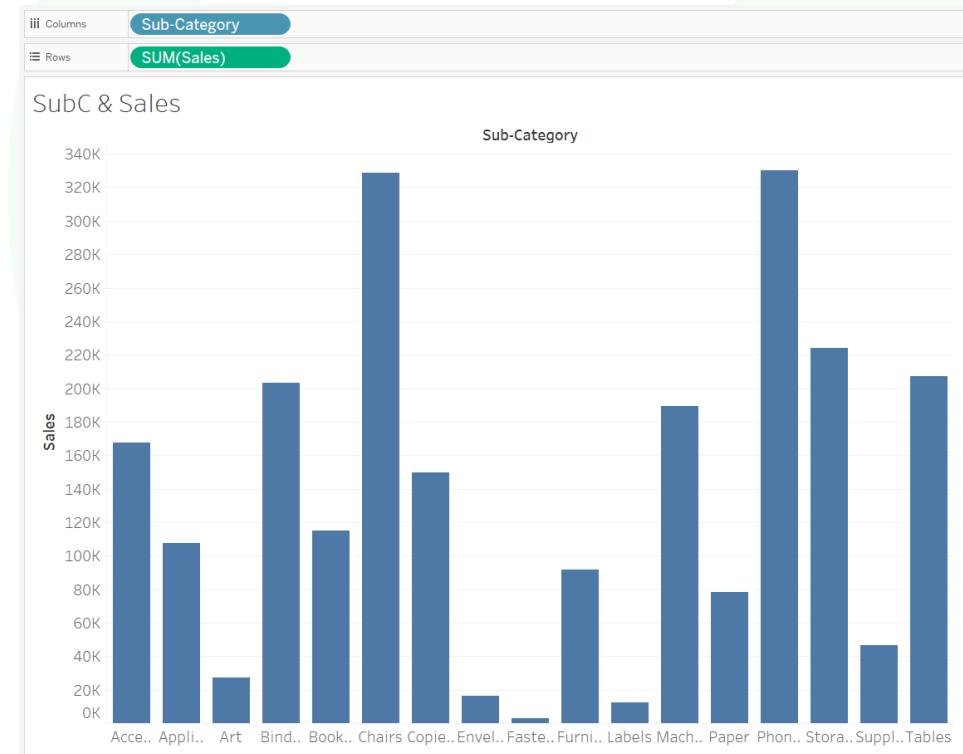
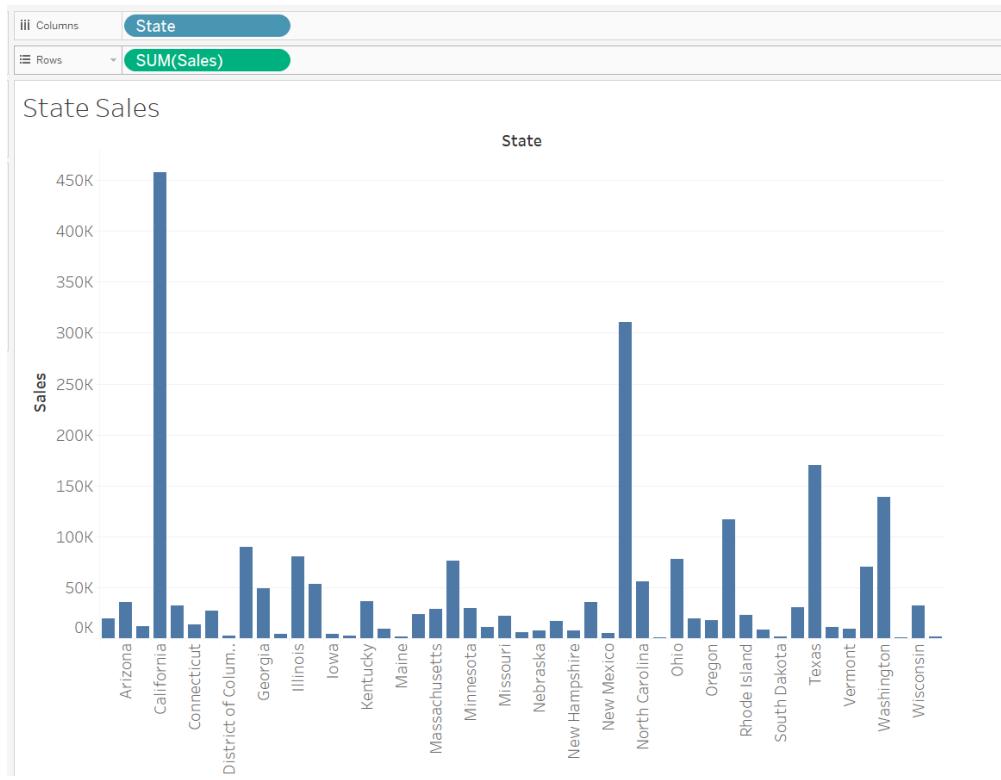
Nickname: The Golden State^[1]
Motto: "Eureka"^[2]
Anthem: "I Love You, California"

Map of the United States with California highlighted

Country	United States
Before statehood	Mexican Cession unorganized territory
Admitted to the Union	September 9, 1850; 173 years ago (31st)
Capital	Sacramento
Largest city	Los Angeles
Largest metro and urban areas	Greater Los Angeles
Government	Gavin Newsom (D) Eleni Kounalakis (D) State Legislature State Courts



Dashboard Example 2 Part 1



Dashboard Example 2 Part 2



Dashboard Example 2 Part 2

The dashboard displays a bar chart titled "State Sales" showing sales for three states: Arizona, California, and Connecticut. The Y-axis represents Sales in thousands, ranging from 0K to 450K.

Legend:

- Arizona: Blue bar
- California: Red bar
- Connecticut: Green bar

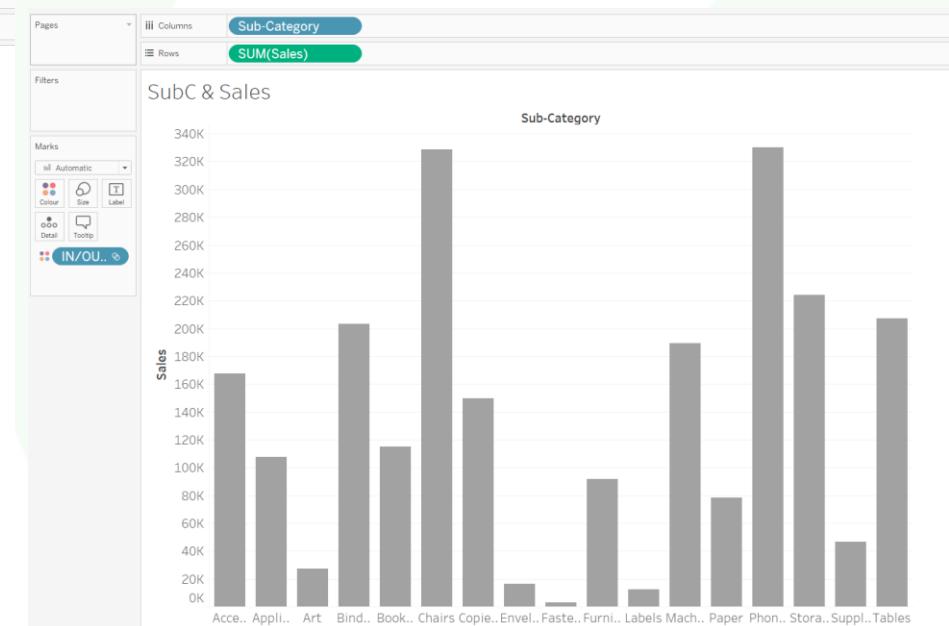
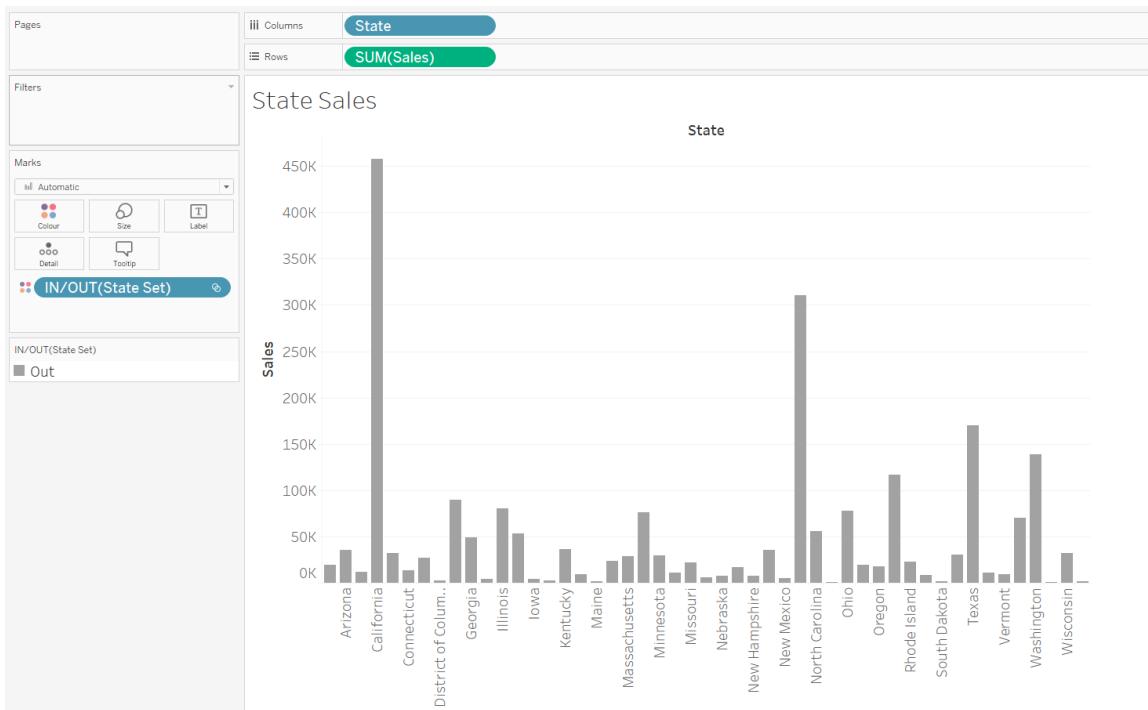
Table Data:

State	Sales (K)
Arizona	~40K
California	~450K
Connecticut	~10K

Dashboard Controls:

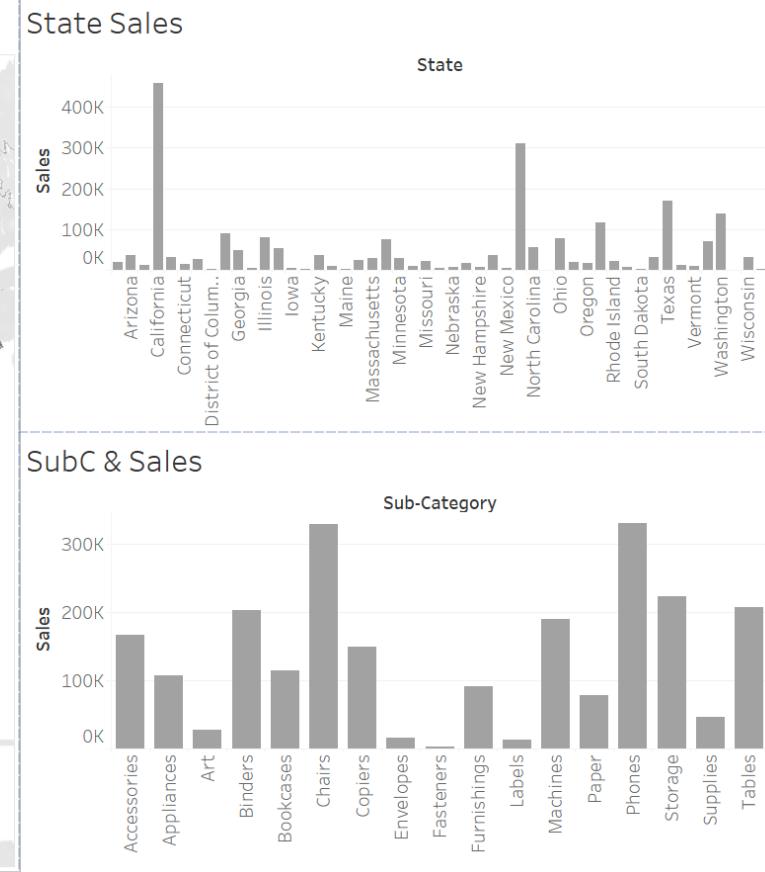
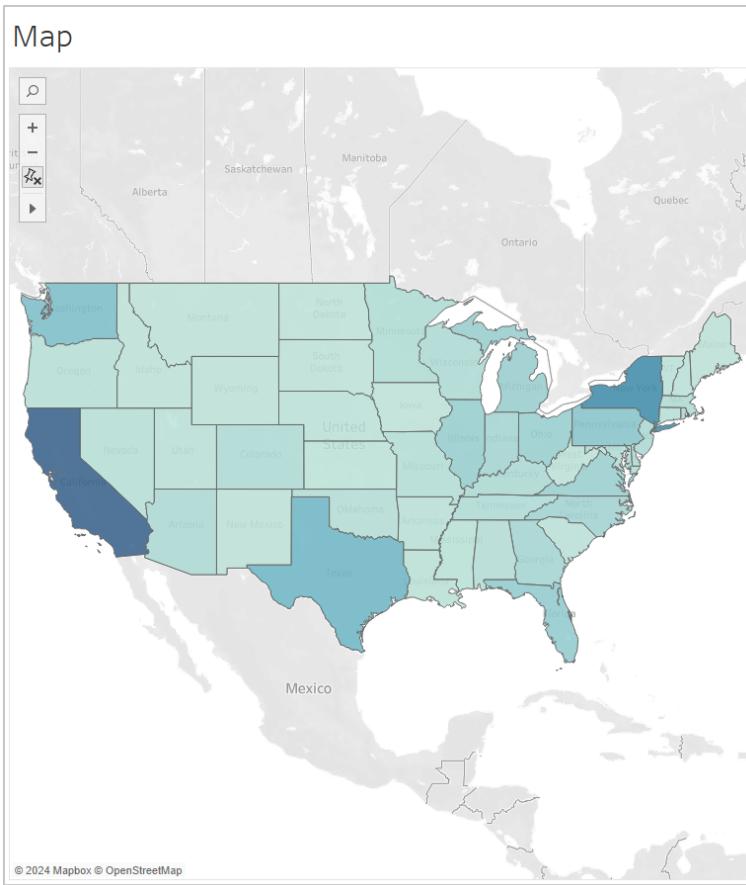
- Search bar: Search
- Tables list:
 - Category
 - City
 - Country
 - Customer ID
 - Customer Name
 - Order Date
 - Order ID
 - Postal Code
 - Product ID
 - Product Name
 - Region
 - Row ID
 - Segment
 - Ship Date
 - Ship Mode
 - State**
 - Sub-Category
 - Measure Names
 - Discount
 - Profit
 - Quantity
 - Sales
 - Latitude (generated)
 - Longitude (generated)
 - Orders (Count)
 - Measure Values
- Marks card:
 - Automatic
 - Colour
 - Size
 - Label
 - Detail
 - Tooltip
- Add to Sheet menu:
 - Create
 - Transform
 - Convert to Measure
 - Change Data Type
 - Default Properties
 - Aliases...
 - Show Filter
 - Duplicate
 - Rename
 - Hide
 - Geographic Role
 - Image Role
 - Group by
 - Folders
 - Hierarchy
 - Replace References...
 - Describe...
- Filters card:

Dashboard Example 2 Part 3





Dashboard Example 2 Part 4



Dashboard Example 2 Part 5



A screenshot of a dashboard interface. On the left, there is a context menu with the following options:

- Filter...
- Highlight...
- Go to URL...
- Go to Sheet...
- Change Parameter...
- Change Set Values... (this option is highlighted with a blue border)

Below the menu is a button labeled "Add Action ▾".

Add Set Action

Name
Set1 Insert ▾

Source Sheets
Dashboard 4

Run action on
 Hover
 Select
 Menu
 Single-select only

Target Set
None

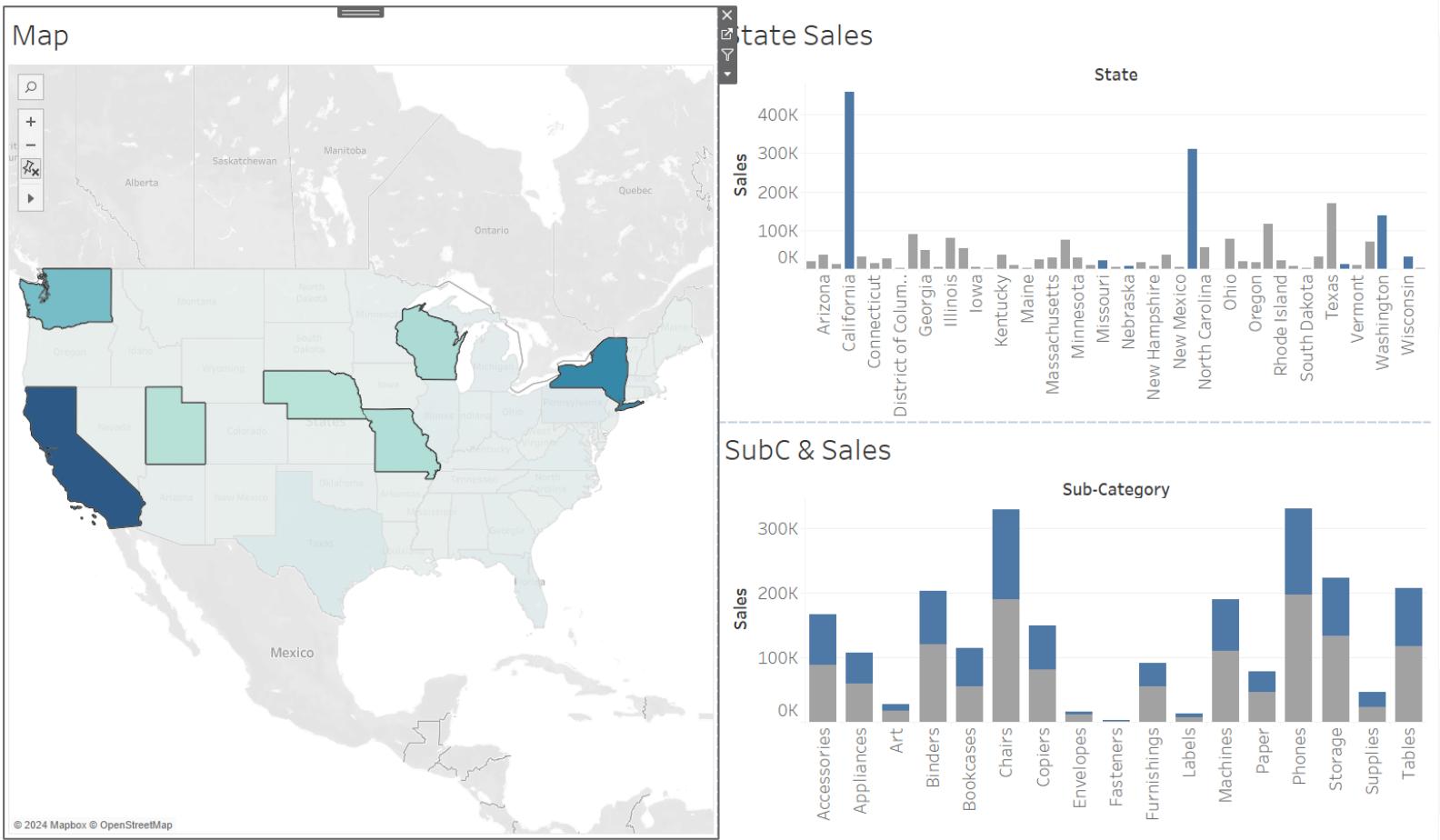
✓ None
Sample - Superstore ➤ State Set

Add values to set
 Remove values from set Add all values to set
 Remove all values from set

Cancel OK

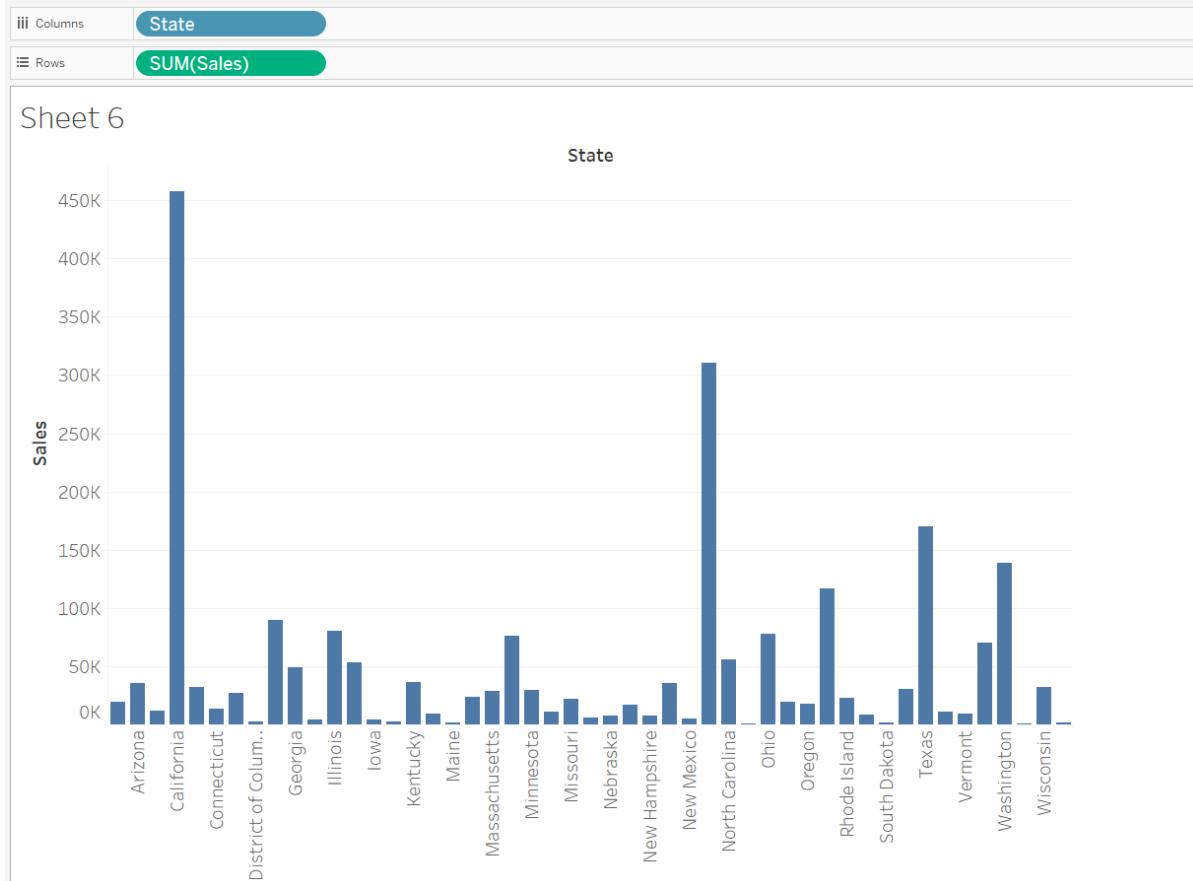


Dashboard Example 2 Part 6





Dashboard Parameter Part1



Dashboard Parameter Part2



Abc Product Name
Abc Region
Row ID
Abc Segment
Ship Date
Abc Ship Mode
State
State Set
Abc Sub-Category
Abc Measure Names
Discount
Profit
Quantity
Sales
Latitude (generated)
Longitude (generated)
Orders (Count)
Measure Values

A screenshot of a dashboard interface. On the left, there's a sidebar with various dimensions and measures listed. In the center, there's a bar chart titled 'Sales' comparing two regions: Arizona and California. The Y-axis represents sales values from 0K to 300K. The chart shows that California has significantly higher sales than Arizona. A context menu is open over the chart area, with the 'Create' option expanded. Under 'Create', the 'Parameter...' option is highlighted.

Create Parameter

Name: Best num

Properties

Data type: Integer

Display format: 1

Current value: 1

Value when workbook opens: Current value

Allowable values

All List Range

Range of values

Minimum: 1 Fixed
 When workbook opens

Maximum: 50 Add values from ▾

Step size: 1

Cancel OK

Dashboard Parameter Part3



Filter [State]

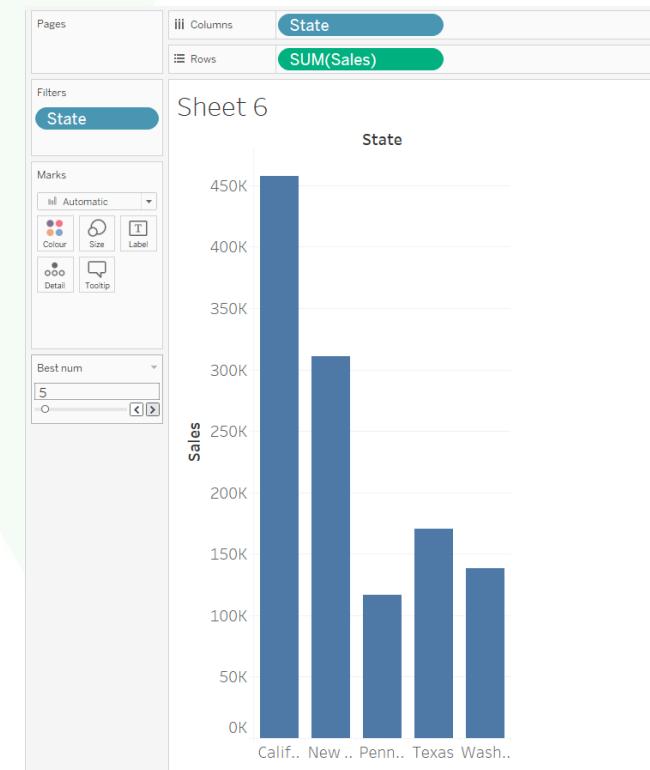
General Wildcard Condition Top

None

By field:

Top Best num by

Sales Sum



Dashboard Parameter Part4



Name	Run On
<ul style="list-style-type: none">Filter...Highlight...Go to URL...Go to Sheet...Change Parameter...Change Set Values...	
Add Action ▾	

Add Parameter Action X

Name Insert ▾
Parameter1

Source Sheets Run action on
Dashboard 5
 Map
 Sheet 6

Hover
 Select
 Menu

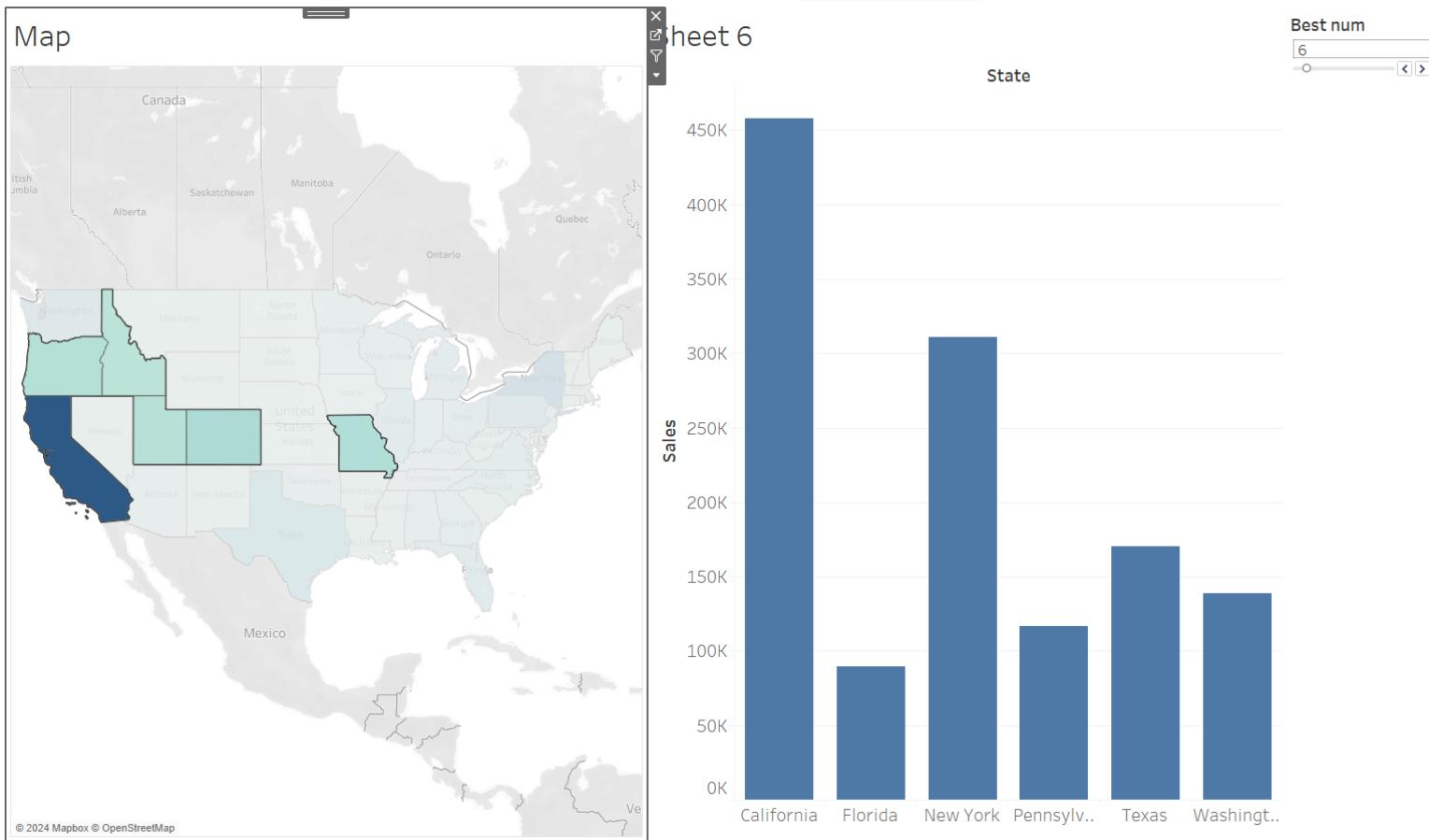
Target Parameter
Best num

Clearing the selection will
 Keep current value
 Set value to
1

Source Field Aggregation
Abc State (Sam... Count

Cancel OK

Dashboard Parameter Part5



Dashboard Requirements

Dashboard Requirements

Dashboard Requirements

1 **Dashboard Overview**

Name:

Goal:

Estimated Date:

2 **Audience** Choose all that apply

Executive Management Analyst Public

3 **Display Mode** Choose all that apply

Laptop Device Specifics Mobile Device Specifics

4 **Use** Choose all that apply

Web PDF PowerPoint Image

5 **Dashboard Filters & Notes**
List any filters that should be applied and displayed on the dashboard

Dashboard Requirements

1 **View Name:**

2 **Description:** Provide a high-level description of the view (chart)

3 **Data Fields Used in View:** List the fields that are needed to create the view. Do not include fields that are used strictly as filters.

Primary Dimension:
Additional Dimensions:

Primary Measure:
Additional Measures:

4 **Notes and Calculations:** Provide details for any fields listed above that require a calculation.

5 **Formatting:** Describe any required formatting. Example: Color the top 10 categories blue and the remaining categories grey.

6 **Filters:** List any filters that should be applied to the view.

7 **Data Source:** Provide details on the data source(s).

8 **Additional Notes:** Provide any additional details or suggestions. Example: I would like to see this view as a stacked bar chart.

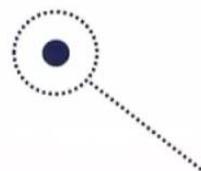


5 Design Secrets

- Gather Requirements
- Create a Template
- Use Icons and Art to Your Advantage
- Choose Colors that Matter
- Fonts

Requirement Guidelines

Understand the goal of the project.



Determine the audience's analytical maturity.



Incorporate end user preferences.
Colors, Logos, Size.



Refine and prioritize business questions.



Complete a high-level discovery of the data.



Determine the views needed to answer the questions.



Templates in Action

Use blank text boxes or pen/paper.

Dashboard Title

Filter #1 Filter #2 Filter #3 Filter #4

XX,XXX	XX,XXX	XX,XXX	XX,XXX
--------	--------	--------	--------

Sales Per Region

Monthly Sales per Region Line Chart	Metric Details per Region Text Table	Region Segment Sales Highlight Table
--	---	---

Sales Per State

Sales per State Map	Sales per Sub-Category Bar Chart
------------------------	-------------------------------------

Use blank text boxes with borders and add chart context.

— — — ●

Templates in Action

Design to a grid.

Dashboard Title

Filter #1 Filter #2 Filter #3 Filter #4

XX,XXX	XX,XXX	XX,XXX	XX,XXX
--------	--------	--------	--------

Sales Per Region

Monthly Sales per Region Line Chart	Metric Details per Region Text Table	Region Segment Sales Highlight Table
--	---	---

Sales Per State

Sales per State Map	Sales per Sub-Category Bar Chart
------------------------	-------------------------------------

5 chart grid — — — ●

1 2 3 4 5 6 7 8 9 10



Templates in Action

Fill in your template.

Dashboard Title

Company Logo

Filter #1 Filter #2 Filter #3 Filter #4

XX,XXX XX,XXX XX,XXX XX,XXX

Sales Per Region

Monthly Sales per Region Line Chart Metric Details per Region Text Table Region Segment Sales Highlight Table

Sales Per State

Sales per State Map

Sales Per Sub-Category

Sales per Sub-Category Bar Chart



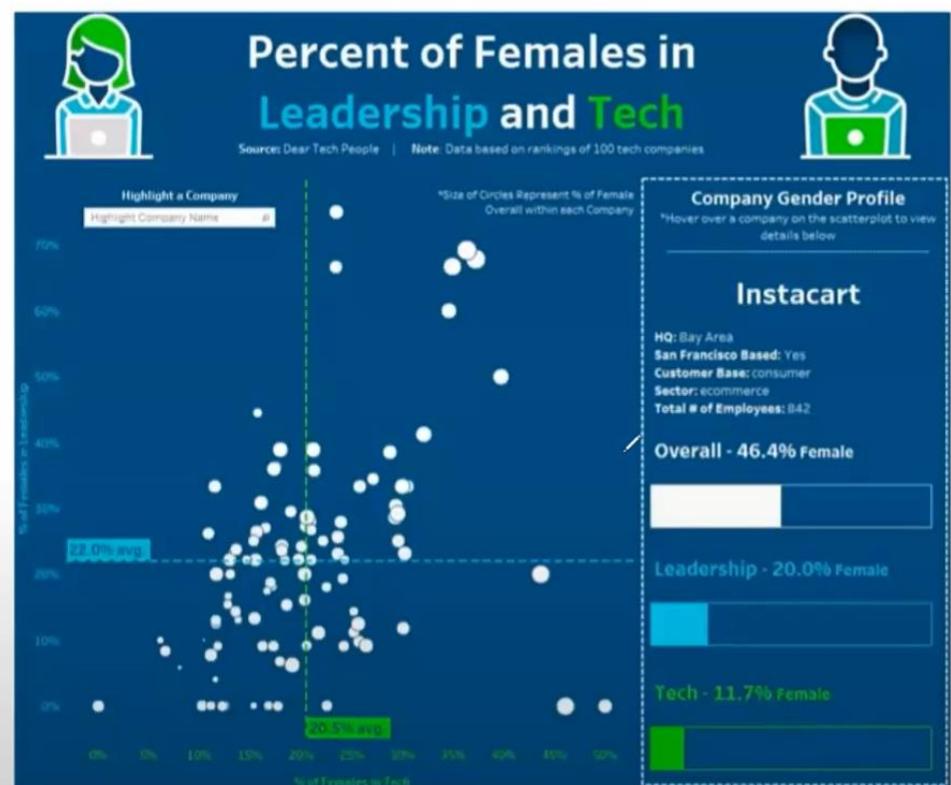


Icons Online

www.flaticon.com

www.thenounproject.com

www.icons8.com



DESIGNING



[Covid dashboard](#)



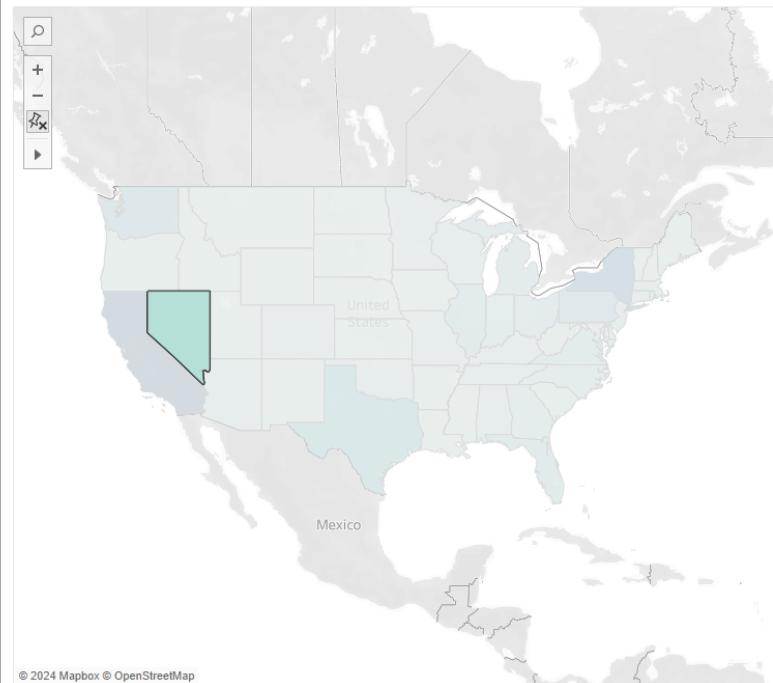
STORY



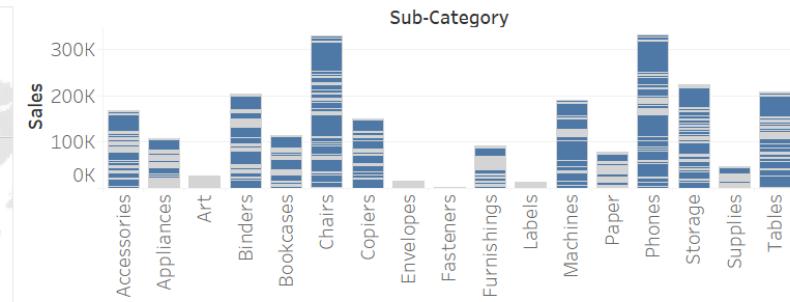
First Dashboard

< INTRO INTRO Map View Map View US States Sales >

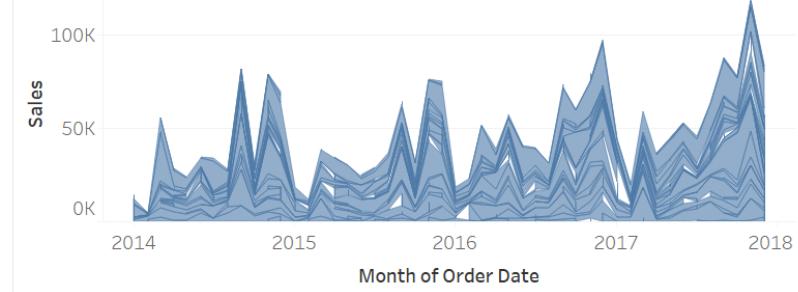
Map



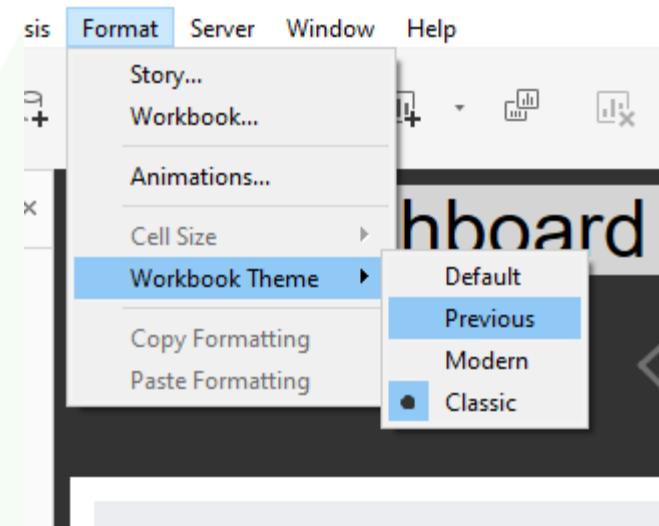
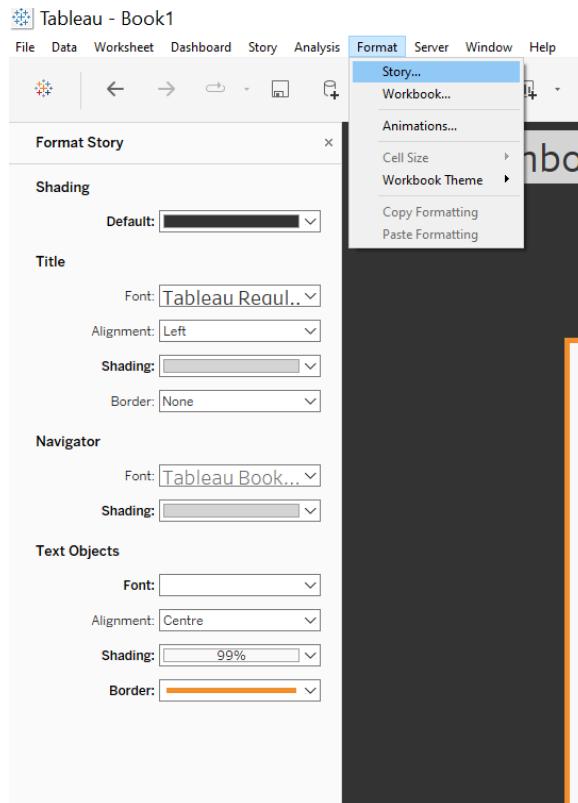
Sales & SC



Sales & OrderDate



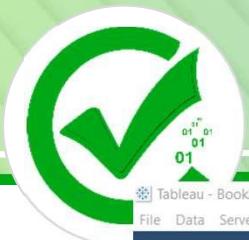
STORY SETTINGS





WEB DATA CONNECTOR

Web Data Connector



[Web data Connectors link](#)

The screenshot shows a Microsoft Edge browser window with the following details:

- Title Bar:** Shows the title "OpenPuglia Web Data Connector" and the URL "tableau.github.io/webdataconnector/community/".
- Toolbar:** Includes standard browser controls like back, forward, search, and refresh, along with pinned app icons for ClickUp-TechPro, WhatsApp, Gakademi, fall_DS.xlsx, Feedback Forms, Pear Deck, and Tableau – Melis Tur... .
- Page Content:**
 - Left Sidebar:** Titled "Connect", it lists options for "Search for Data" (Tableau Server), "To a File" (Microsoft Excel, Text file, JSON file, Microsoft Access, PDF file, Spatial file, Statistical file, More...), "To a Server" (MySQL, Oracle, Amazon Redshift, Web Data Connector, More...), and "Saved Data Sources" (Sample - EU Superstore, Sample - Superstore, World Indicators).
 - Main Area:** Titled "Community Portal", it displays a message: "The following connectors have been written by the Tableau Community and made available to use. If you write a connector, [please contribute!](#)". It also includes an "Important:" note: "These connectors are not written by or supported by Tableau. If you encounter an issue with one of the connectors here, please reach out to the developer." Below this, three connector cards are shown:
 - AdStage** (Written by: David Haslem)
 - Alpha Vantage** (Written by: Satish C)
 - Alpha Vantage Official** (Written by: Patrick Collins)
- Taskbar:** Shows the Windows taskbar with various pinned app icons and the system tray.

Web Data Connector



File Data Server Help

Connect

Search for Data

Tableau Server

To a File

Microsoft Excel
Text file
JSON file
Microsoft Access
PDF file
Spatial file
Statistical file
More...

To a Server

Microsoft SQL Server
MySQL
Oracle
Amazon Redshift
More... >

Saved Data Sources

Sample - EU Superstore
Sample - Superstore
World Indicators

Installed Connectors (70)

Actian Vector
Alibaba AnalyticDB for MySQL
Alibaba Data Lake Analytics
Alibaba MaxCompute
Amazon Athena
Amazon Aurora for MySQL
Amazon EMR Hadoop Hive
Amazon Redshift
Anaplan (deprecated)
Apache Drill (deprecated)
Azure Data Lake Storage Gen2
Azure SQL Database
Azure Synapse Analytics
Box
Cloudera Hadoop
Databricks
Denodo (deprecated)
Dremio
Dropbox
Esri
Exasol

Firebird 3
Google Analytics
Google BigQuery
Google BigQuery (JDBC)
Google Cloud SQL
Google Drive
Hortonworks Hadoop Hive
IBM DB2
IBM PDA (Netezza)
Impala
Intuit QuickBooks Online (deprecated)
Kyvos
LinkedIn Sales Navigator (deprecated)
MariaDB
Marketing Cloud Intelligence
Marketo (deprecated)
MarkLogic (deprecated)
Microsoft SQL Server
MonetDB
MongoDB BI Connector
MySQL

OData
OneDrive and SharePoint Online
Oracle
Oracle Eloqua (deprecated)
Oracle Essbase
Pivotal Greenplum Database
PostgreSQL
Presto
Progress OpenEdge
Qubole Presto (deprecated)
Salesforce
Salesforce Data Cloud
SAP HANA
SAP NetWeaver Business Warehouse
SAP Sybase ASE
SAP Sybase IQ
ServiceNow ITSM (deprecated)
SharePoint Lists (deprecated)
SingleStore
Snowflake
Spark SQL
Splunk

Teradata
Teradata OLAP Connector
TIBCO Data Virtualisation
Vertica
Web Data Connector (deprecated)

Other Databases (JDBC)
Other Databases (ODBC)

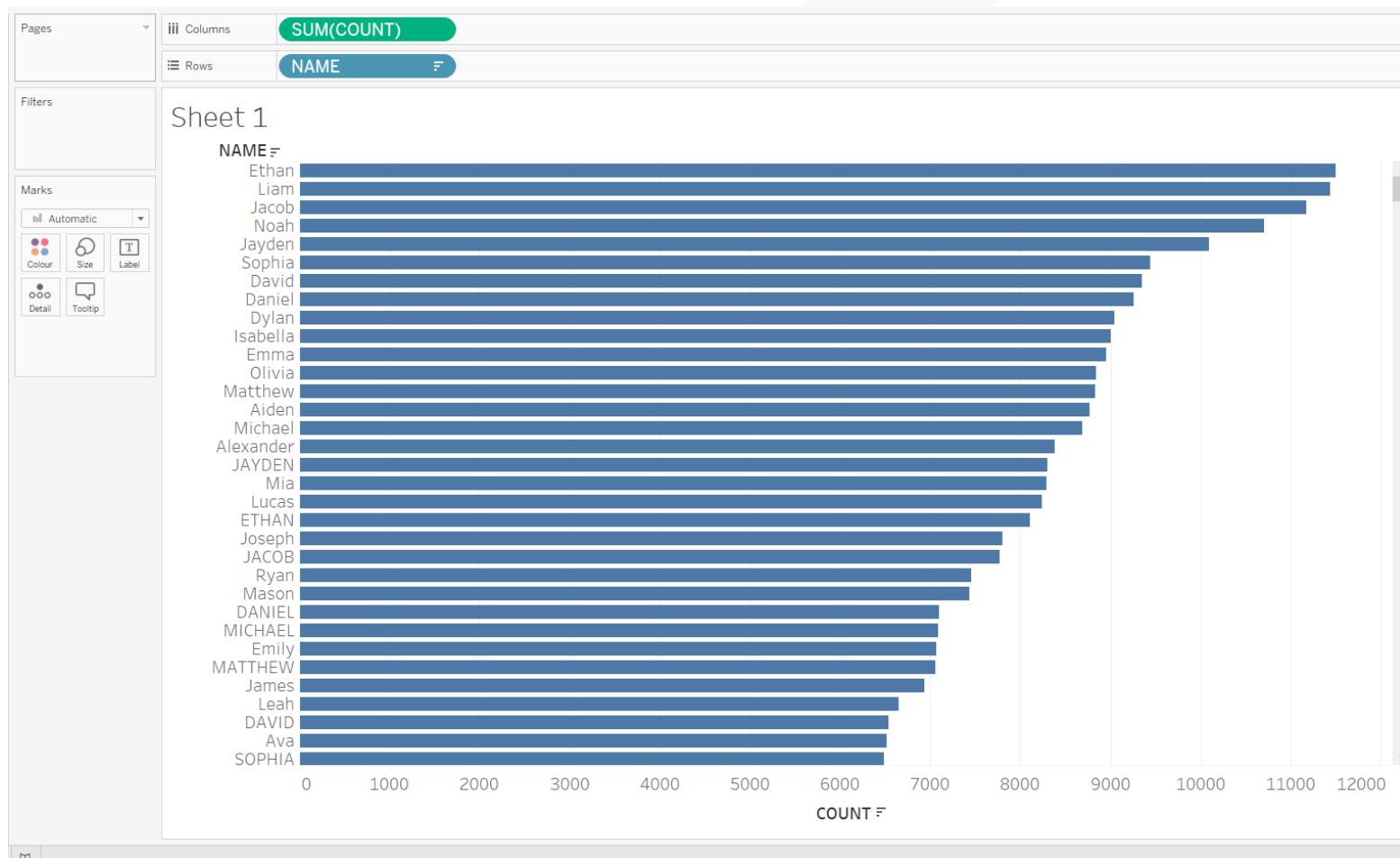
Additional Connectors (35) ⓘ

Actian JDBC by Actian
Actian ODBC by Actian
Agiloft by Agiloft
Altinity Connector for ClickHouse by Altinity Inc
Amazon DocumentDB by Amazon
Amazon S3 by Tableau
BI Connector by Guidanz Inc
Couchbase Analytics by Couchbase Analytics
Delta Sharing by Databricks by Databricks

Sort by Name (a-z) ▾

< >

Web Data Connector





DATA INTERPRETER



Data Interpreter - 1

A	B	C	D	E	F
1	Other info	Sample Superstore		2015-18	
2					
3	Table Header	Annual Report			
4		Year	Order ID	Order Date	Ship Date
5		2017	CA-2017-152156	08-11-2017	11-11-2017
6	Merged Cells		CA-2017-152156	08-11-2017	11-11-2017
7			CA-2017-138688	12-06-2017	16-06-2017
8		2016	US-2016-108966	11-10-2016	18-10-2016
9			US-2016-108966	11-10-2016	18-10-2016
10		2015	CA-2015-115812	09-06-2015	14-06-2015
11			CA-2015-115812	09-06-2015	14-06-2015
12			CA-2015-115812	09-06-2015	14-06-2015
13			CA-2015-115812	09-06-2015	14-06-2015
14			CA-2015-115812	09-06-2015	14-06-2015
15			CA-2015-115812	09-06-2015	14-06-2015
16	Additional Information in footer		CA-2015-115812	09-06-2015	14-06-2015
17		*2018 Data is yet to be added.			
18					

Below you have exam results belong to three different schools					
Table -1					
Student No	Gender	School	Math	Eng	Hist
1	Male	A	80	85	75
2	Male	B	75	70	80
3	Female	C	80	80	85

Exam covers Math, English and History

Table -2					
Student No	Gender	School	Math	Eng	Hist
4	Male	D	80	79	75
5	Female	E	65	76	80
6	Female	F	80	78	85

Exam covers Math, English and History

Data Interpreter - 2



Asıl Veri (Okul_Not_DI-1)

Connection
Live

Cleaned with Data Interpreter
[Review the results.](#) (To undo changes, clear the check box.)

Asıl Veri

Need more data?
Drag tables here to relate them. [Learn more](#)

Asıl Veri 6 fields 3 rows

Table Details	# Asıl Veri Öğrenci No	Abc Asıl Veri Cinsiyet	Abc Asıl Veri Okul Adı	# Asıl Veri Matematik	# Asıl Veri İngilizce	# Asıl Veri Tarih
	1	Erkek	A	80	85	75
	2	Erkek	B	75	70	80
	3	Kız	C	80	80	85

Data Interpreter - 3



Connections Add Live

Okul_Not_DI-2 Microsoft Excel

Sheets o

Cleaned with Data Interpreter
[Review the results.](#) (To undo changes, clear the check box.)

Okul Notları Okul Notları A1:F6

Okul Notları A10:F14

New Union

New Table Extension

Table Details > Okul Notları 6 fields 9 rows

#	Abc	Abc	#	#	#	#
Öğrenci No	Okul Notları	Cinsiyet	Okul Adı	Matematik	İngilizce	Tarih
1	Erkek	A		80	85	75
2	Erkek	B		75	70	80
3	Kız	C		80	80	85
NULL	NULL	NULL		NULL	NULL	NULL
NULL	NULL	NULL		NULL	NULL	NULL
NULL	Cinsiyet	Okul Adı		NULL	NULL	NULL
4	Erkek	D		80	79	75
5	Kız	E		65	76	80
6	Kız	F		80	78	85

Data Interpreter - 3



Connections [Add](#)

Okul_Not_DI-2 Microsoft Excel

Cleaned with Data Interpreter [Review the results.](#) (To undo changes, clear the check box.)

Sheets

Okul Notları

Okul Notları A1:F6

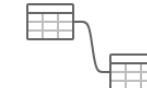
Okul Notları A10:F14

New Union

New Table Extension

Okul Notları A1:F6

Union



Need more data?

Drag tables here to relate them. [Learn more](#)

Okul Notları A1:F6 ▾

6 fields 3 rows

Table Details >	#	Abc	Abc	#	#	#
	Okul Notları A1:F6	Okul Notları A1:F6	Okul Notları A1:F6	Okul Notları A1:F6	Okul Notları A1:F6	Okul Notları A1:F6
	Öğrenci No	Cinsiyet	Okul Adı	Matematik	İngilizce	Tarih
	1	Erkek	A	80	85	75
	2	Erkek	B	75	70	80
	3	Kız	C	80	80	85

Data Interpreter - 3



Connections Add

Sheets o

Cleaned with Data Interpreter
[Review the results.](#) (To undo changes, clear the check box.)

Okul Notları

Okul Notları A1:F6

Okul Notları A10:F14

New Union

New Table Extension

Okul Notları A1:F6 ▼ 8 fields 6 rows 6 → rows ⚙️ ▼

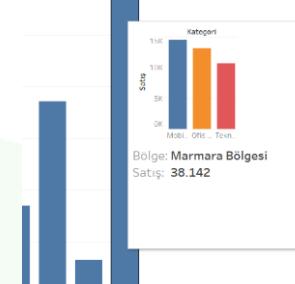
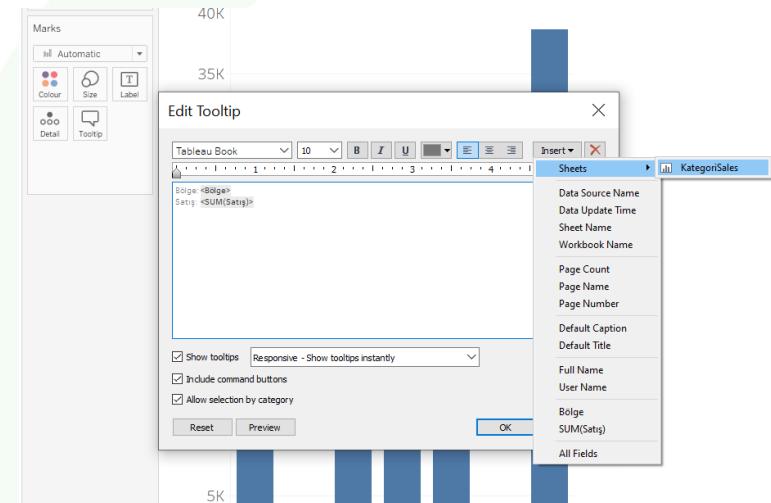
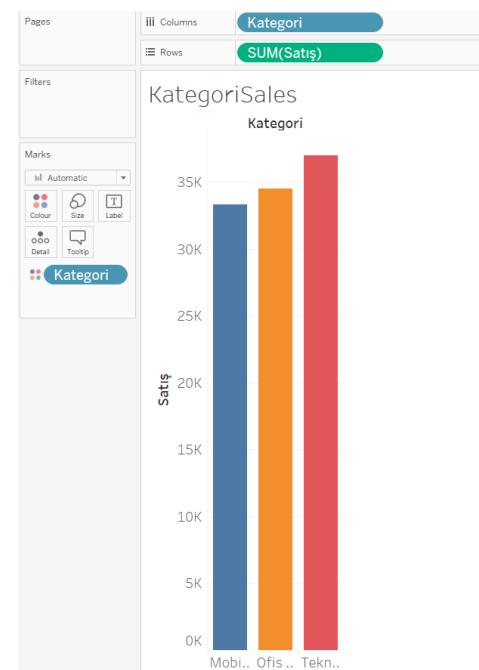
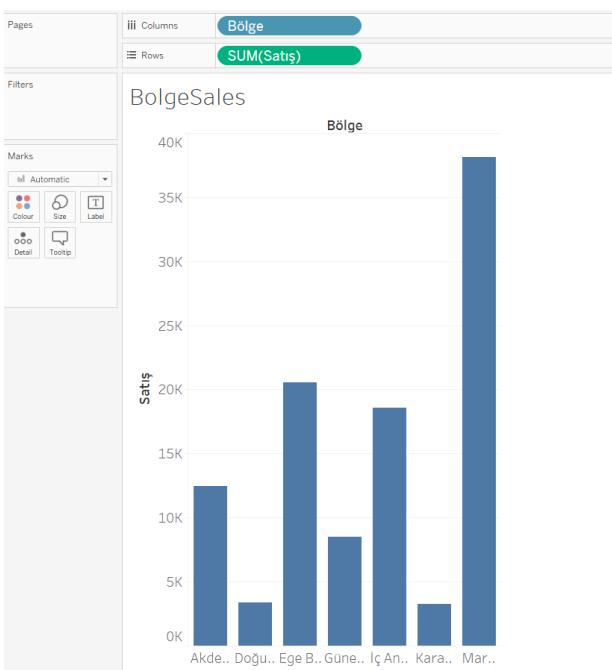
Table Details

>	#	Abc	Abc	#	#	#	Abc	Abc
	Okul Notları A1:F6+	Okul Notları A1:...	Okul Notları A1:...	Okul Notları A1:F...	Okul Notları A1:...	Okul Notları A1:...	Okul Notları A1:F6+	Okul Notları A1:F6+
Öğrenci No	Ξ	Cinsiyet	Okul Adı	Matematik	İngilizce	Tarih	Sheet	Table Name
	4	Erkek	D	80	79	75	Okul Notları	Okul Notları A10:F14
	5	Kız	E	65	76	80	Okul Notları	Okul Notları A10:F14
	6	Kız	F	80	78	85	Okul Notları	Okul Notları A10:F14
	1	Erkek	A	80	85	75	Okul Notları	Okul Notları A1:F6
	2	Erkek	B	75	70	80	Okul Notları	Okul Notları A1:F6
	3	Kız	C	80	80	85	Okul Notları	Okul Notları A1:F6



VIZ IN TOOLTIP

Viz in Tooltip -1



Viz in Tooltip -2



The image shows a Tableau dashboard with three main components illustrating how to embed a visualization into a tooltip.

Left Panel: A bar chart titled "segmentSales" showing sales by segment. The Y-axis is "Satış" (Sales) from 0K to 50K. The X-axis categories are "Ev-Of..", "Kuru..", and "Tuke..". The bars show values approximately 22K, 34K, and 48K respectively.

Middle Panel: An "Edit Tooltip" dialog box. The content area contains the following code:

```
<Sheet name="KategoriSales" maxwidth="300" maxheight="300" filter="<All Fields>">
  <Bölge: <Bölge>>
  Satış: <SUM(Satış)>
</Sheet>
```

Below the code, there are three checked options: "Show tooltips", "Responsive - Show tooltips instantly", and "Allow selection by category". At the bottom are "Reset", "Preview", and "OK" buttons. A dropdown menu labeled "Insert" is open, showing options like "Sheets", "Data Source Name", etc., with "segmentSales" selected.

Right Panel: A tooltip visualization titled "Bölge: Marmara Bölgesi" with the subtitle "Satış: 38.142". It displays a bar chart with three bars: "Mobil.." (blue), "Ofis.." (orange), and "Tekn.." (red). The Y-axis is "Satış" (Sales) from 0K to 20K. The X-axis categories are "Mobil..", "Ofis..", and "Tekn..".



STEP LINE – JUMP LINE

Step Line



Tableau - Book10

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help Sat 25. Feb 19:14

Data Analytics < Pages iii Columns Rows Standard Sub Show Me

Connect to Data

Tables

Marks Automatic Color Size Text Detail Tooltip

Sheet 1

Drop field here

Drop field here

Drop field here

Data Source Sheet 1 Rumeysa

This screenshot shows the Tableau desktop interface. The main workspace is titled 'Sheet 1' and contains three blank 'Drop field here' placeholder areas. The left sidebar includes tabs for 'Data' (selected) and 'Analytics', along with sections for 'Pages', 'Filters', and 'Marks'. The bottom navigation bar shows 'Data Source' and 'Sheet 1'.

Jump Line



Tableau - Book1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Show Me

Data Analytics < Pages Columns Rows

Connect to Data

Tables Filters

Marks Automatic

Color Size Text

Detail Tooltip

Sheet 1

Drop field here

Drop field here

Drop field here

Data Source Sheet 1

03:29 4.02.2022

The image shows the Tableau desktop application interface. The title bar reads "Tableau - Book1". The menu bar includes File, Data, Worksheet, Dashboard, Story, Analysis, Map, Format, Server, Window, and Help. A "Show Me" button is on the right. The left sidebar has tabs for Data and Analytics, and sections for Pages, Connect to Data, and Tables. Under Tables, there are sections for Filters and Marks, which includes options for Automatic, Color, Size, Text, Detail, and Tooltip. The main workspace is titled "Sheet 1" and contains three empty rectangular fields with the placeholder text "Drop field here". At the bottom, there's a toolbar with various icons and a status bar showing the time "03:29" and date "4.02.2022".

Clustering

Tableau - Book3

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Data Analytics < Pages Columns Rows

Orders (Sample - Superstore (3))

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 Names
 - Discount
 - Profit
 - Quantity
 - Sales
 - Latitude (generated)
 - Longitude (generated)
 - Orders (Count)
 - Measure Values

Marks

Automatic

Color Size Text Detail Tooltip

Sheet 7

Drop field here

Drop field here

Drop field here

Data Source Sheet 1 Sheet 2 Sheet 3 Sheet 4 Sheet 5 Sheet 6 Sheet 7

Fatih



FINISH



01

01

01