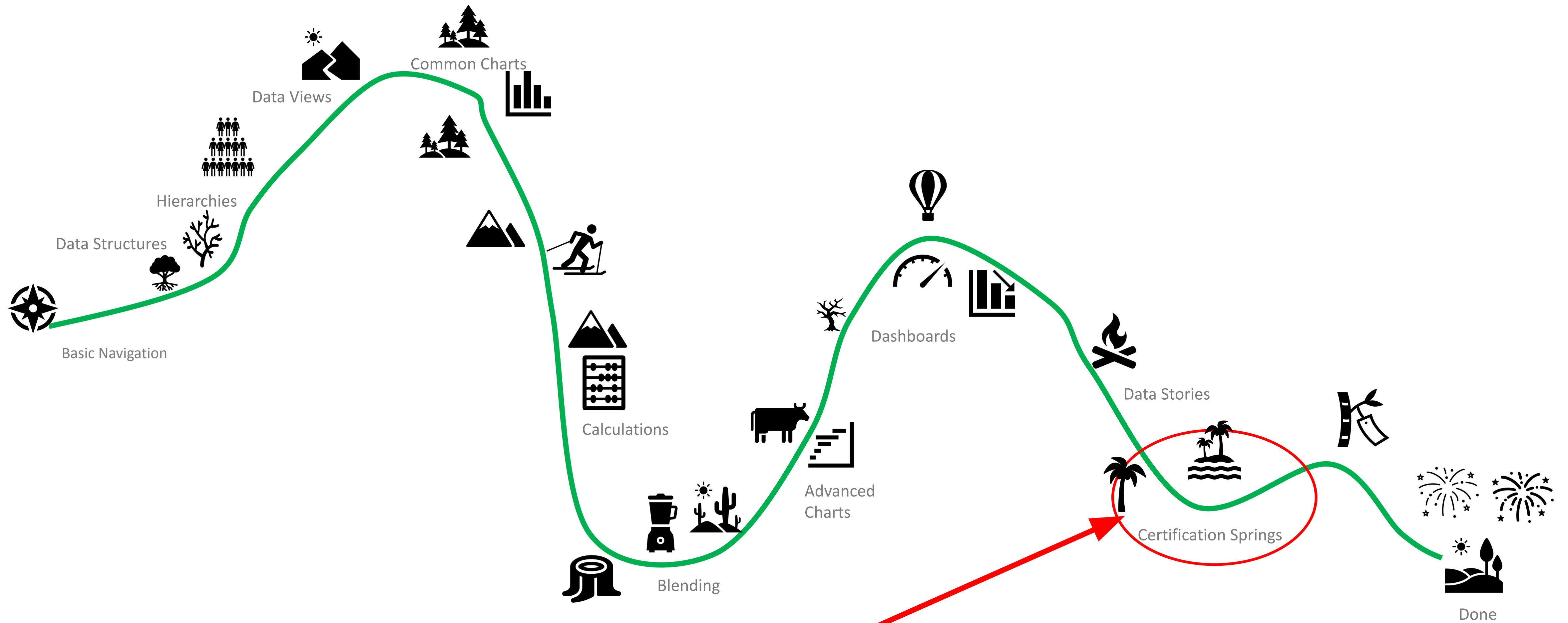


Tableau Desktop Certification



You are here

Tableau Certifications

All Certifications

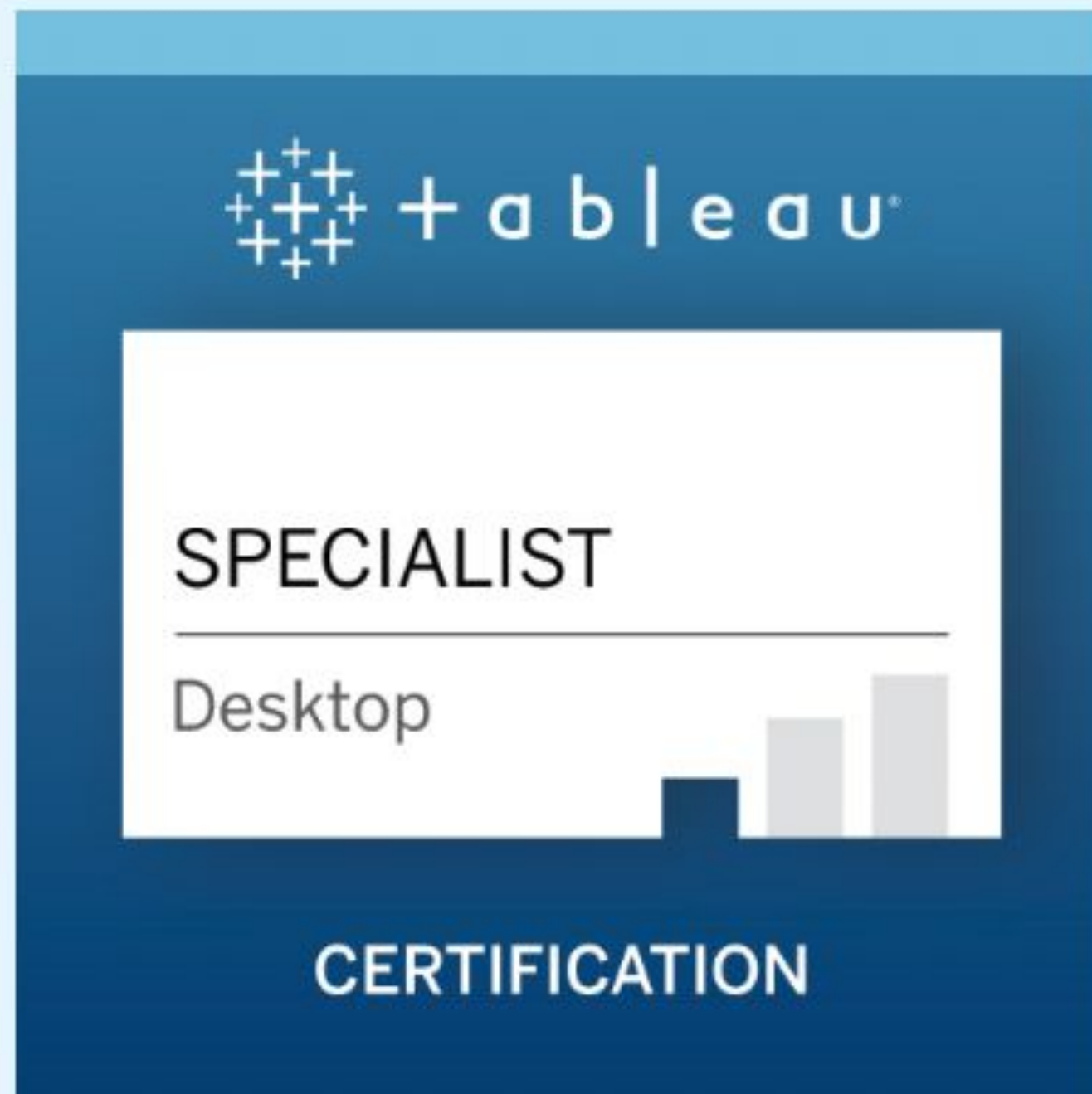


Tableau Desktop Specialist

Prove your basic skills and product knowledge



Tableau Certified Data Analyst

Get certified in the hottest role in data analytics.

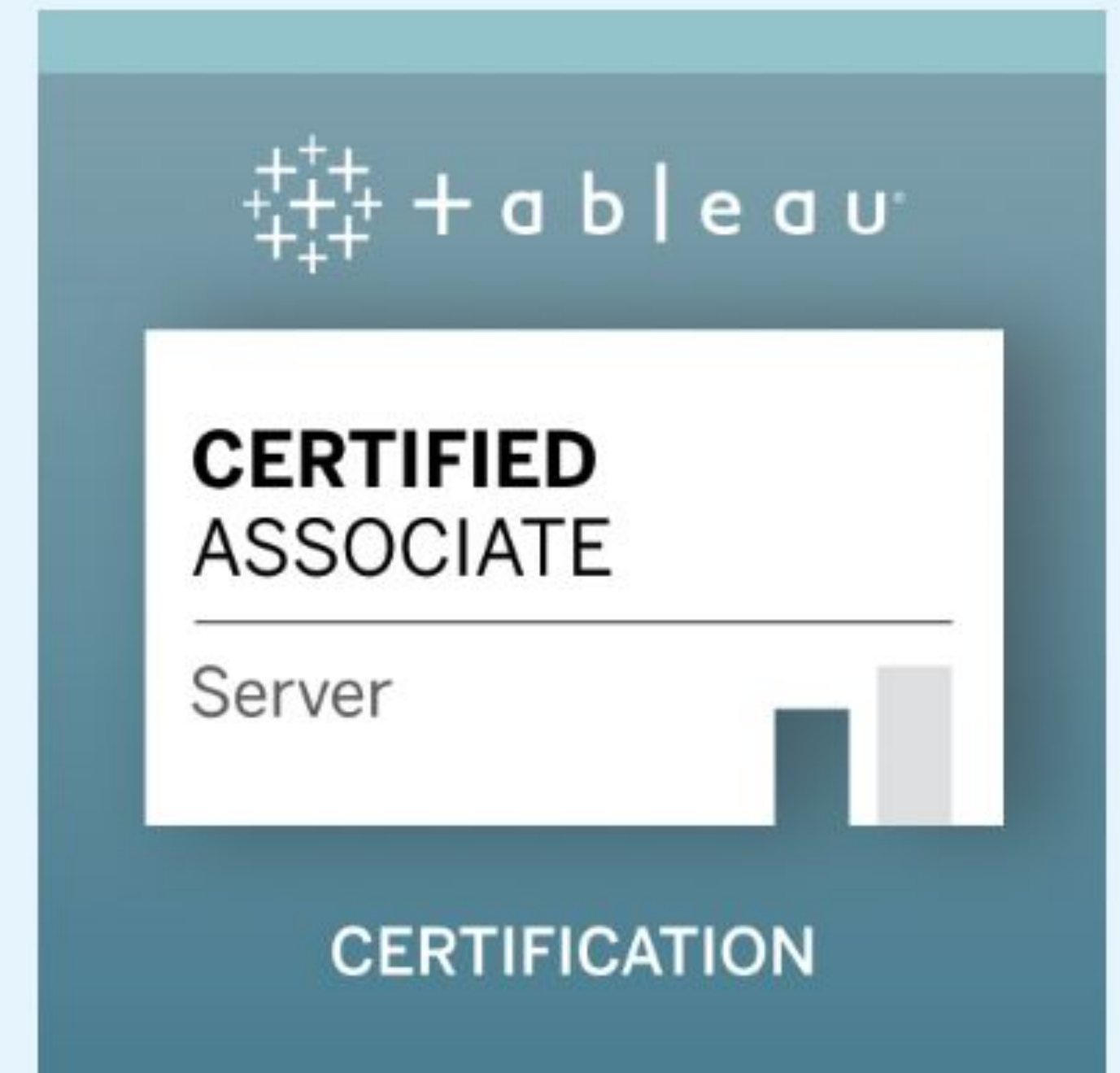


Tableau Certified Server Associate

Prove your administrative skills and platform knowledge

Tableau Desktop Specialist Certification

~~Fee: \$100~~

Reschedule Fee: \$25

Required Prerequisites: None

Suggested Product Experience: 3+ Months

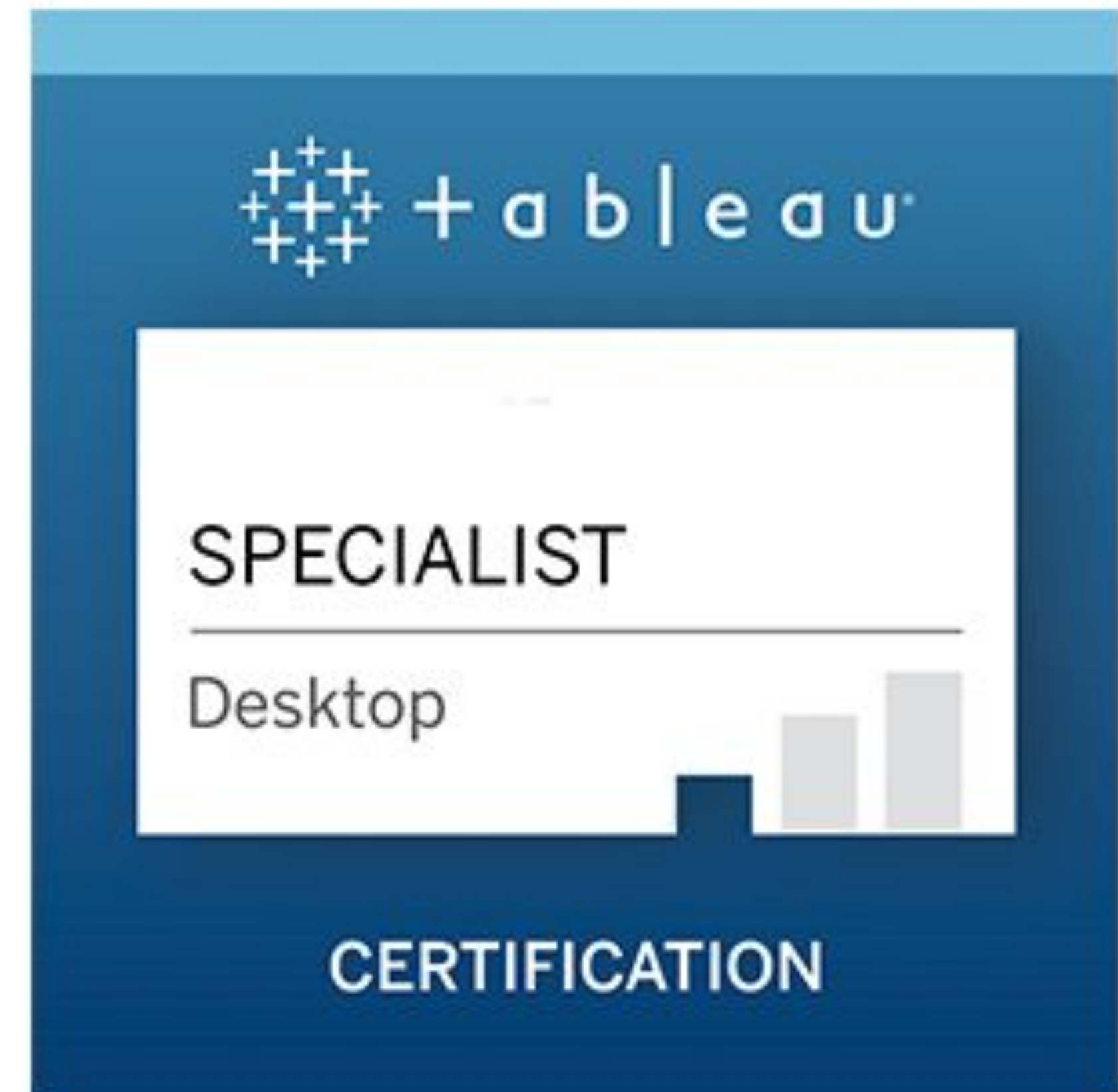
Product Version: Currently testing on 2020.3

Title Valid For: No Expiration

Exam Prep Guide: [Download here](#)

Recommended Training: [Explore courses](#)

Language(s) Offered: English, Japanese, and Simplified Chinese



Format

Prerequisites

There are no required prerequisites for this exam. Everyone learns differently and every day use of Tableau varies. Recommendations for learning resources and experience with the product are guidelines, not requirements.

Exam Format

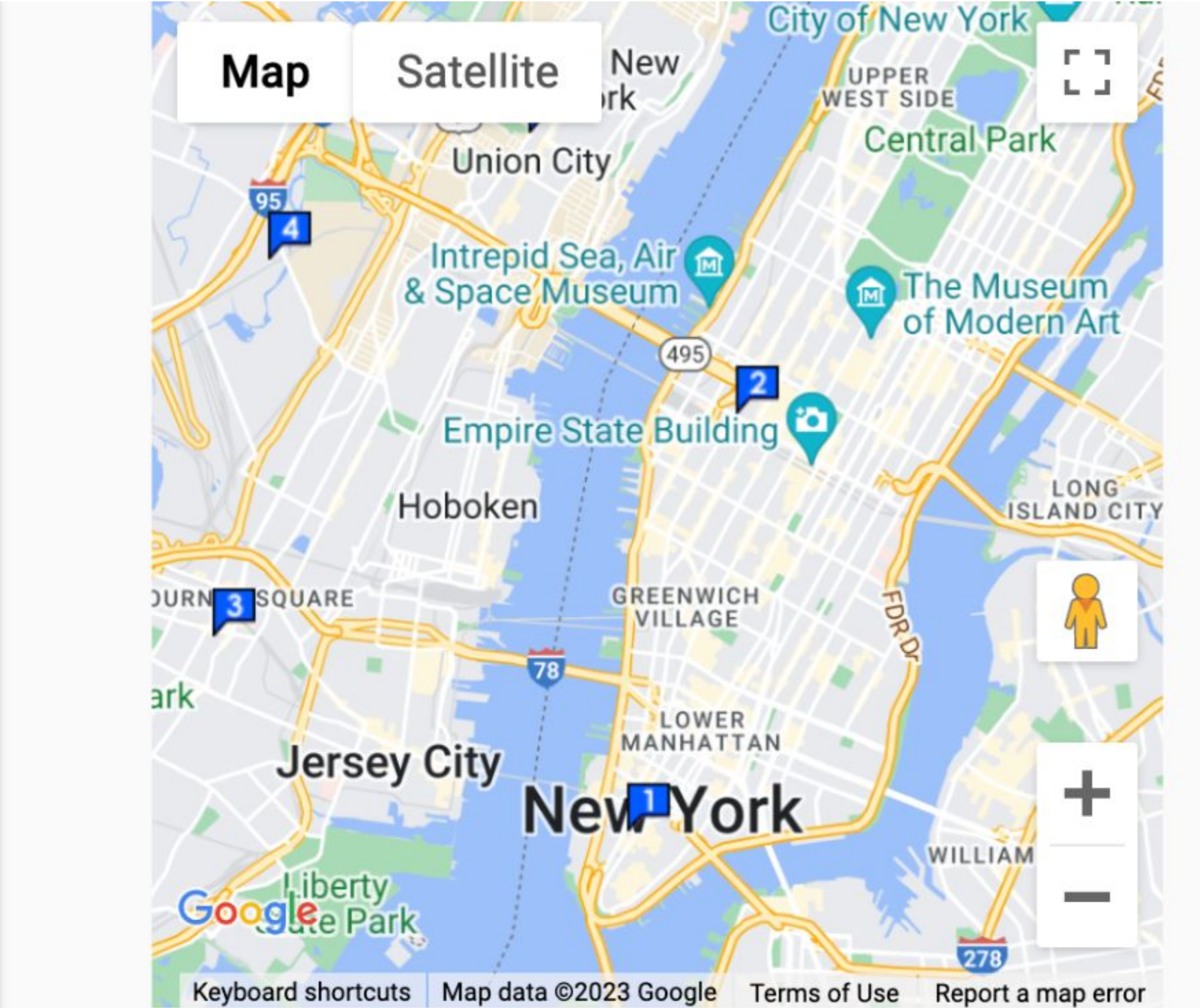
- **Time Limit:** 60 minutes
- **Question Format:** Multiple choice, multiple response
- **Number of Questions:** 45 (40 scored, 5 unscored)
- **Passing Score:** The passing scaled score for this exam is 750.
- **Language(s) Offered:** English, Japanese, and Simplified Chinese.
- **Exam Delivery Method:** Testing center and online delivery are both available. Learn more about the check-in process and testing experience for each method

Test Rubric

Domain Title	% of Exam Content
Domain 1: Connecting to & Preparing Data	25%
Domain 2: Exploring & Analyzing Data	35%
Domain 3: Sharing Insights	25%
Domain 4: Understanding Tableau Concepts	15%
TOTAL	100%

Pearson Authorized Test Centers

Test Center	Distance Show km
AVNA Learning Center-NYC 139 Fulton St. Unit 605 New York, New York 10038 United States Test Center Information	0.2 mi
Ace Institute of Technology 312 West 36th Street 2nd Floor New York, New York 10018 United States Test Center Information	2.9 mi
AVNA Learning Center 26 Journal Square Suite 803 Jersey City, New Jersey 07306 United States Test Center Information	3.3 mi



Testing space requirements:

The place where you'll take your exam is one of your most crucial decisions. See below for general information or visit the [online testing guide](#) for more specifics.

General:

- Choose an enclosed, private space. An ideal testing space will allow you to close all doors to avoid interruptions, since **no one else may enter or even pass through your space once you've started your exam.**
- Make sure it's well-lit, but be aware that too much background light (natural or electric) could create visibility issues for your proctor.
- Avoid testing near windows or glass partitions to prevent others from viewing your screen.
- Be prepared to take photos of your testing space during check-in.

Monitor and webcam:

- **You may only use one monitor during your exam.** If using an external monitor, your laptop lid must be closed. The use of touchscreen technology is prohibited.
- Position your monitor to face you directly and stay within the webcam's view throughout your exam. **No one else may appear through the webcam during the exam** and no one else's voice should be heard.

Desk/workspace:

- Clear your desk/workspace of all personal and preparatory items, except for those allowed by your exam program.
- Keep your mobile phone in the room where you're testing, but out of arm's reach.

ID requirements for testing online

Make sure you have acceptable ID

Before testing online, you'll need to provide identification (ID) that meets the requirements outlined below.

- All IDs must be valid government-issued originals (i.e., not a photocopy)
- IDs must include the test-taker's name and a recent, recognizable photo
- The first and last name on the ID must match the first and last name used to register for the exam
- Acceptable forms of ID:
 - **International travel passport**
 - **Driver's license**
 - **Identification card (national, state or province ID card)**
 - **Alien registration card (green card or permanent resident/visa)**
- Unacceptable IDs:
 - Restricted IDs*, including the U.S. Department of Defense (DoD) Common Access Card (CAC) or certain secure access IDs
 - IDs from countries where OnVUE delivery is restricted: North Korea, Cuba, Syria, Sudan, Iran and the Sevastopol/Crimea region of Ukraine.

STEP 1. Do any last-minute prep

Be sure your computer and internet pass the pre-exam system test.

Clear your desk/workspace of prohibited items and prep your equipment.

Get your ID ready to present.

STEP 2. Check in

You can begin the check-in process up to 30 minutes before to 15 minutes after your appointment time.

STEP 3. Start your exam

While testing, it's best to focus on the questions and not get distracted.

Observe all the environmental and behavioral rules. If you need help during your exam, use the chat icon to request assistance.

Test Space



The OnVue Secure Browser



English (US)



Unlock OnVUE

Confirm or enter your access code

If you copied your access code, just make sure this is the correct one. Otherwise, you can find your access code on the same page from which you downloaded the OnVUE application.

Domain 1: Connecting to & Preparing Data

1.1 Create live connections and extracts

- 1.1.1 Create a live connection to a data source
- 1.1.2 Explain the differences between using live connections versus extracts
- 1.1.3 Create an extract
- 1.1.4 Save metadata properties in a .TDS
- 1.1.5 Create a data source that uses multiple connections

1.2 Create and manage the data model

- 1.2.1 Add relationships to a data source
- 1.2.2 Add joins and unions
- 1.2.3 Explain when to use a join versus a relationship

1.3 Manage data properties

- 1.3.1 Rename a data field
- 1.3.2 Assign an alias to a data value
- 1.3.3 Assign a geographic role to a data field
- 1.3.4 Change data type for a data field (number, date, string, Boolean, etc.)
- 1.3.5 Change default properties for a data field (number format, aggregation, color, date format, etc.)

Live vs. Extract

Live connection

A data source that contains direct connection to underlying data

Tableau makes queries directly against the data source

Won't work if not connected

Need to enter credentials

Extract

Saved subsets of data

Better performance than live

Full refresh/incremental refresh
(only adds new rows)

Works without connection

No credentials

Employee Workbook

FileDataHelp

←→

📁

🔍

🔄

📊

📈

📉

📊

📈

📉

Σ

📝

📄

📊

📈

📉

Show Me

Connections

Database Server

Microsoft SQL Server

Database

AdventureWorks

Table

Address (Person.Address)

AddressType (Person.AddressTy...

AWBuildVersion

BillOfMaterials (Production.BillO...

Contact (Person.Contact)

ContactCreditCard (Sales.Conta...

ContactType (Person.ContactTy...

CountryRegion (Person.Country...

CountryRegionCurrency (Sales....

CreditCard (Sales.CreditCard)

Culture (Production.Culture)

Currency (Sales.Currency)

CurrencyRate (Sales.CurrencyR...

Customer (Sales.Customer)

CustomerAddress (Sales.Custo...

New Custom SQL

New Union

Employees

IndividualEmployee

Sort fieldsData source order

Show aliasesShow hidden fields1000rows

Individual Customer IDIndividual Contact IDIndividual Modified Date

Update Now

Connection

LiveExtractCreate Extract

Extract will include all data.

Filters0Add

Data Source

Sheet 1

- **Workbooks (.twb)** – Tableau workbook files have the .twb file extension. Workbooks hold one or more worksheets, plus zero or more dashboards and stories.
- **Bookmarks (.tbm)** – Tableau bookmark files have the .tbm file extension. Bookmarks contain a single worksheet and are an easy way to quickly share your work.
- **Packaged Workbooks (.twbx)** – Tableau packaged workbooks have the .twbx file extension. A packaged workbook is a single zip file that contains a workbook along with any supporting local file data and background images. This format is the best way to package your work for sharing with others who don't have access to the original data.
- **Extract (.hyper or .tde)** – Depending on the version the extract was created in, Tableau extract files can have either the .hyper or .tde file extension. Extract files are a local copy of a subset or entire data set that you can use to share data with others, when you need to work offline, and improve performance.
- **Data Source (.tds)** – Tableau data source files have the .tds file extension. Data source files are shortcuts for quickly connecting to the original data that you use often. Data source files do not contain the actual data but rather the information necessary to connect to the actual data as well as any modifications you've made on top of the actual data such as changing default properties, creating calculated fields, adding groups, and so on.
- **Packaged Data Source (.tdsx)** – Tableau packaged data source files have the .tdsx file extension. A packaged data source is a zip file that contains the data source file (.tds) described above as well as any local file data such as extract files (.hyper or .tde), text files, Excel files, Access files, and local cube files. Use this format to create a single file that you can then share with others who may not have access to the original data stored locally on your computer.

Relationship vs. Join

Relationship

Logical layer

Noodles

Flexible

Good with different levels of aggregation



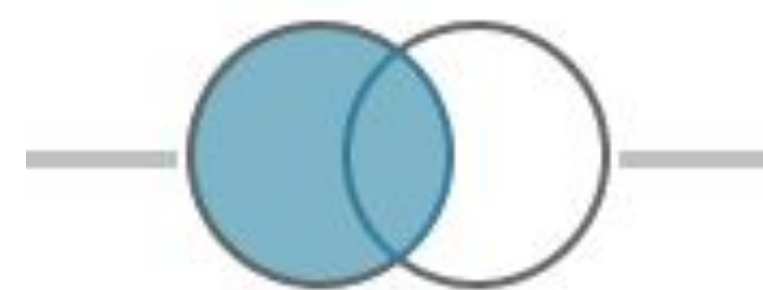
Join

Physical layer

Rings

Rigid

Trouble with aggregation at different levels of detail



Relationships



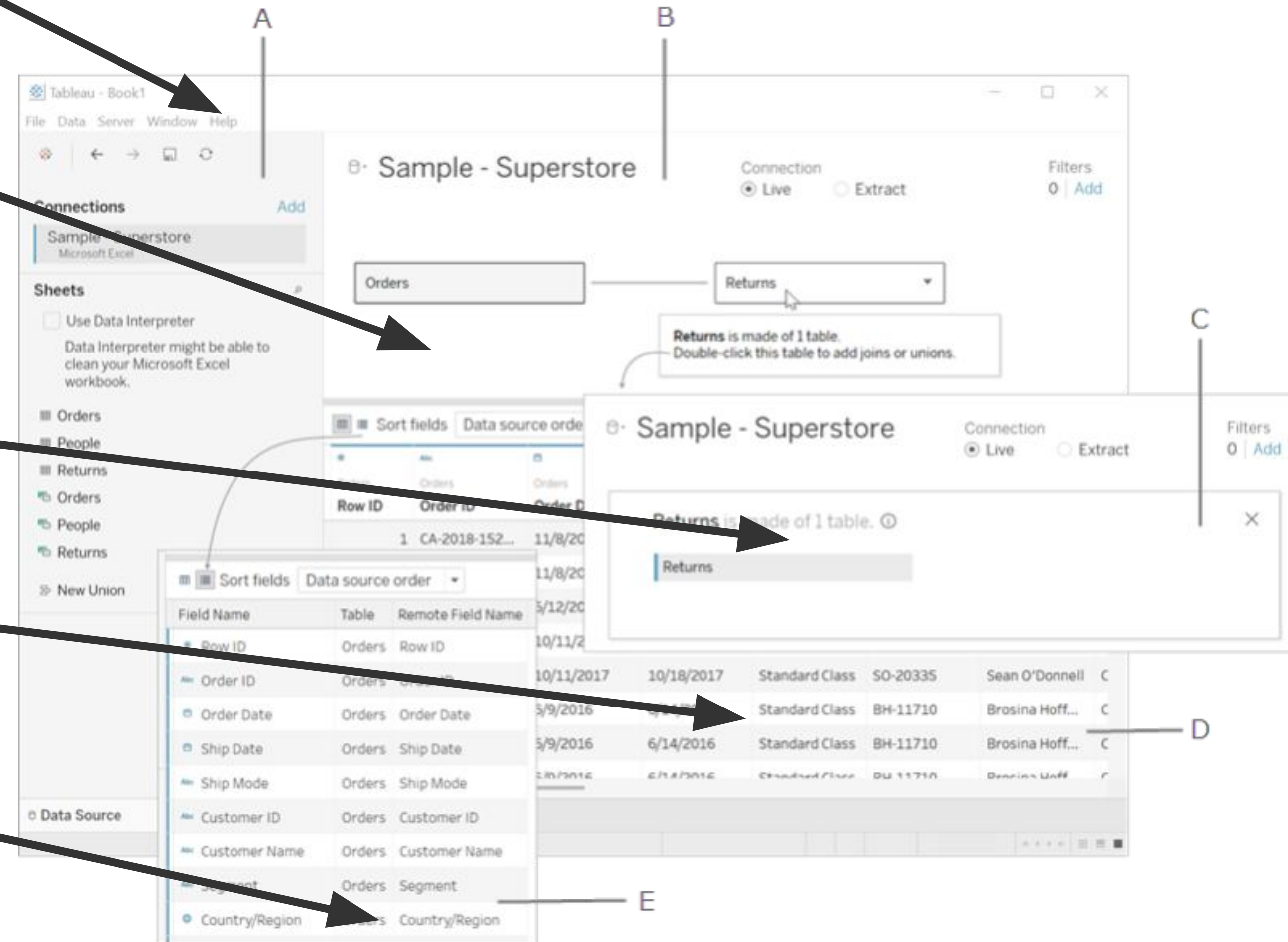
A. **Left pane** – Displays the connected data source and other details about your data.

B. **Canvas**: logical layer – The canvas opens with the logical layer, where you can create relationships between logical tables.

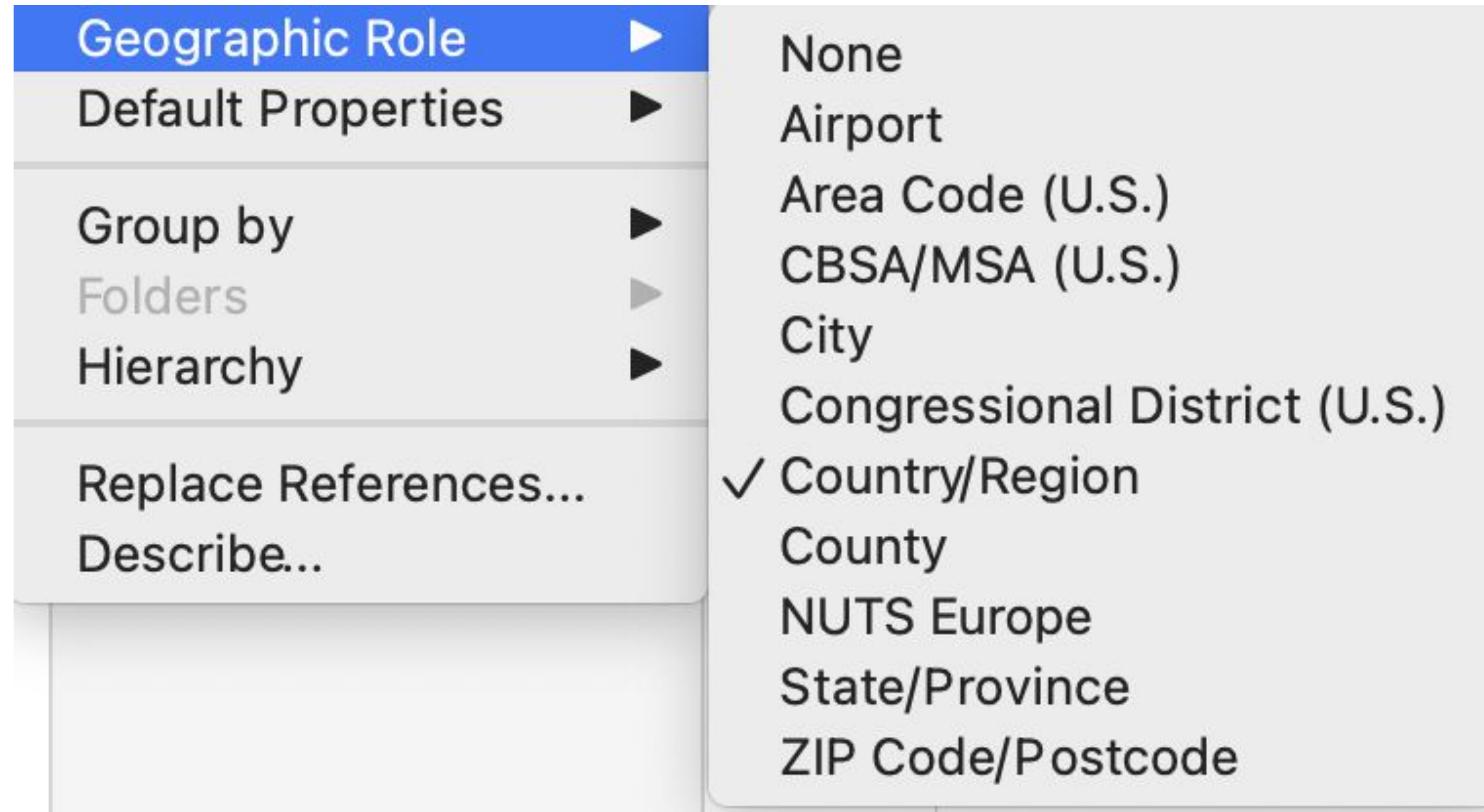
C. **Canvas**: physical layer – Double-click a table in the logical layer to go to the physical layer of the canvas, where you can add joins and unions between tables.

D. **Data grid** – Displays first 1,000 rows of the data contained in the Tableau data source.

E. **Metadata grid** – Displays the fields in your data source as rows.



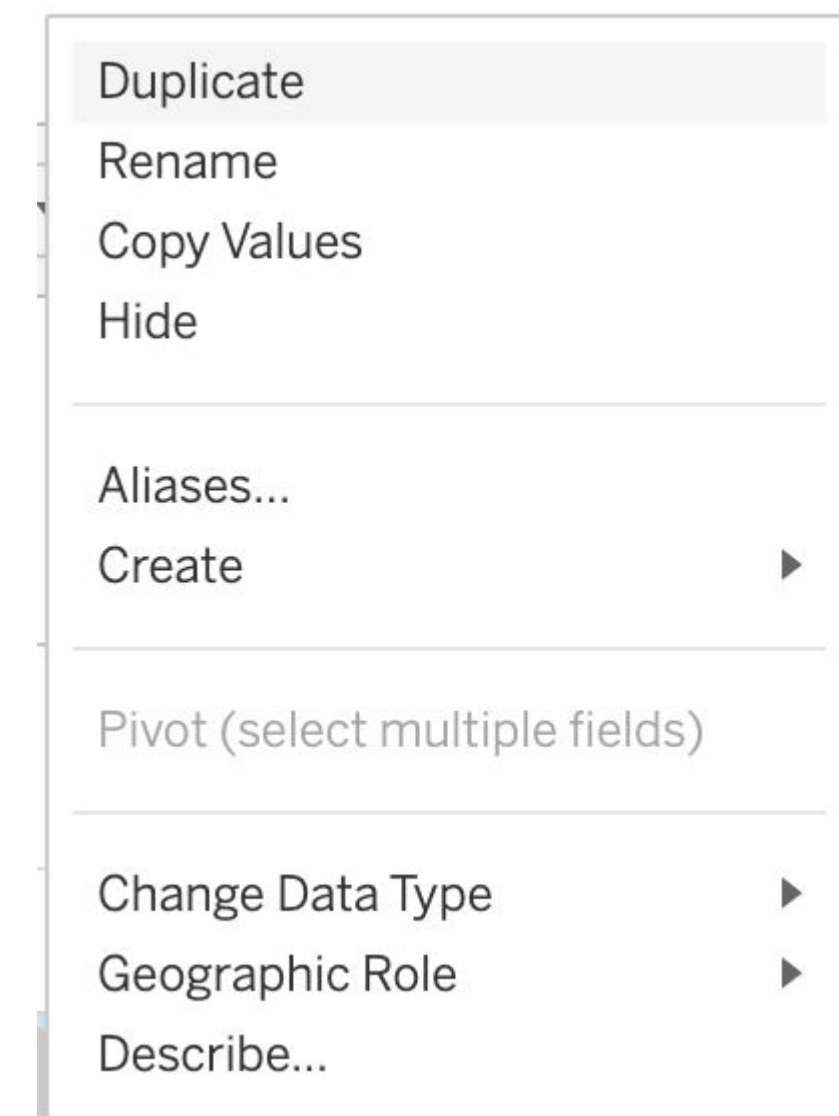
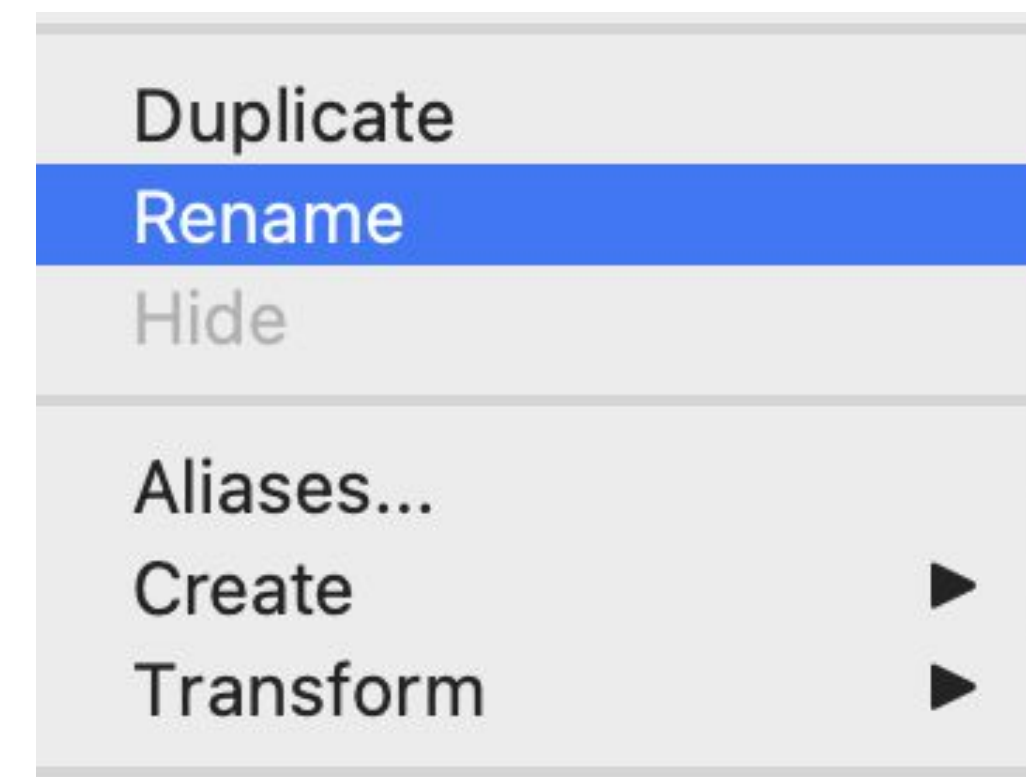
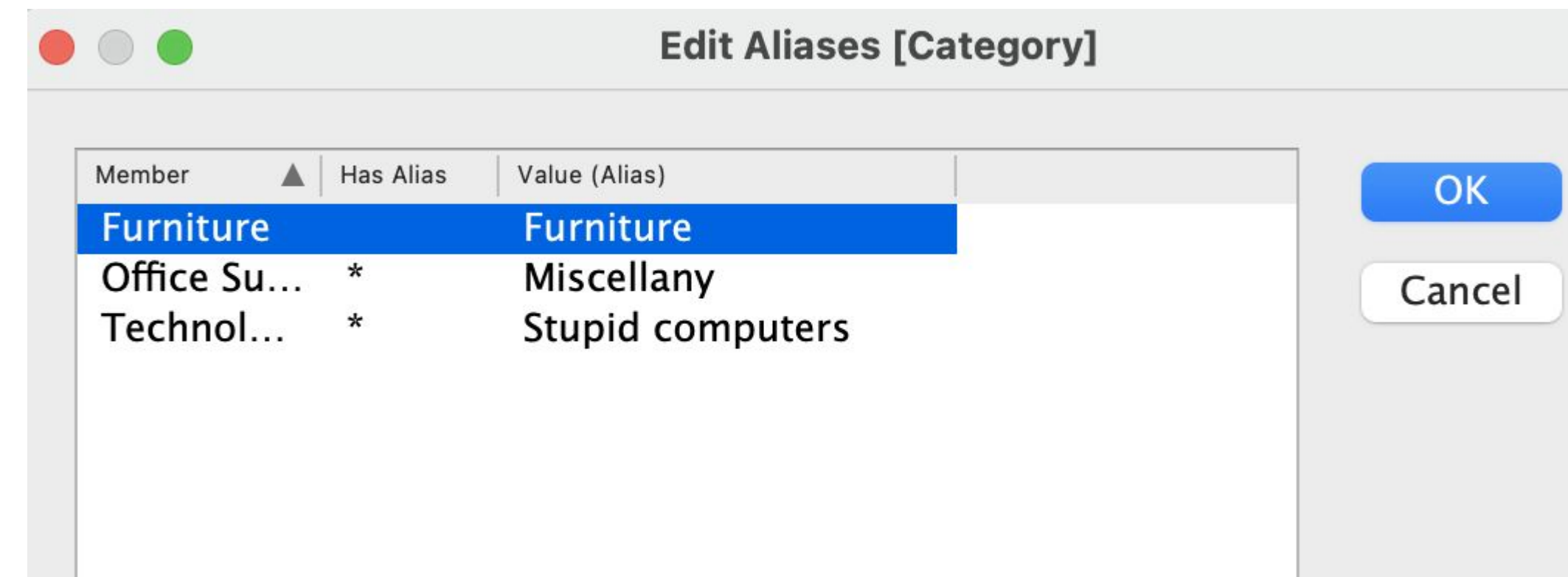
Geographic Roles



Alias and Rename

Aliases are for discrete categories

You can rename a variable by right clicking on its name or in the metadata grid on the data connection

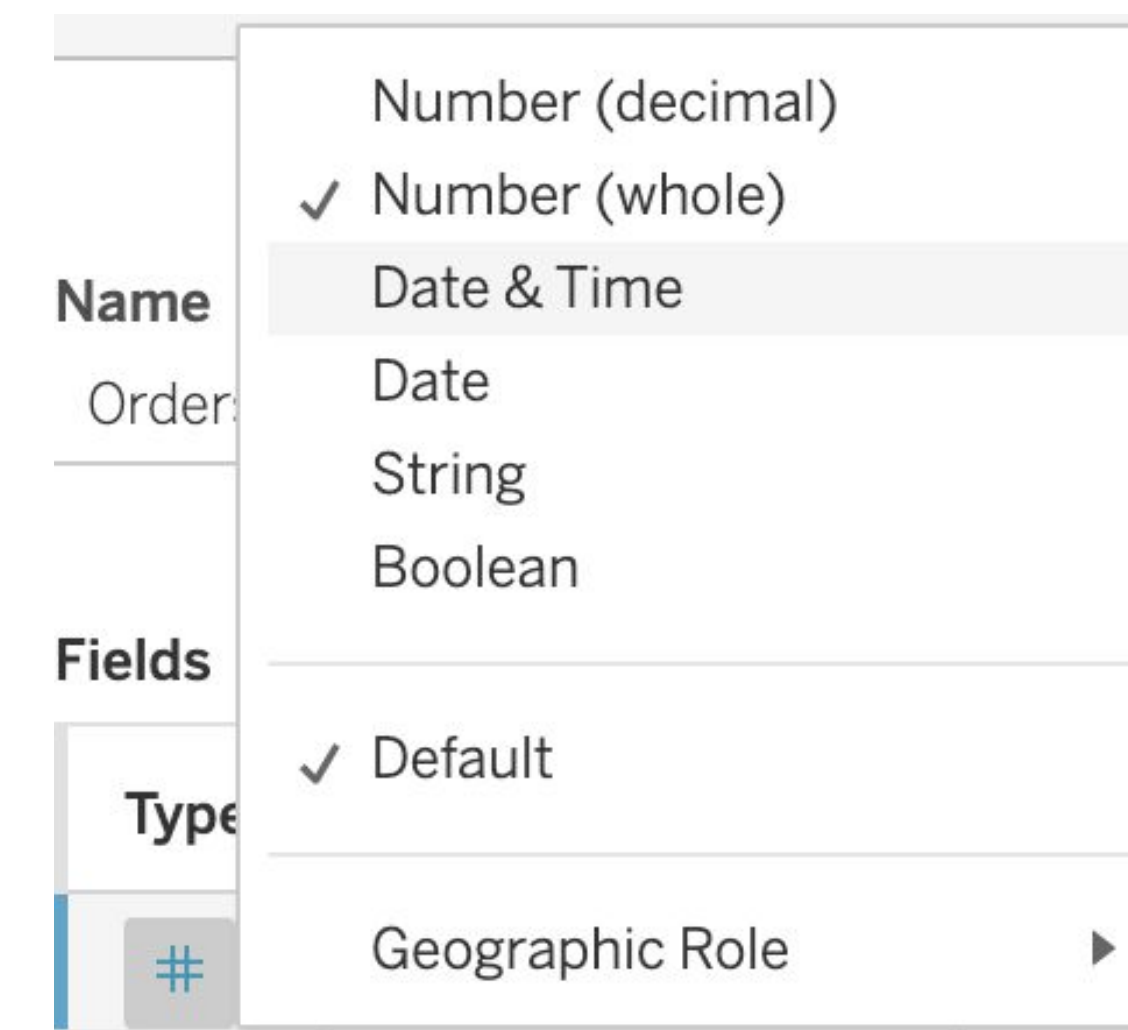
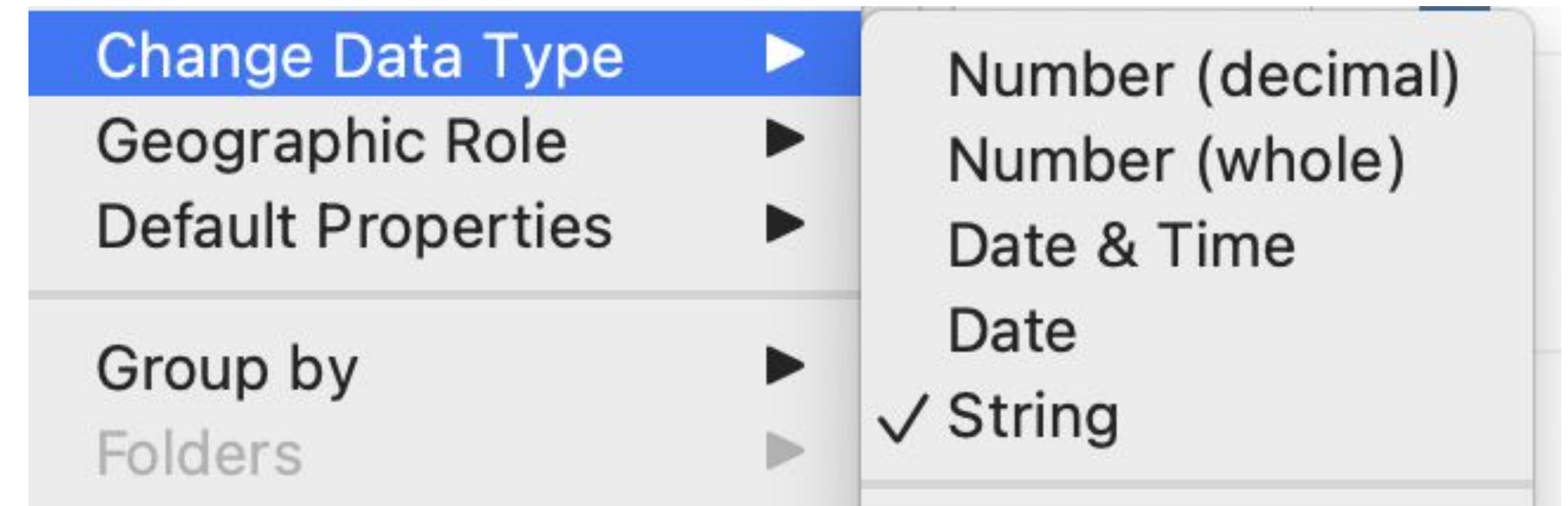


Change Data Type

You can change data type
from the data pane

or

the metadata grid on the data
connection page



Knowledge Check

1. Connecting multiple tables on the logical level is what kind of connection?
2. Why is a data extract preferable to a live data connection?
3. To change a data type in the metadata grid you should click on what?
4. What is stored in a .tds file?
5. Can a measure be discrete?
6. Is time zone a geographic role?

Domain 2: Exploring & Analyzing Data

2.1 Create basic charts

- 2.1.1 Create a bar chart
- 2.1.2 Create a line chart
- 2.1.3 Create a scatterplot
- 2.1.4 Create a map using geographic data
- 2.1.5 Create a combined axis chart
- 2.1.6 Create a dual axis chart
- 2.1.7 Create a stacked bar
- 2.1.8 Create a density map
- 2.1.9 Create a chart to show specific values (crosstab, highlight table)

2.2 Organize data and apply filters

- 2.2.1 Create groups by using marks, headers, and the data pane
- 2.2.2 Create sets by using marks and the data pane
- 2.2.3 Organize dimensions into a hierarchy
- 2.2.4 Add a filter to a view
- 2.2.5 Add a date filter

2.3 Apply analytics to a worksheet

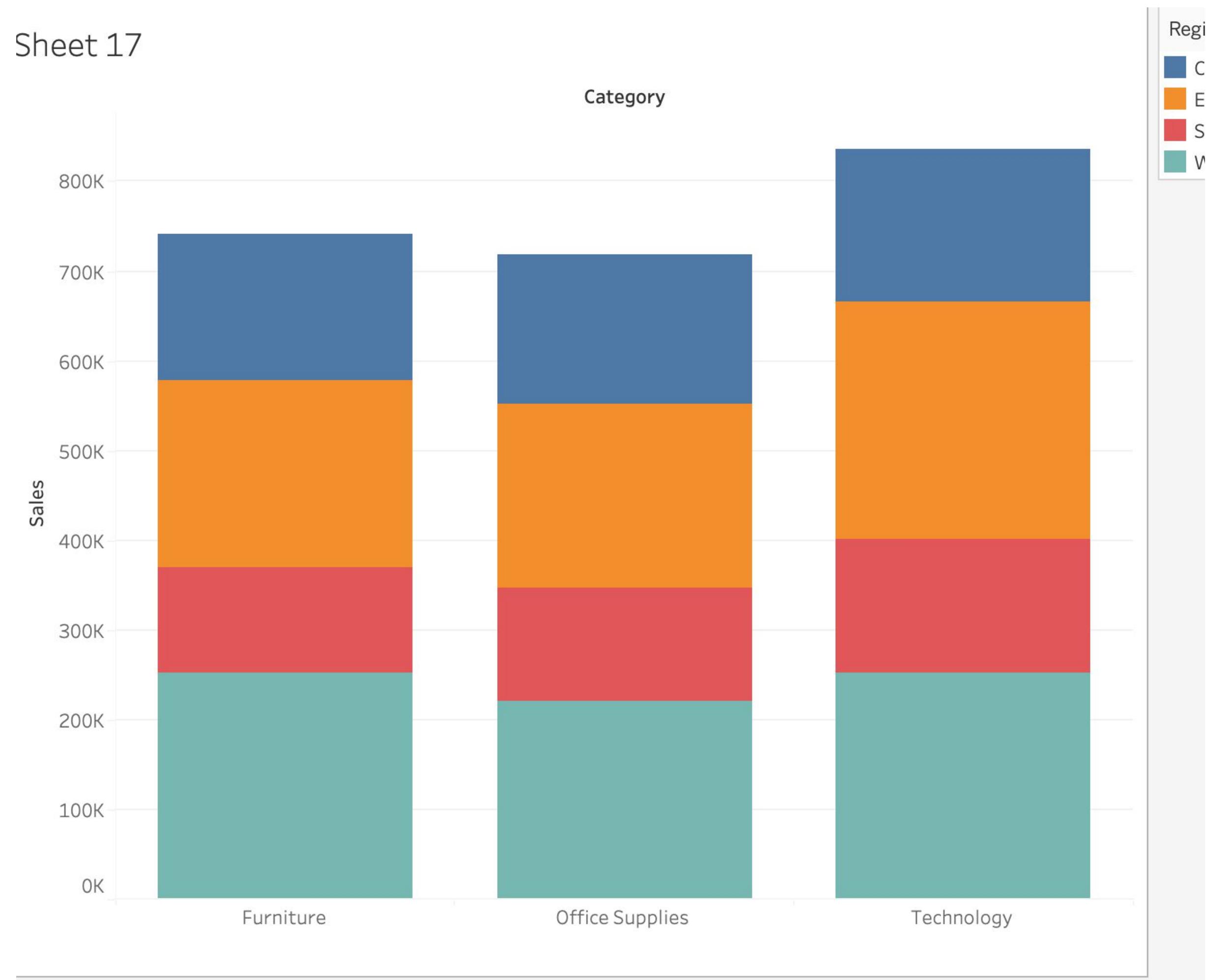
- 2.3.1 Add a manual or a computed sort
- 2.3.2 Add a reference line
- 2.3.3 Use a quick table calculation
- 2.3.4 Use bins and histograms
- 2.3.5 Create a calculated field (e.g. string, date, simple arithmetic)
- 2.3.6 Explain when to use a parameter
- 2.3.7 Display totals on a worksheet

Charts

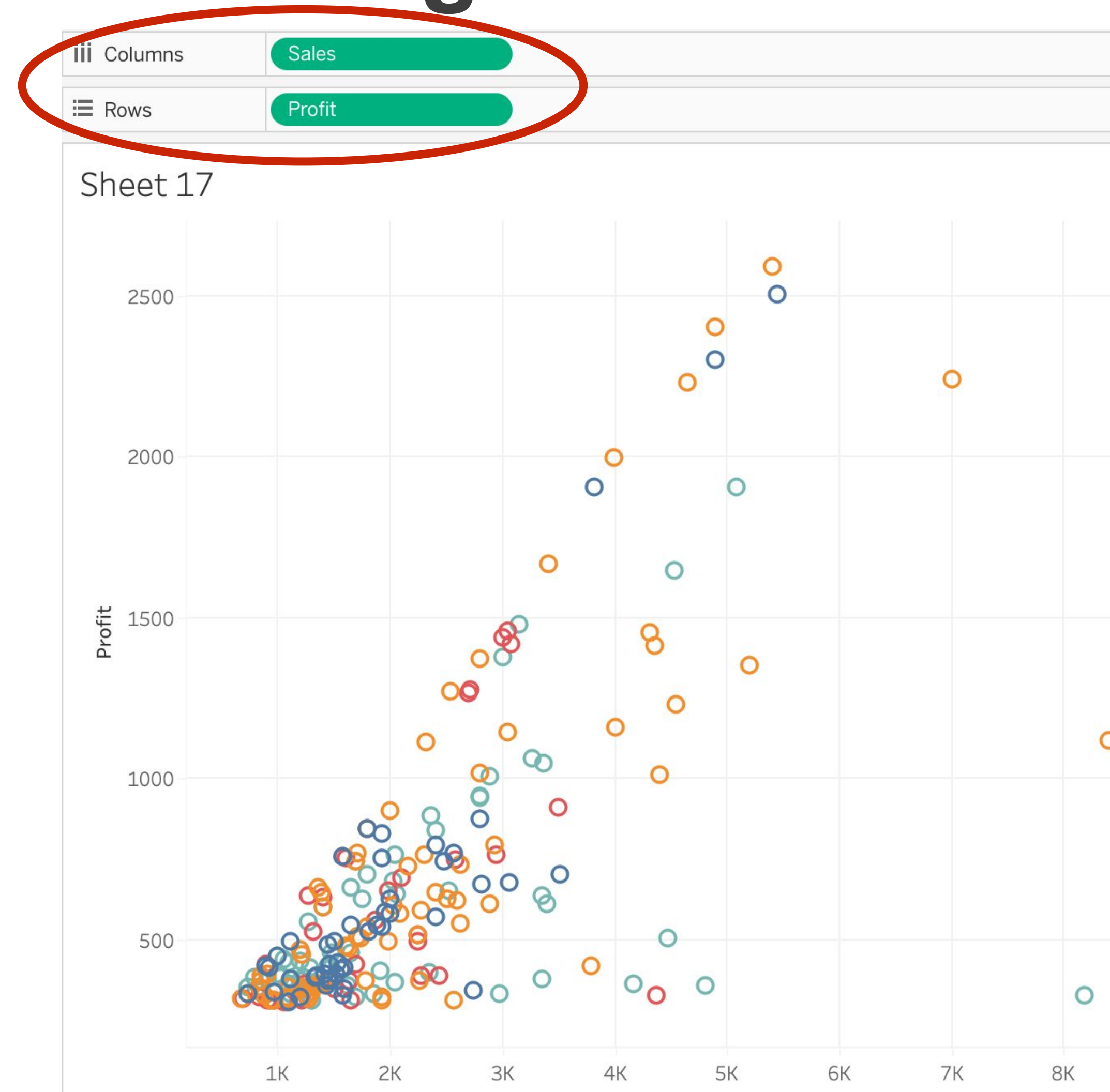
- Bar charts - show your categorical data with rectangular bars that have heights or lengths proportional to the values that they represent.
- Line charts - display your data as a series of points called 'markers' connected by straight line segments.
- Scatterplot - plots your data using two measures that plot on each axis.
- Geographical map charts - display your geographical data by categories or values.
- Combined axis charts - display your data by merging two or more measures into a single access so you can use multiple measures on the same chart.
- Dual axis charts - display your data using multiple mark types and shared axes.
- Stacked bar chart - display your data in a simple bar chart with segmented bars that represent distinct values of one data field on one axis.
- Crosstab - also known as a text table made up of one or more dimensions and one or more measures.

Creating a Stacked Bar

2 dimensions
(1 x-axis, 1 color)
1 measure



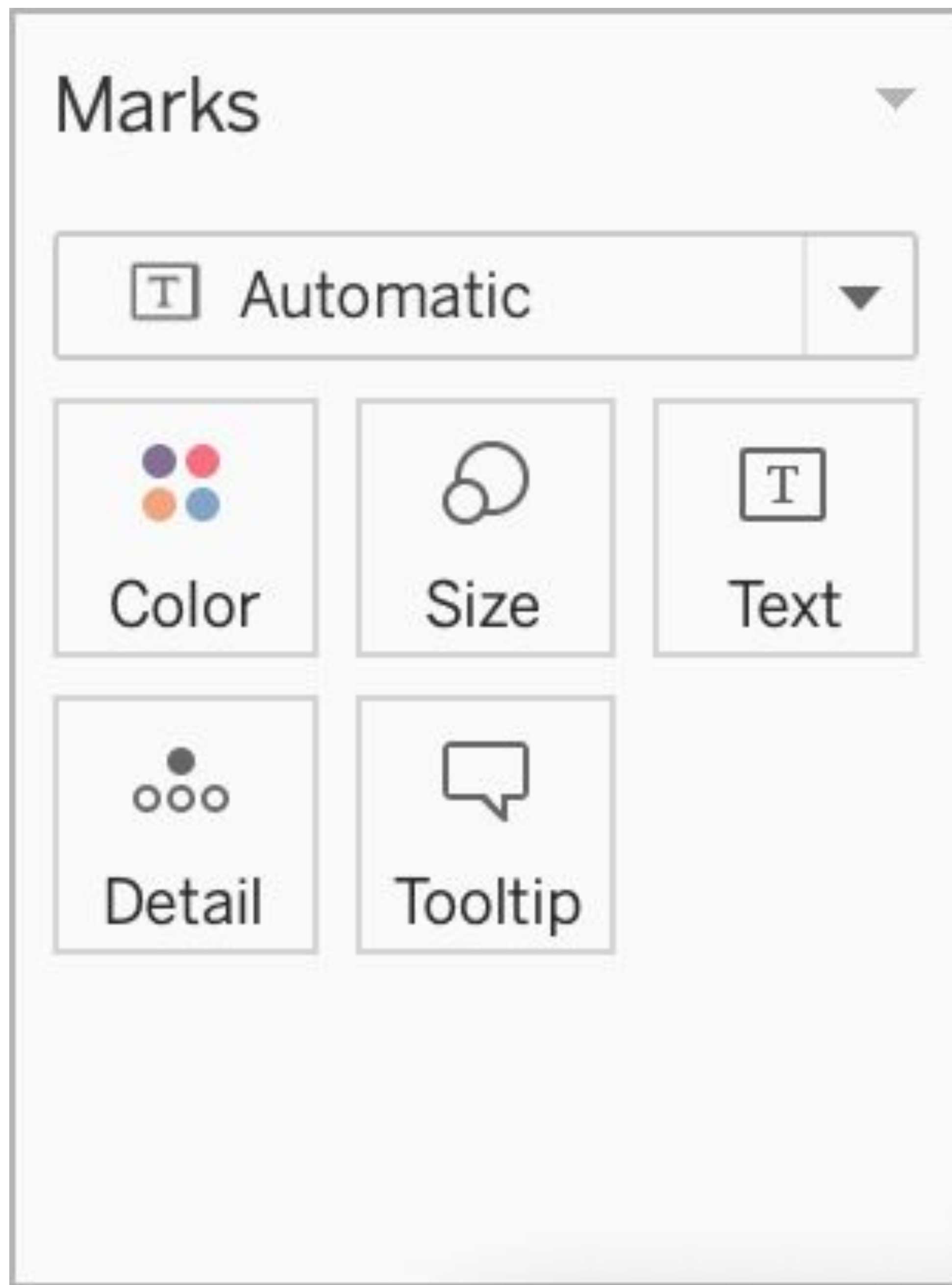
Creating a Scatter Plot



Crosstab

aka text tables

Year of Order Date	Quarter of Order Date	Profit	% Difference in ..
2014	Q1	3,811	
	Q2	11,204	193.98%
	Q3	12,805	14.29%
	Q4	21,724	69.66%
2015	Q1	9,265	-57.35%
	Q2	12,191	31.58%
	Q3	16,854	38.25%
	Q4	23,309	38.30%
2016	Q1	11,441	-50.91%
	Q2	16,390	43.26%
	Q3	15,824	-3.46%
	Q4	38,140	141.03%
2017	Q1	23,506	-38.37%
	Q2	15,499	-34.06%
	Q3	26,985	74.11%
	Q4	27,449	1.72%



Marks

Color

Size

Text

Detail


Tooltip

Shape


Angle

Groups, Sets, Hierarchies

Field Name:

Groups: 

▼



South

Alabama

Arkansas

Georgia

▼

Southwest

Arizona

California

New Mexico

Colorado

Connecticut

Delaware



☒ Show Add Location



Edit Set [Sub-Category Set]

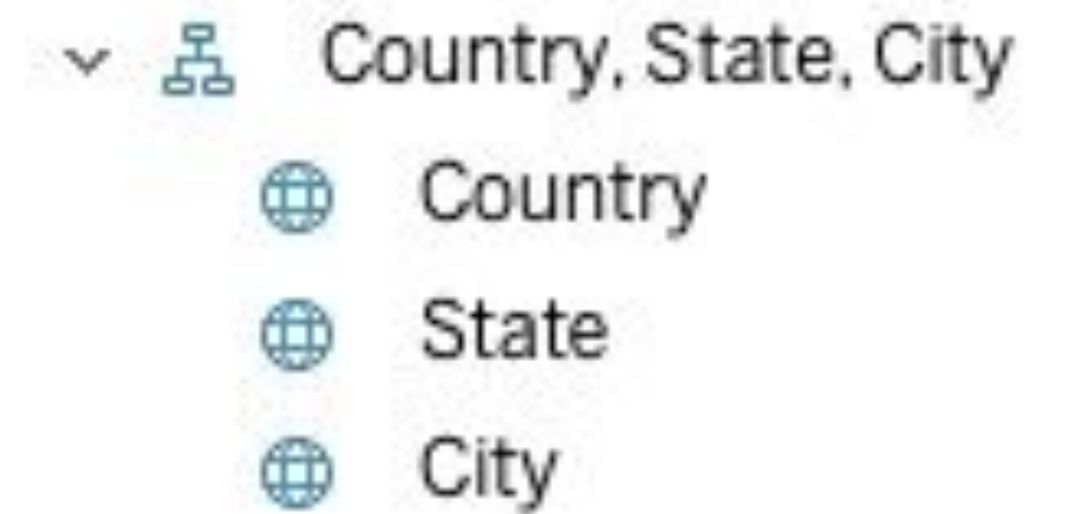
Name:

☐ None

☒ By field:

  by



Groups vs. Sets

- Groups - dimension categories that can be “collapsed” into one
- Sets - collections with ‘membership’, either selected or based on criteria

The 'Filter [Region]' dialog box is shown with the 'General' tab selected. It features a search bar labeled 'Enter search text' and a list of regions: Central, East, South, and West, each with an unchecked checkbox. Below the list are buttons for 'All', 'None', and 'Exclude'. A 'Summary' section at the bottom displays: 'Field: [Region]', 'Selection: Selected 0 of 4 values', 'Wildcard: All', 'Condition: None', and 'Limit: None'. At the very bottom are 'Reset', 'Apply', 'Cancel', and 'OK' buttons.

The 'Create Group [Airport Name]' dialog box is shown. The 'Field Name' is set to 'Airport Name (group)'. A list of airports is displayed, with the first five highlighted in blue and enclosed in a red box: Baltimore/Washington International, Charlotte Douglas International, Chicago O'Hare International, Dallas/Fort Worth International, and Denver International. Other airports listed include Detroit Metro Wayne County, George Bush Intercontinental, Hartsfield-Jackson Atlanta, John F. Kennedy International, LaGuardia, Logan International, Los Angeles International, and McCarran International. At the bottom, there are buttons for 'Group', 'Rename', and 'Ungroup', along with a checked 'Show Add Location' checkbox, an 'Include 'Other'' checkbox, a 'Find >>' button, and 'Reset', 'OK', 'Cancel', and 'Apply' buttons.

Sets

Edit Set [Sub-Category Set]

Name: Sub-Category Set

General Condition Top

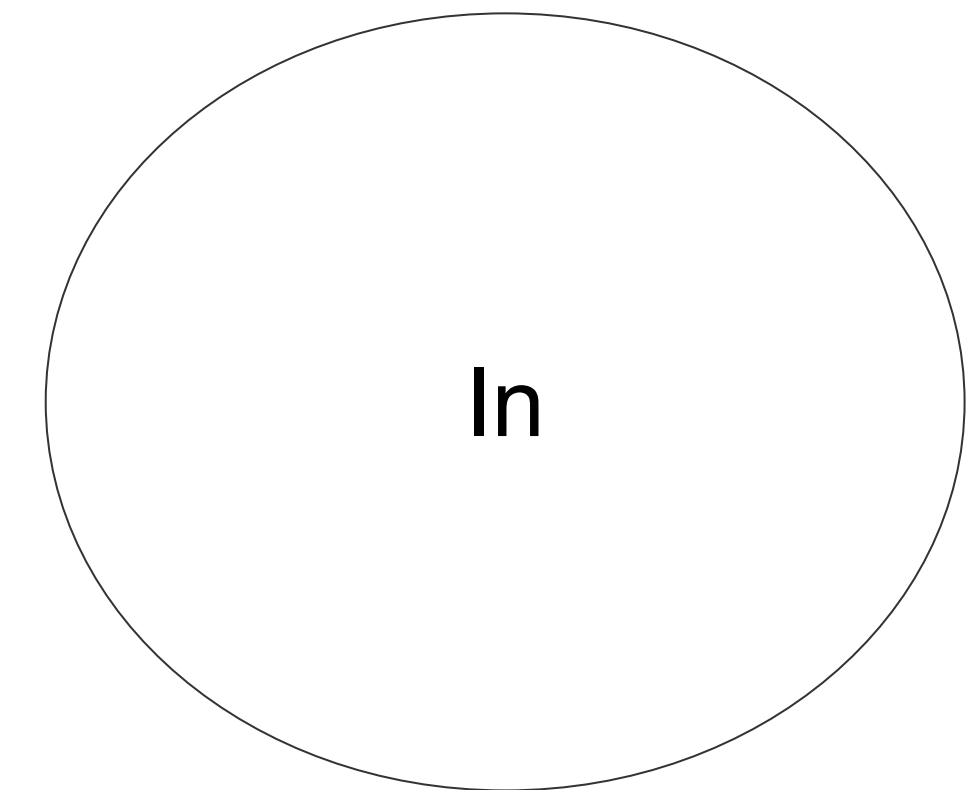
☐ None

☒ By field:

Sales Sum

> 50,000

Range of Values



Out

Hierarchies



Filters

Filter [City]

General Wildcard Condition Top

☒ Select from list ☐ Custom value list ☐ Use all

Enter search text

- ☐ Aberdeen
- ☐ Abilene
- ☐ Akron
- ☐ Albuquerque
- ☐ Alexandria
- ☐ Allen
- ☐ Allentown
- ☐ Altoona
- ☐ Amarillo
- ☐ Anaheim
- ☐ Andover

All None ☐ Exclude

Filter Field [Quantity]

How do you want to filter on [Quantity]?


- # All values
- # Sum
- # Average
- # Median
- # Count
- # Count (Distinct)
- # Minimum
- # Maximum
- # Standard deviation
- # Standard deviation (Population)
- # Variance
- # Variance (Population)
- # Attribute


Cancel Next >


Range of values At least At most Special


Range of values

Reference Lines/Bands


Line


Band


Distribution


Box Plot

Scope

☒ Entire Table ☐ Per Pane ☐ Per Cell

Quick Table Calculations

Running Total

Difference

Percent Difference

Percent of Total

Rank

Percentile

Moving Average

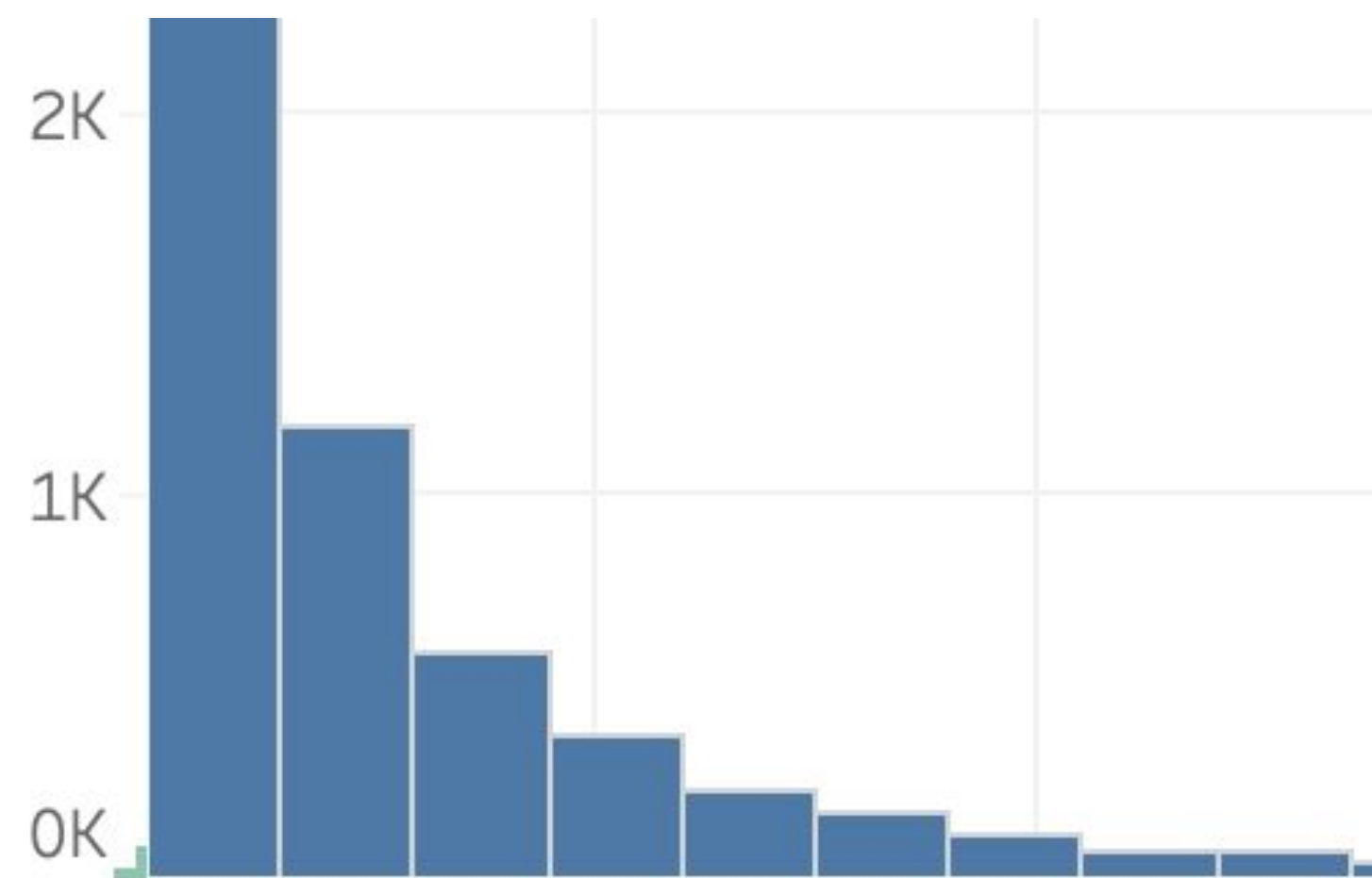
YTD Total

Compound Growth Rate

Year Over Year Growth

YTD Growth

Bins and Histograms



Edit Bins [Sales]

New field name: Sales (bin)

Size of bins: 15

Suggest Bin Size

Range of Values:

Min: 0

Diff: 22,638

Max: 22,638

CntD: 3,481

Cancel






OK

Data






Analytics







Summarize

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

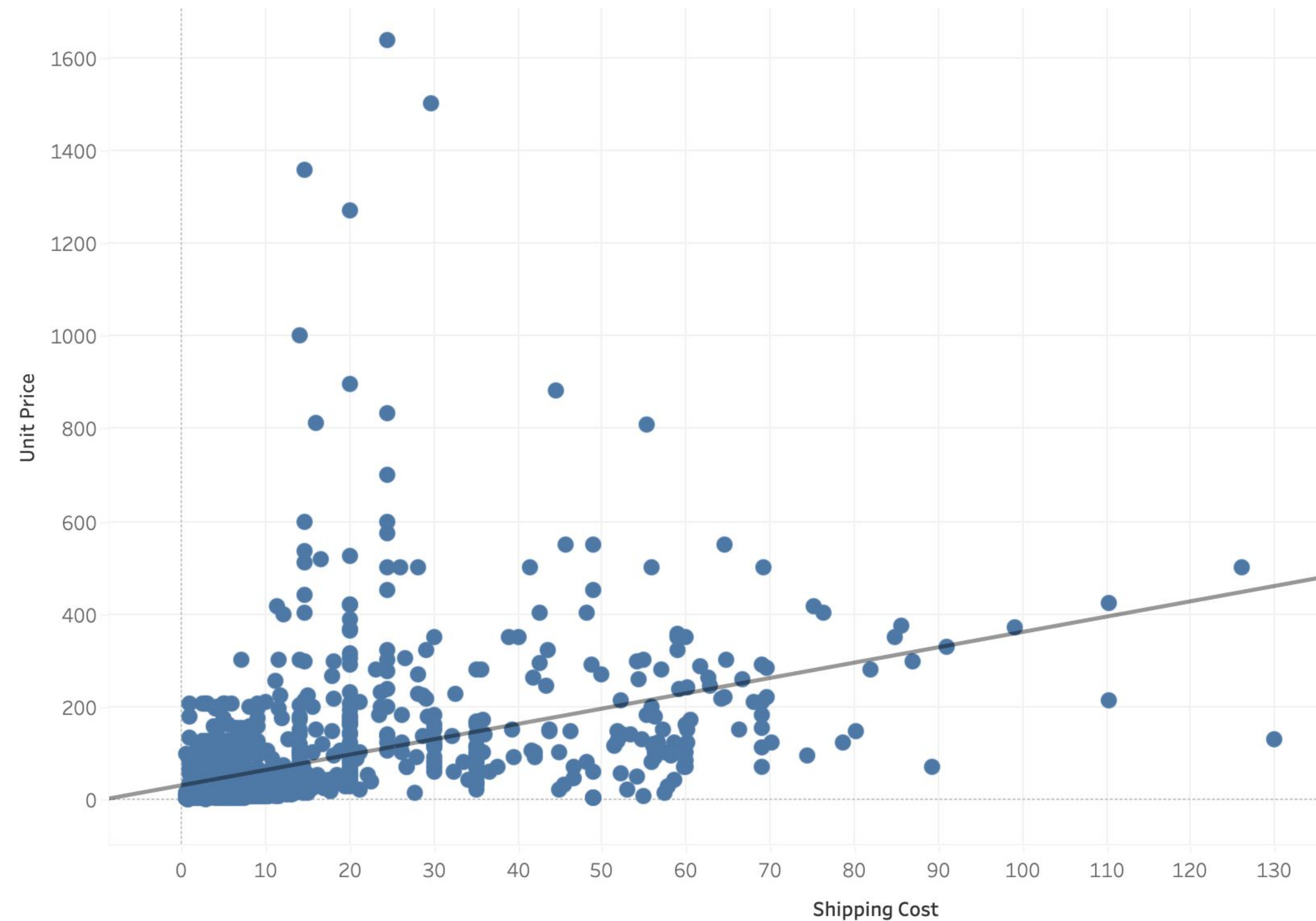
Model

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

Custom

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

Analytics



Knowledge Check

1. How can you change the size of all the marks on sheet?
2. What does 'bin size' mean?
3. What are the two types of sets?
4. Why would you use hierarchies?
5. What's a crosstab in Tableau?
6. What kind of data do you need for a scatter plot?
7. What's a highlight table?

Domain 3: Sharing Insights

3.1 Format view for presentation

- 3.1.1 Use color from the marks card
- 3.1.2 Configure fonts
- 3.1.3 Format marks as shapes
- 3.1.4 Configure viz animations
- 3.1.5 Change size of marks
- 3.1.6 Show and hide legends

3.2 Create and modify a dashboard

- 3.2.1 Add worksheets to a dashboard
- 3.2.2 Add interactive elements for consumers (e.g. show filters, data highlighter, tooltips)
- 3.2.3 Add dashboard actions (e.g. filter action, highlight action, parameter control, URL action)
- 3.2.4 Configure a dashboard layout and create device-specific dashboards
- 3.2.5 Create a story and a story point

3.3 View and share workbook data

- 3.3.1 Share a workbook (e.g. twbx as a PDF or an image, publish to Tableau Server)
- 3.3.2 View and export underlying data
- 3.3.3 Export to Microsoft PowerPoint

Automatic

Blue

Orange

Green

Red

Purple

Brown

Gray

Gray Warm

Blue-Teal

Orange-Gold

Green-Gold

Red-Gold

Orange-Blue Diverging

Red-Green Diverging

Green-Blue Diverging

Red-Blue Diverging

Red-Black Diverging

Gold-Purple Diverging

Red-Green-Gold Diverging

Sunrise-Sunset Diverging

Orange-Blue-White Diverging

Red-Green-White Diverging

Green-Blue-White Diverging

Red-Blue-White Diverging

Red-Black-White Diverging

Blue Light

Orange Light

Orange-Blue Light Diverging

Blue-Green Sequential

Temperature Diverging

Changing Colors

Select Data Item:

Furniture

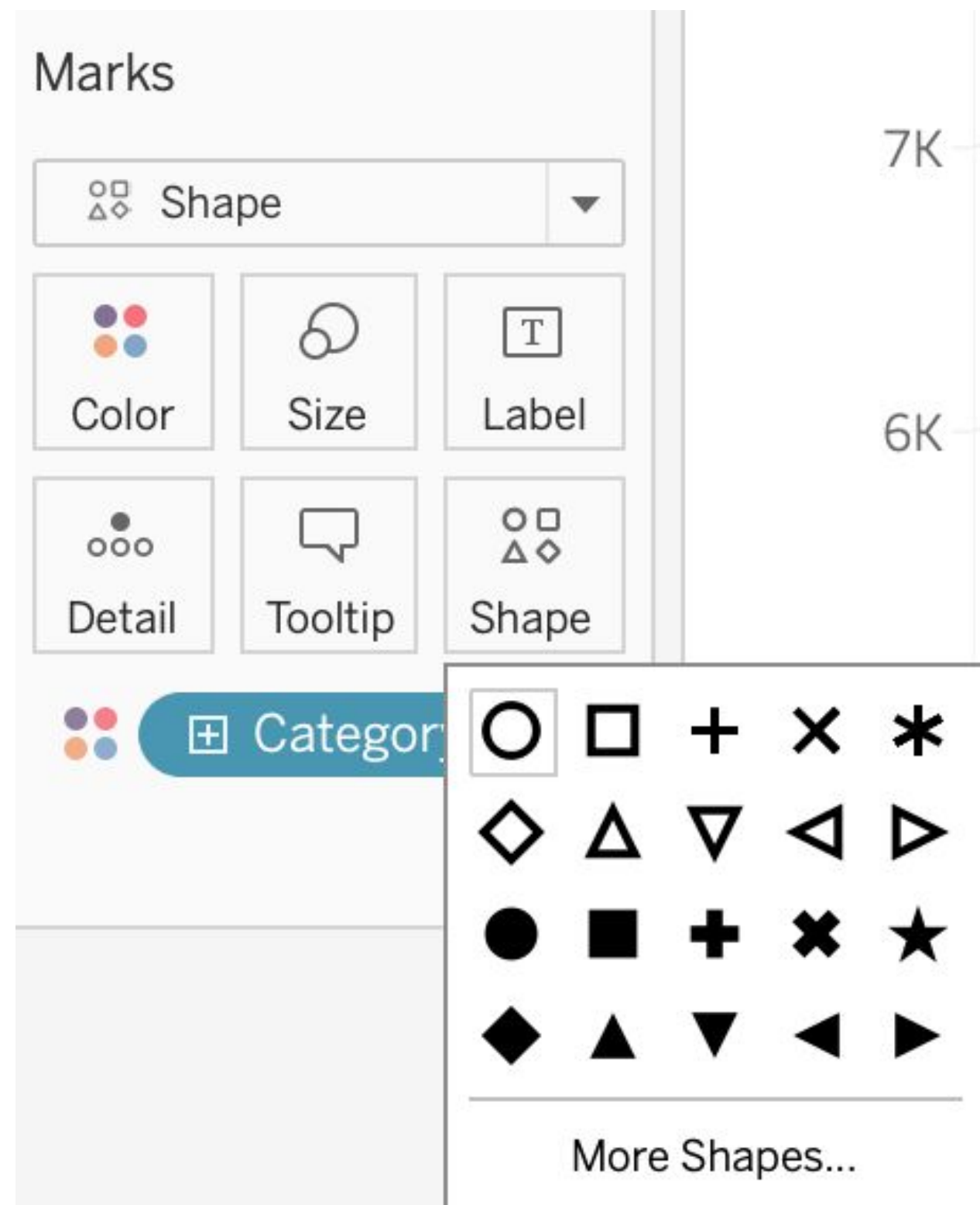
Office Supplies

Technology

Select Color Palette:

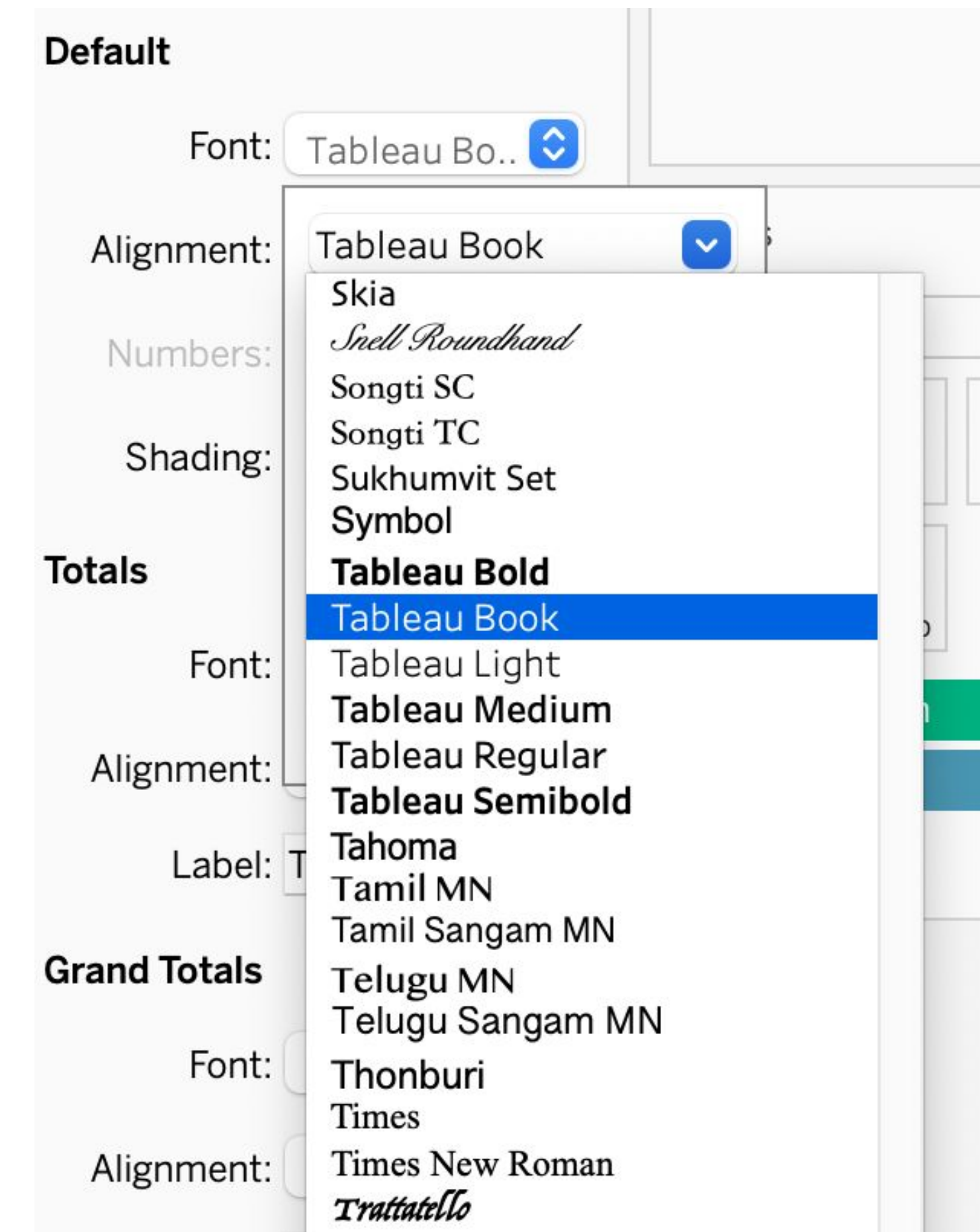
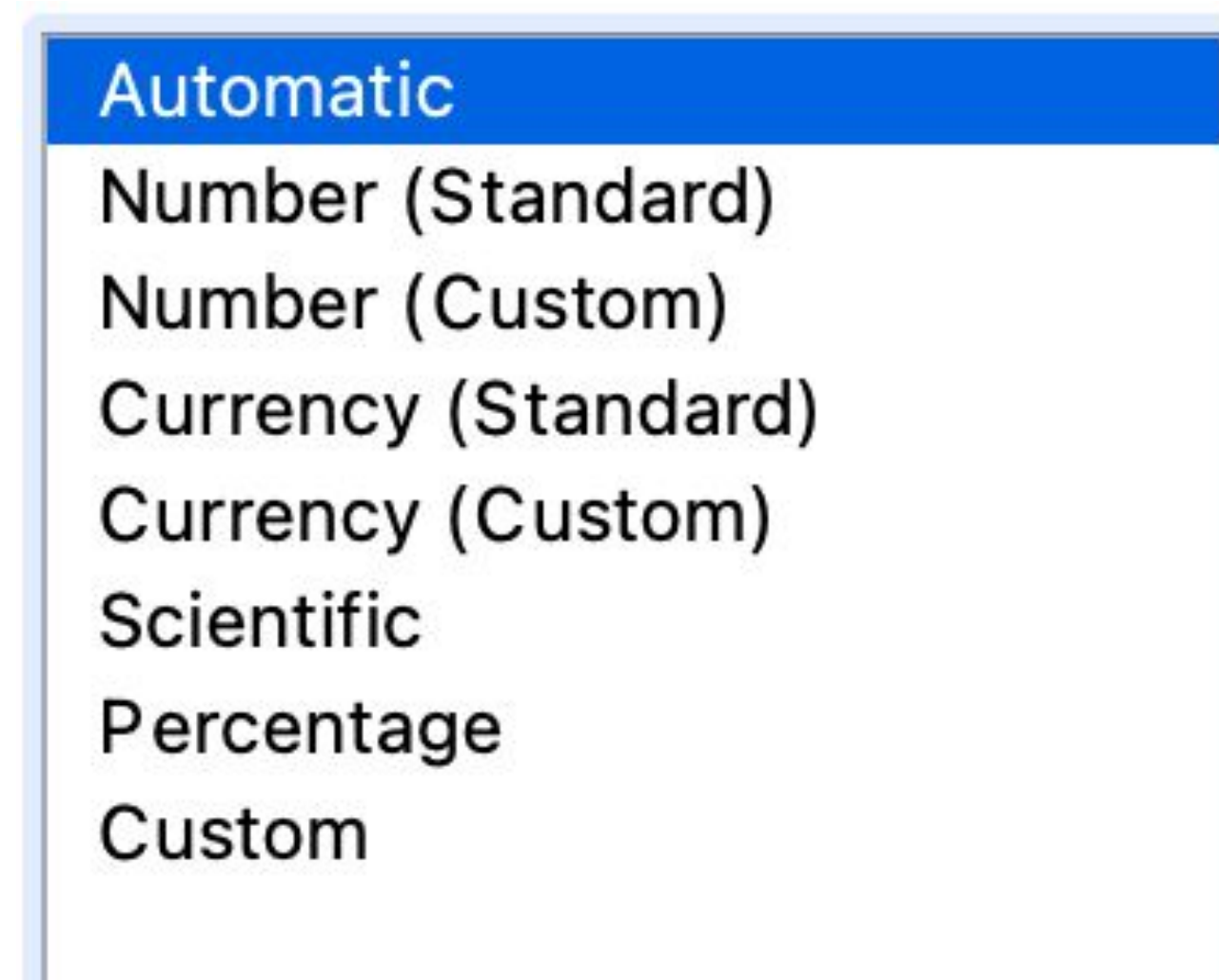
Automatic

Shapes and Colors



Category	Region			
	Central	East	South	West
Furniture	1,827	2,214	1,291	2,696
Office Supplies	5,409	6,462	3,800	7,235
Technology	1,544	1,942	1,118	2,335

Formatting



Animations

Style

Simultaneous (Default) ▼

- Simultaneous (Default)
- Sequential
- Simultaneous

Animation

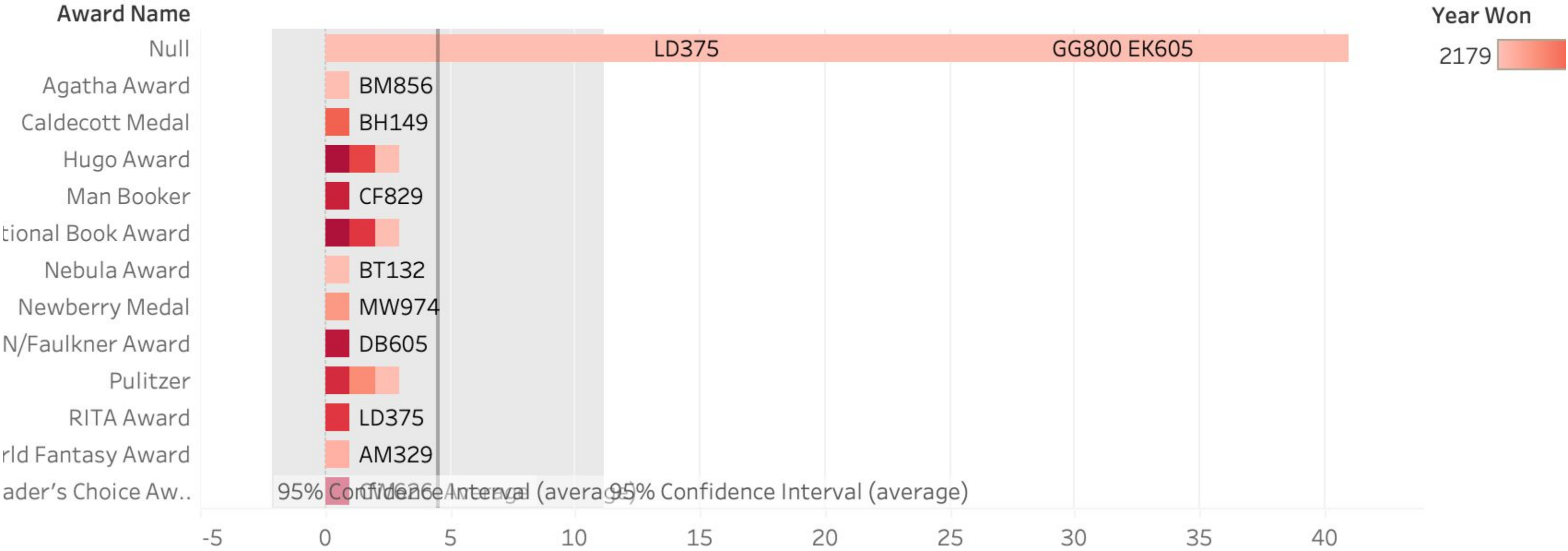
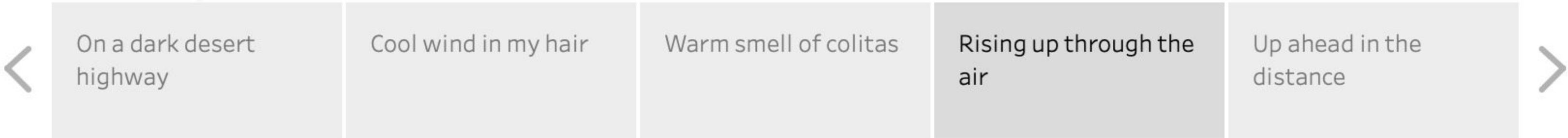
On (Default) ▼

Duration

0.30 seconds (Default) ▼

- 0.30 seconds (Default)
- 0.30 seconds (Fast)
- 0.50 seconds (Medium)
- 1.00 seconds (Slow)
- 2.00 seconds (Very Slow)
- Custom

Stories



Dashboards

Dashboard URL action

Edit URL Action

×

Name

Lookup a state

Insert

Source Sheets

Dashboard 1

Sheet 8

Run action on

Hover

Select

Menu

URL Target

New Tab if No Web Page Object Exists

New Browser Tab

Web Page Object

wikipedia.com

URL

wikipedia.com/wiki/<State>

Insert

wikipedia.com/wiki/Alabama

> Data Values

Cancel

OK

Sheet 8



© 2022 Mapbox © OpenStreetMap

Not logged in

Talk

Contributions

Create account

Log in

Article

Talk

Read

Edit

View history

Search Wikipedia

Georgia

From Wikipedia, the free encyclopedia

シム
入
不
維

Look up **Georgia** or **georgia** in Wiktionary, the free dictionary.

Georgia most commonly refers to:

- [Georgia \(country\)](#), a country in the Caucasus region of Eurasia
- [Georgia \(U.S. state\)](#), a state in the Southeastern United States

Georgia may also refer to:

Contents [hide]

Main page

Contents

Current events

Random article

About Wikipedia

Contact us

Donate

Contribute

Help

Learn to edit

 FULLSTACK

Knowledge Check

1. What kinds of charts use shapes?
2. What's a URL action in a dashboard?
3. What's the purpose of a story?
4. How do you change the font of headers in a crosstab?
5. What is preserved when you save a workbook as pdf?
6. What animation parameters can be changed?
7. How can you change the colors in a stacked bar chart?

Domain 4: Understanding Tableau Concepts

4.1 Understand dimensions and measures

4.1.1 Explain what kind of information dimensions usually contain

4.1.2 Explain what kind of information measures usually contain

4.1.3 Explain the difference between dimensions and measures

4.2 Understand discrete and continuous fields

4.2.1 Explain how discrete fields are displayed

4.2.2 Explain how continuous fields are displayed

4.2.3 Explain the difference between discrete date parts and continuous date values

4.3 Understand aggregations

4.3.1 Explain the default aggregation for measures

4.3.2 Describe how an aggregated measure changes when dimensions are added to a view

Dimensions vs. Measures

Dimensions

Qualitative

Blue

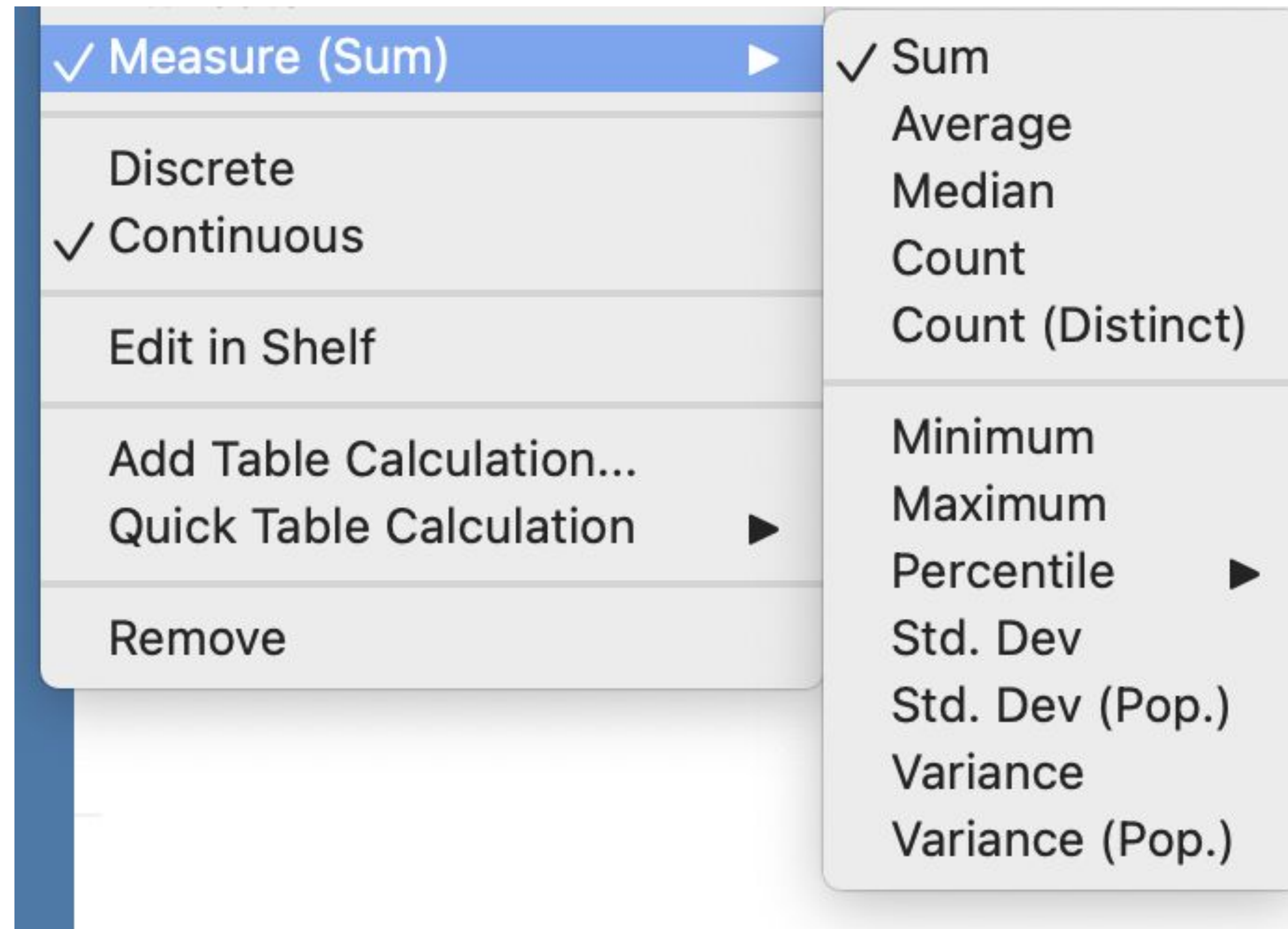
Measures

Quantitative

Green

	Dimension	Measure
Discrete	strings date parts boolean	bins IDs
Continuous	dates	measured values

Aggregations



Date Part

Day

Month

Quarter

Year

Year of Ord..	Order Date											
	Q1			Q2			Q3			Q4		
	January	February	March	April	May	June	July	August	Septem..	October	Novem..	Decemb..
2014	14,237	4,520	55,691	28,295	23,648	34,595	33,946	27,909	81,777	31,453	78,629	69,546
2015	18,174	11,951	38,726	34,195	30,132	24,797	28,765	36,898	64,596	31,405	75,973	74,920
2016	18,542	22,979	51,716	38,750	56,988	40,345	39,262	31,115	73,410	59,688	79,412	96,999
2017	43,971	20,301	58,872	36,522	44,261	52,982	45,264	63,121	87,867	77,777	118,448	83,829

Knowledge Check

1. Can dimensions be continuous?
2. What is a date part?
3. Can you use percentile for an aggregation?
4. What is the default aggregation type for a measure?

Practice!