

LEARN

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# TABLEAU

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Magic



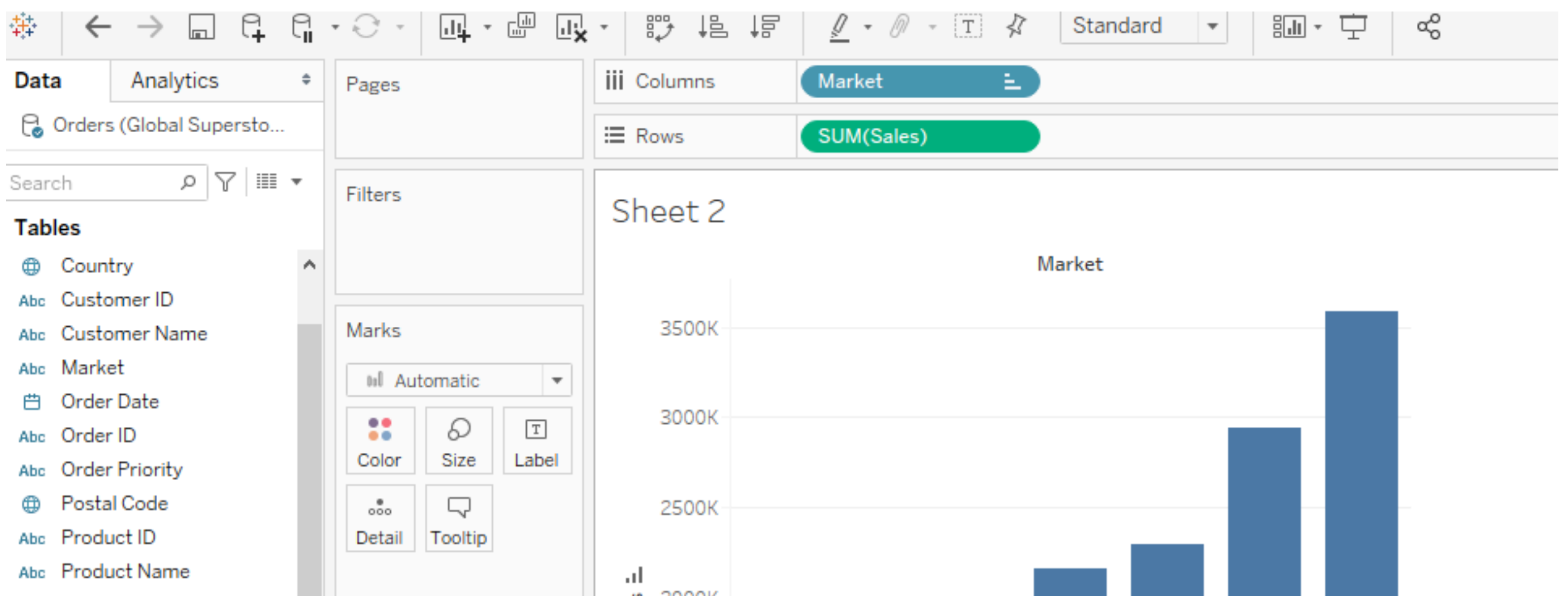
---

IN JUST 30 DAYS

# DAY 1

 Aim for the Day

## Introduction to Tableau



 Resources for Learning

- Tableau's Getting Started Guide: [Tableau Basics](#)
- YouTube Tutorial: [Tableau Tutorial for Beginners](#)





## Project for the Day

- Create a simple bar chart to visualize data from the sample dataset.



## Practice Questions

- Download and install Tableau Public or Tableau Desktop (if available).
- Create your first Tableau workbook and connect to a sample dataset.



## Datasets

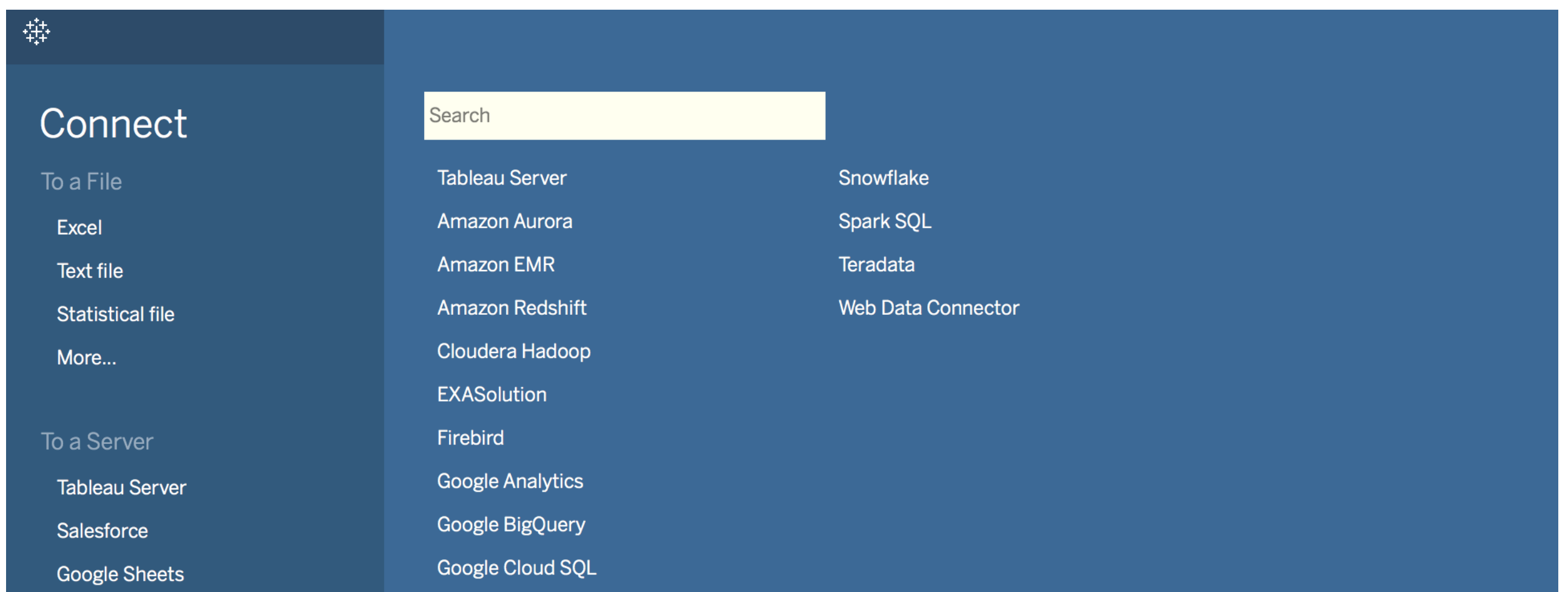
- Sample Superstore Sales dataset: This dataset contains sales data and is commonly used for Tableau practice.



# DAY 2

 Aim for the Day

## Understanding Data Connections



 Resources for Learning

- Tableau Online Help: Connect to and Prepare Data
- YouTube Tutorial: Connecting to Data in Tableau



## Project for the Day

- Connect to an Excel dataset containing sales data.
- Perform basic data cleaning tasks like filtering and renaming columns.

## Practice Questions

- Connect to different data sources such as Excel, CSV, or a database.
- Practice data source editing and data cleaning.

## Datasets

- Iris Dataset: A classic dataset in machine learning, it contains measurements of iris flowers.



# DAY 3

 Aim for the Day

## Basic Data Visualization



### Resources for Learning

- Tableau Training and Tutorial: [Tableau Basic Training](#)
- YouTube Tutorial: [Basic Data Visualization in Tableau](#)





## Project for the Day

- Use your sales dataset from Day 2.
- Create a bar chart to visualize product-wise sales.
- Customize the chart with labels and colors for better presentation.



## Practice Questions

- Create a bar chart, line chart, and scatter plot.
- Customize visuals by adding labels, colors, and tooltips.



## Datasets

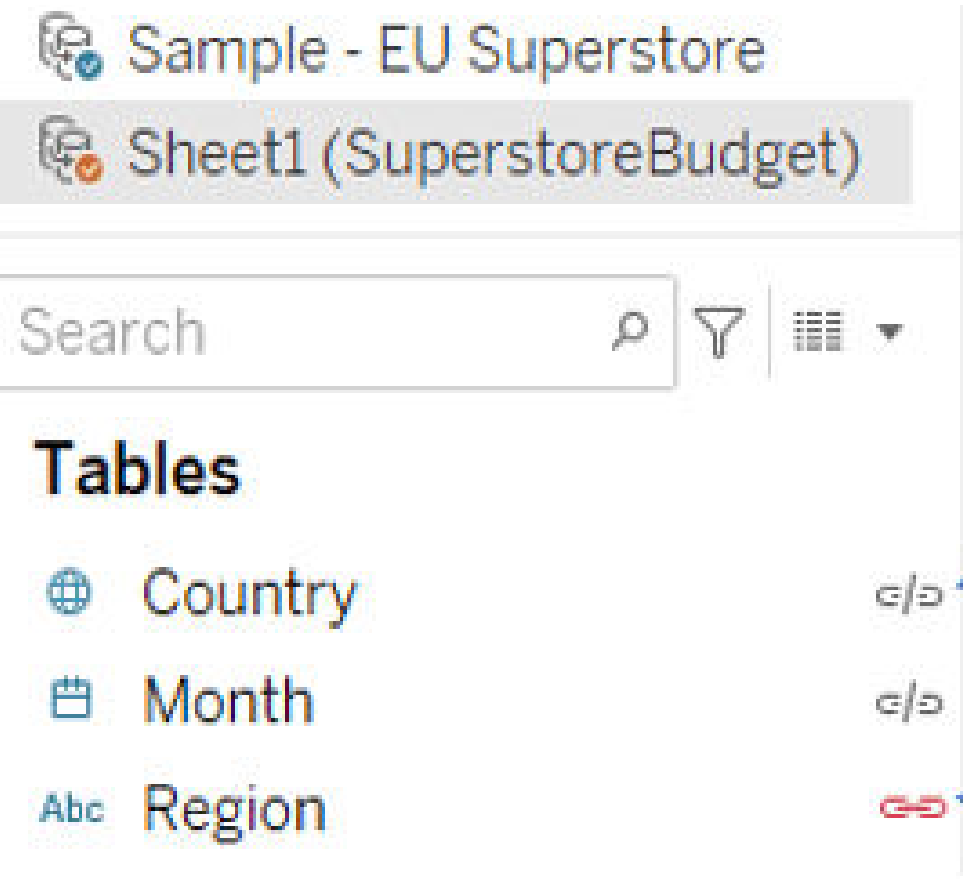
- Global Superstore: Another retail dataset, useful for creating basic visualizations.



# DAY 4

 Aim for the Day

## Data Blending



The screenshot shows the Tableau interface with two data sources: 'Sample - EU Superstore' and 'Sheet1 (SuperstoreBudget)'. A search bar is visible above a list of tables: 'Country', 'Month', and 'Region'. To the right of the table list, a vertical line represents the data blending process. Three chain-link icons are shown: the top two are grey and labeled 'Inactive connection (broken chain link)', and the bottom one is orange and labeled 'Active connection (orange chain link)'.

 Resources for Learning

- Tableau Online Help: [Combine Your Data](#)
- YouTube Tutorial: [Data Blending in Tableau](#)







## Project for the Day

- Connect to two separate datasets (e.g., sales and customer data).
- Blend the data to create a unified view and build visualizations.



## Practice Questions

- Connect to multiple data sources and blend data.
- Understand relationships and data blending options.



## Datasets

- Sales and Customer Data: A sample dataset containing sales and customer information, great for data blending practice.

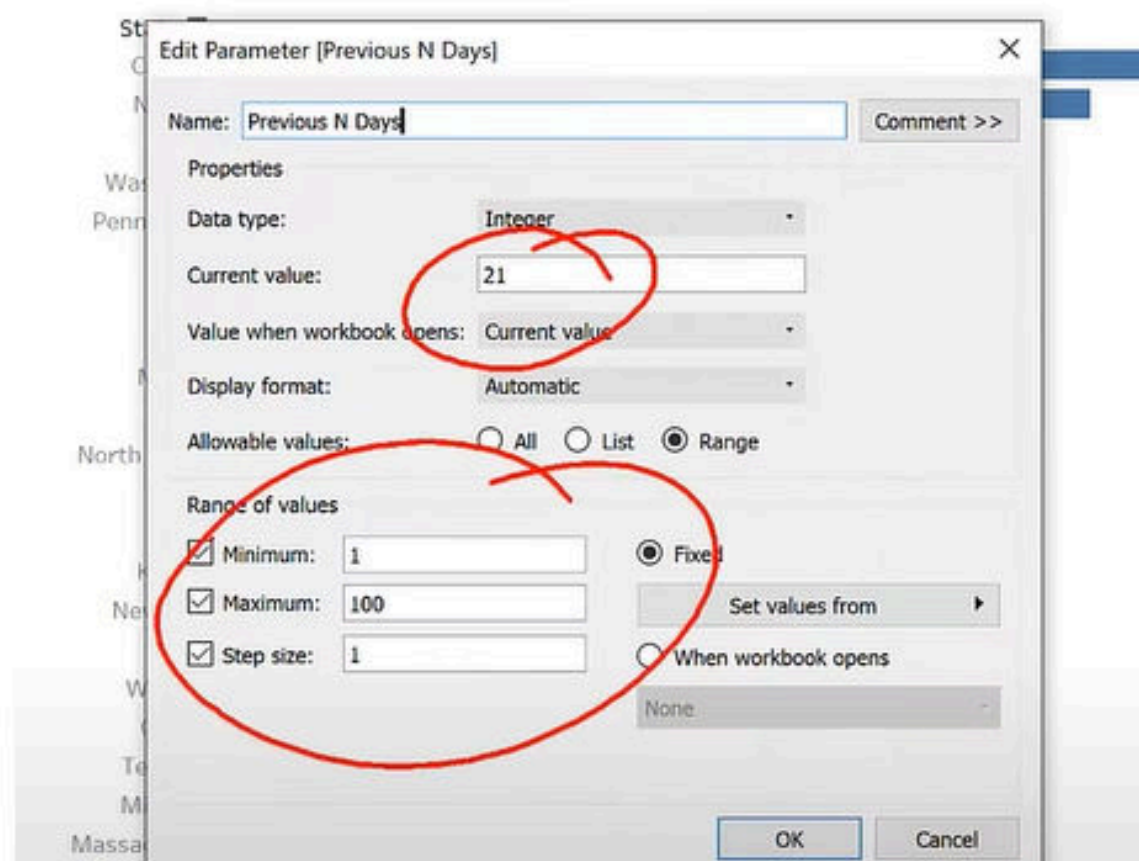


# DAY 5

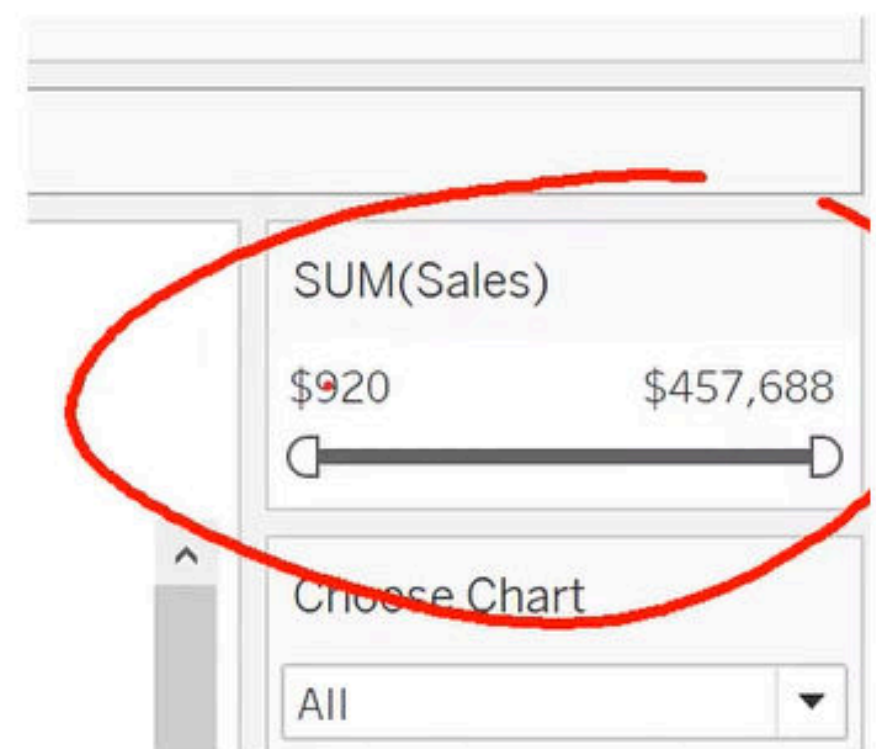
 Aim for the Day

## Filters and Parameters

Parameters



Filters



### Resources for Learning

- Tableau Online Help: [Filter Data from Your Data Source](#)
- YouTube Tutorial: [Filters and Parameters in Tableau](#)

## Project for the Day

- Apply filters to your visualizations to enable data exploration.
- Create a parameter to allow users to switch between different data views.

## Practice Questions

- Create filters to interactively explore data.
- Use parameters for dynamic data selection.

## Datasets

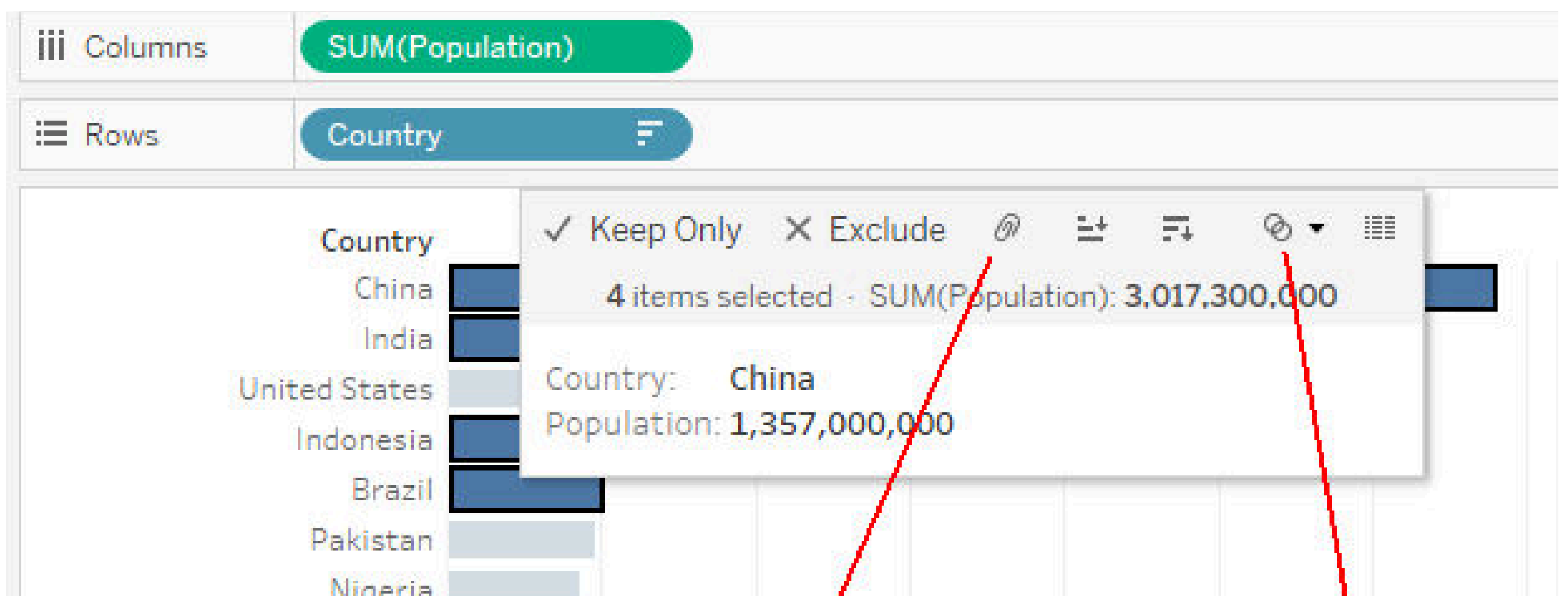
- Sample Coffee Chain: A dataset related to a coffee chain business, suitable for practicing filters and parameters.



# DAY 6

 Aim for the Day

## Groups and Sets



### Resources for Learning

- Tableau Online Help: [Combine Members into a Group](#)
- Tableau Online Help: [Create Sets](#)
- YouTube Tutorial: [Groups and Sets in Tableau](#)



## Project for the Day

- Use your sales dataset.
- Create a group to classify products into different categories.
- Build a set to identify high-value customers based on sales.

## Practice Questions

- Create groups to categorize data points.
- Build sets to define custom subsets of data.

## Datasets

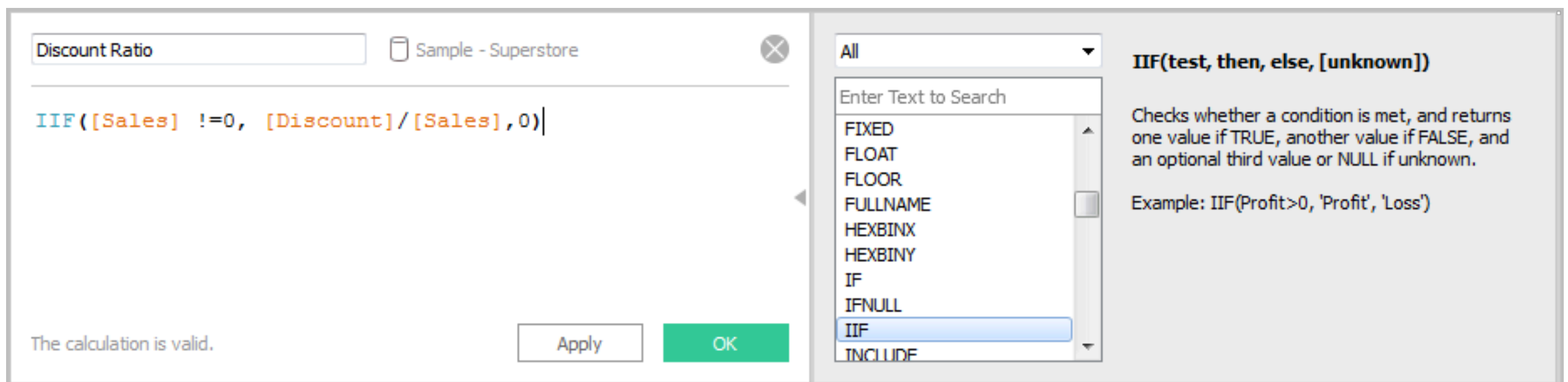
- Sample EU Superstore: A dataset featuring sales data across European countries.



# DAY 7

 Aim for the Day

## Calculated Fields (Calculated Columns and Measures)



The screenshot shows the Tableau calculated field editor. The field name is "Discount Ratio" and the calculation is `IIF([Sales] !=0, [Discount]/[Sales],0)`. The editor is titled "Sample - Superstore". A dropdown menu is open, showing a list of functions including FIXED, FLOAT, FLOOR, FULLNAME, HEXBINX, HEXBINY, IF, IFNULL, IIF, and INCLUDE. The IIF function is selected. To the right of the dropdown, there is a description of the IIF function: **IIF(test, then, else, [unknown])**. It checks whether a condition is met, and returns one value if TRUE, another value if FALSE, and an optional third value or NULL if unknown. An example is provided: `IIF(Profit>0, 'Profit', 'Loss')`. At the bottom left, it says "The calculation is valid." and there are "Apply" and "OK" buttons.

 Resources for Learning

- Tableau Online Help: [Create Calculated Fields](#)
- YouTube Tutorial: [Calculated Fields in Tableau](#)



## Project for the Day

- Use your sales dataset.
- Create a calculated field to calculate the profit margin for each sale.
- Build a measure to calculate the total profit for the entire dataset.

## Practice Questions

- Write calculated fields to derive new data.
- Differentiate between calculated columns and measures.

## Datasets

- Sample World Indicators: A dataset with various world indicators, useful for calculated field practice.



# DAY 8

 Aim for the Day

## Advanced Chart Types



 Resources for Learning

- Tableau Online Help: [Create Advanced Charts](#)
- Tableau Training: [Advanced Chart Types](#)







## Project for the Day

- Create a treemap visualization to represent hierarchical data.
- Build a dual-axis chart that combines a line chart with a bar chart to compare two measures.



## Practice Questions

- Explore advanced chart types like treemaps, box plots, and heatmaps.
- Learn to use dual-axis charts for comparison.



## Datasets

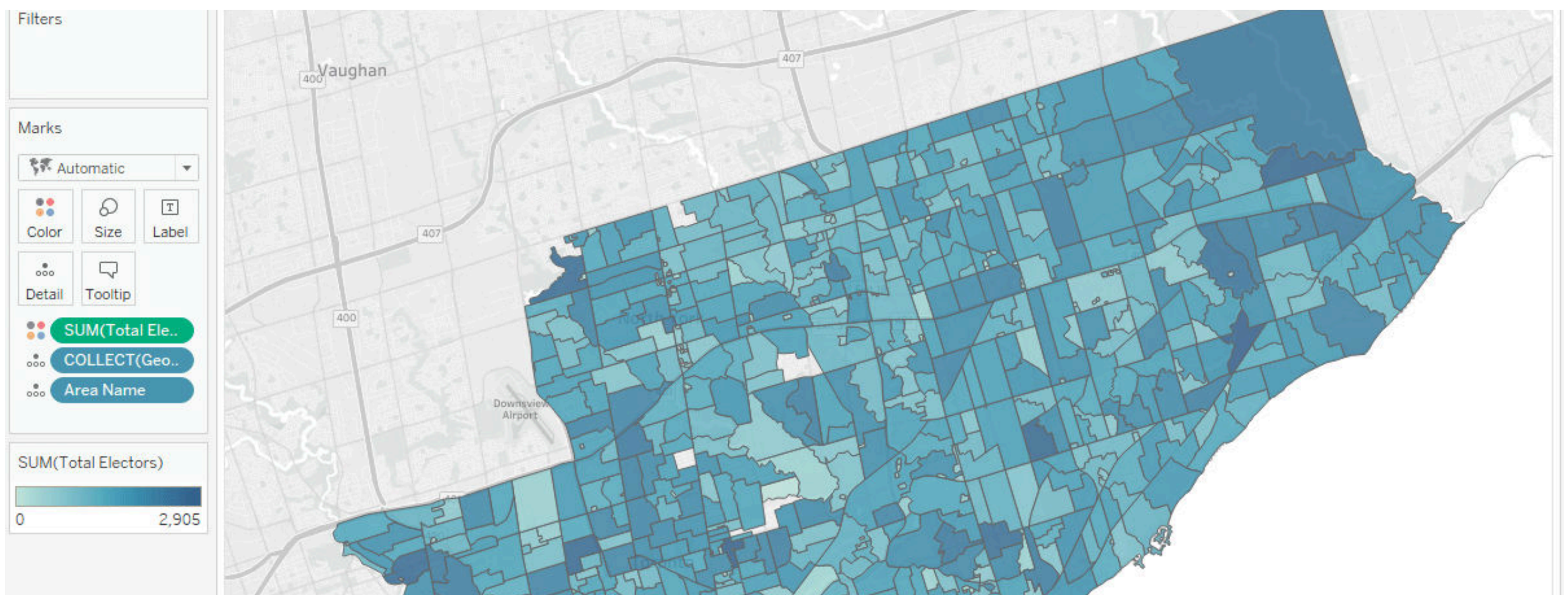
- Global Terrorism Database: A dataset containing information on global terrorist incidents, great for advanced chart types.



# DAY 9

 Aim for the Day

## Maps and Geospatial Analysis



 Resources for Learning

- Tableau Online Help: [Mapping Concepts](#)
- YouTube Tutorial: [Maps and Geospatial Analysis in Tableau](#)





## Project for the Day

- Connect to a dataset with geographical information (e.g., sales by location).
- Create a map visualization to show sales by region.
- Use geospatial analysis to identify regions with the highest sales.



## Practice Questions

- Create maps using geographical data.
- Perform geospatial analysis with Tableau.



## Datasets

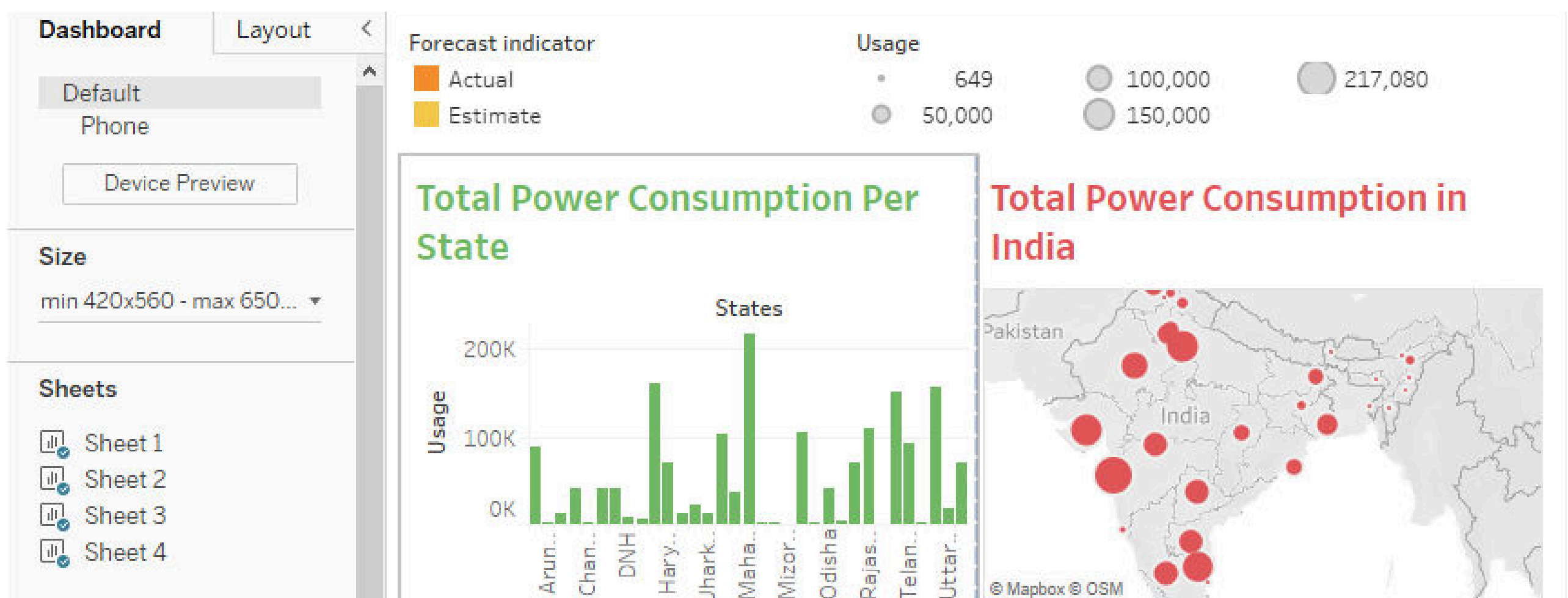
- World Bank Data: Datasets from the World Bank on various economic and demographic indicators, useful for geospatial analysis.



# DAY 10

 Aim for the Day

## Dashboard Creation



### Resources for Learning

- Tableau Online Help: [Create Dashboards](#)
- Tableau Training: [Creating Dashboards](#)





## Project for the Day

- Combine your visualizations into a dashboard.
- Create a dashboard that provides an overview of your data, with interactivity through actions and filters.



## Practice Questions

- Design interactive dashboards with multiple sheets.
- Add actions and filters to enhance dashboard interactivity.



## Datasets

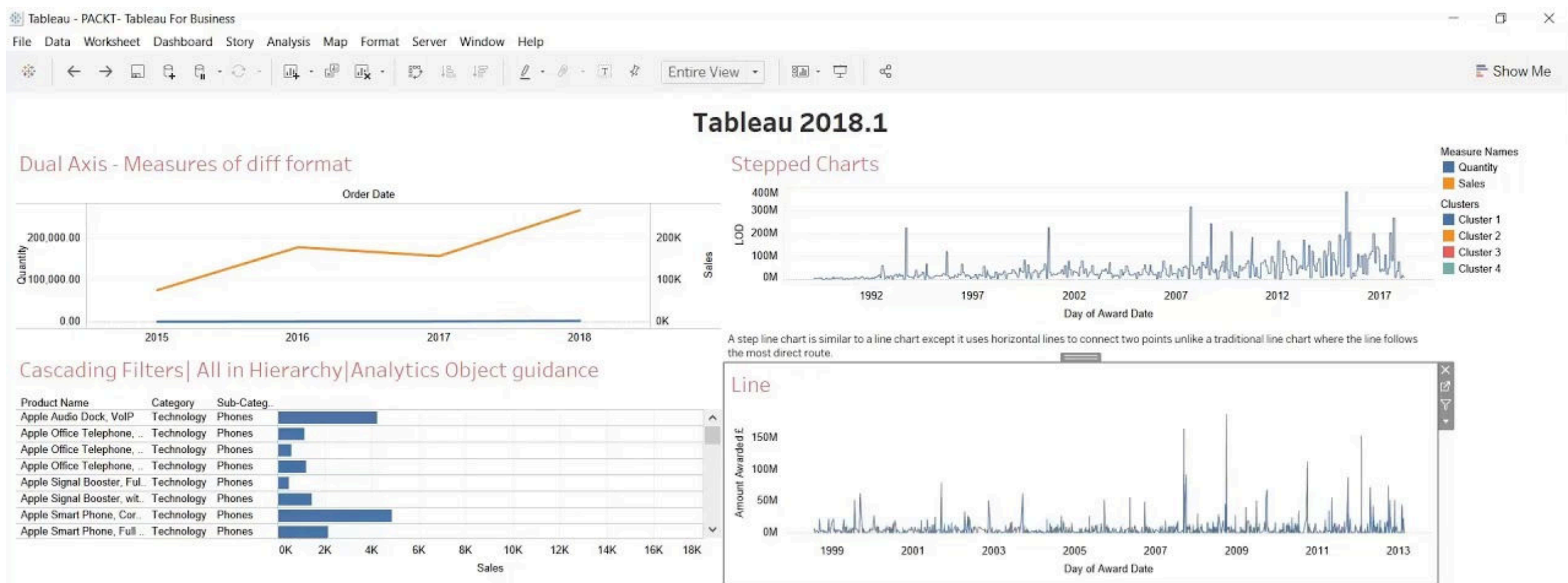
- World Bank Data: Datasets from the World Bank on various economic and demographic indicators, useful for geospatial analysis.



# DAY 11

 Aim for the Day

## Interactive Dashboards



 Resources for Learning

- [Tableau Online Help: Add Interactive Features to Dashboards](#)
- [YouTube Tutorial: Creating Interactive Dashboards in Tableau](#)



## Project for the Day

- Enhance the dashboard created on Day 10 with interactive features.
- Add actions that allow users to cross-filter and navigate between different visualizations.

## Practice Questions

- Implement actions, filters, and URL actions to enhance dashboard interactivity.

## Datasets

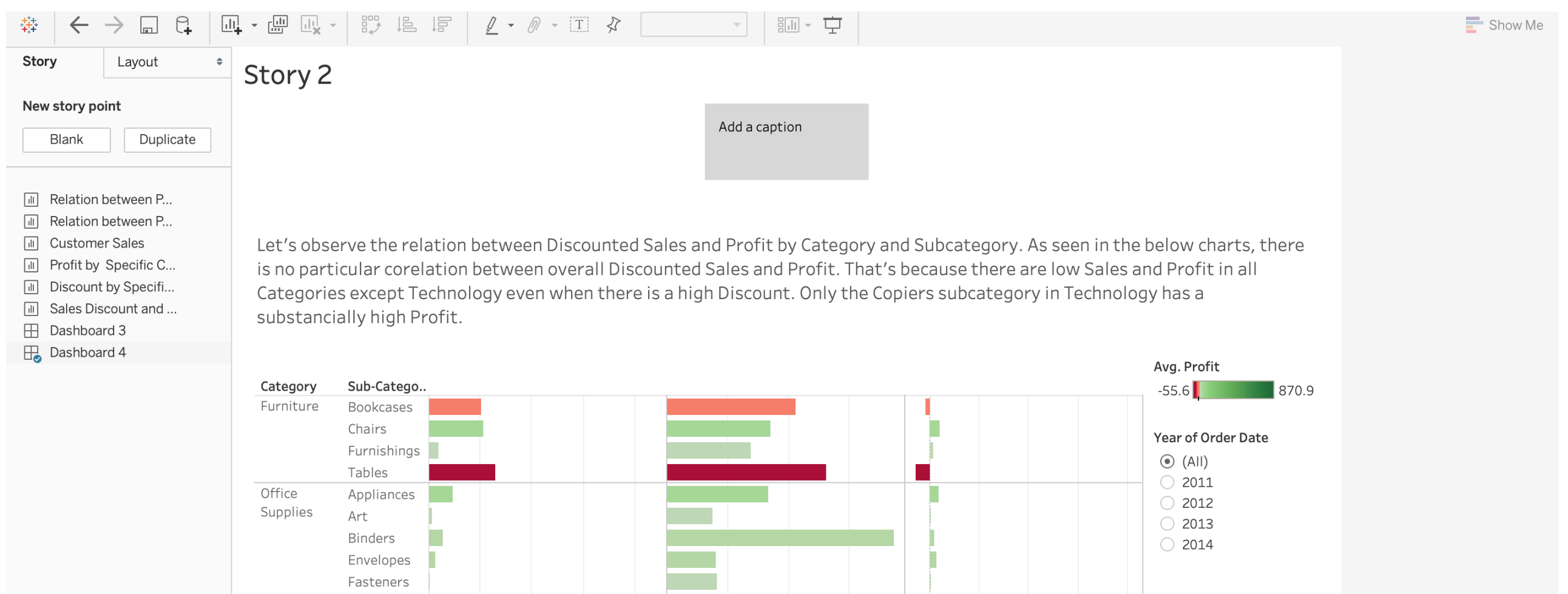
- Sample Superstore Sales: Practice making your dashboard interactive with this dataset.



# DAY 12

 Aim for the Day

## Data Storytelling



### Resources for Learning

- Tableau Blog: [Data Storytelling with Tableau](#)
- Tableau Training: [Storytelling with Data](#)





## Project for the Day

- Select a dataset and create a data story using Tableau.
- Structure the story with a clear beginning, middle, and end, using visualizations to support the narrative.

## Practice Questions

- Learn the art of data storytelling using visualizations.
- Create a data story with a clear narrative.

## Datasets

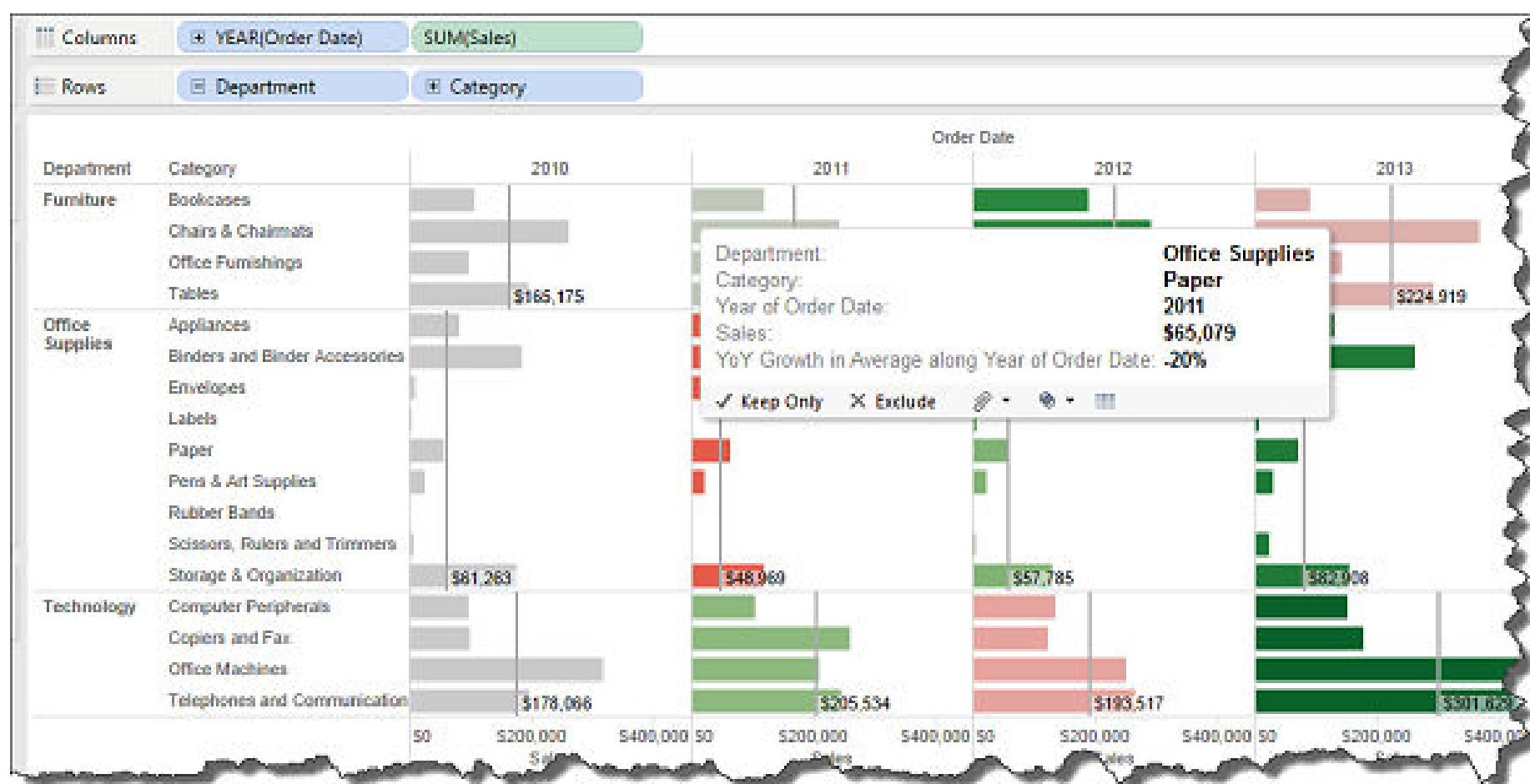
- Netflix Movies and TV Shows: A dataset containing information about movies and TV shows available on Netflix, ideal for storytelling practice.



# DAY 13

 Aim for the Day

## Advanced Calculations (Level of Detail Expressions)



 Resources for Learning

- Tableau Online Help: [Level of Detail Expressions](#)
- YouTube Tutorial: [Level of Detail Expressions in Tableau](#)





## Project for the Day

- Use your dataset to create a calculated field using LOD expressions to solve a specific analytical challenge.



## Practice Questions

- Understand and use Level of Detail (LOD) expressions for advanced calculations.



## Datasets

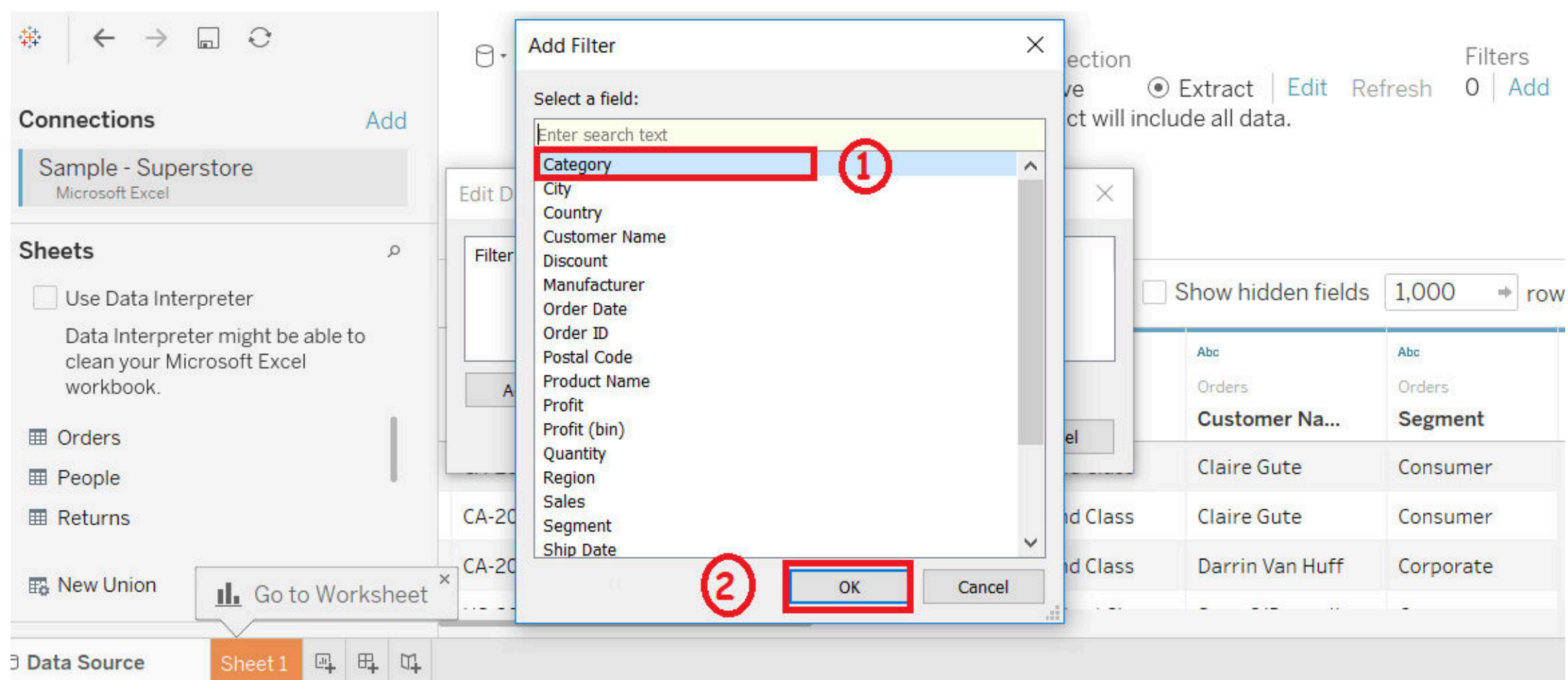
- Football (Soccer) Player Data: A dataset with information about FIFA 19 players, suitable for LOD expression practice.



# DAY 14

 Aim for the Day

## Data Source Filters and Context Filters



### Resources for Learning

- Tableau Online Help: [Use Data Source Filters](#)
- Tableau Online Help: [Use Context Filters](#)





## Project for the Day

- Create a dashboard with multiple filters, including data source filters and context filters, to control the data displayed in your visualizations.



## Practice Questions

- Apply data source filters and context filters to limit data in your visualizations.



## Datasets

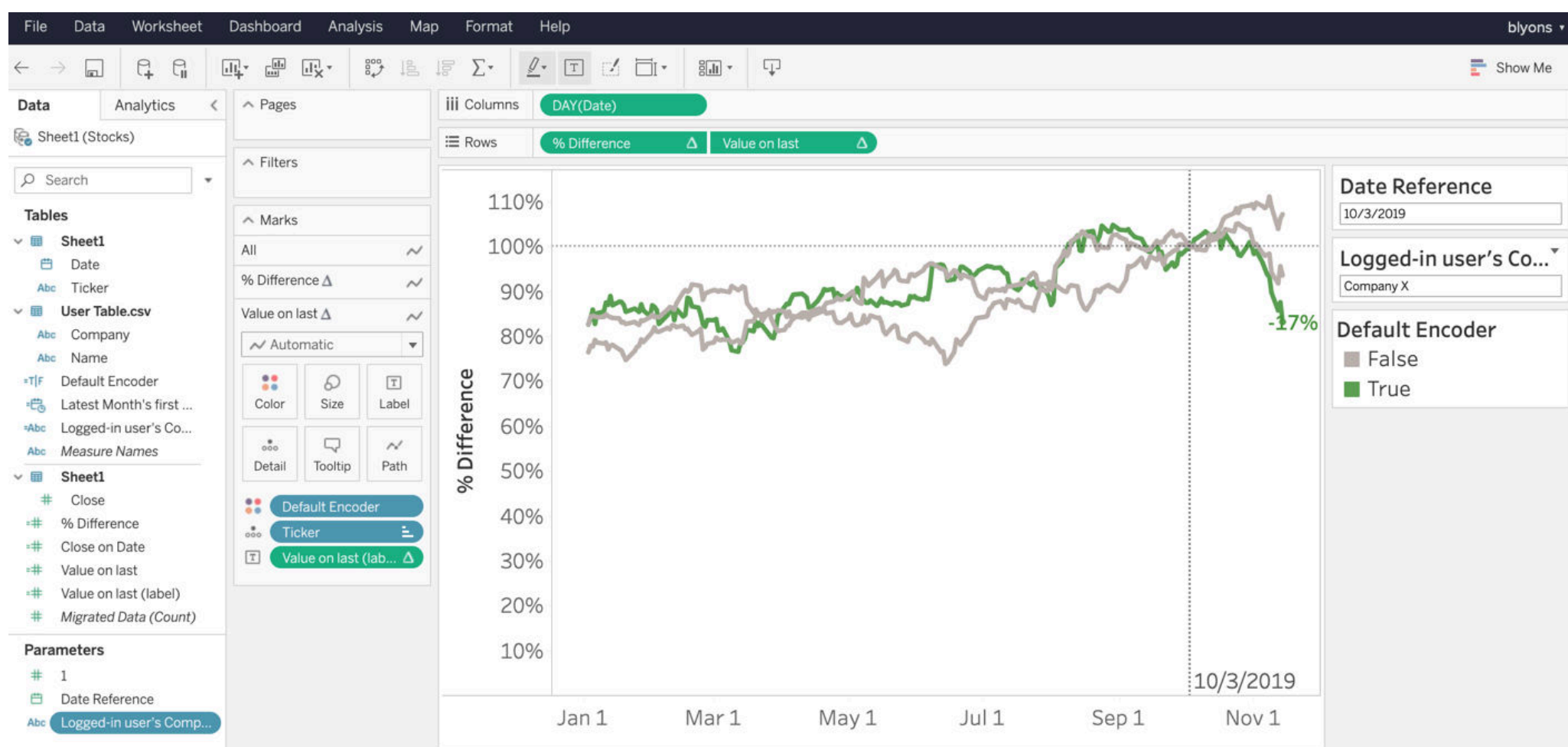
- Sample EU Superstore: Use this dataset to practice data source filters and context filters.



# DAY 15

 Aim for the Day

## Parameters for Dynamic Dashboards



 Resources for Learning

- Tableau Online Help: [Create Parameters](#)
- YouTube Tutorial: [Using Parameters in Tableau](#)



## Project for the Day

- Enhance your dashboard with parameters that enable users to change key variables or criteria in real time.

## Practice Questions

- Create parameters to allow users to dynamically change data inputs.

## Datasets

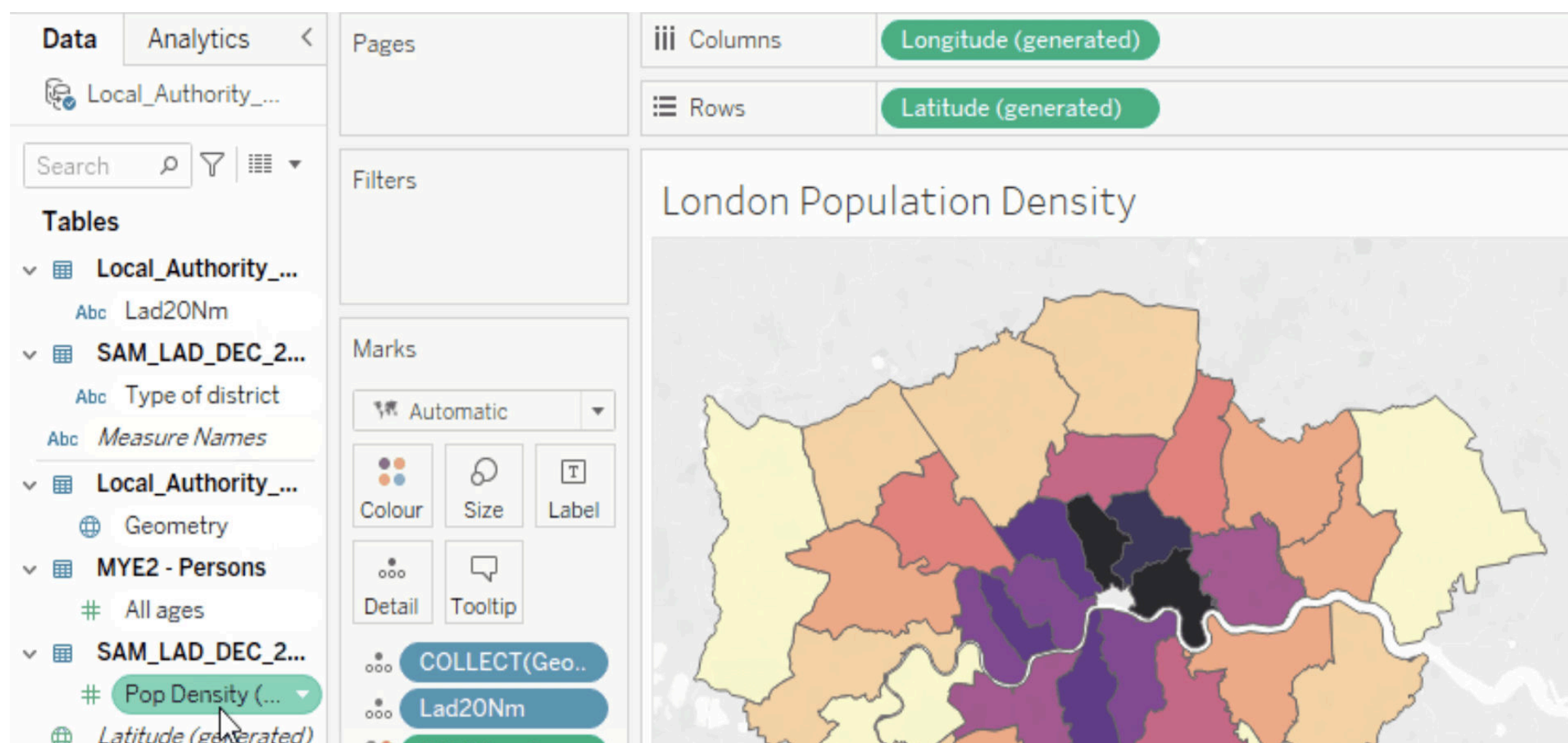
- Sample Superstore Sales: Create parameters to make your dashboard dynamic.



# DAY 16

 Aim for the Day

## Advanced Mapping Techniques



 Resources for Learning

- Tableau Blog: [Advanced Mapping Techniques](#)
- Tableau Training: [Advanced Mapping](#)







## Project for the Day

- Create a map with custom geocoding to visualize data in locations not covered by standard geocoding.
- Experiment with background images to create custom map visuals.



## Practice Questions

- Explore advanced mapping features in Tableau, such as custom geocoding and background images.



## Datasets

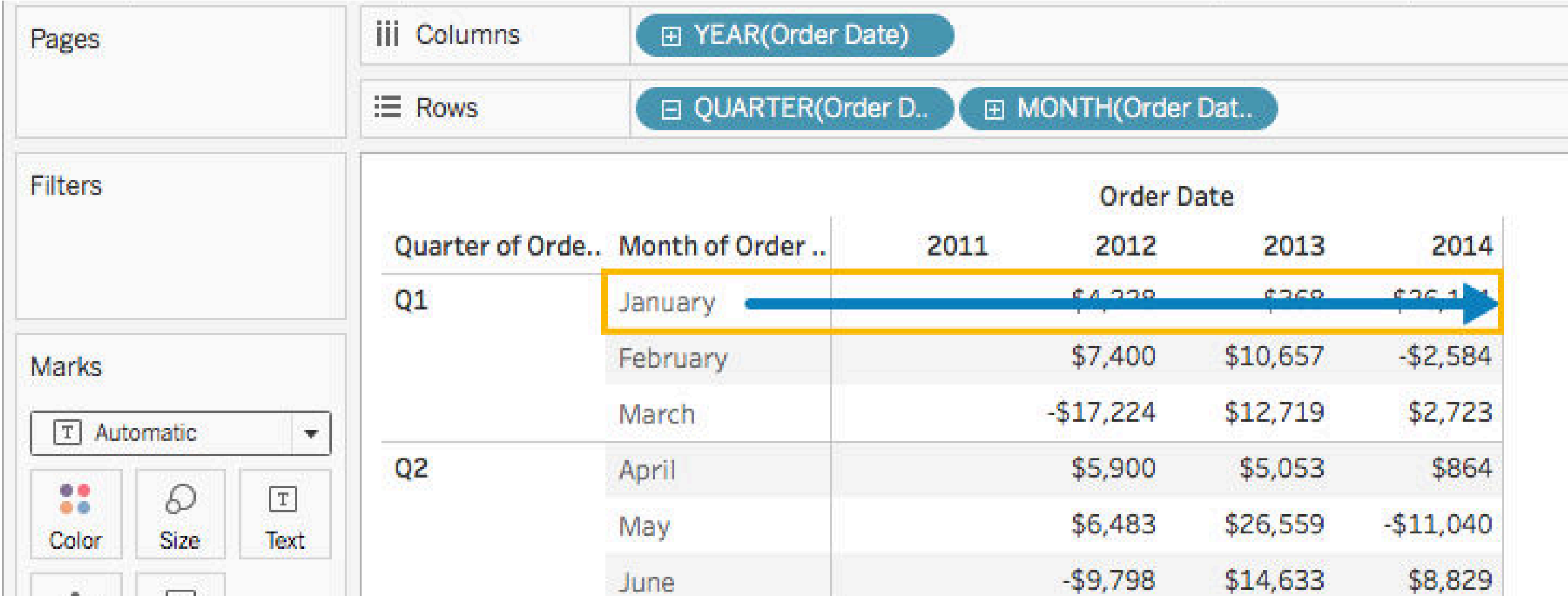
- US Census Data: Datasets from the US Census Bureau for advanced mapping practice.



# DAY 17

 Aim for the Day

## Calculations with Table Calculations



		Order Date			
Quarter of Order	Month of Order	2011	2012	2013	2014
Q1	January		\$4,238	\$268	\$26,111
	February		\$7,400	\$10,657	-\$2,584
	March		-\$17,224	\$12,719	\$2,723
Q2	April		\$5,900	\$5,053	\$864
	May		\$6,483	\$26,559	-\$11,040
	June		-\$9,798	\$14,633	\$8,829

 Resources for Learning

- Tableau Online Help: [Table Calculations](#)
- YouTube Tutorial: [Table Calculations in Tableau](#)





## Project for the Day

- Apply table calculations to create dynamic visualizations in your dashboard.



## Practice Questions

- Understand and use table calculations for dynamic calculations within visualizations.



## Datasets

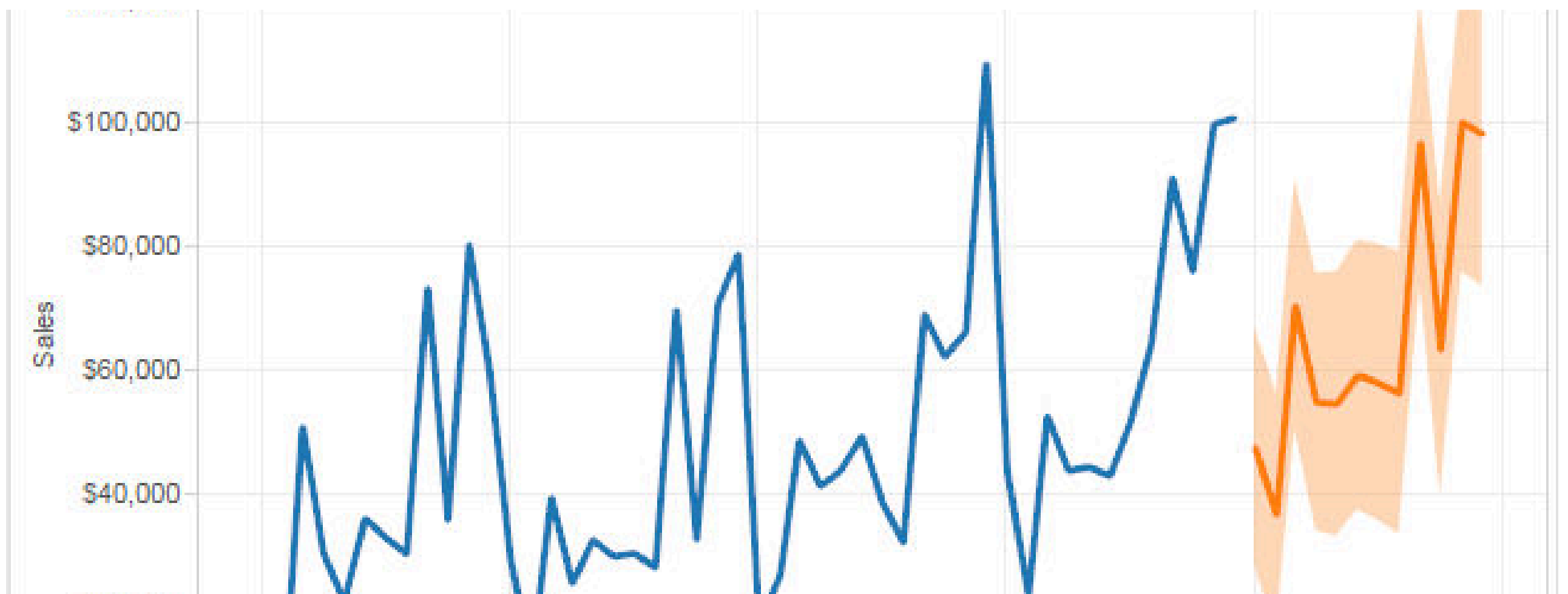
- COVID-19 Data: COVID-19 datasets for practicing table calculations.



# DAY 18

 Aim for the Day

## Forecasting and Trend Analysis



 Resources for Learning

- Tableau Blog: [Forecasting in Tableau](#)
- Tableau Training: [Forecasting and Trendlines](#)



## Project for the Day

- Apply forecasting techniques to your dataset to predict future trends or values.

## Practice Questions

- Use forecasting and trend analysis to make future predictions based on historical data.

## Datasets

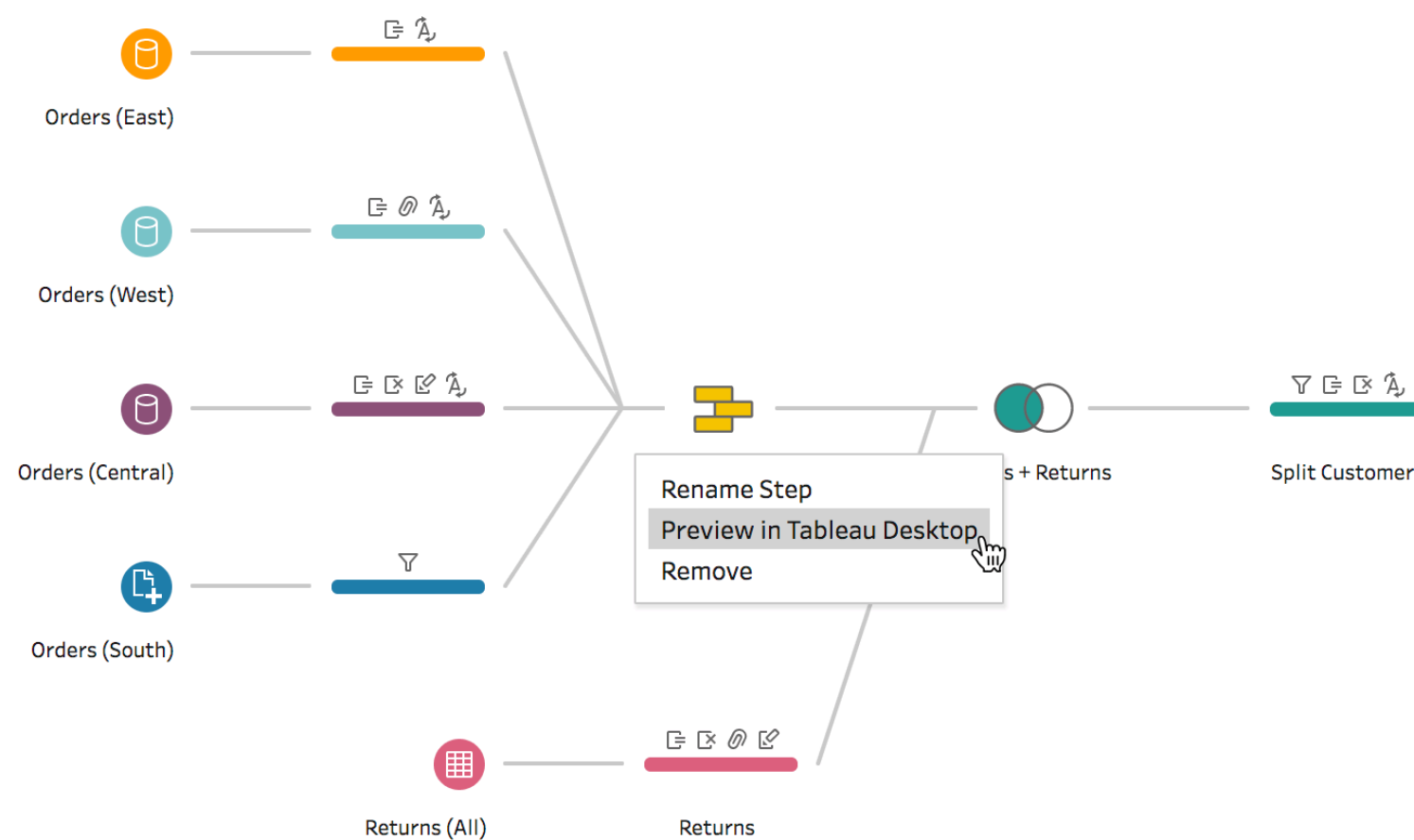
- Stock Market Data: Historical stock market data for practicing forecasting.



# DAY 19

 Aim for the Day

## Advanced Data Preparation (Data Prepping)



 Resources for Learning

- Tableau Online Help: [Prepare Your Data](#)
- YouTube Tutorial: [Advanced Data Prep in Tableau](#)





## Project for the Day

- Take a dataset with messy or unstructured data and use Tableau's data preparation tools to clean and reshape it for analysis.



## Practice Questions

- Learn advanced data preparation techniques within Tableau.



## Datasets

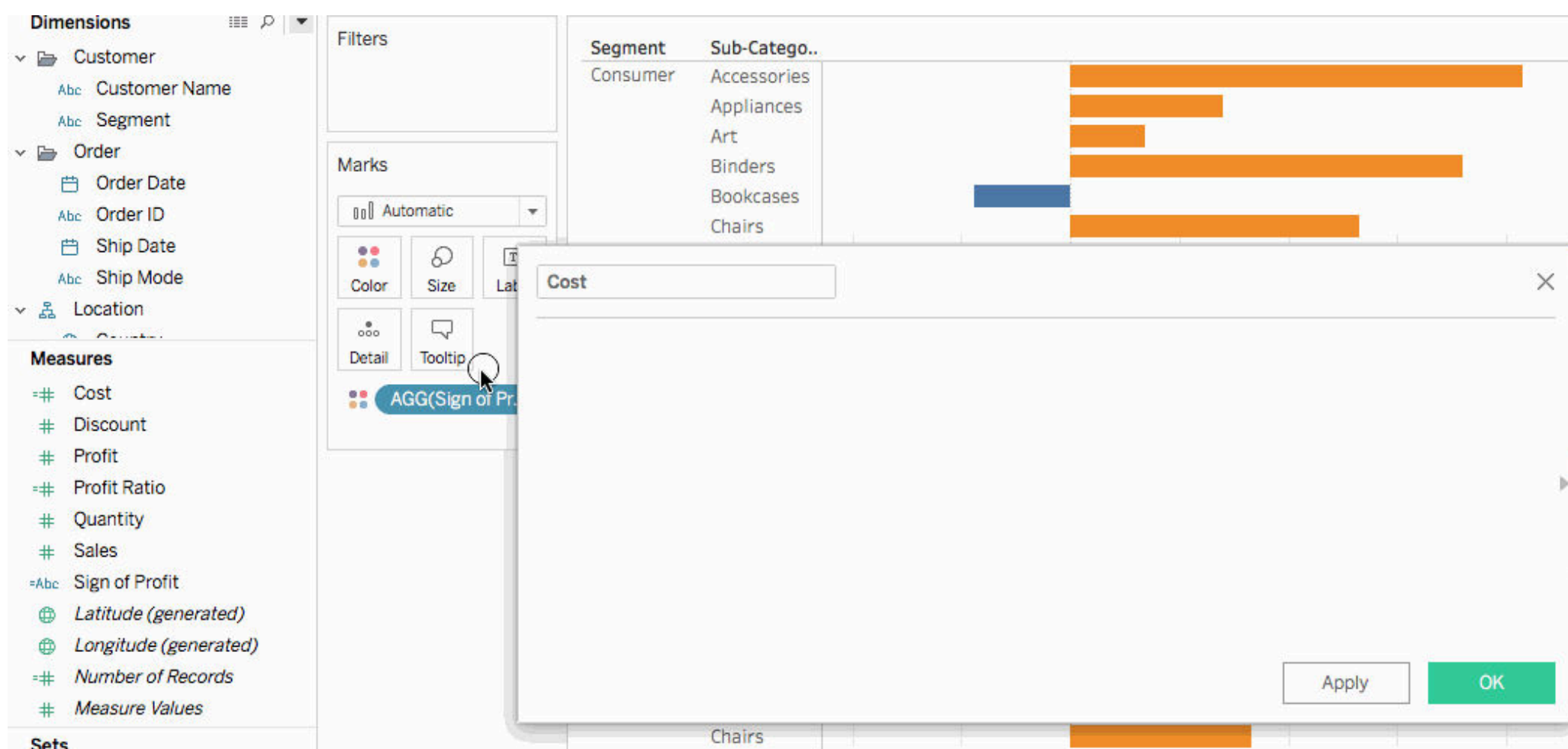
- Air Quality Data: A dataset containing air quality measurements for data cleaning and preparation practice.



# DAY 20

 Aim for the Day

## Creating and Using Tableau Calculated Fields (Custom Functions)



 Resources for Learning

- Tableau Online Help: [Create Calculated Fields](#)
- Tableau Community Blog: [Custom Functions in Tableau](#)







## Project for the Day

- Define a custom function and apply it to your dataset using calculated fields.



## Practice Questions

- Create custom functions using calculated fields in Tableau.



## Datasets

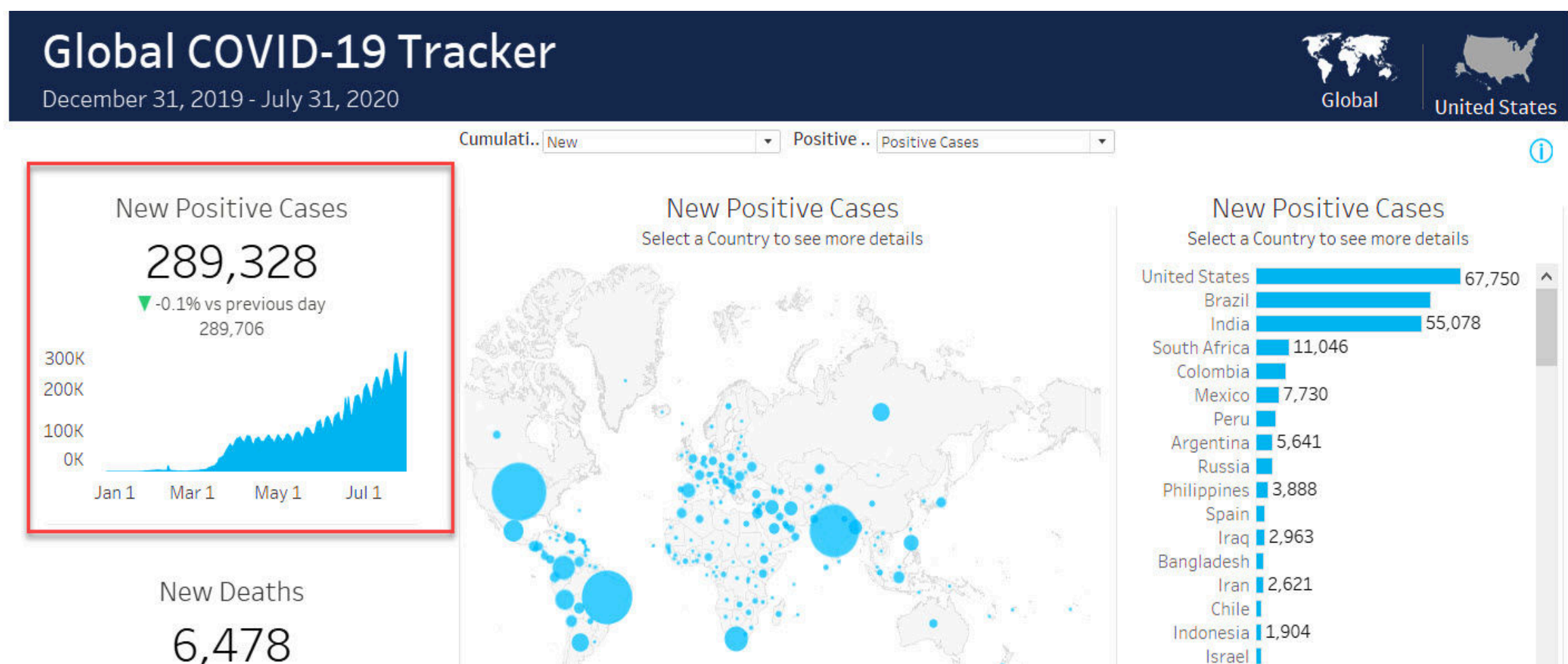
- Housing Price Data: A dataset for practicing custom calculations.



# DAY 21

 Aim for the Day

# Advanced Dashboard Design



 Resources for Learning

- Tableau Online Help: [Dashboard Design Tips](#)
- YouTube Tutorial: [Advanced Dashboard Design in Tableau](#)





## Project for the Day

- Redesign one of your previous dashboards with advanced design principles.
- Use layout containers and sizing options to create a polished and user-friendly dashboard.



## Practice Questions

- Learn advanced dashboard design techniques.
- Experiment with layout containers and sizing.



## Datasets

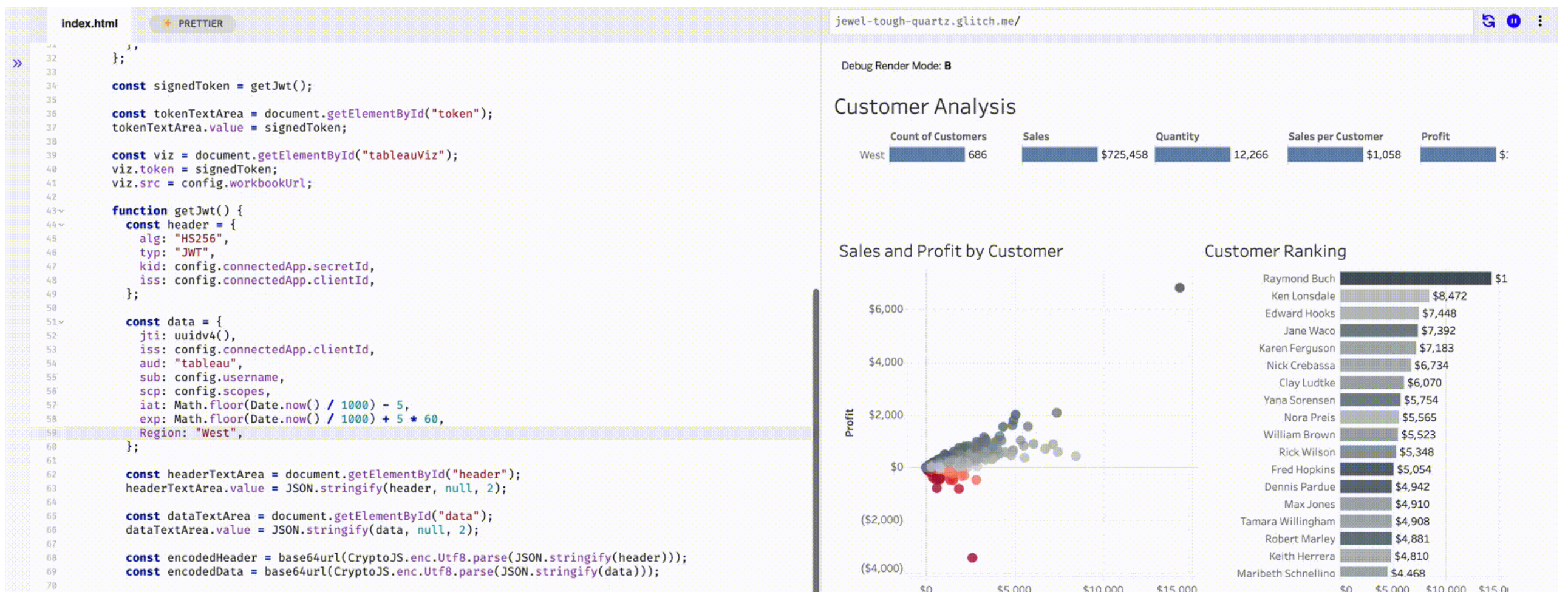
- World Happiness Report: Datasets related to global happiness rankings, suitable for advanced dashboard design.



# DAY 22

 Aim for the Day

# Working with Big Data in Tableau



```
index.html PRETTIER jewel-tough-quartz.glitch.me/
32  };
33  };
34  const signedToken = getJwt();
35
36  const tokenTextArea = document.getElementById("token");
37  tokenTextArea.value = signedToken;
38
39  const viz = document.getElementById("tableauViz");
40  viz.token = signedToken;
41  viz.src = config.workbookUrl;
42
43  function getJwt() {
44    const header = {
45      alg: "HS256",
46      typ: "JWT",
47      kid: config.connectedApp.secretId,
48      iss: config.connectedApp.clientId,
49    };
50
51    const data = {
52      jti: uuidv4(),
53      iss: config.connectedApp.clientId,
54      aud: "tableau",
55      sub: config.username,
56      scp: config.scopes,
57      iat: Math.floor(Date.now() / 1000) - 5,
58      exp: Math.floor(Date.now() / 1000) + 5 * 60,
59      Region: "West",
60    };
61
62    const headerTextArea = document.getElementById("header");
63    headerTextArea.value = JSON.stringify(header, null, 2);
64
65    const dataTextArea = document.getElementById("data");
66    dataTextArea.value = JSON.stringify(data, null, 2);
67
68    const encodedHeader = base64url(CryptoJS.enc.Utf8.parse(JSON.stringify(header)));
69    const encodedData = base64url(CryptoJS.enc.Utf8.parse(JSON.stringify(data)));
70  }
```

Debug Render Mode: B

### Customer Analysis

	Count of Customers	Sales	Quantity	Sales per Customer	Profit
West	686	\$725,458	12,266	\$1,058	\$:

### Sales and Profit by Customer

Scatter plot showing Profit vs Sales for individual customers. The y-axis ranges from (\$4,000) to \$6,000, and the x-axis ranges from \$0 to \$15,000.

### Customer Ranking

Raymond Buch	\$1
Ken Lonsdale	\$8,472
Edward Hooks	\$7,448
Jane Waco	\$7,392
Karen Ferguson	\$7,183
Nick Crebassa	\$6,734
Clay Ludtke	\$6,070
Yana Sorensen	\$5,754
Nora Preis	\$5,565
William Brown	\$5,523
Rick Wilson	\$5,348
Fred Hopkins	\$5,054
Dennis Pardue	\$4,942
Max Jones	\$4,910
Tamara Willingham	\$4,908
Robert Marley	\$4,881
Keith Herrera	\$4,810
Maribeth Schnellino	\$4,468

## Resources for Learning

- Tableau Online Help: [Connect to Big Data](#)
- Tableau Blog: [Working with Big Data in Tableau](#)





## Project for the Day

- Connect to a large dataset (e.g., big sales data) and create a meaningful visualization.



## Practice Questions

- Understand how to connect and analyze large datasets in Tableau.
- Explore data source options like Hadoop and cloud-based services.



## Datasets

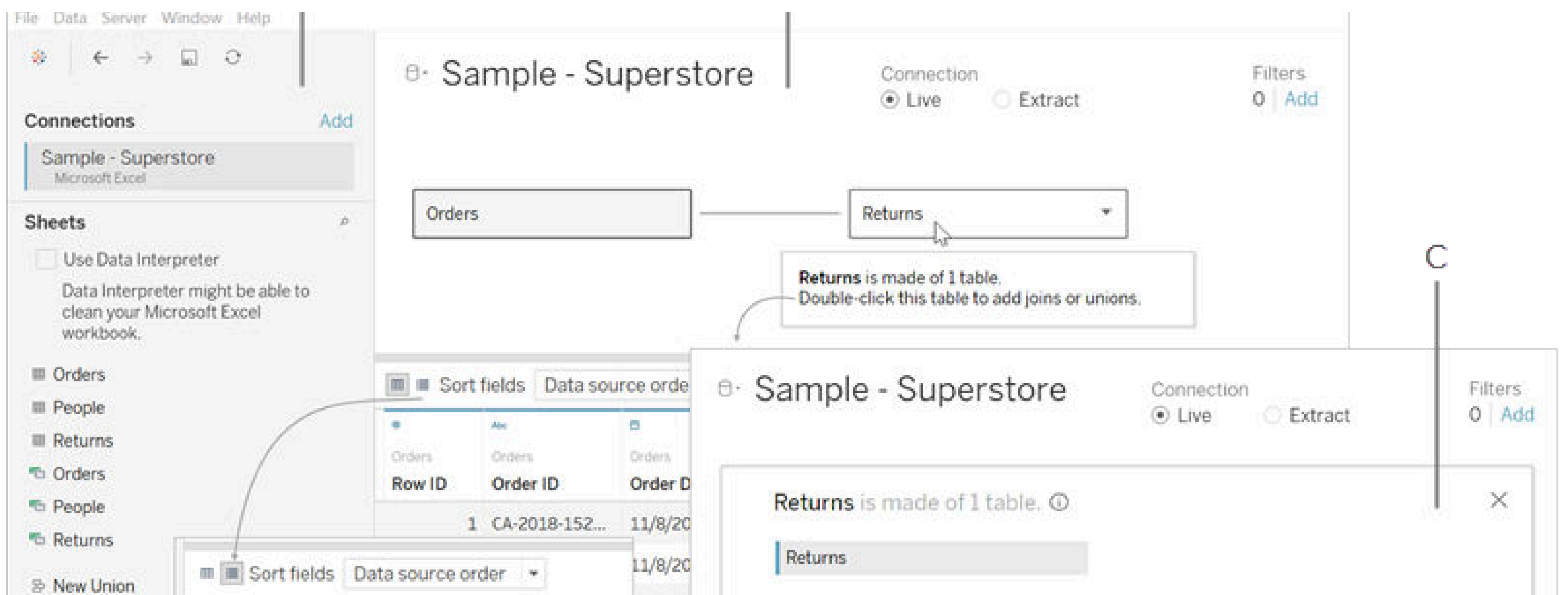
- NYC Taxi Trip Data: A large dataset of NYC taxi trips, useful for practicing big data handling in Tableau.



# DAY 23

 Aim for the Day

## Advanced Data Source Connections



The screenshot displays the Tableau Desktop interface for a 'Sample - Superstore' data source. The 'Connections' pane on the left shows the 'Sample - Superstore' connection to a Microsoft Excel file. The 'Sheets' pane lists various data sources including 'Orders', 'People', and 'Returns'. The main workspace shows a 'Returns' table selected, with a tooltip indicating it is made of 1 table. A 'Sort fields' pane is visible, showing a table with columns 'Row ID', 'Order ID', and 'Order D'. A vertical line labeled 'C' is positioned on the right side of the interface.

### Resources for Learning

- Tableau Online Help: [Advanced Data Source Connections](#)
- YouTube Tutorial: [Advanced Data Source Connections in Tableau](#)





## Project for the Day

- Connect to a database using custom SQL queries and create visualizations based on complex data queries.



## Practice Questions

- Dive deeper into data source connections with custom SQL and joins.



## Datasets

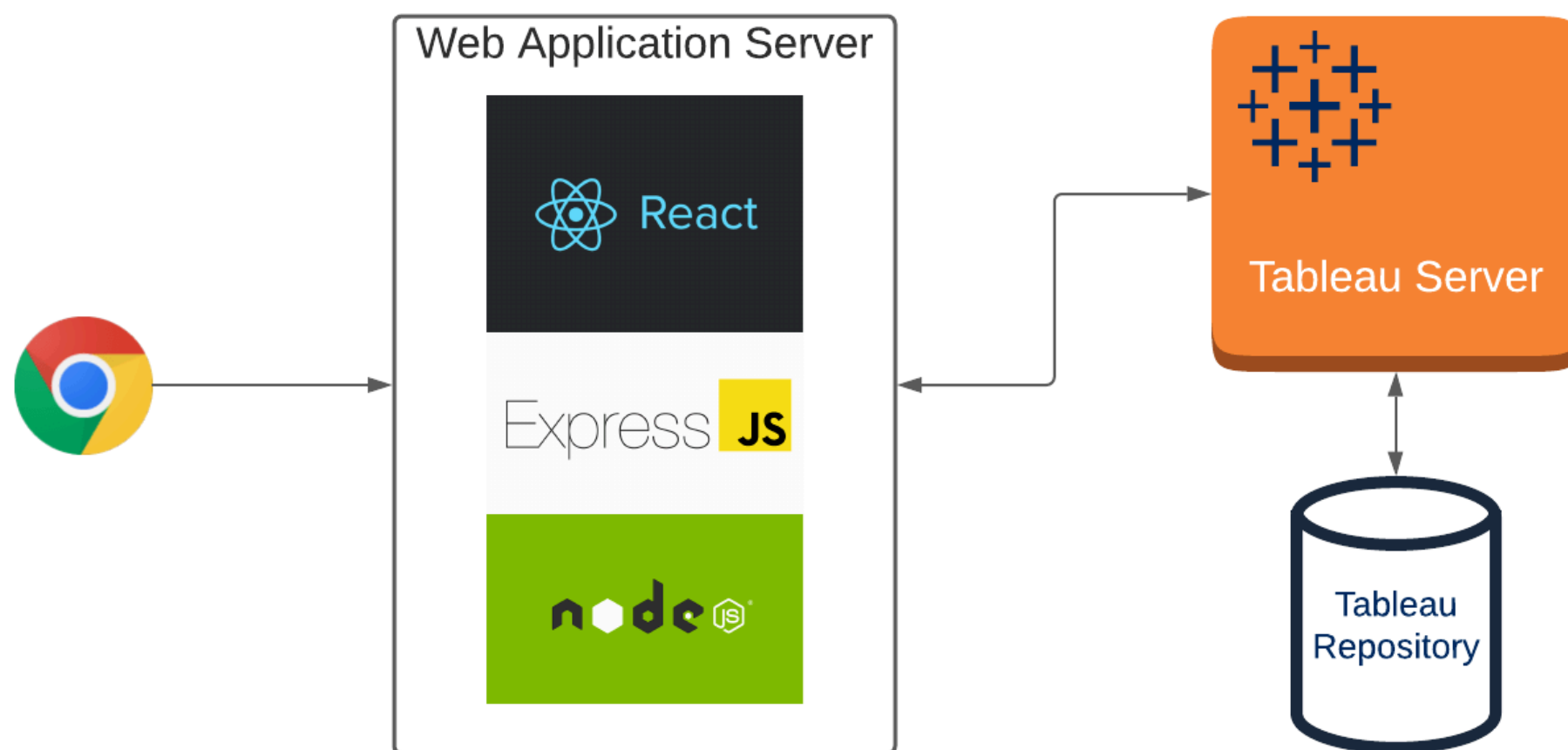
- NYC Taxi Trip Data: A large dataset of NYC taxi trips, useful for practicing big data handling in Tableau.



# DAY 24

 Aim for the Day

## Integrating Tableau with Other Tools (e.g., R, Python)



 Resources for Learning

- Tableau Online Help: [Integrate with R and Python](#)
- YouTube Tutorial: [Integrating Tableau with R and Python](#)







## Project for the Day

- Integrate Tableau with either R or Python to perform advanced analytics on your data.



## Practice Questions

- Explore how to integrate Tableau with external analytics tools.
- Learn to use calculated fields with R or Python scripts.



## Datasets

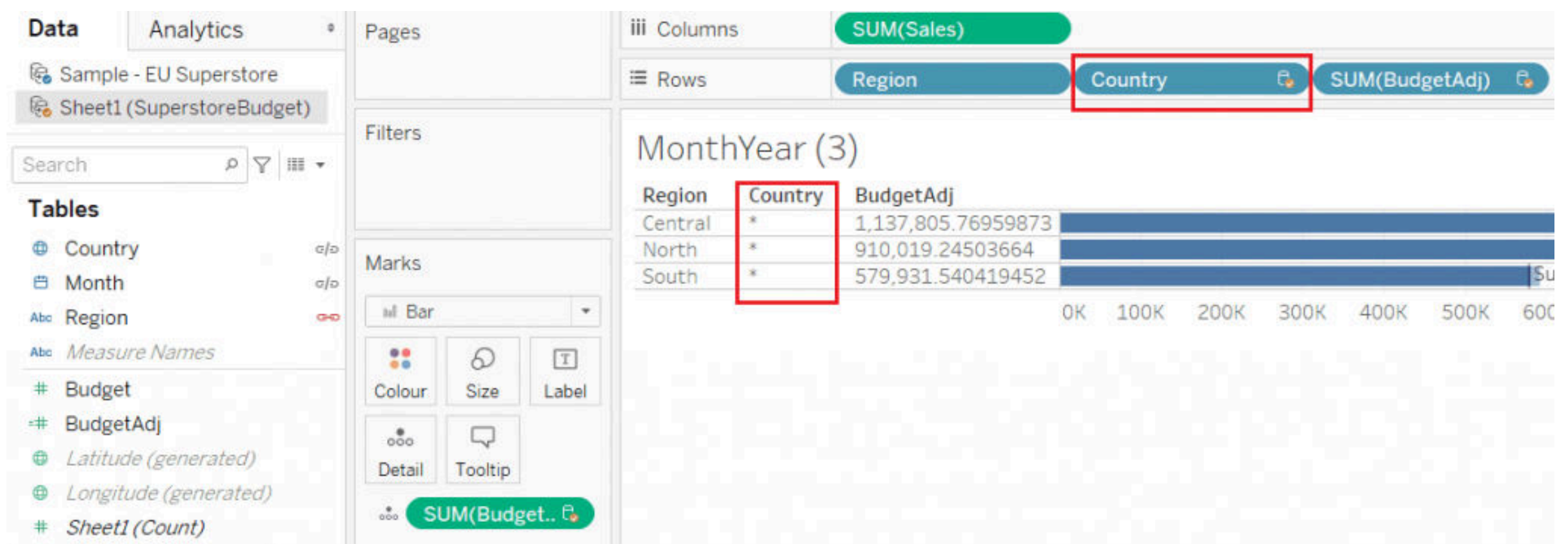
- E-commerce Customer Data: A dataset containing e-commerce customer information, suitable for integrating Tableau with external analytics tools like R or Python.



# DAY 25

 Aim for the Day

## Advanced Data Blending Techniques



 Resources for Learning

- Tableau Online Help: [Advanced Data Blending](#)
- YouTube Tutorial: [Advanced Data Blending in Tableau](#)





## Project for the Day

- Work with multiple datasets, combining them using advanced data blending techniques to create a comprehensive dashboard.



## Practice Questions

- Master advanced data blending techniques for complex data relationships.  
Project for the Day:



## Datasets

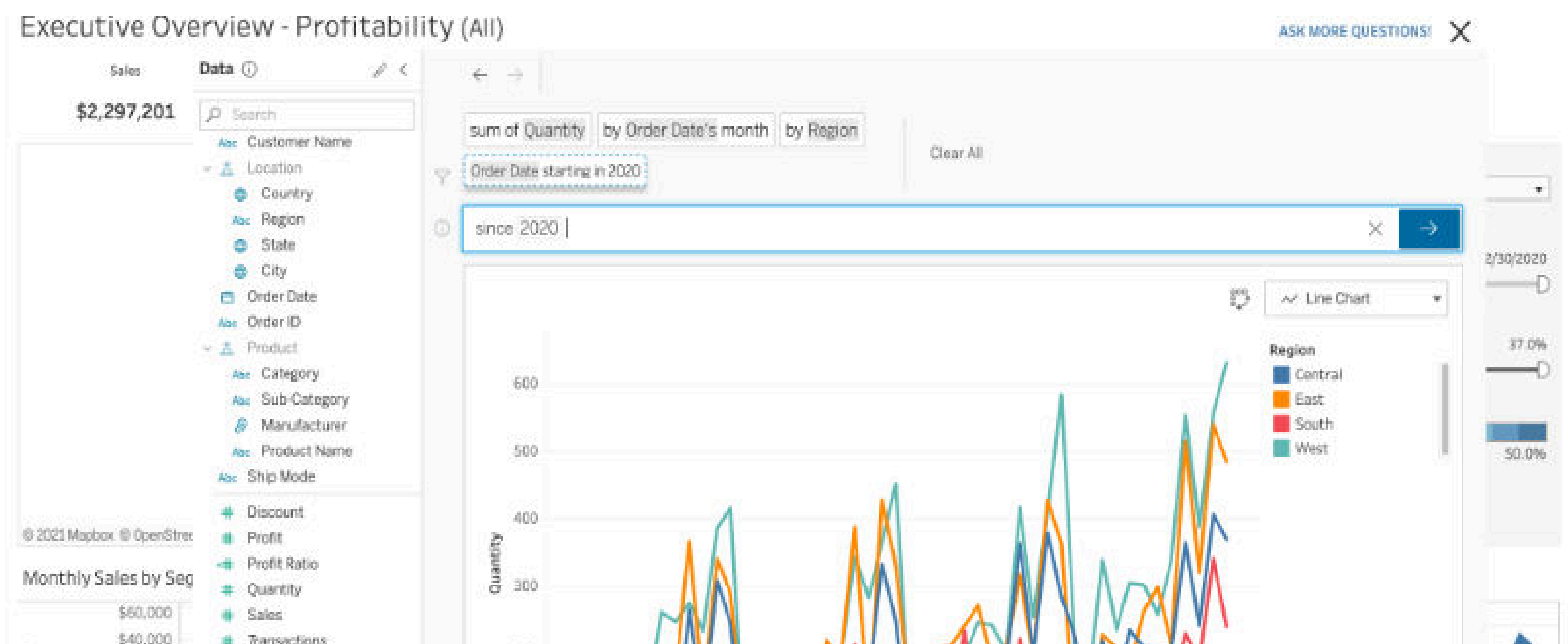
- MovieLens Dataset: Movie ratings data for practicing advanced data blending techniques.



# DAY 26

 Aim for the Day

## Advanced Analytics and Machine Learning Integration



### Resources for Learning

- Tableau Online Help: [Advanced Analytics in Tableau](#)
- YouTube Tutorial: [Advanced Analytics in Tableau](#)



## Project for the Day

- Incorporate advanced analytics or a machine learning model into one of your Tableau dashboards.

## Practice Questions

- Explore advanced analytics capabilities within Tableau.
- Integrate machine learning models into your visualizations.

## Datasets

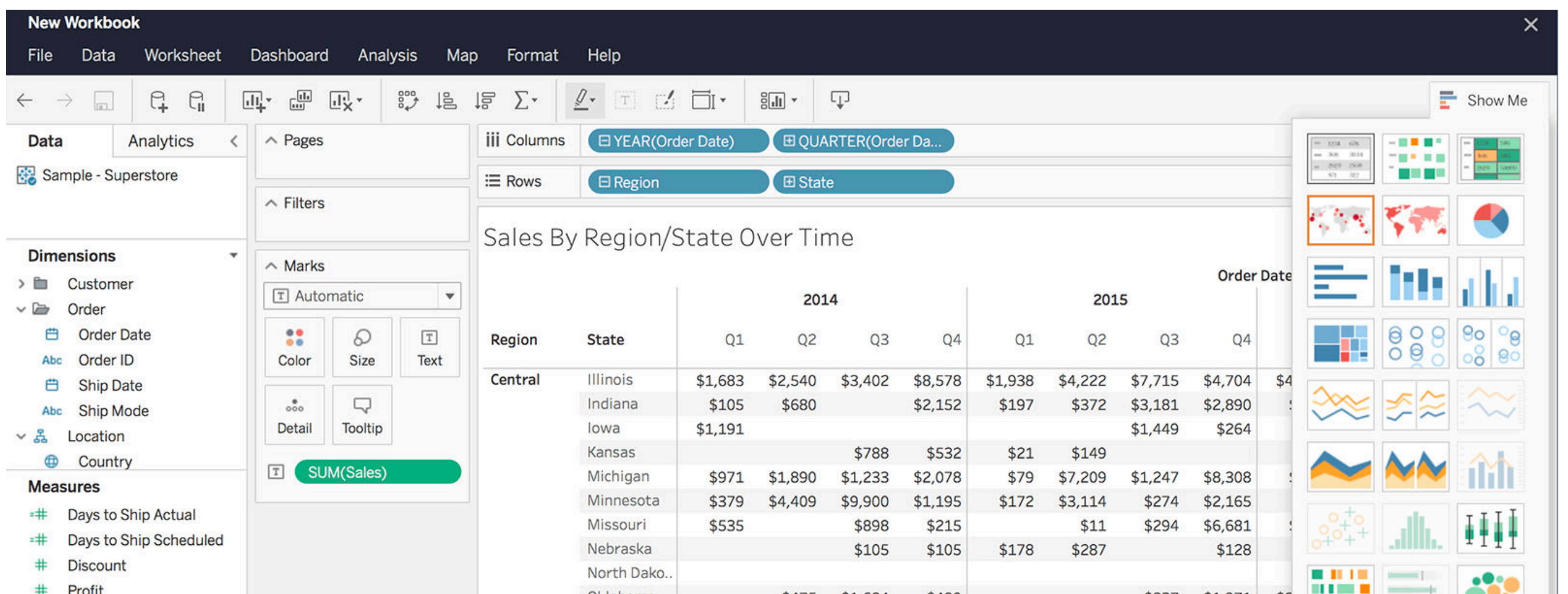
- Credit Card Fraud Detection: A dataset for fraud detection, perfect for integrating machine learning models into Tableau.



# DAY 27

 Aim for the Day

## Tableau Server and Collaboration



 Resources for Learning

- Tableau Online Help: [Tableau Server Overview](#)
- Tableau Training: [Tableau Server](#)



## Project for the Day

- If possible, install Tableau Server (or use a trial) and explore its features for collaboration and sharing.

## Practice Questions

- Understand Tableau Server's role in collaboration and sharing.
- Learn about user roles, permissions, and publishing.

## Datasets

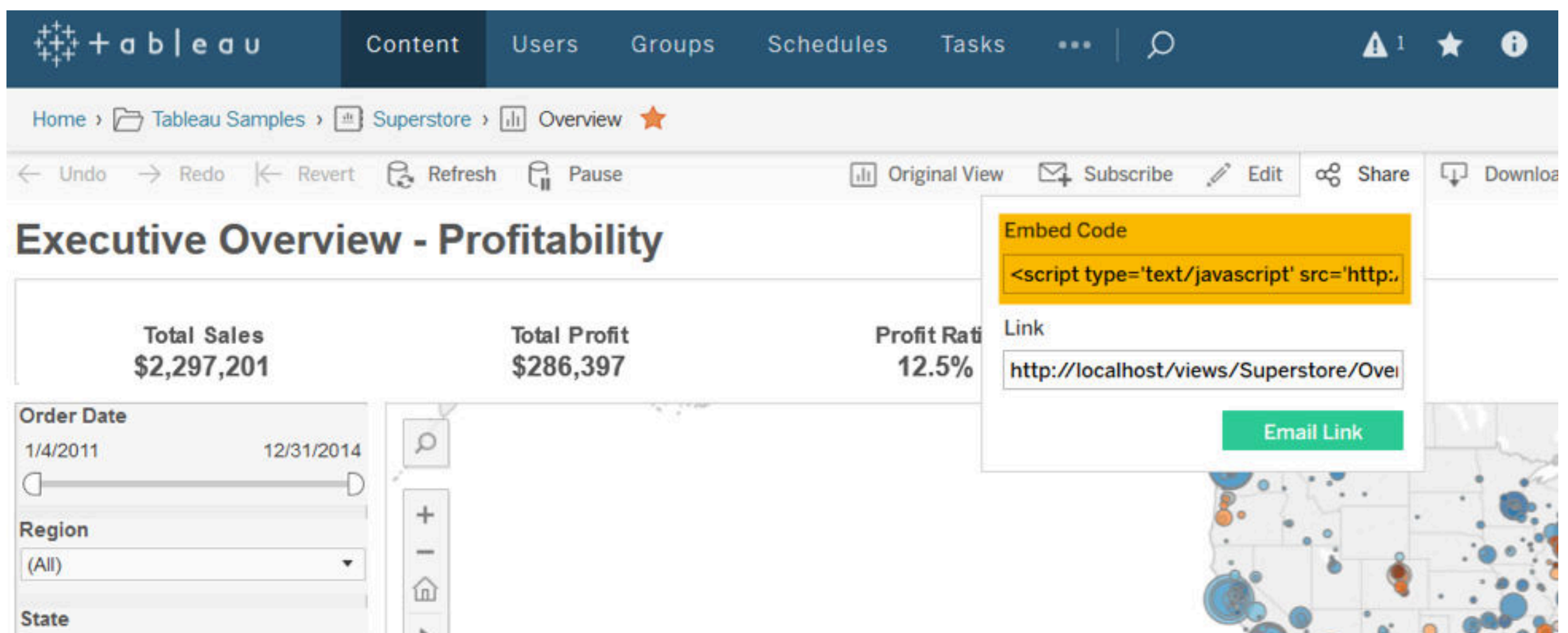
- Employee Sales and Performance Data: A dataset simulating employee sales and performance data, useful for exploring Tableau Server's collaboration features.



# DAY 28

 Aim for the Day

## Embedding Tableau Visualizations



The screenshot shows the Tableau Online interface. The top navigation bar includes 'Content', 'Users', 'Groups', 'Schedules', and 'Tasks'. The breadcrumb trail is 'Home > Tableau Samples > Superstore > Overview'. The dashboard title is 'Executive Overview - Profitability'. Key metrics displayed are: Total Sales \$2,297,201, Total Profit \$286,397, and Profit Ratio 12.5%. A share menu is open, showing options for 'Embed Code', 'Link', and 'Email Link'. The 'Embed Code' option is highlighted, showing a snippet of JavaScript code: `<script type='text/javascript' src='http:...`. The 'Link' option shows the URL: `http://localhost/views/Superstore/Ove...`. The 'Email Link' option is a green button. The dashboard also features a date range filter for 'Order Date' (1/4/2011 to 12/31/2014) and a 'Region' dropdown menu set to '(All)'. A map visualization is visible in the bottom right corner.

 Resources for Learning

- Tableau Online Help: [Embedding Tableau Content](#)
- YouTube Tutorial: [Embedding Tableau Visualizations](#)







## Project for the Day

- Embed one of your Tableau visualizations in a personal website or blog (if applicable).



## Practice Questions

- Learn how to embed Tableau visualizations in websites and applications.



## Datasets

- Census Bureau Data: Various datasets from the United States Census Bureau, great for embedding Tableau visualizations in websites or applications.



# DAY 29

 Aim for the Day

## Tableau Certification Preparation

### Tableau Desktop Exams

Testing on version 2018.2

#### Desktop Specialist

Focused on foundational functionality and product comprehension

**Fee:** \$100 (50% off until December 31, 2018)

**Suggested Training:** [Desktop I](#)

**Required Prerequisites:** None

**Suggested Product Experience:** 3+ Months

**Exam Prep Guide:** [Download here](#)

#### Desktop Qualified Associate

Comprehensive functionality and product expertise

**Fee:** \$250

**Suggested Training:** [Desktop I](#) & [Desktop II](#)

**Required Prerequisites:** None

**Suggested Product Experience:** 5+ Months

**Exam Prep Guide:** [Download here](#)

#### Desktop Certified Professional

Advanced functionality and application of visual best practices

**Fee:** \$600

**Suggested Training:** [Desktop III](#) & [Visual Analytics](#)

**Required Prerequisites:** Active Desktop Qualified Associate

**Suggested Product Experience:** 12+ Months

### Resources for Learning

- Tableau Certification Page: [Tableau Certification](#)
- Tableau Forum: [Tableau Certification Forum](#)



## Project for the Day

- Take a mock Tableau certification exam to assess your readiness.

## Practice Questions

- Take a mock Tableau certification exam to assess your readiness.

## Datasets

- Tableau Sample Exam Datasets: Access sample datasets provided by Tableau to prepare for certification exams.



# DAY 30

 Aim for the Day

## Final Project Showcase and Review

 Resources for Learning

- Tableau Community: [Tableau Community](#)
- Udemy: [Tableau Courses](#)

 Project for the Day

- Use any of the completed dashboards or visualizations from previous days.
- Polish and finalize your comprehensive Tableau project.
- Share your project with your network, mentor, or online Tableau community for feedback and recognition.



## ? Practice Questions

- Review and summarize the skills you've developed over the past 30 days.
- Showcase your final Tableau project to peers, mentors, or online communities.




## Datasets

- Choose any dataset that aligns with your interests and showcase the skills you've learned over the 30 days in a comprehensive Tableau project.





# WHY BOSSCODER?

-  **1000+** Alumni placed at Top Product-based companies.
-  More than **136% hike** for every **2 out of 3** working professional.
-  Average package of **24LPA.**

The syllabus is most **up-to-date** and the list of problems provided covers all important topics.

Lavanya  
 Meta



Course is very well structured and streamlined to crack any MAANG company

Rahul  




[EXPLORE MORE](#)