



# LEARN **TABLEAU**

## Magic



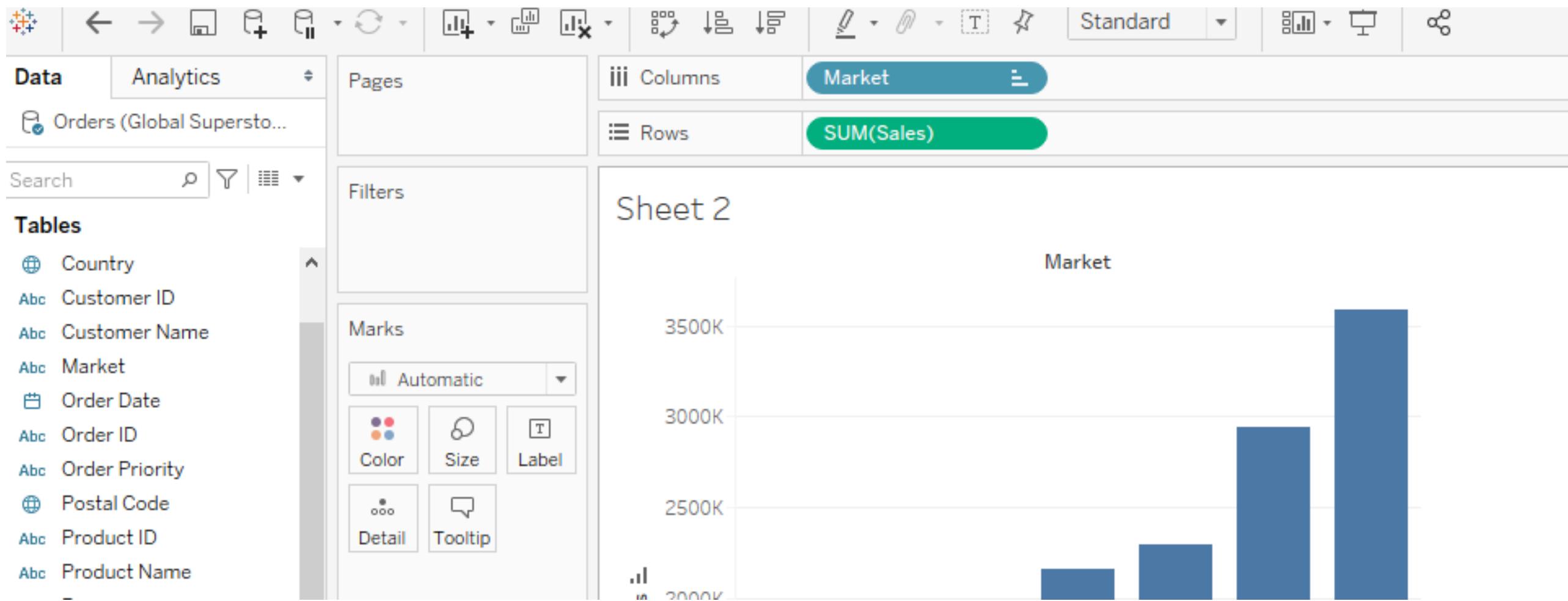
IN JUST 30 DAYS

# 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

The screenshot shows the 'Connect' interface in Tableau. On the left, there are two main sections: 'To a File' and 'To a Server'. Under 'To a File', options include 'Excel', 'Text file', 'Statistical file', and 'More...'. Under 'To a Server', options include 'Tableau Server', 'Salesforce', and 'Google Sheets'. To the right of these sections is a search bar containing the placeholder 'Search'. Below the search bar is a grid of data source names:

Tableau Server	Snowflake
Amazon Aurora	Spark SQL
Amazon EMR	Teradata
Amazon Redshift	Web Data Connector
Cloudera Hadoop	
EXASolution	
Firebird	
Google Analytics	
Google BigQuery	
Google Cloud SQL	



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 Data Source interface. At the top, there are two connections listed: "Sample - EU Superstore" and "Sheet1 (SuperstoreBudget)". Below the connections is a search bar and a filter icon. The main area is titled "Tables" and lists three tables: "Country", "Month", and "Region". To the right of the tables, there are connection status icons: a blue link icon for "Country" and a red link icon for "Month" and "Region". Blue arrows point from the text labels to these icons. The "Month" and "Region" icons are grouped together under the "Inactive connection (broken chain link)" label, while the "Country" icon is under the "Active connection (orange chain link)" label.

Inactive connection  
(broken chain link)

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.

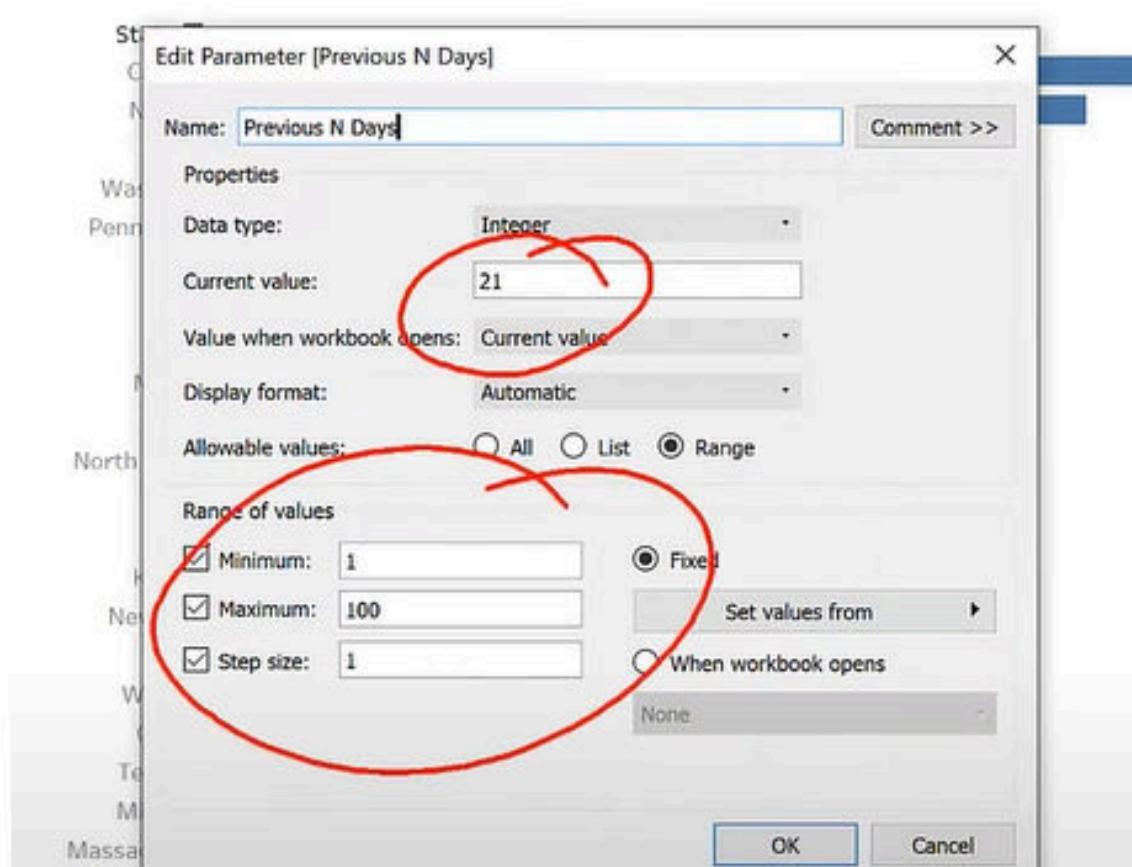


# DAY 5

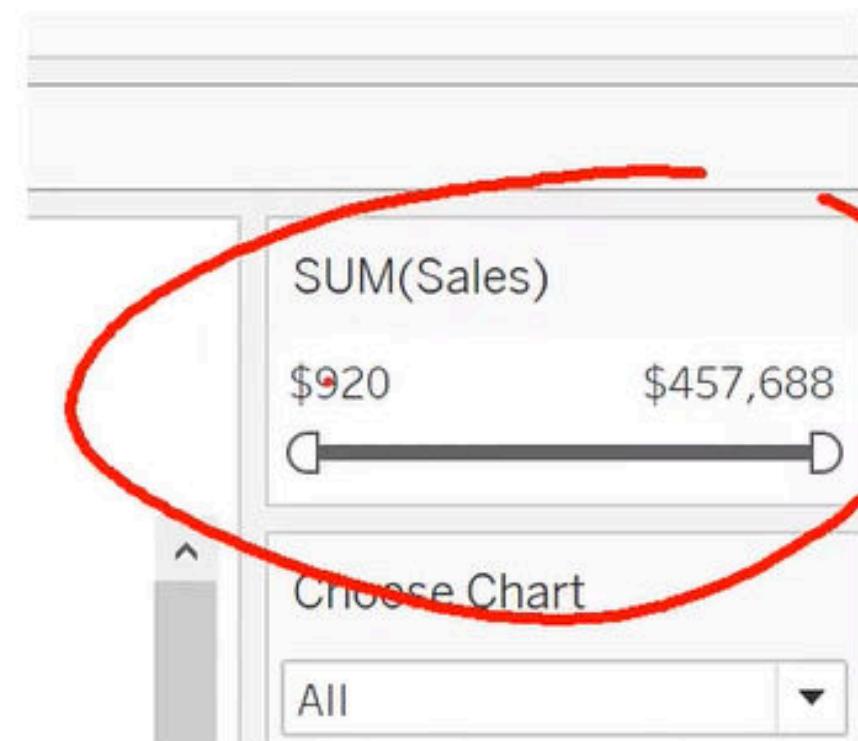
🎯 Aim for the Day

## 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

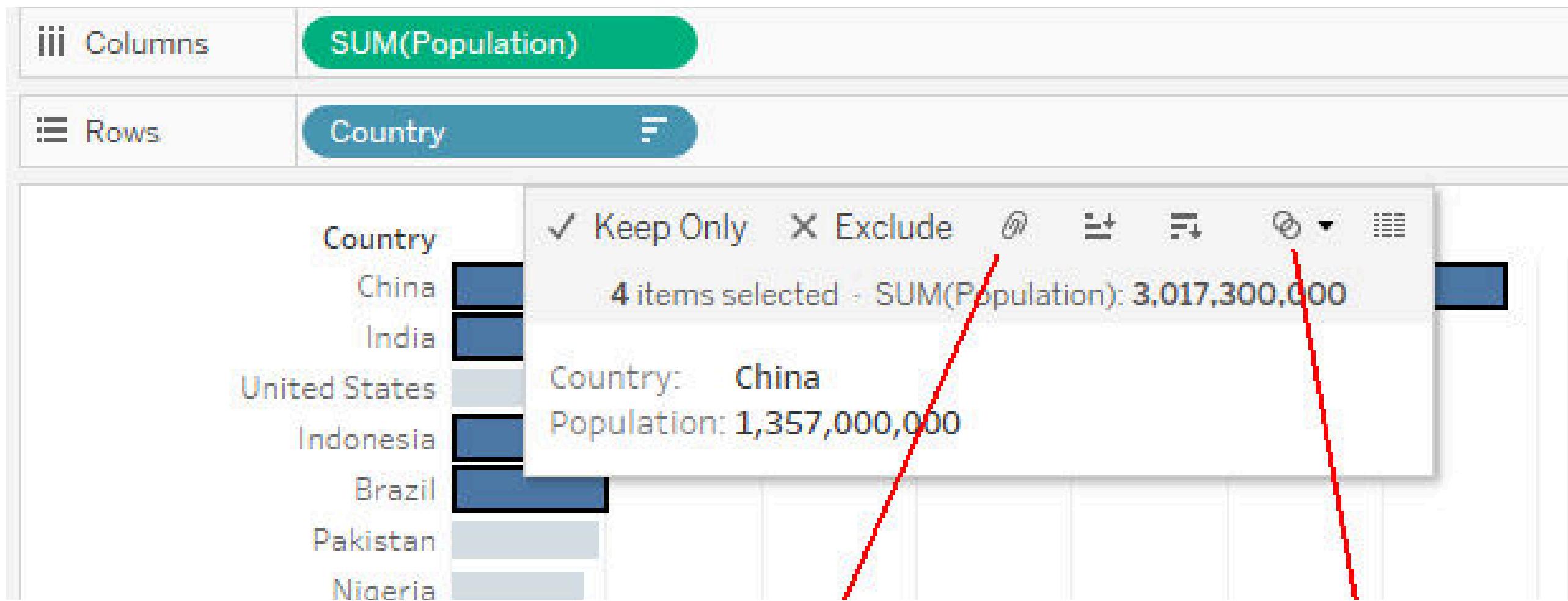
- Sample Coffee Chain: A dataset related to a coffee chain business, suitable for practicing filters and parameters.



# 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.

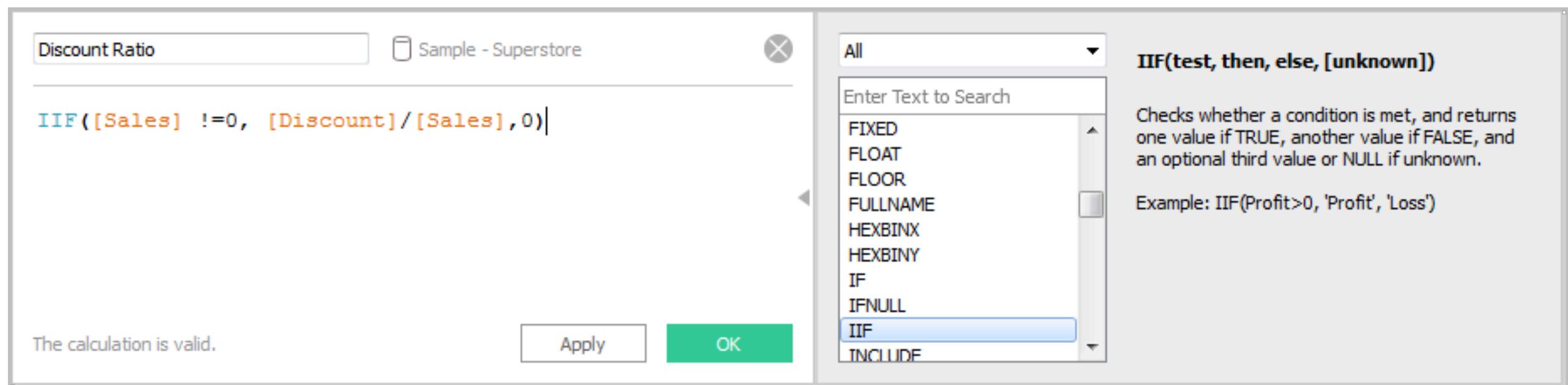


# DAY 7



Aim for the Day

# Calculated Fields (Calculated Columns and Measures)



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

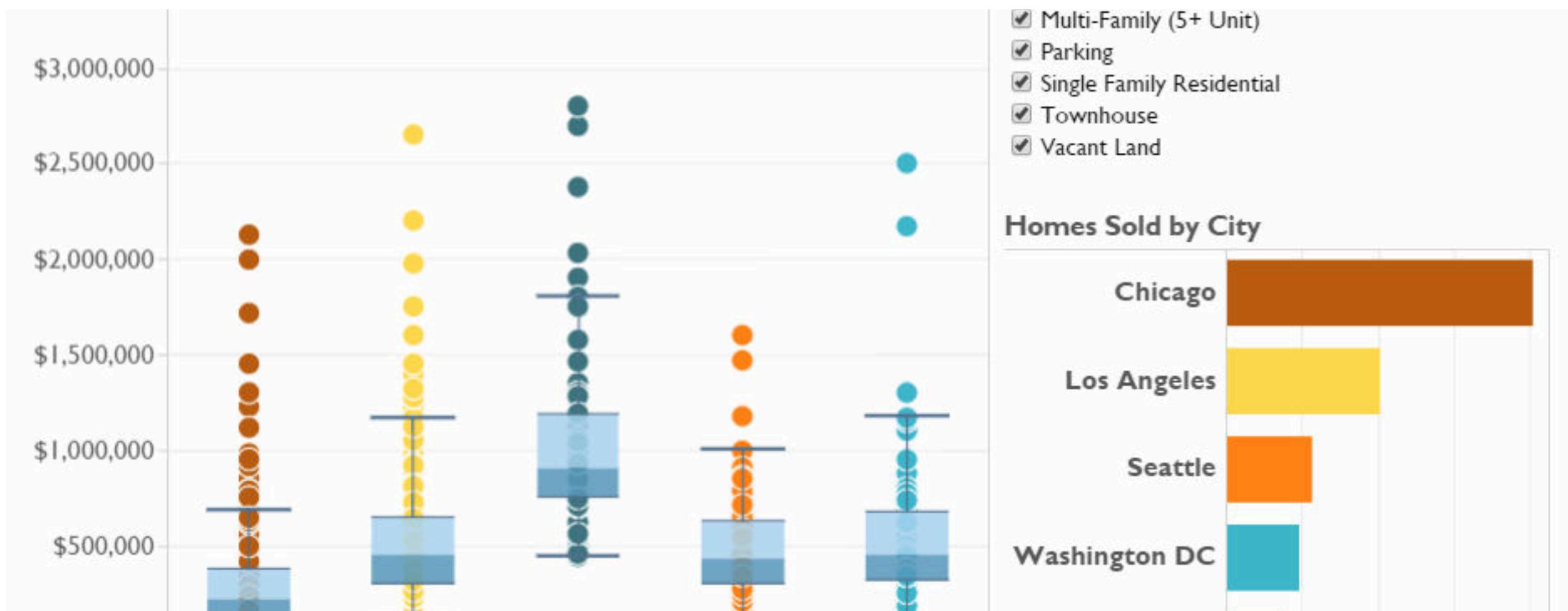
- Sample World Indicators: A dataset with various world indicators, useful for calculated field practice.



# 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

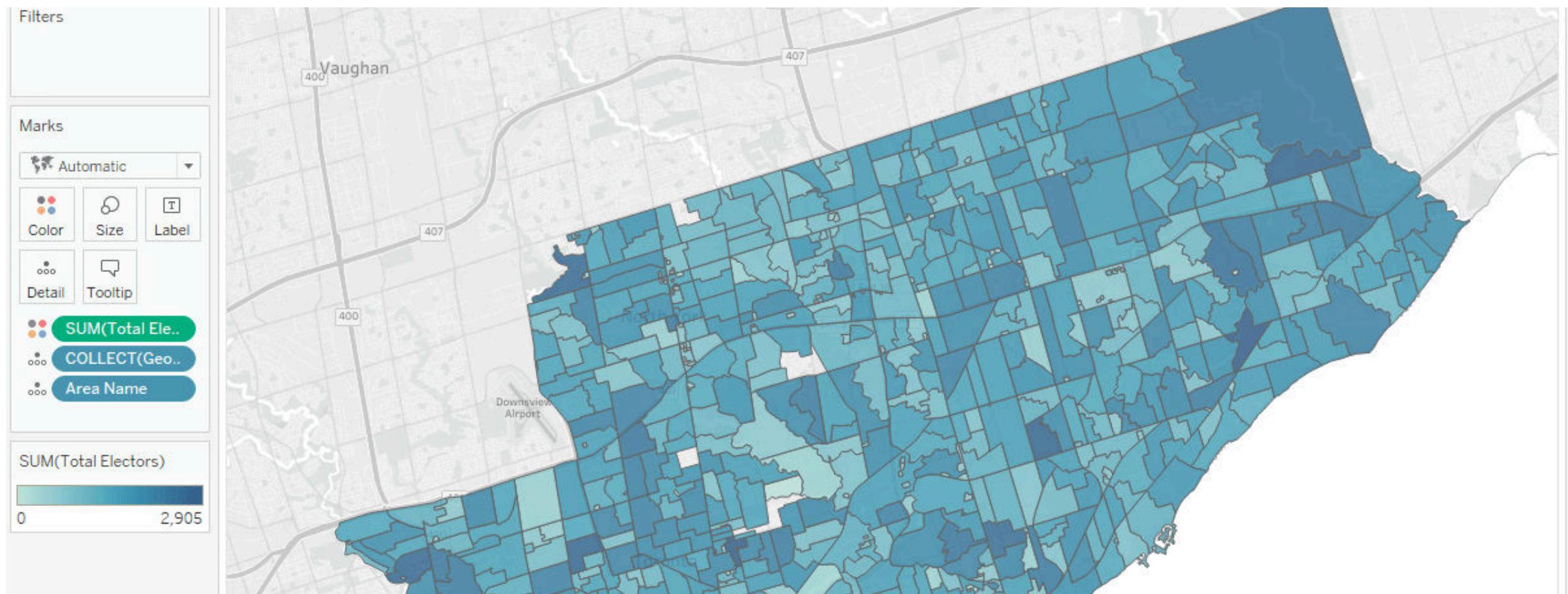
- Global Terrorism Database: A dataset containing information on global terrorist incidents, great for advanced chart types.



# 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

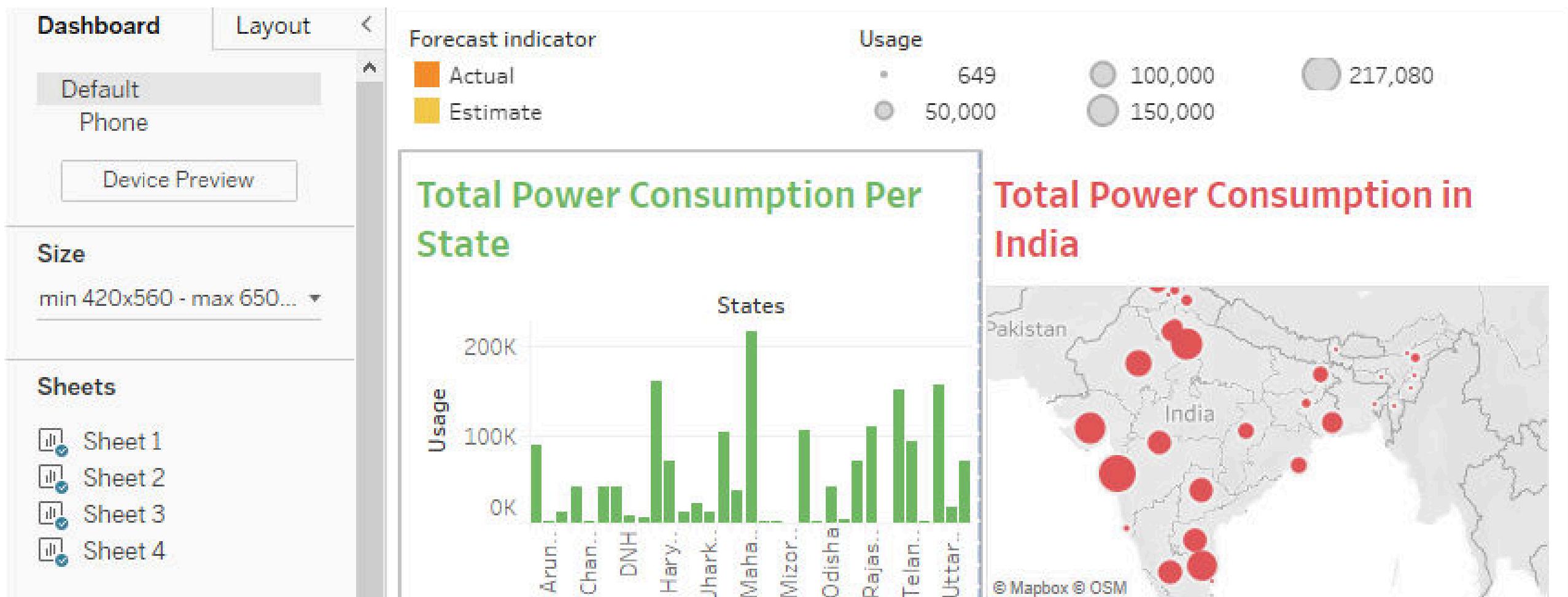
- World Bank Data: Datasets from the World Bank on various economic and demographic indicators, useful for geospatial analysis.



# 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

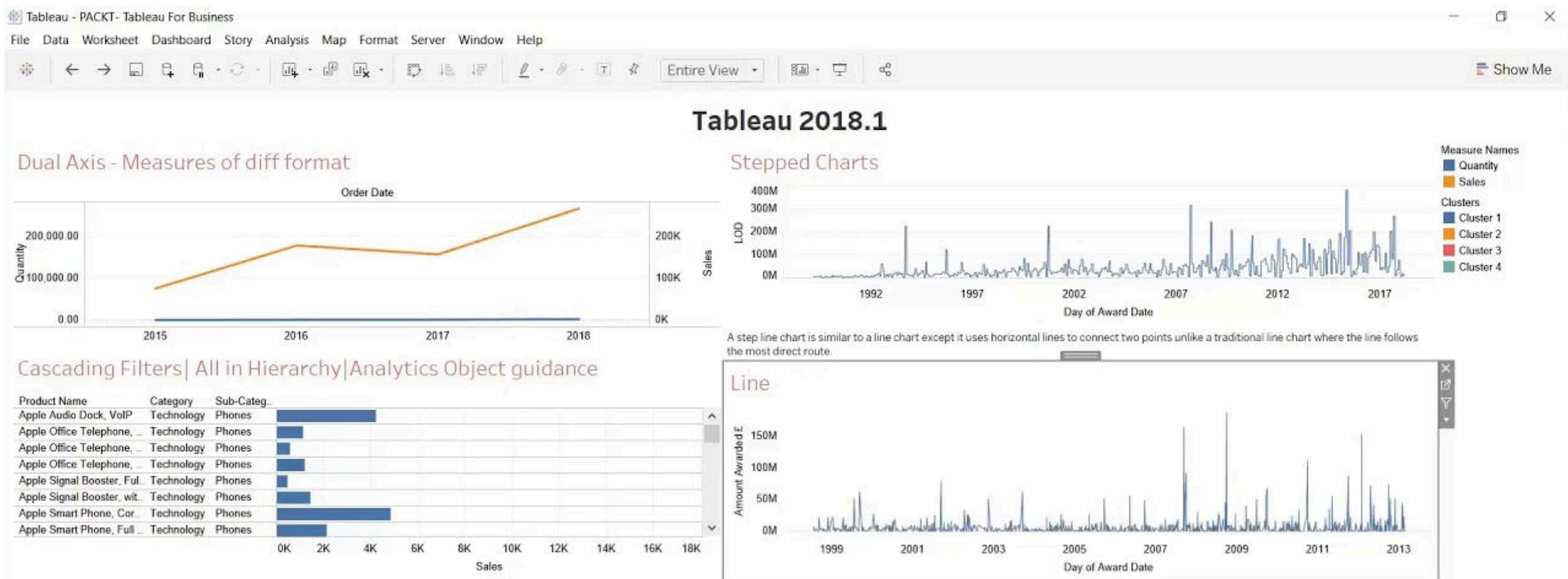
- World Bank Data: Datasets from the World Bank on various economic and demographic indicators, useful for geospatial analysis.



# 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

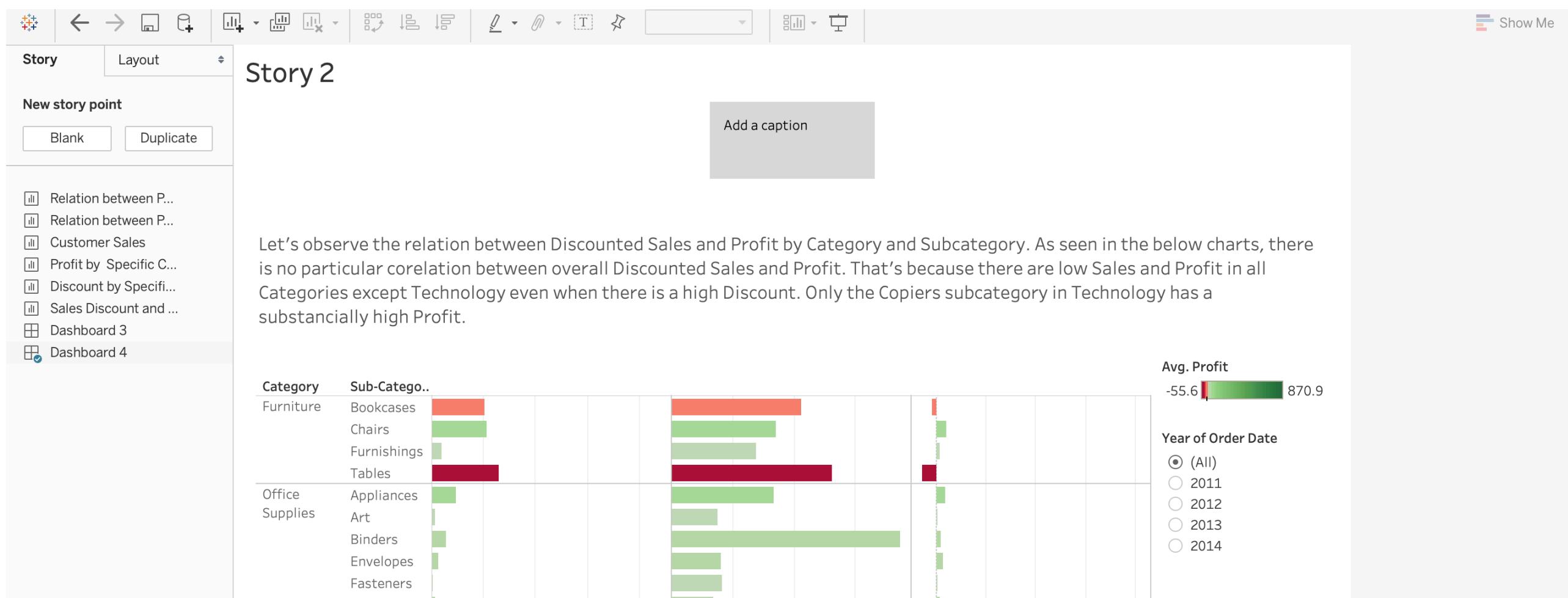
- Sample Superstore Sales: Practice making your dashboard interactive with this dataset.



# 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

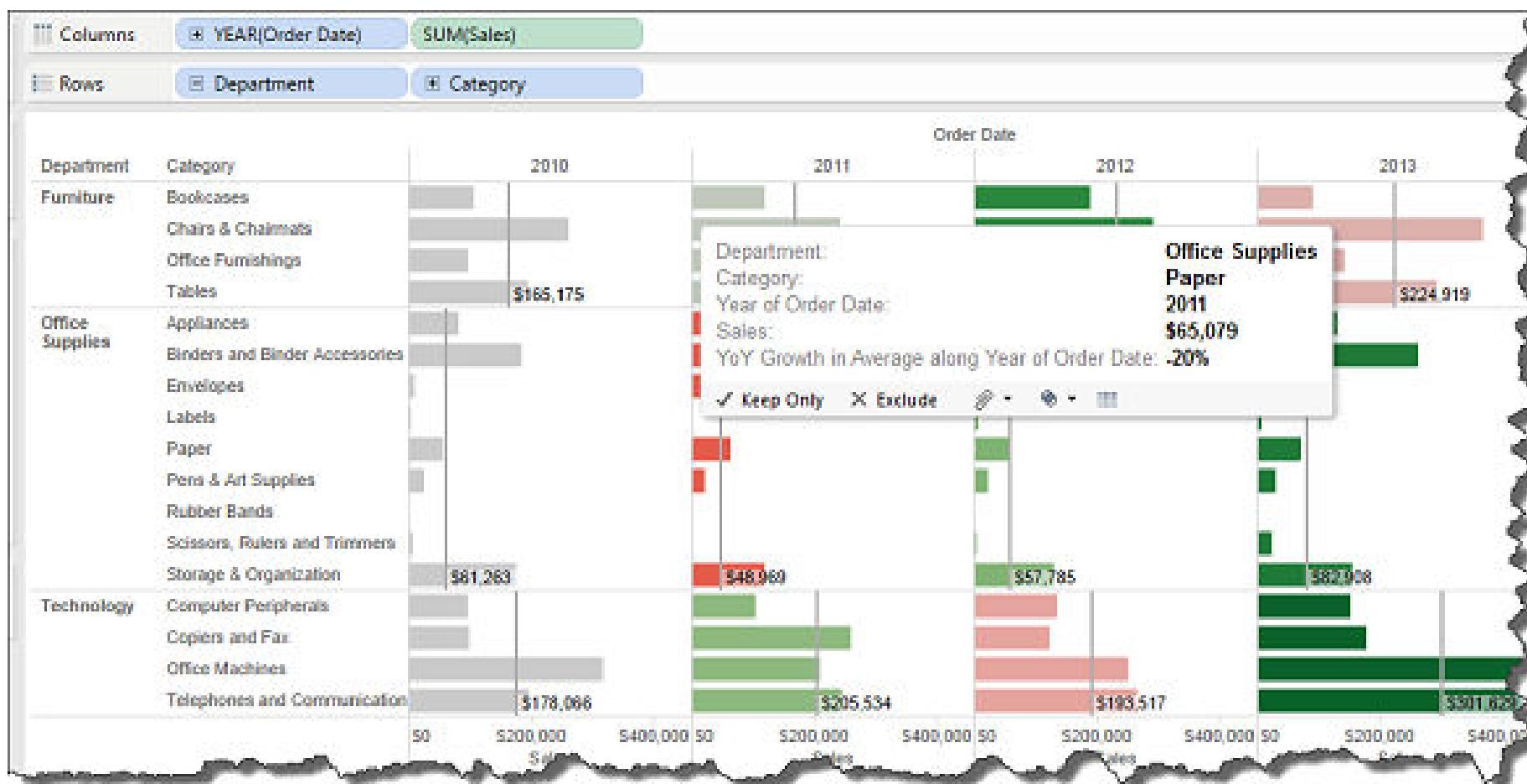
- Netflix Movies and TV Shows: A dataset containing information about movies and TV shows available on Netflix, ideal for storytelling practice.



# 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

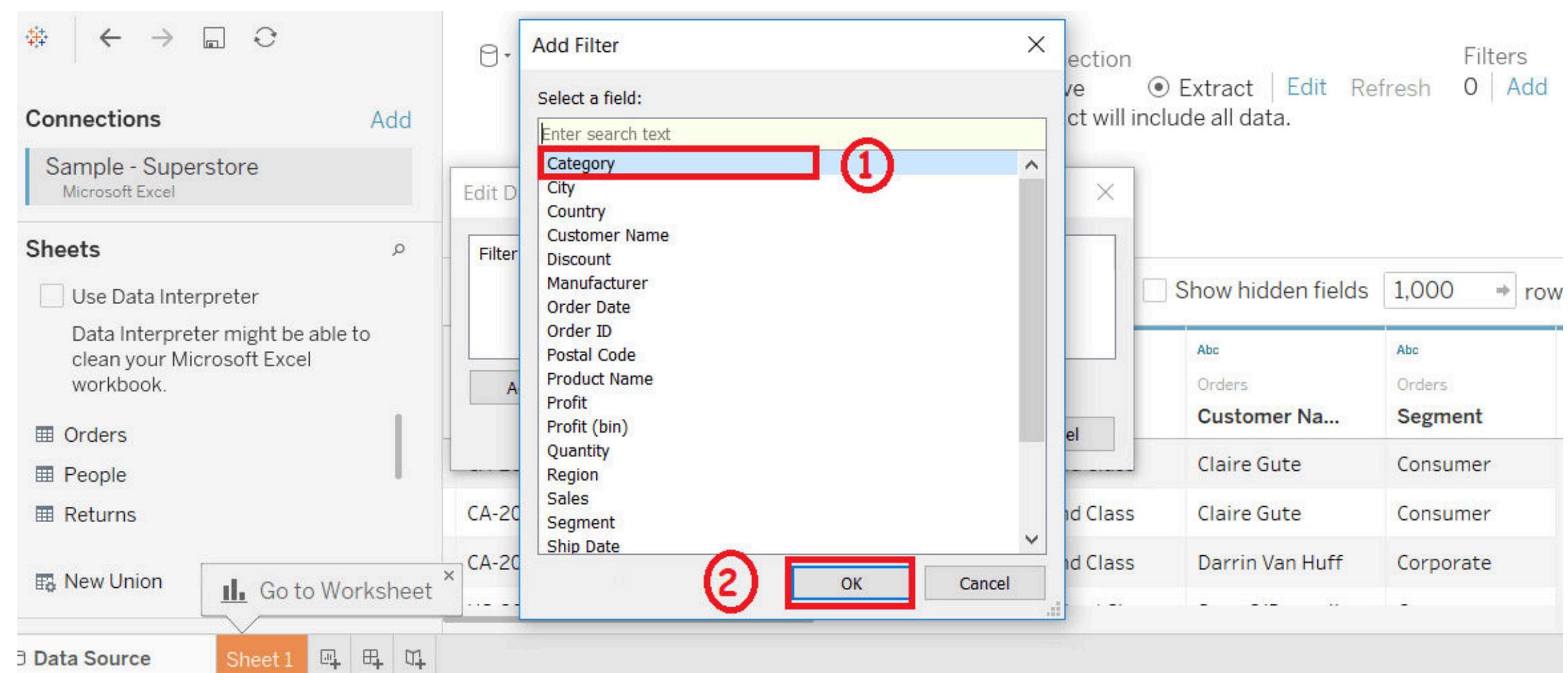
- Football (Soccer) Player Data: A dataset with information about FIFA 19 players, suitable for LOD expression practice.



# 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.

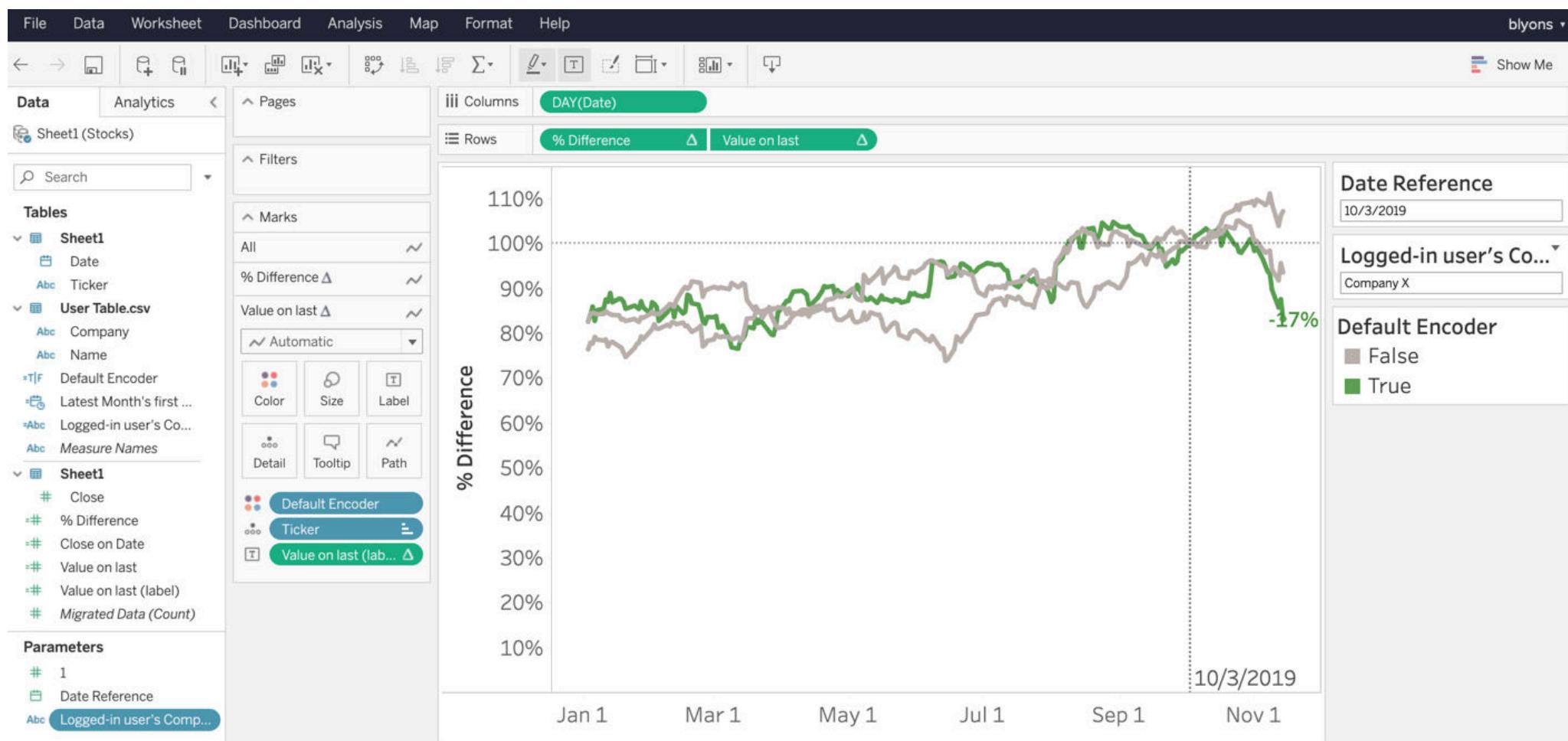


# DAY 15



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.



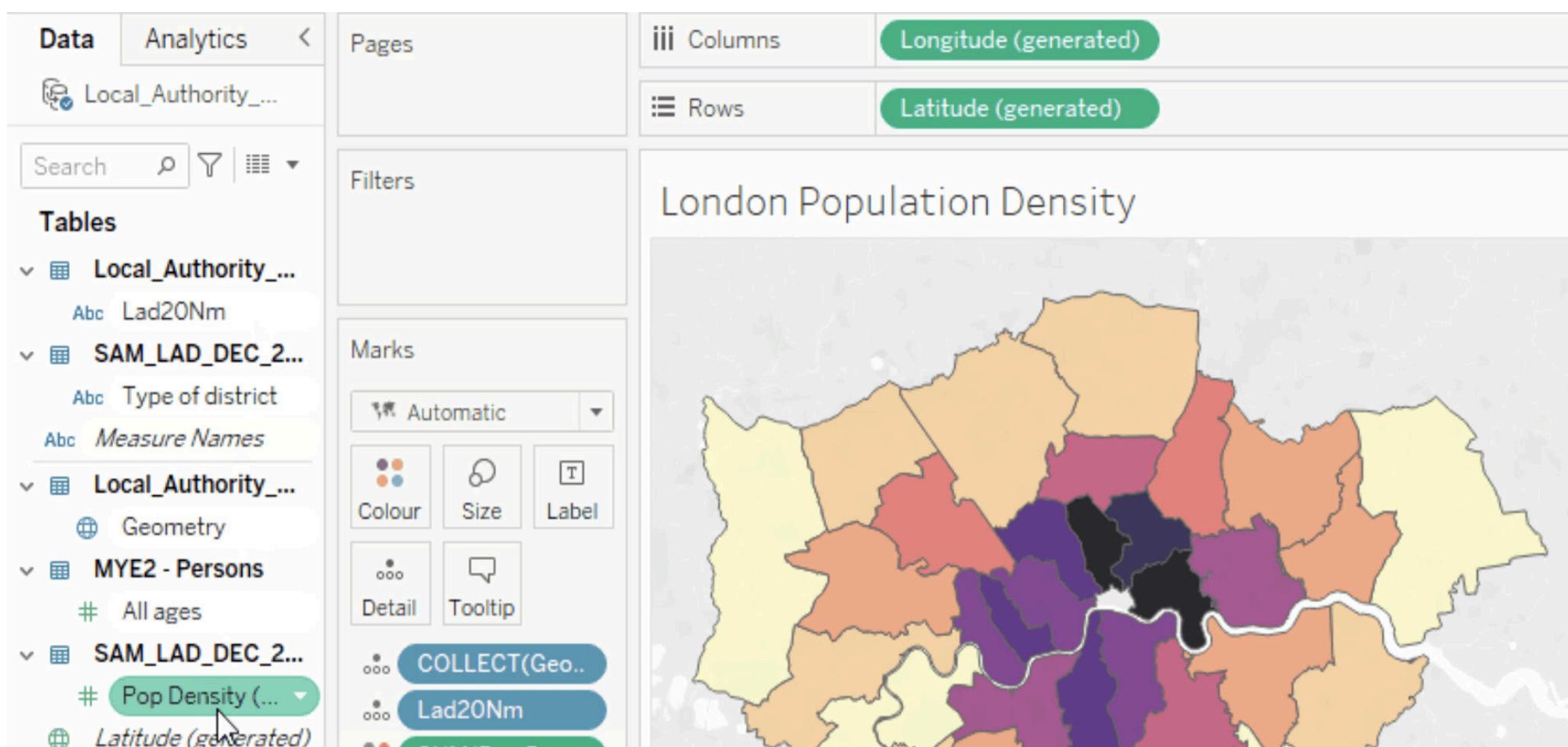
## Datasets

- 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.

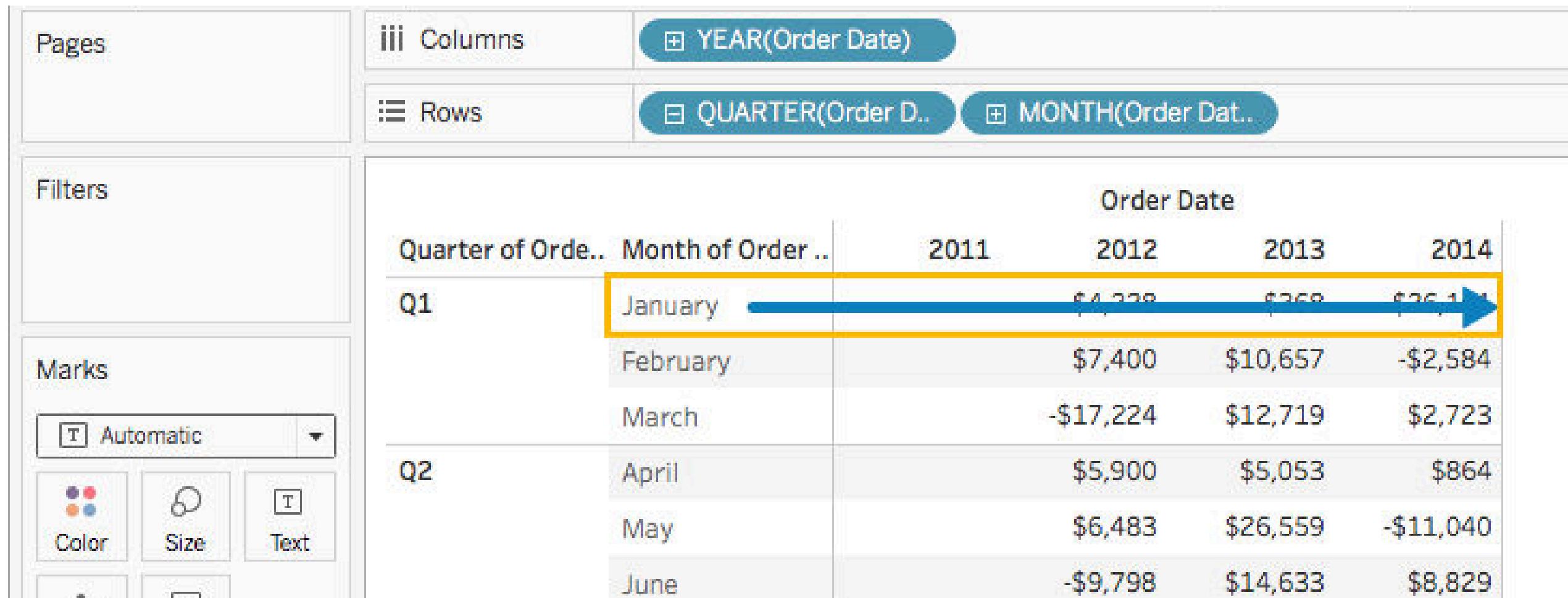


# DAY 17



Aim for the Day

## Calculations with Table Calculations



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

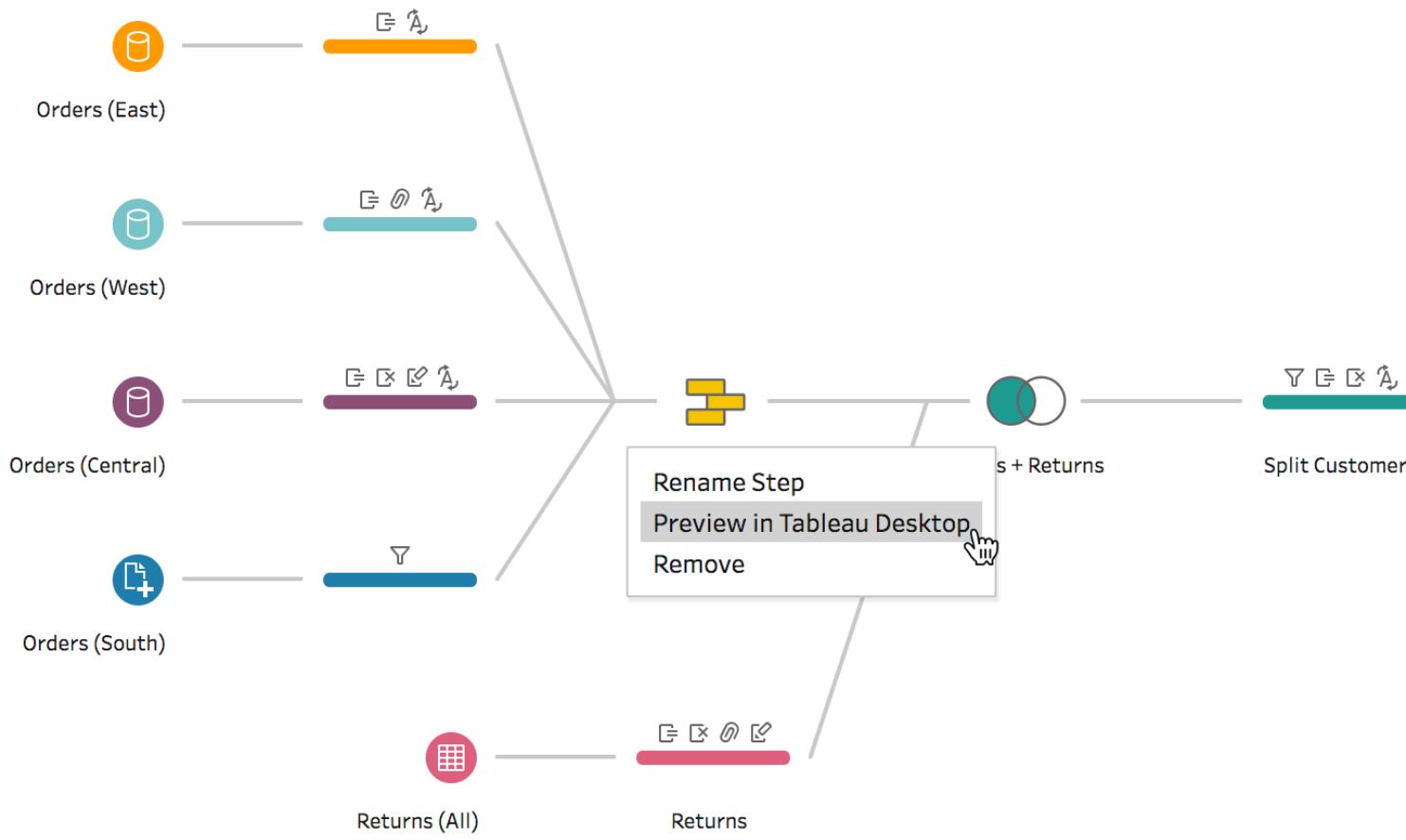
- Stock Market Data: Historical stock market data for practicing forecasting.



# 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

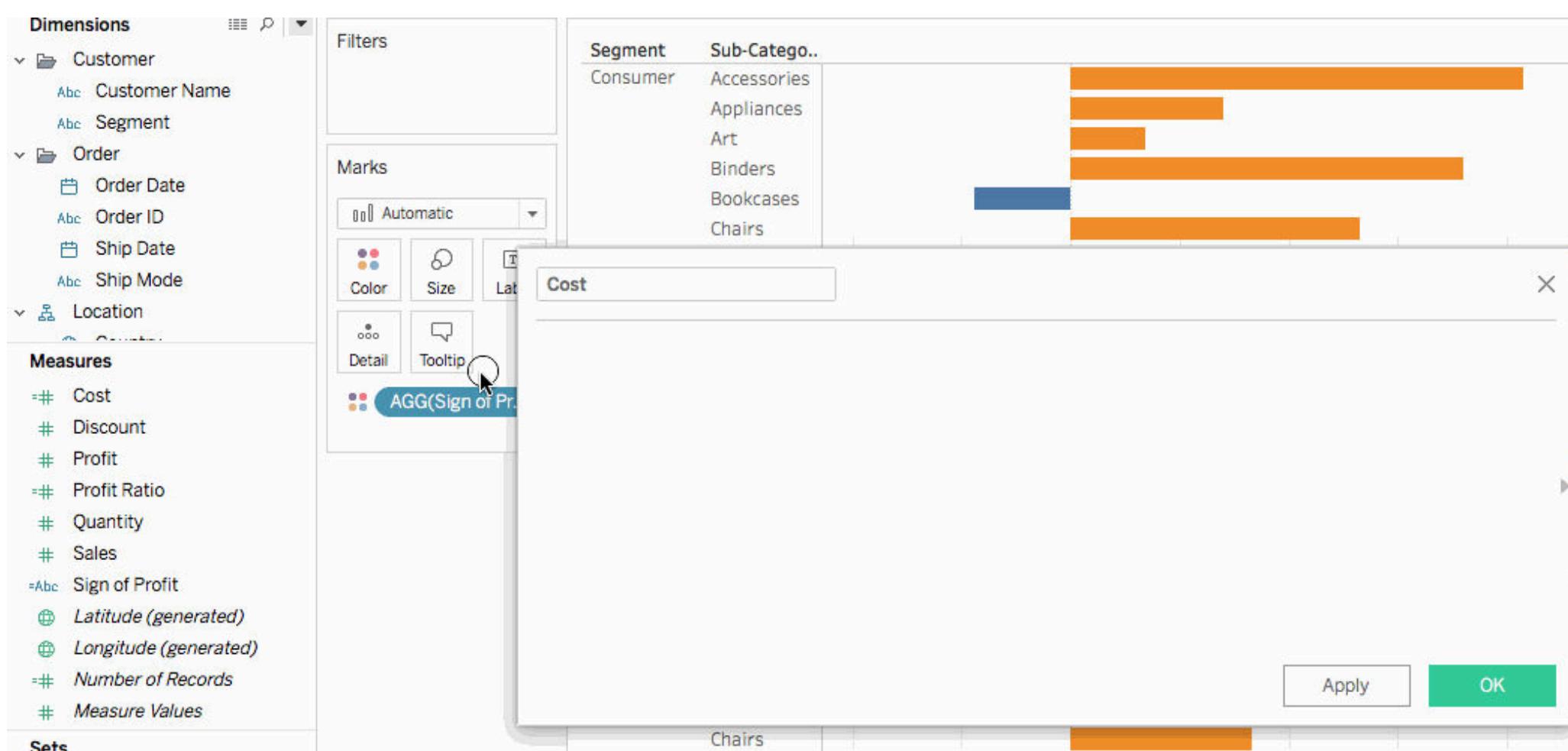
- Air Quality Data: A dataset containing air quality measurements for data cleaning and preparation practice.



# 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.



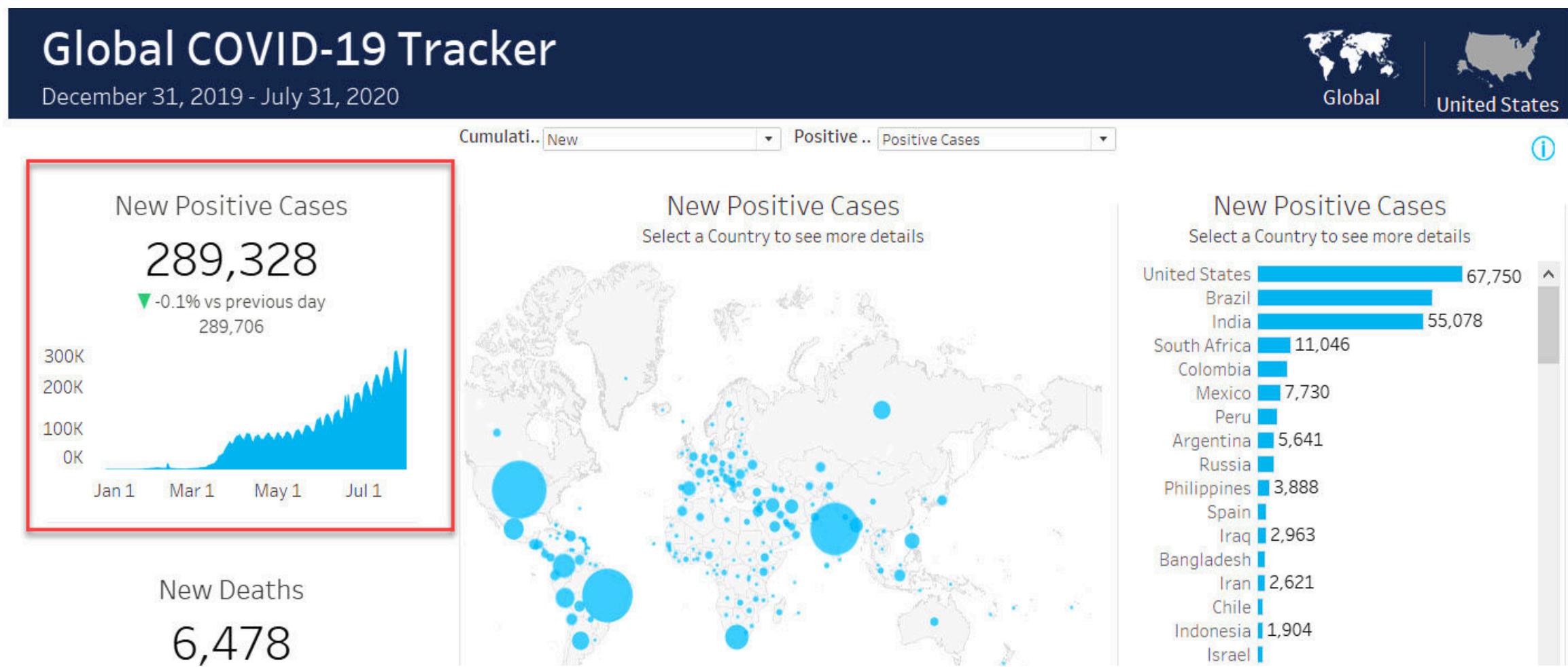
## Datasets

- 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



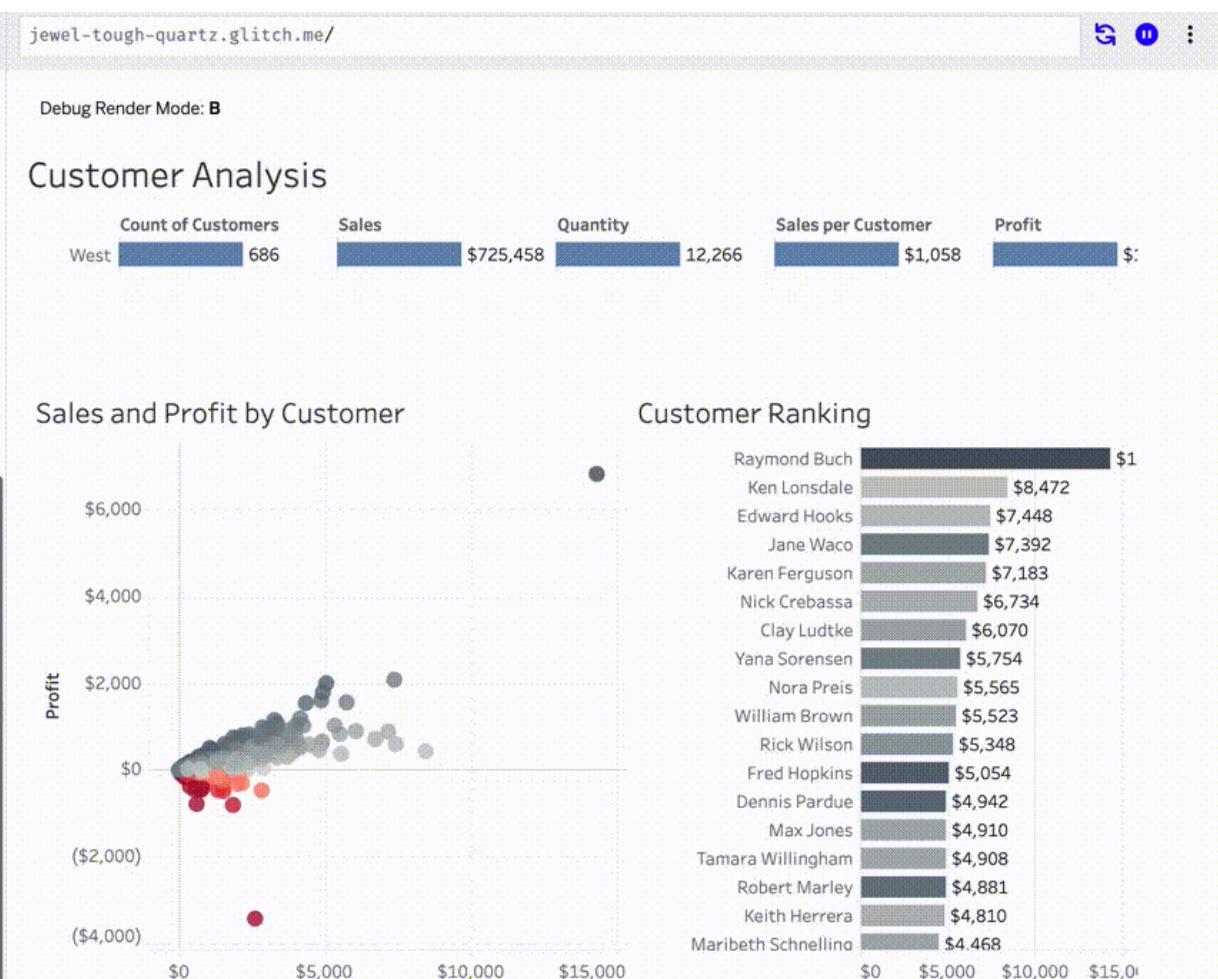
# Aim for the Day

# Working with Big Data in Tableau

```
index.html PRETTIER

31      };
32
33      const signedToken = getJwt();
34
35      const tokenTextArea = document.getElementById("token");
36      tokenTextArea.value = signedToken;
37
38      const viz = document.getElementById("tableauViz");
39      viz.token = signedToken;
40      viz.src = config.workbookUrl;
41
42      function getJwt() {
43          const header = {
44              alg: "HS256",
45              typ: "JWT",
46              kid: config.connectedApp.secretId,
47              iss: config.connectedApp.clientId,
48          };
49
50          const data = {
51              jti: uuidv4(),
52              iss: config.connectedApp.clientId,
53              aud: "tableau",
54              sub: config.username,
55              scp: config.scopes,
56              iat: Math.floor(Date.now() / 1000) - 5,
57              exp: Math.floor(Date.now() / 1000) + 5 * 60,
58              Region: "West",
59          };
60
61          const headerTextArea = document.getElementById("header");
62          headerTextArea.value = JSON.stringify(header, null, 2);
63
64          const dataTextArea = document.getElementById("data");
65          dataTextArea.value = JSON.stringify(data, null, 2);
66
67          const encodedHeader = base64url(CryptoJS.enc.Utf8.parse(JSON.stringify(header)));
68          const encodedData = base64url(CryptoJS.enc.Utf8.parse(JSON.stringify(data)));
69
70      }

```



# Resources for Learning

- Tableau Online Help: Connect to Big Data
  - Tableau Blog: Working with Big Data in Tableau



created by BossCoder Academy



## 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

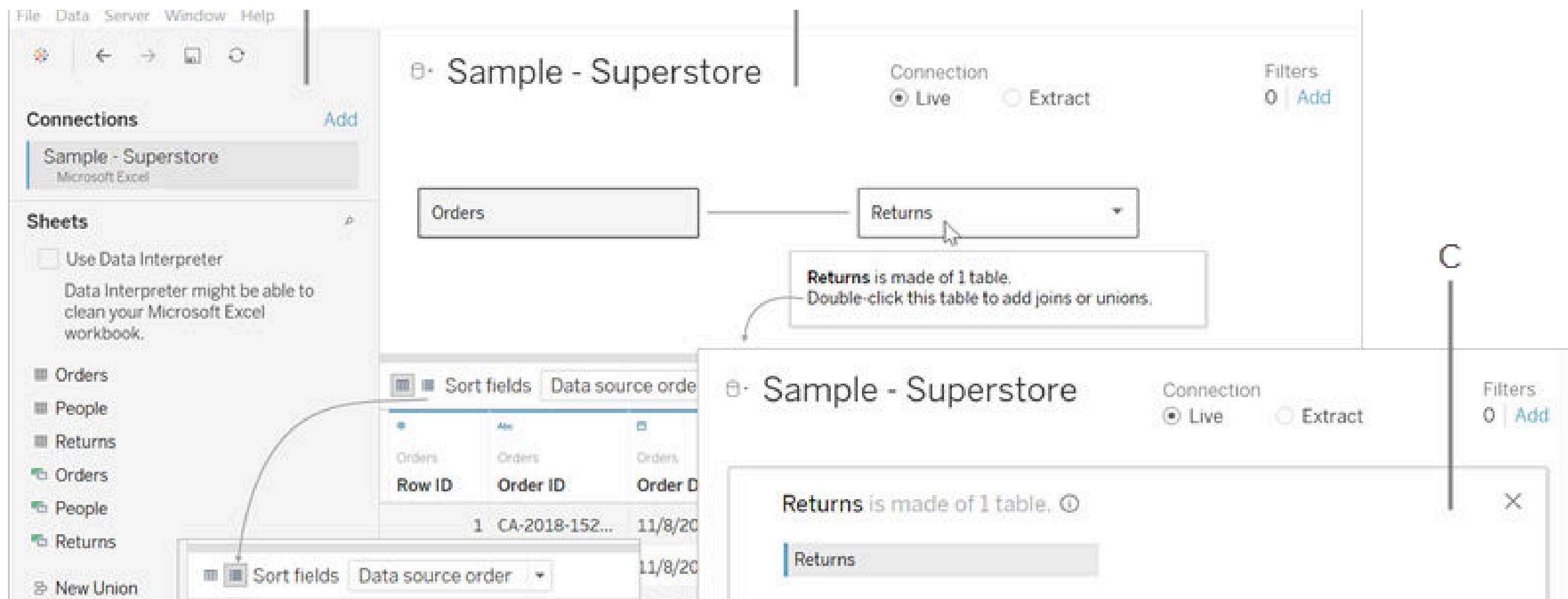
- NYC Taxi Trip Data: A large dataset of NYC taxi trips, useful for practicing big data handling in Tableau.



# DAY 23

## Aim for the Day

# Advanced Data Source Connections



## 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

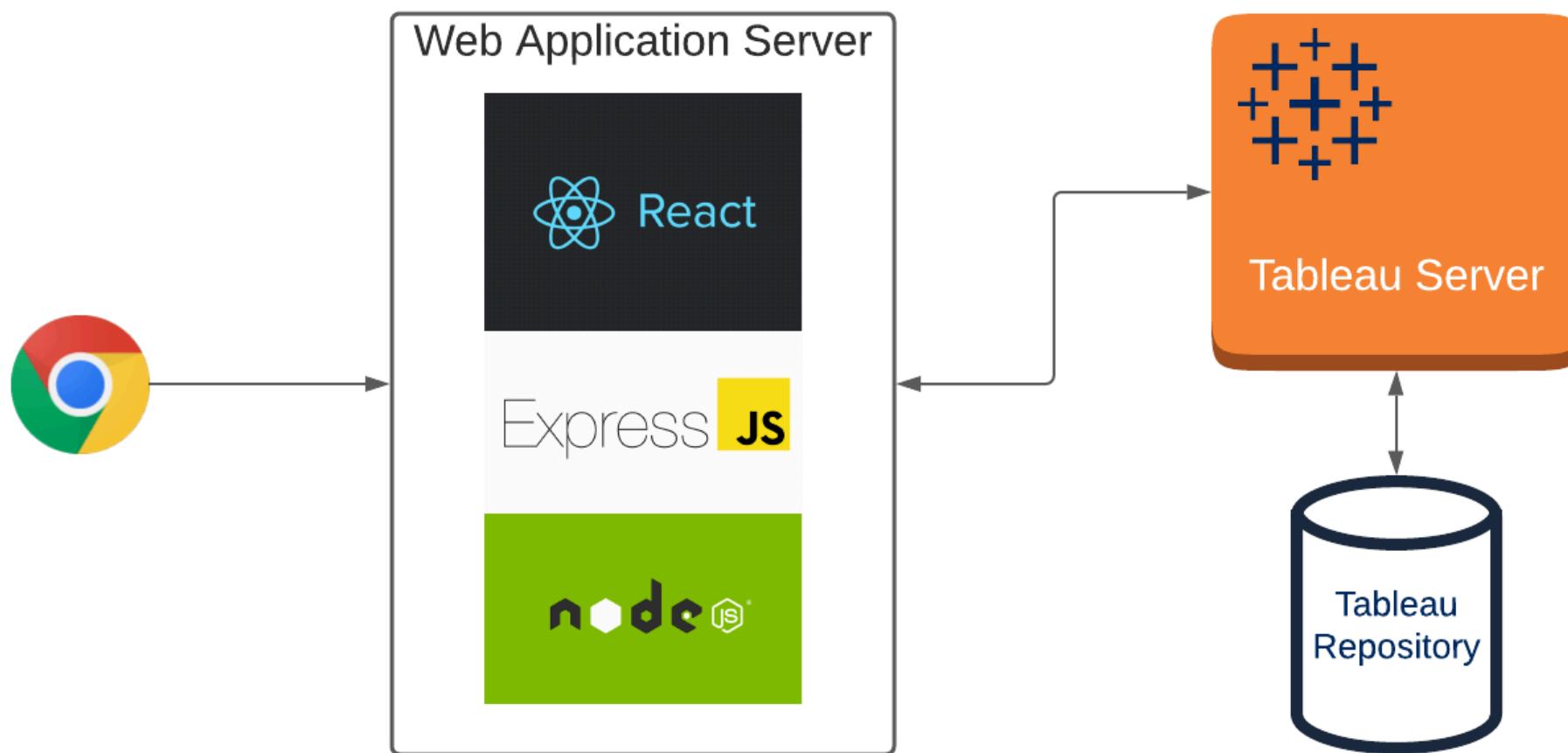
- NYC Taxi Trip Data: A large dataset of NYC taxi trips, useful for practicing big data handling in Tableau.



# 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

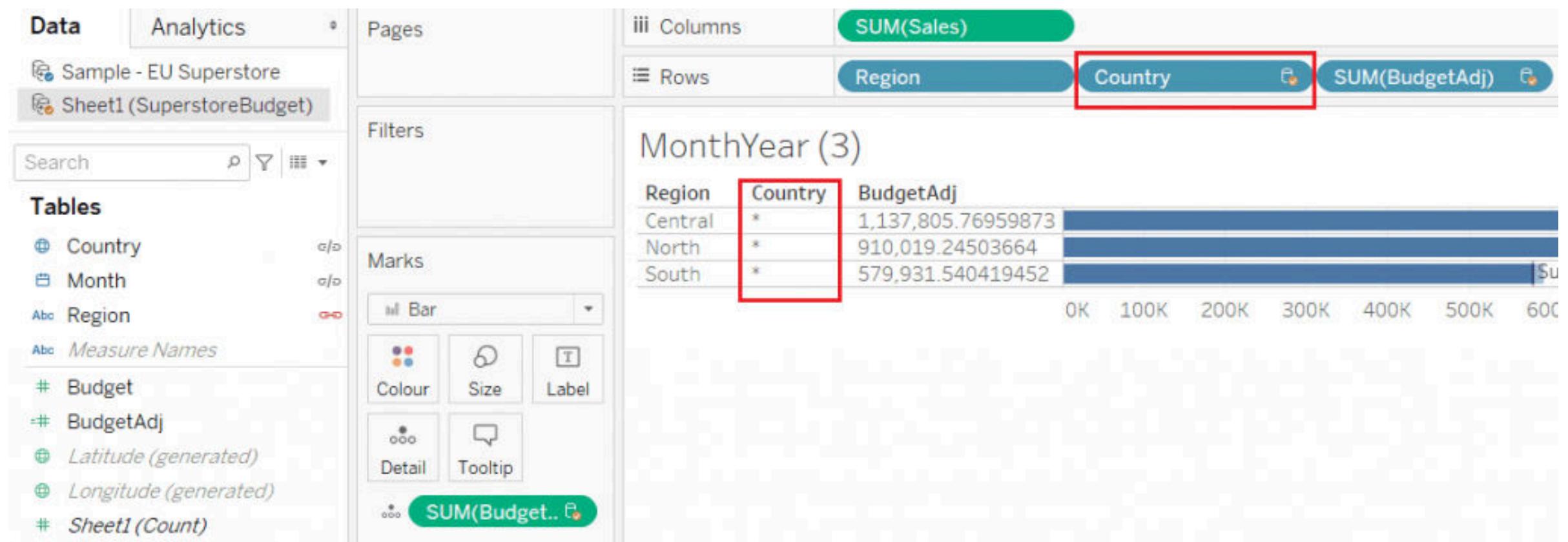
- E-commerce Customer Data: A dataset containing e-commerce customer information, suitable for integrating Tableau with external analytics tools like R or Python.



# 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

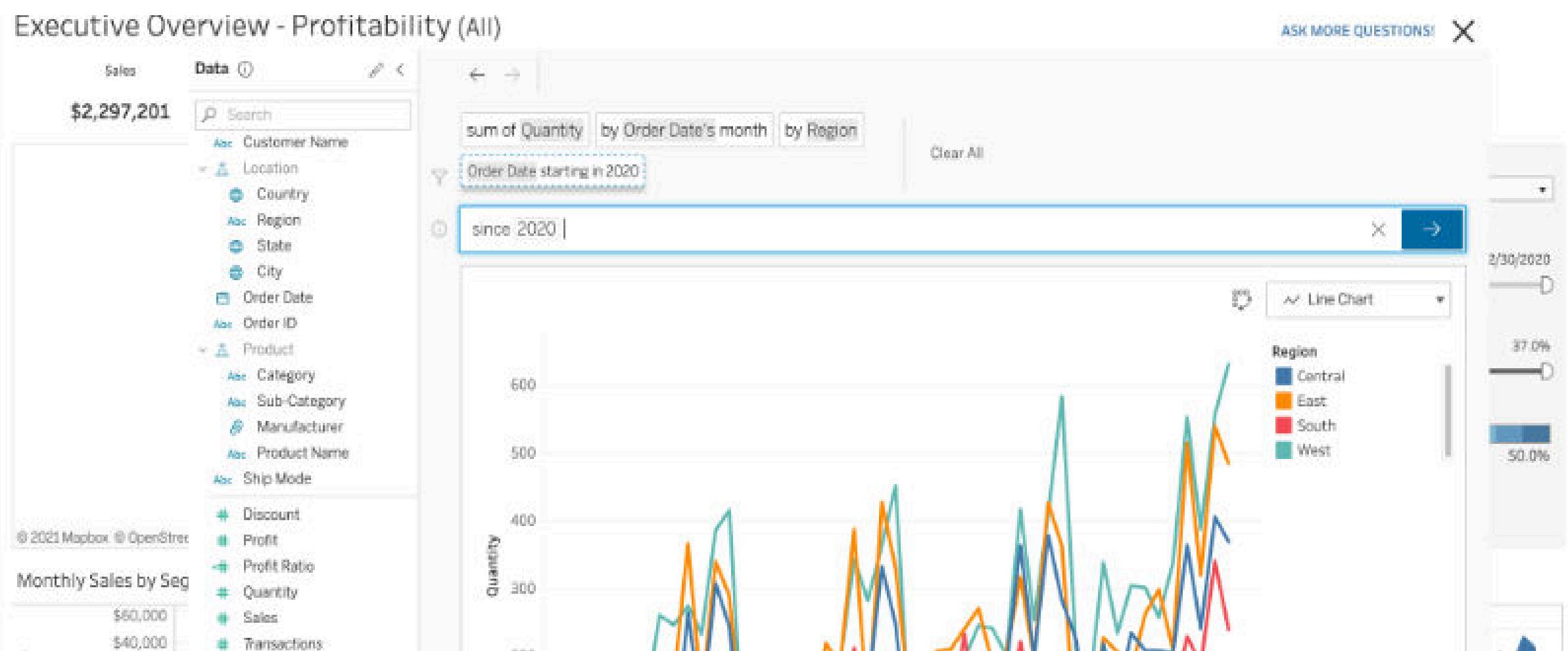
- MovieLens Dataset: Movie ratings data for practicing advanced data blending techniques.



# 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

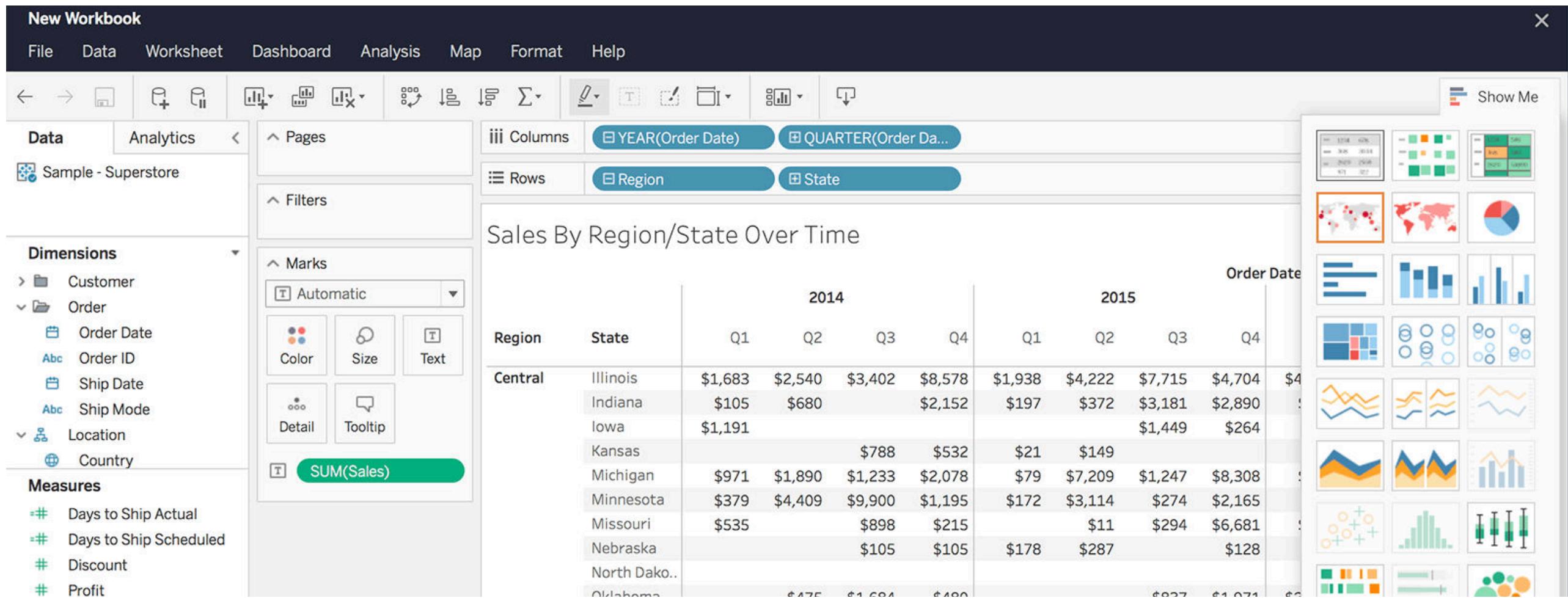
- Credit Card Fraud Detection: A dataset for fraud detection, perfect for integrating machine learning models into Tableau.



# 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 with a dashboard titled "Executive Overview - Profitability". The dashboard includes the following data:

Total Sales	Total Profit	Profit Ratio
\$2,297,201	\$286,397	12.5%

Filters on the left include:

- Order Date: 1/4/2011 to 12/31/2014
- Region: (All)
- State: (All)

On the right, there is an "Embed Code" section with a yellow background containing a script tag:

```
<script type='text/javascript' src='http://...>
```

There is also a "Link" section with a URL:

http://localhost/views/Superstore/Over...

A green "Email Link" button is present next to a map visualization.

📁 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.



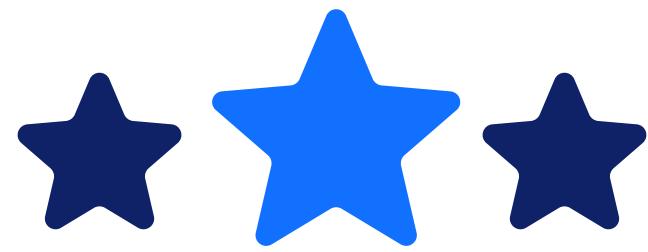
## ❓ Practice Questions

- 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 .  
 Google



[EXPLORE MORE](#)