



Project

A Comprehensive Analysis of Financial Performance: Insights from a Leading Banks



**Smart
Internz**

Dear Student,

Greetings from SmartBridge,

Your team has successfully enrolled for the project. Please find the team details below

Team ID : NM2023TMID06046

Team Size : 4

Team Leader : USHADEVI K

Team member : PRABAVATHI K

Team member : MONIKA S

Team member : VENIKA P

Regards,
Team SmartBridge

≡ Introduction To Business Intelligence

It is the science of collecting and processing data, Collecting and refining information from many sources (internal and external). Analyzing and presenting the information in useful ways (dashboards, visualizations)so, that people can make better decisions.



Quiz



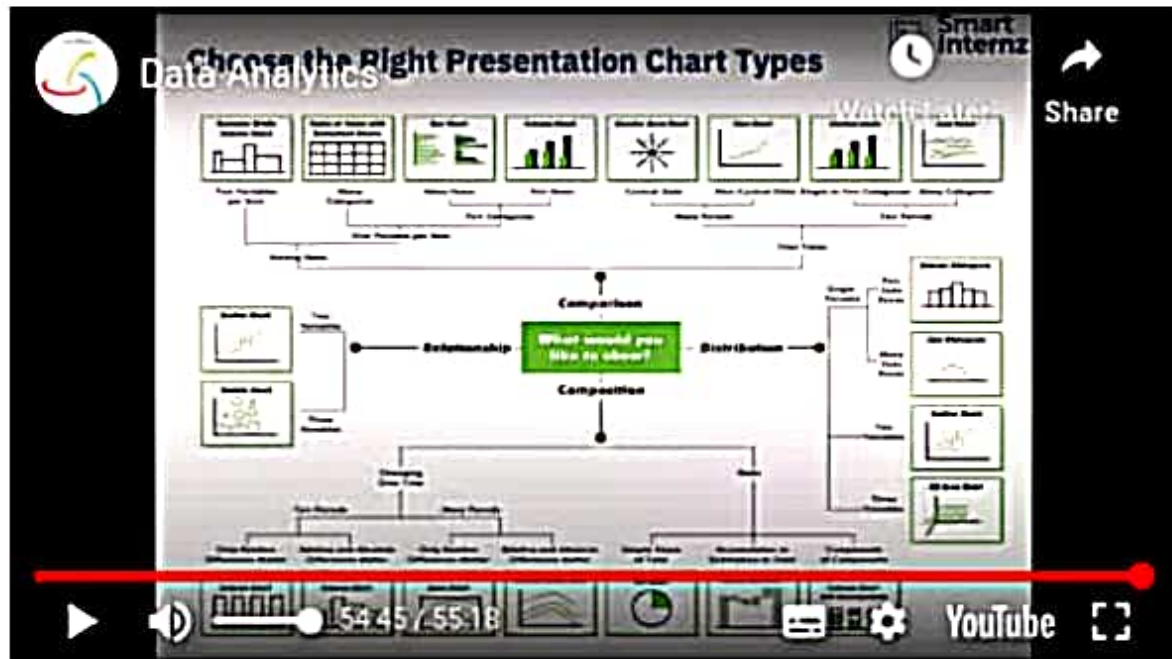
You scored 3 / 3 (100%)

Retake Quiz

Complete and Continue >

≡ Data Analytics

Data analytics converts raw data into actionable insights. It includes a range of tools, technologies, and processes used to find trends and solve problems by using data. Data analytics can shape business processes, improve decision-making, and foster business growth.



Quiz



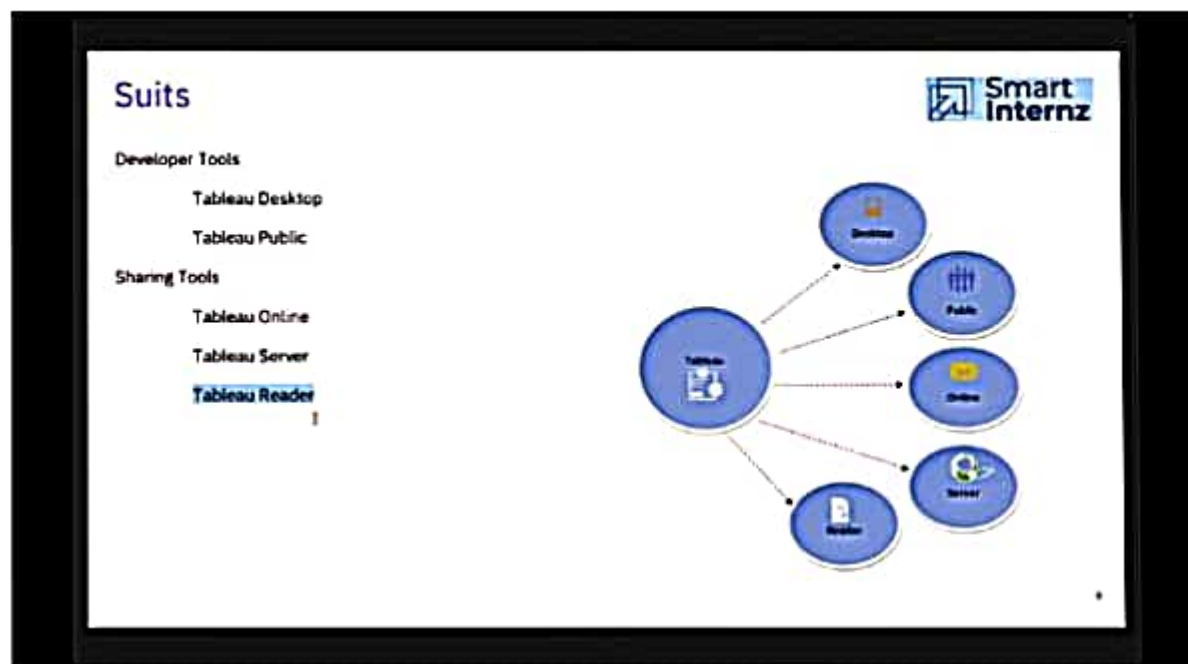
You scored 3 / 3 (100%)

Retake Quiz

Complete and Continue >

✕ Introduction to Tableau

Tableau is a visual analytics platform transforming the way we use data to solve problems empowering people and organizations to make the most of their data. It allows for instantaneous insight by transforming data into interactive data visualizations called dashboards



Quiz



You scored 3 / 3 (100%)

[Retake Quiz](#)

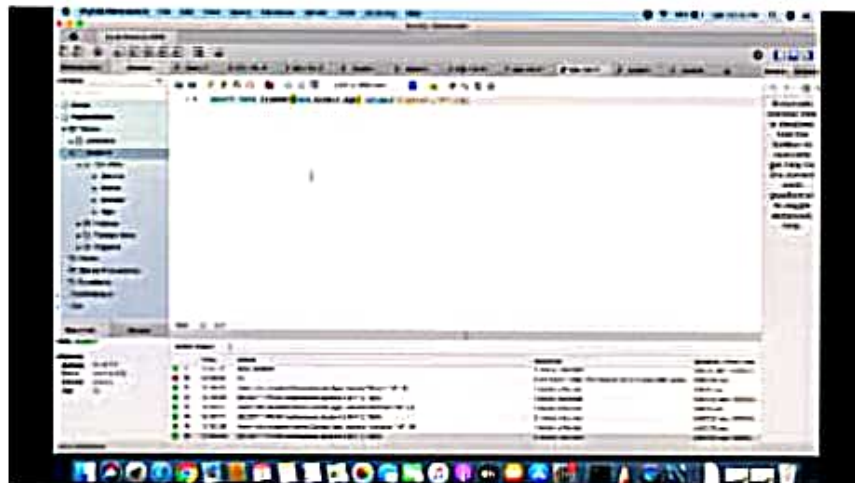
[Complete and Continue >](#)

✂ Data Base 1 My SQL Bench

MySQL Bench is a free and open-source visual database design tool that allows users to create, modify, and manage MySQL databases in a user-friendly way.

Some of the key features of MySQL Bench include:

- 1) Visual database design
- 2) Visual database design
- 3) Visual database design
- 4) Database administration
- 5) Performance monitoring
- 6) Cross-platform compatibility



Quiz



You scored 3 / 3 (100%)

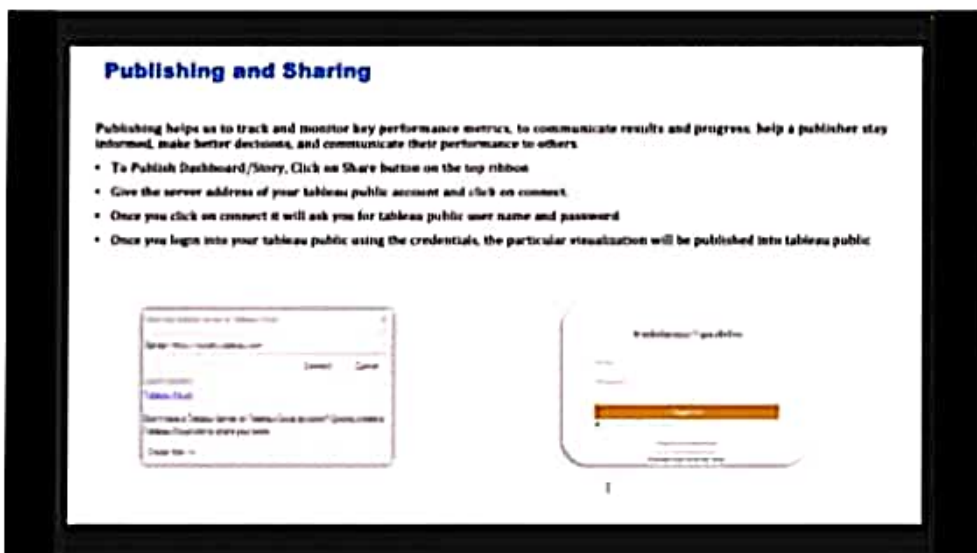
Retake Quiz

Complete and Continue >

≡ Architecture For Tableau

Tableau is a data visualization and business intelligence software that enables users to analyze and present data in a meaningful way. The architecture of Tableau can be divided into four main components:

- 1) Data Sources
- 2) Tableau Desktop
- 3) Tableau Server
- 4) Tableau Online



Quiz



You scored 2 / 2 (100%)

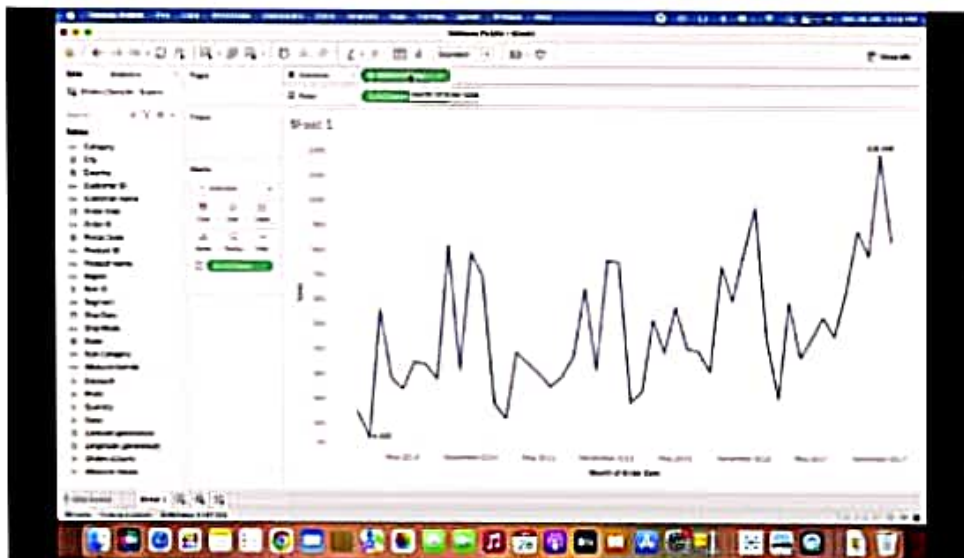
Retake Quiz

Complete and Continue >

✕ Data visualization 1

Basic types of visualization in tableau

- 1) Bar charts .
- 2) Line charts
- 3) Scatter plots
- 4) Heat maps
- 5) Area charts.
- 6) Pie charts
- 7) Tree maps
- 8) Gantt charts
- 9) Box plots
- 10) Maps.



Quiz



You scored 3 / 3 (100%)

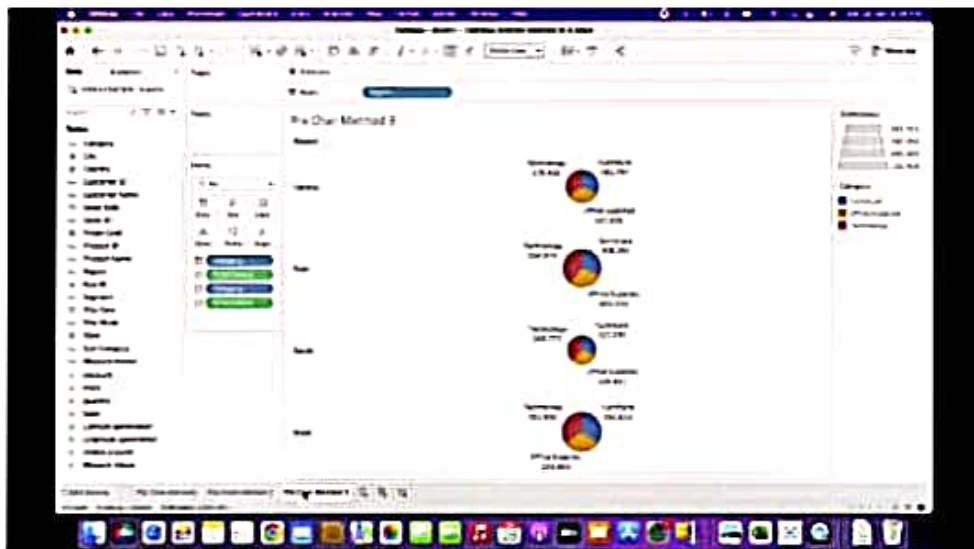
Retake Quiz

Complete and Continue >

☒ Data Visualization 2

Basic types of visualization in tableau

- 1) Bar charts .
- 2) Line charts
- 3) Scatter plots
- 4) Heat maps
- 5) Area charts
- 6) Pie charts
- 7) Tree maps
- 8) Gantt charts
- 9) Box plots
- 10) Maps.



Quiz



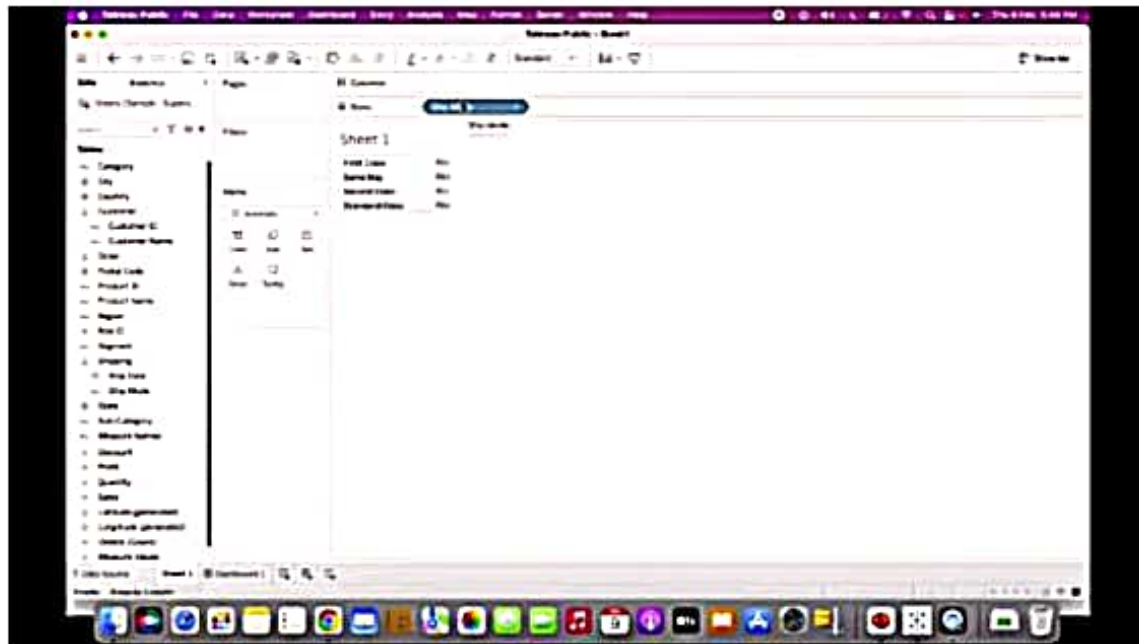
You scored 3 / 3 (100%)

Retake Quiz

Complete and Continue >

≠ Working with Meta data and Data blending - 1

Working with metadata and data blending in Tableau can help you create more accurate and meaningful visualizations. Metadata is data about your data, such as field names, descriptions, and data types, while data blending is the process of combining data from multiple sources in a single visualization.



Quiz



You scored 3 / 3 (100%)

Retake Quiz

Complete and Continue >

Working with Metadata and Data blending - 2

Working with metadata and data blending in Tableau can help you create more accurate and meaningful visualizations. Metadata is data about your data, such as field names, descriptions, and data types, while data blending is the process of combining data from multiple sources in a single visualization.



Quiz



You scored 3 / 3 (100%)

Retake Quiz

Complete and Continue >

✂ Advance Data Manipulations

Tableau is a powerful data visualization tool that also offers advanced data manipulation capabilities. Here are some examples of advanced data manipulations that can be performed in Tableau:

Pivot data

Split data

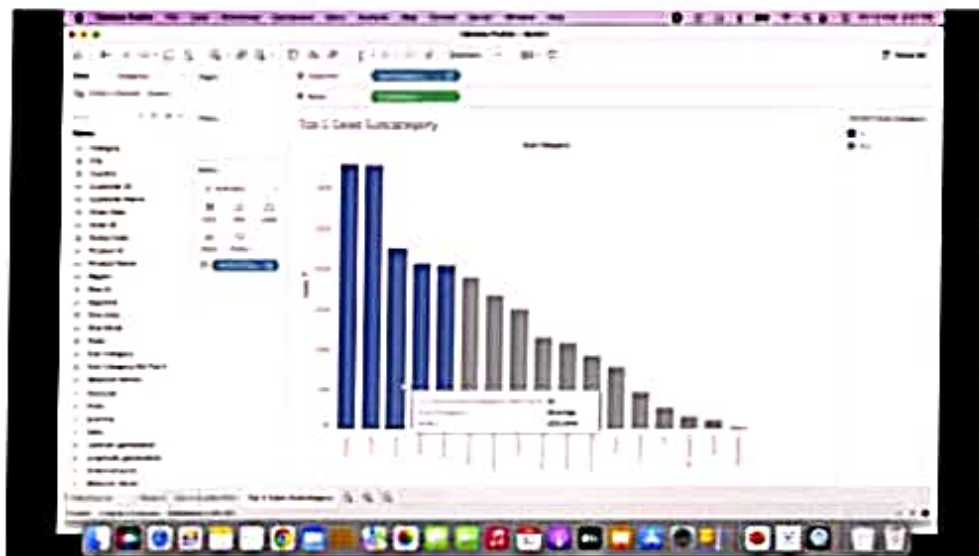
Create calculated fields

Blend data

Apply filters

Group data

Use parameters



Quiz



You scored 3 / 3 (100%)

Retake Quiz

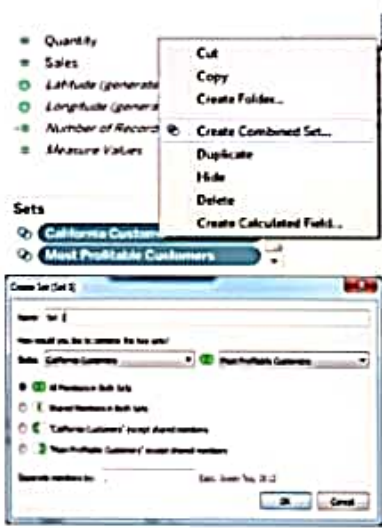
Complete and Continue >

≡ Dynamic Combined Set

A dynamic combined set in Tableau is a set that is created based on the current selection in a visualization. Unlike a static set, which is defined by a fixed set of criteria, a dynamic combined set is created by combining two or more sets based on the current selection in a visualization. This allows for more flexible and interactive analysis in Tableau.

Combined sets

- First create two sets
- Once both sets are created, hold the **CTRL** button and select them both in the **Sets** section of the **Data pane**
- Right-click and select **Combine Sets**.



Smart Internz

Quiz



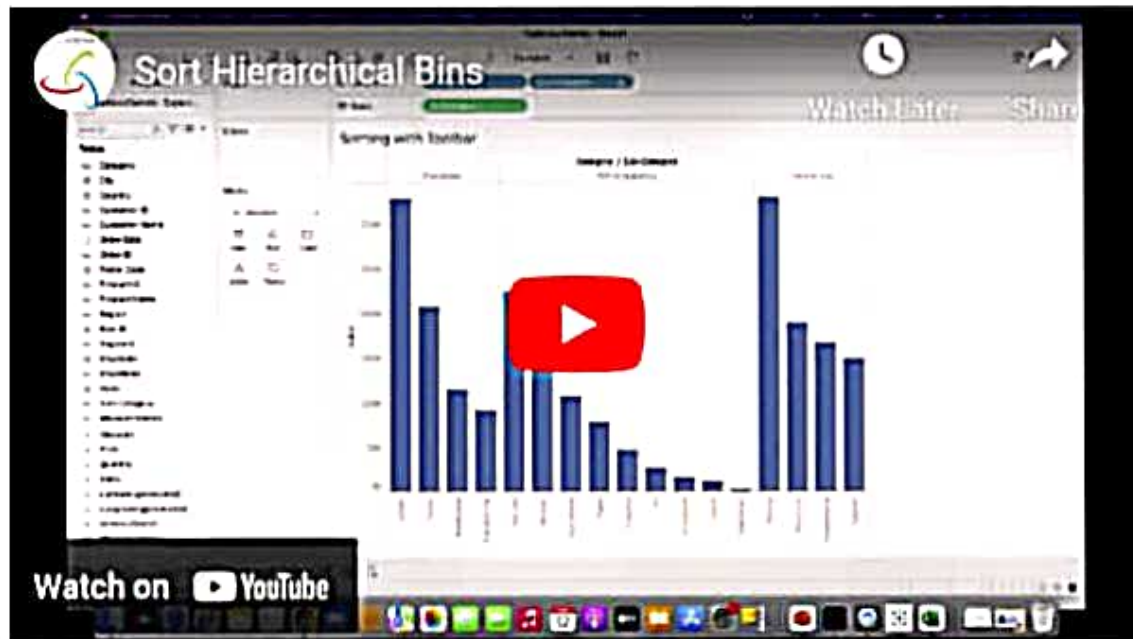
You scored 3 / 3 (100%)

Retake Quiz

Complete and Continue >

✕ Sort Hierarchical Bins

Sorting hierarchical bins in Tableau can be useful when you want to sort a field based on a hierarchy of bins. A hierarchy of bins is a way of grouping values into bins or categories based on their values. For example, you might group customers into different age ranges, or group sales data into different revenue ranges.



Quiz



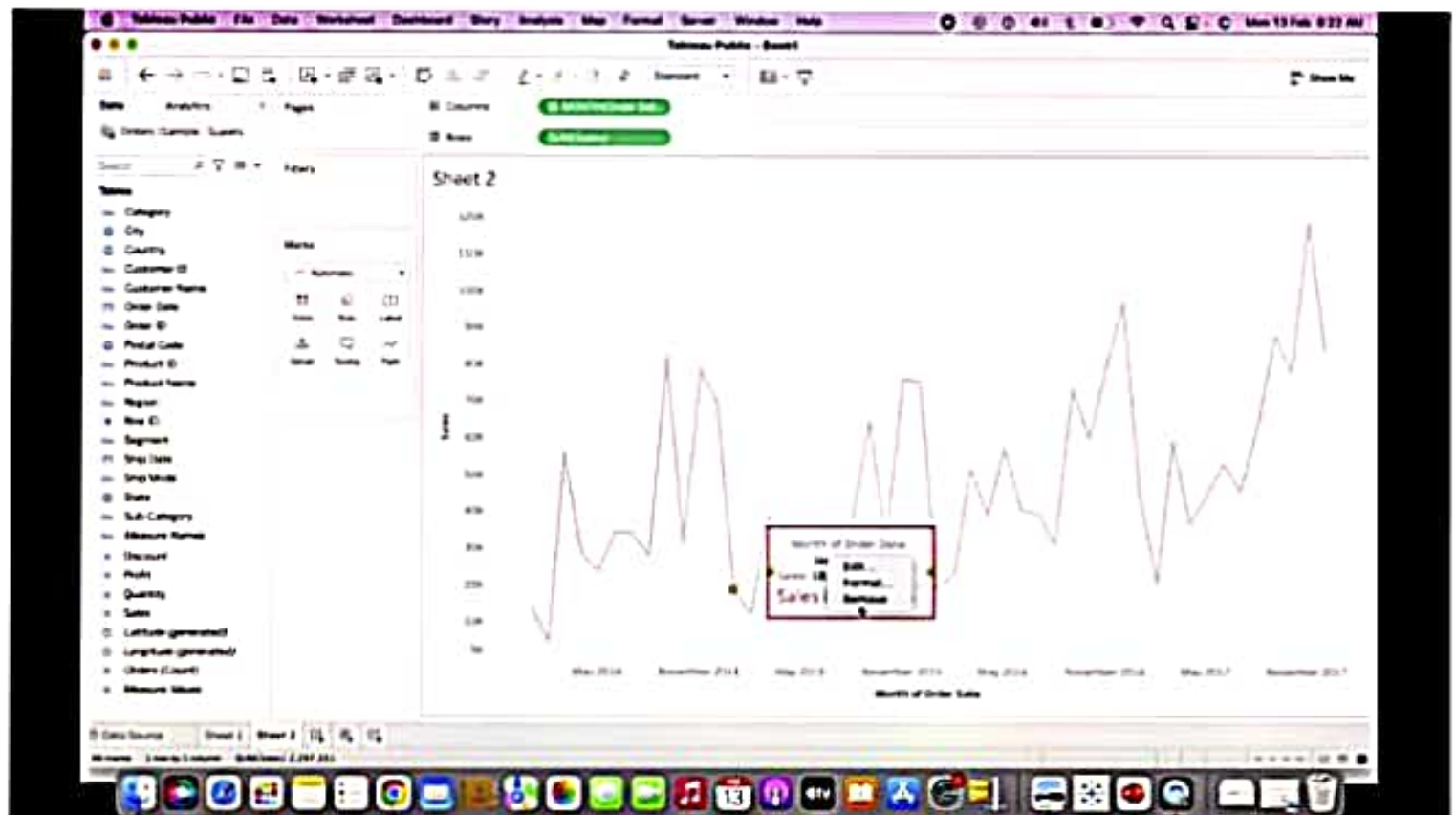
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Retake Quiz

Complete and Continue >

≡ Format Axis And Annotations - 2

Formatting axes and annotations in Tableau is an important step in creating clear and effective visualizations. Axes provide context for your data, while annotations help to explain the significance of specific data points or trends



Complete and Continue >

Clustering

Clustering in Tableau is a powerful analytical technique that allows you to group similar data points together based on their similarities. Clustering can be useful for identifying patterns in your data, identifying outliers, and segmenting your data for further analysis.



Quiz



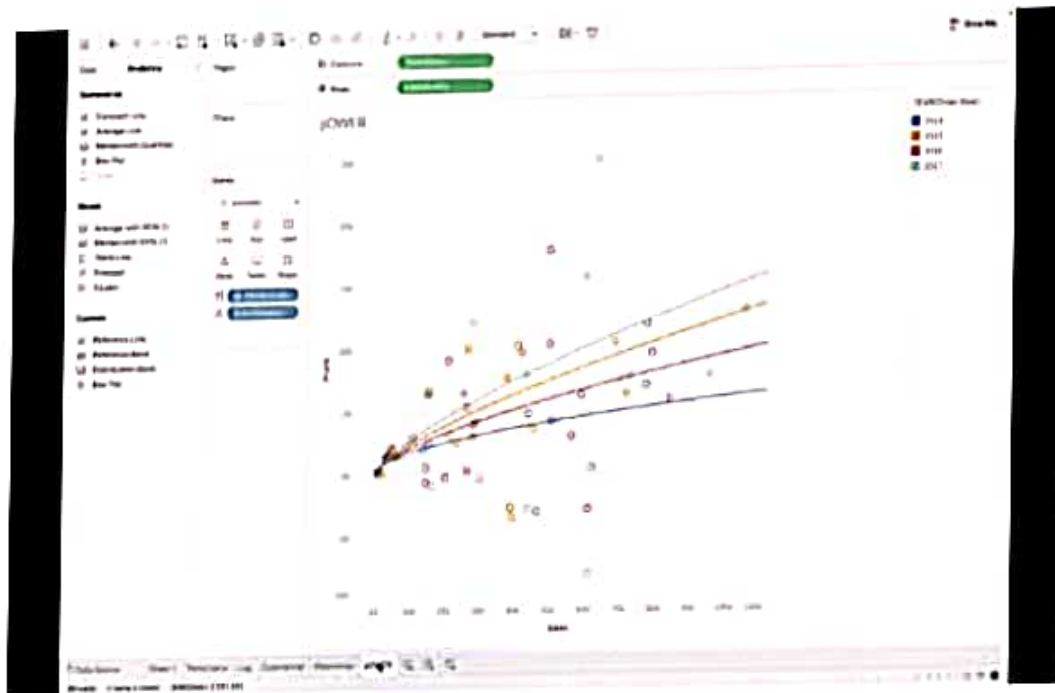
You scored 3 / 3 (100%)

Retake Quiz

Complete and Continue >

Forecasting Trend

Forecasting trend in Tableau is a useful feature that allows you to predict future trends in your data. This can be helpful for making business decisions, planning budgets, and anticipating changes in the market.



Quiz



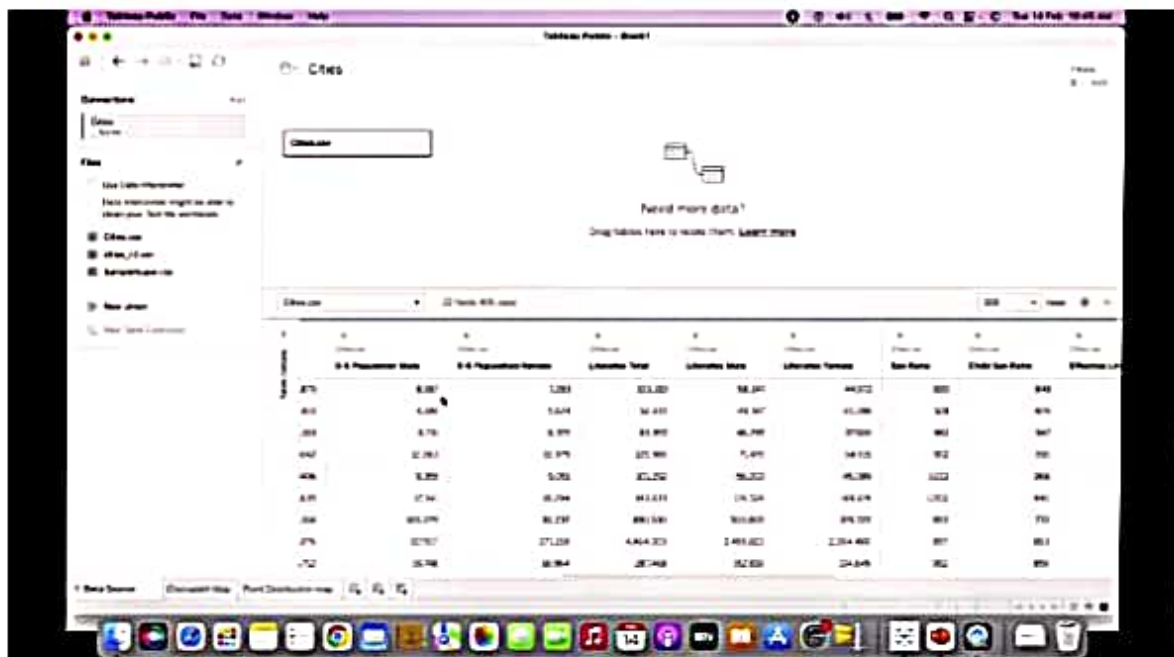
You scored 3 / 3 (100%)

Retake Quiz

Complete and Continue >

🔗 Maps in Tableau

You'll learn how to connect to and join geographic data; format that data in Tableau; create location hierarchies; build and present a basic map view; and apply key mapping features along the way.



Quiz



You scored 3 / 3 (100%)

Retake Quiz

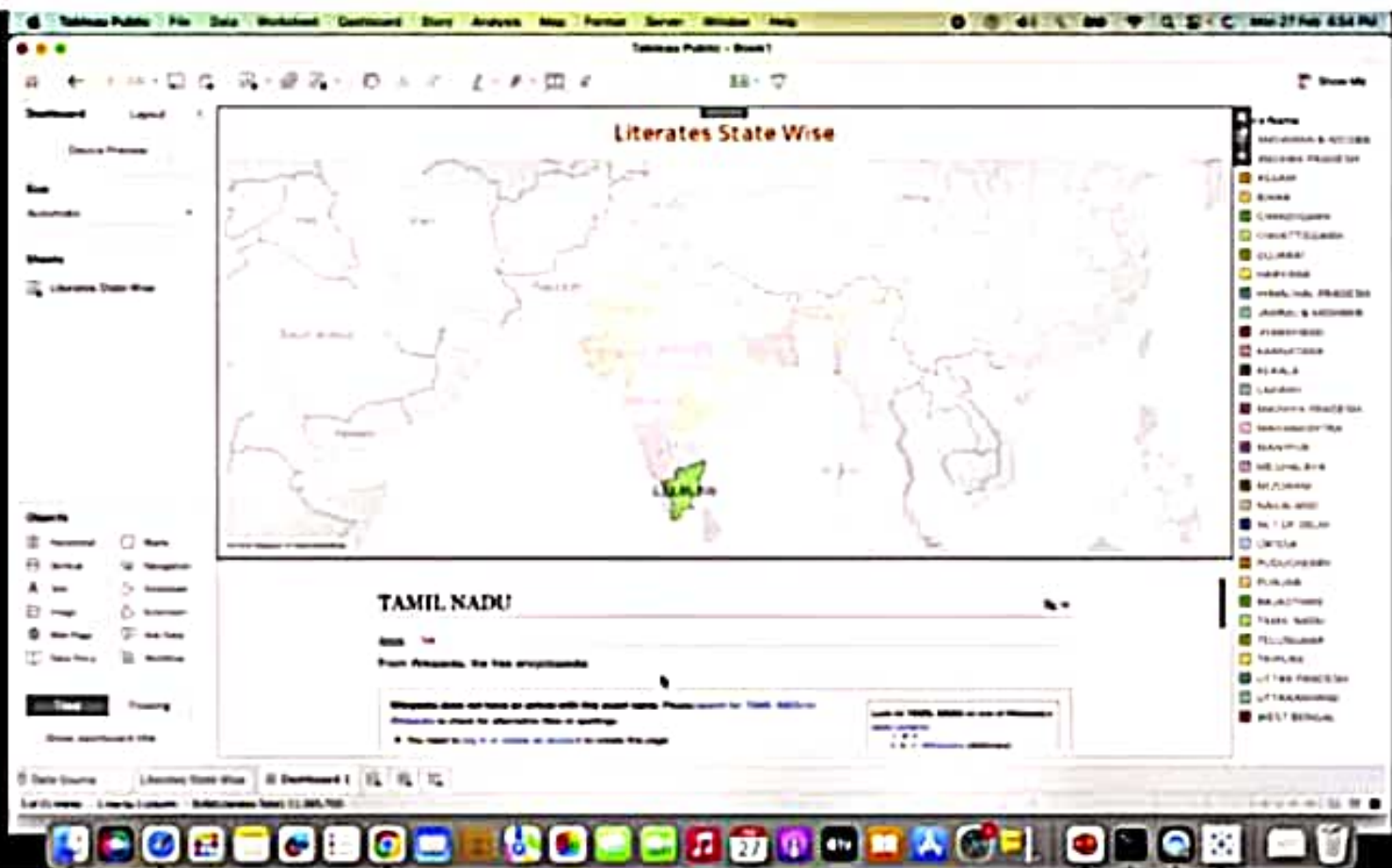
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<> Parameter



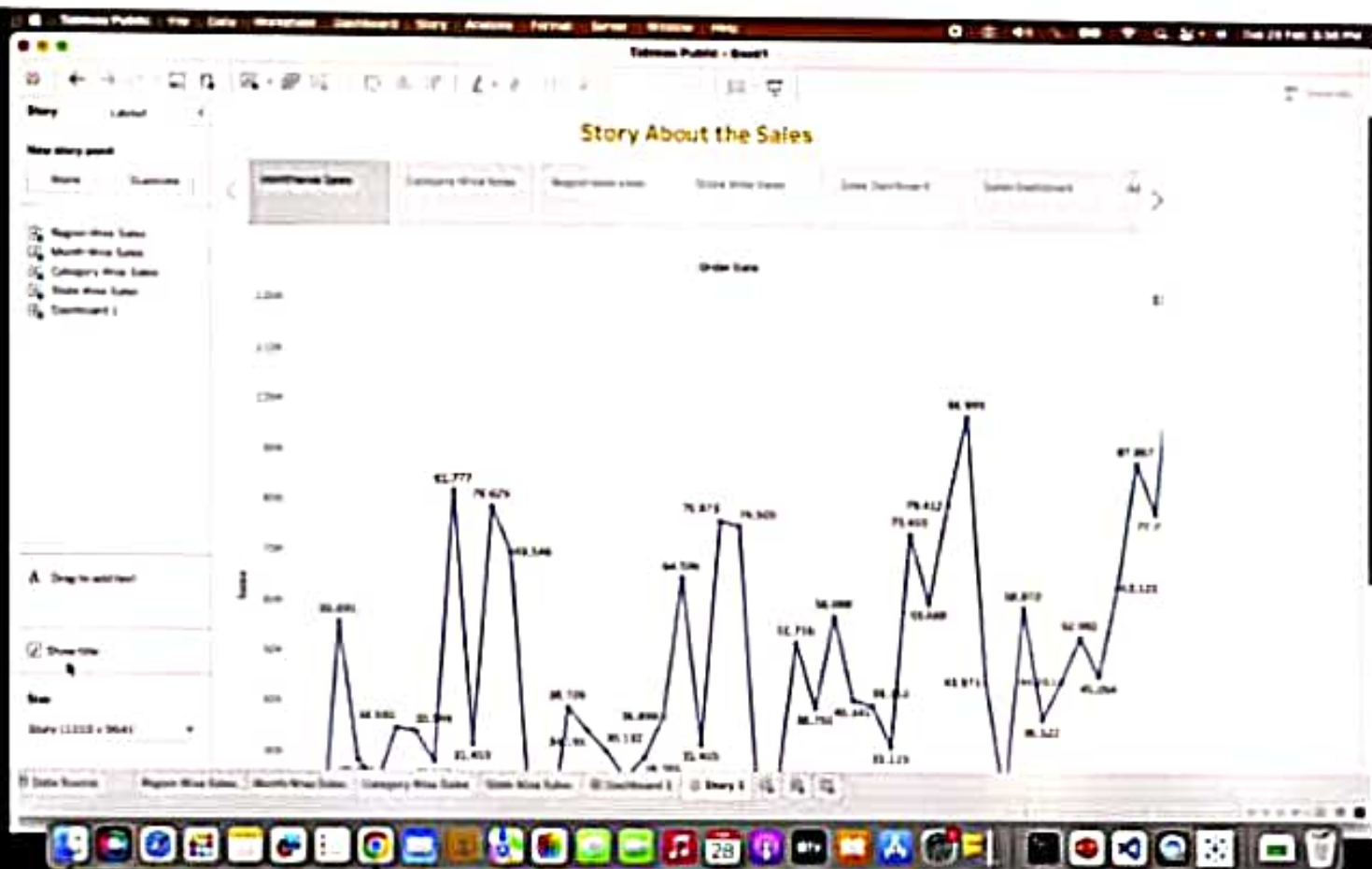
Complete and Continue >

<> DashBoard



Complete and Continue >

> Stories



Complete and Continue >

Flask

Run the App



- Open anaconda prompt, navigate to the file location
- Type `python app.py` – `app.py` the flask application name.
- Then it will run on `localhost:5000`
- Once you run the application it will navigate to the localhost where you can view your web page.

11

Complete and Continue >

Data Analytics

Sheet1 (top50banks201...

Search

Tables

Balance Sheet

Country, Bank

Country

Abc Bank

Measure Names

Rank

Total Assets Us B

Latitude (generated)

Longitude (generated)

Sheet1 (Count)

Measure Values

Pages

Filters

Bank

Marks

All

Multiple

Color Size Label

Detail Tooltip

Bank

SUM(Total Ass...

SUM(Total Ass...

Columns

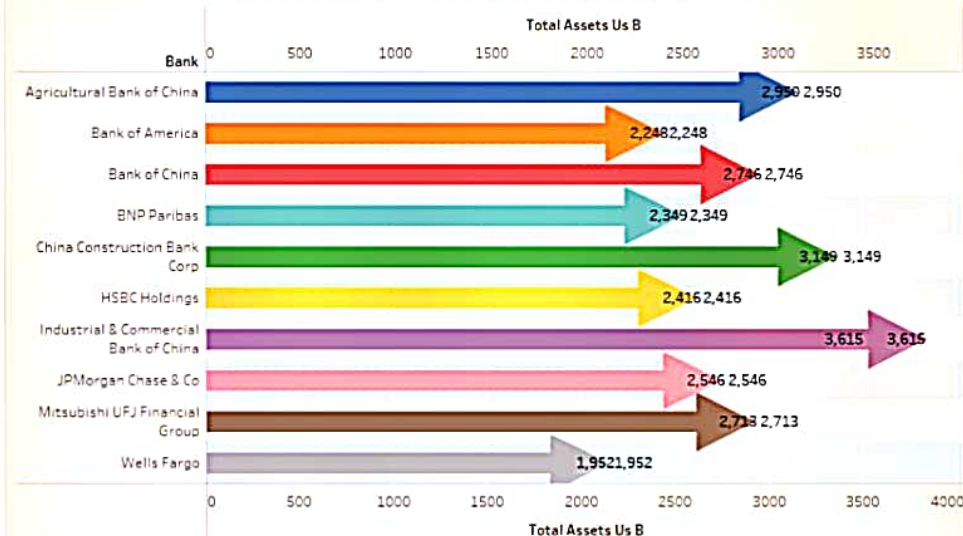
SUM(Total Assets Us...

SUM(Total Assets Us...

Rows

Bank

TOP BANKS ACCORDING TO TOTAL ASSETS



Bank

Agricultural Bank of ..

Bank of America

Bank of China

BNP Paribas

China Construction B...

HSBC Holdings

Industrial & Commer...

JPMorgan Chase & Co

Mitsubishi UFJ Finan...

Wells Fargo

Data Source

Sheet 1

Sheet 2

Sheet 3

Sheet 4

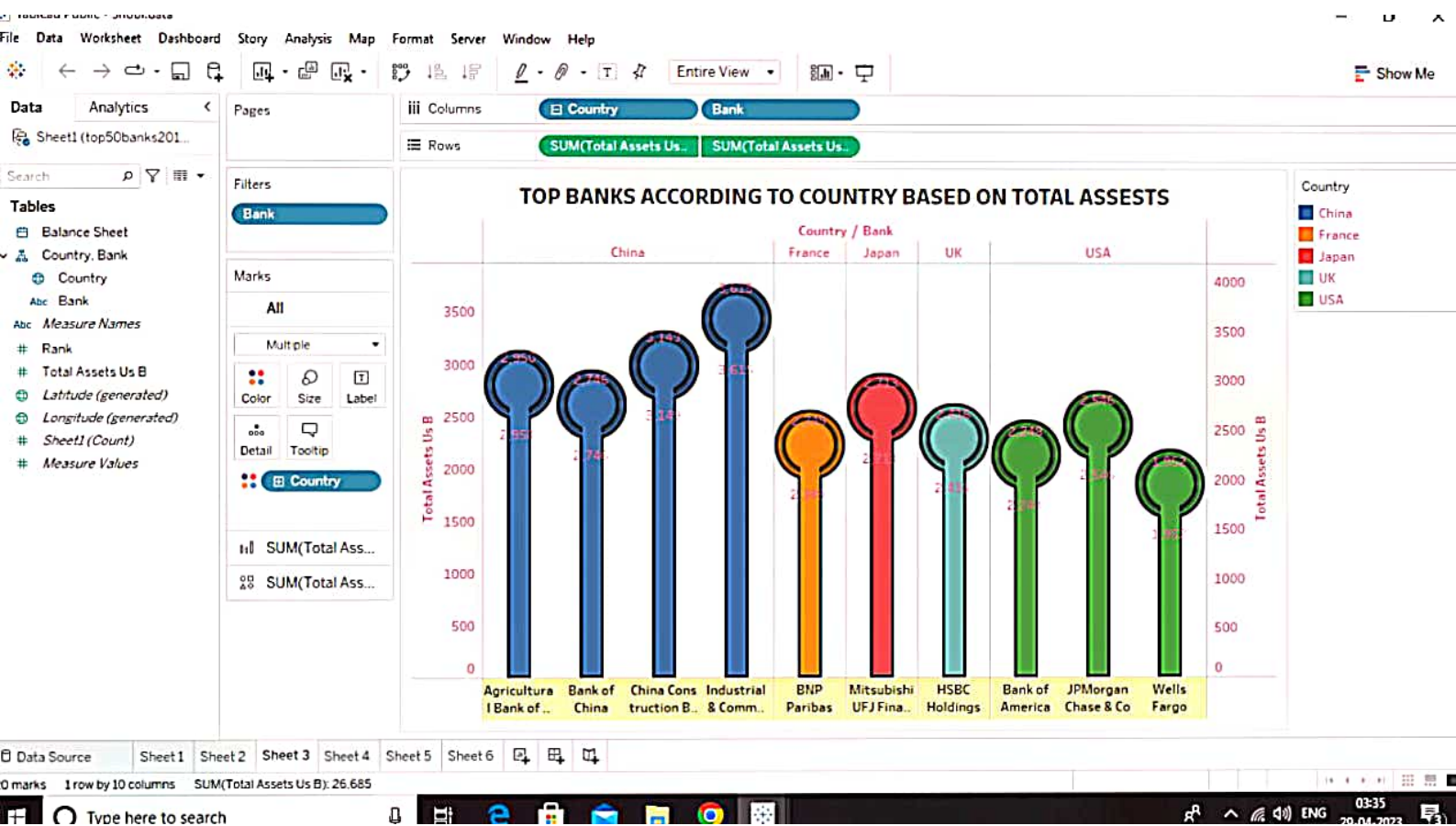
Sheet 5

Sheet 6

0 marks 10 rows by 1 column SUM(Total Assets Us B): 26,685

Type here to search

03:35



Data Analytics
Sheet1 (top50banks201...

Search

Tables

Balance Sheet
Country, Bank
Country
Bank
Measure Names
Rank
Total Assets Us B
Latitude (generated)
Longitude (generated)
Sheet1 (Count)
Measure Values

Pages

Filters

Marks

All

Pie

Color Size Label
Detail Tooltip Angle

SUM(Total Ass..

SUM(Total Ass..

Multiple fields

AGG(AVG(0.0))

AGG(AVG(0.0))

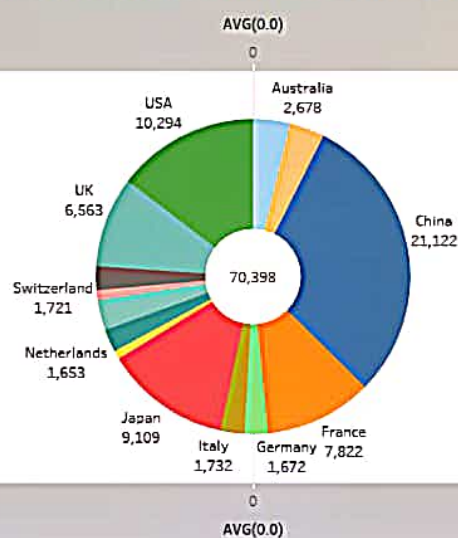
Columns

AGG(AVG(0.0))

AGG(AVG(0.0))

Rows

TOP 10 COUNTRIES WITH ASSETS PROPORTION



Country

Australia
Canada
China
France
Germany
Italy
Japan
Luxembourg
Netherlands
Spain
Sweden
Switzerland
UK
USA

SUM(Total Assets Us B)

70,398

Data Source Sheet1 Sheet2 Sheet3 Sheet4 Sheet5 Sheet6

5 marks 1 row by 1 column SUM of AGG(AVG(0.0)): 0

Data Analytics

Sheet1 (top50banks201...

Search

Tables

- Balance Sheet
- Country, Bank
- Country
- Bank
- Measure Names
- Rank
- Total Assets Us B
- Latitude (generated)
- Longitude (generated)
- Sheet1 (Count)
- Measure Values

Pages

Columns

Rows

SUM(Total Assets Us..

Filters

Marks

Automatic

Color

Size

Label

Detail

Tooltip

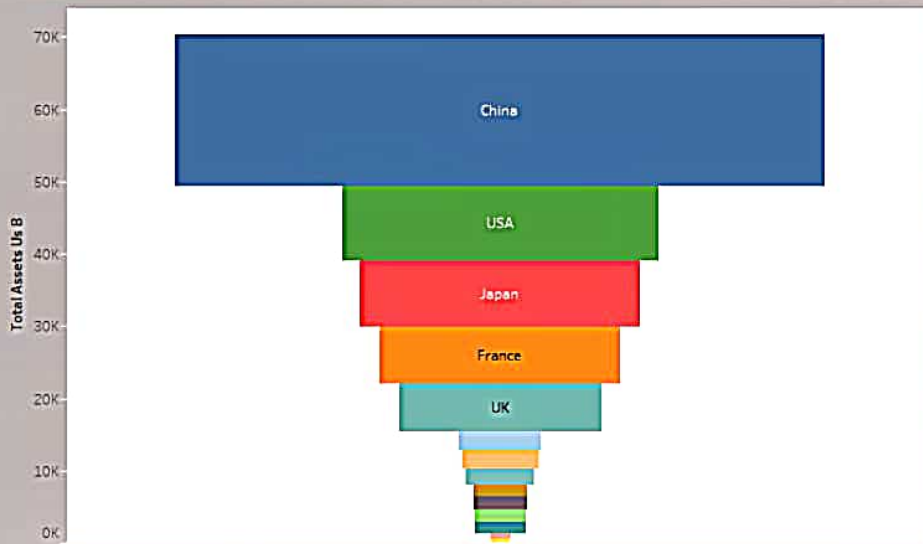
Country

SUM(Total Ass..

Country

Country

COUNTRY WITH TOTAL ASSETS USING FUNNEL CHARTS IN INCREASING ORDER



Country

- China
- USA
- Japan
- France
- UK
- Australia
- Canada
- Spain
- Italy
- Switzerland
- Germany
- Netherlands
- Sweden
- Luxembourg

SUM(Total Assets Us B)

- 613
- 5,000
- 10,000
- 15,000
- 21,122

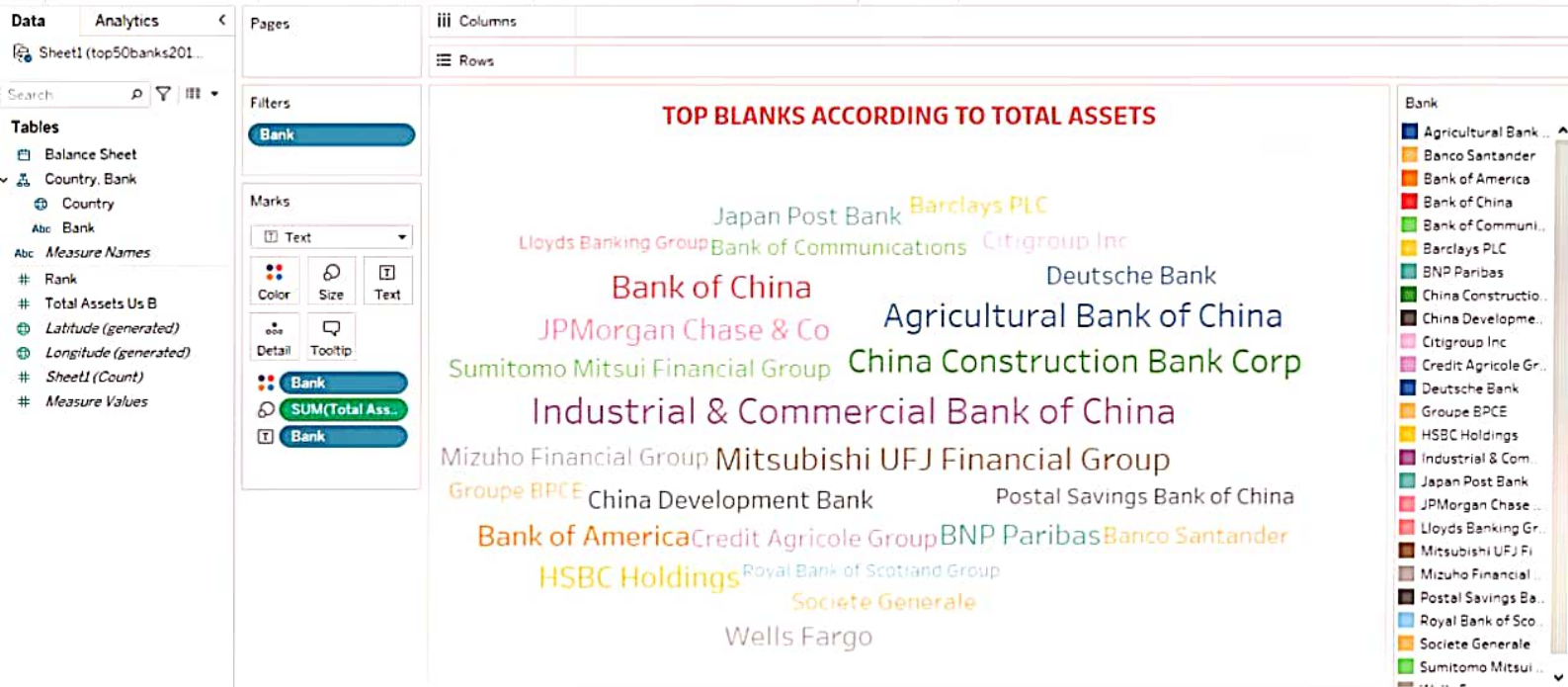
Data Source Sheet1 Sheet2 Sheet3 Sheet4 Sheet5 Sheet6

14 marks 1 row by 1 column SUM(Total Assets Us B): 70.398

Type here to search



03:36 29-04-2023



Data Analytics
Sheet1 (top50banks201...

Search

Tables

- Balance Sheet
- Country, Bank
- Country
- Bank
- Measure Names
- Rank
- Total Assets Us B
- Latitude (generated)
- Longitude (generated)
- Sheet1 (Count)
- Measure Values

Pages

Filters

Country

Marks

Automatic

Color Size Label

Detail Tooltip

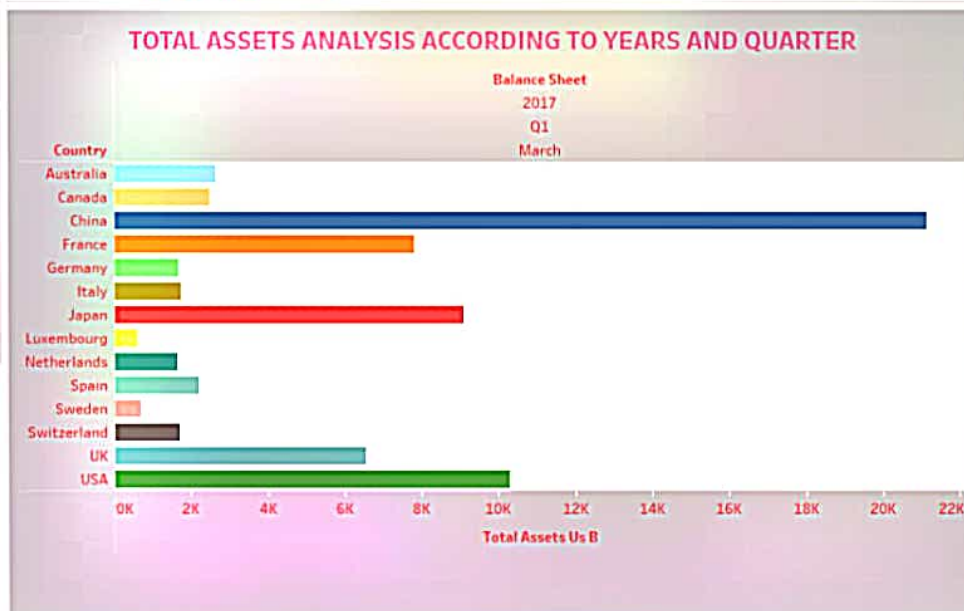
Country

Columns

YEAR(Balance Sh... QUARTER(Balanc... MONTH(Balance .. SUM(Total Assets Us...

Rows

Country



Country

- Australia
- Canada
- China
- France
- Germany
- Italy
- Japan
- Luxembourg
- Netherlands
- Spain
- Sweden
- Switzerland
- UK
- USA

Data Source

Sheet 1

Sheet 2

Sheet 3

Sheet 4

Sheet 5

Sheet 6

4 marks 14 rows by 1 column SUM(Total Assets Us B): 70.398

Type here to search

03:36 28.04.2023