Exp3: Program to Demonstrate the Data Joining, Data Blending

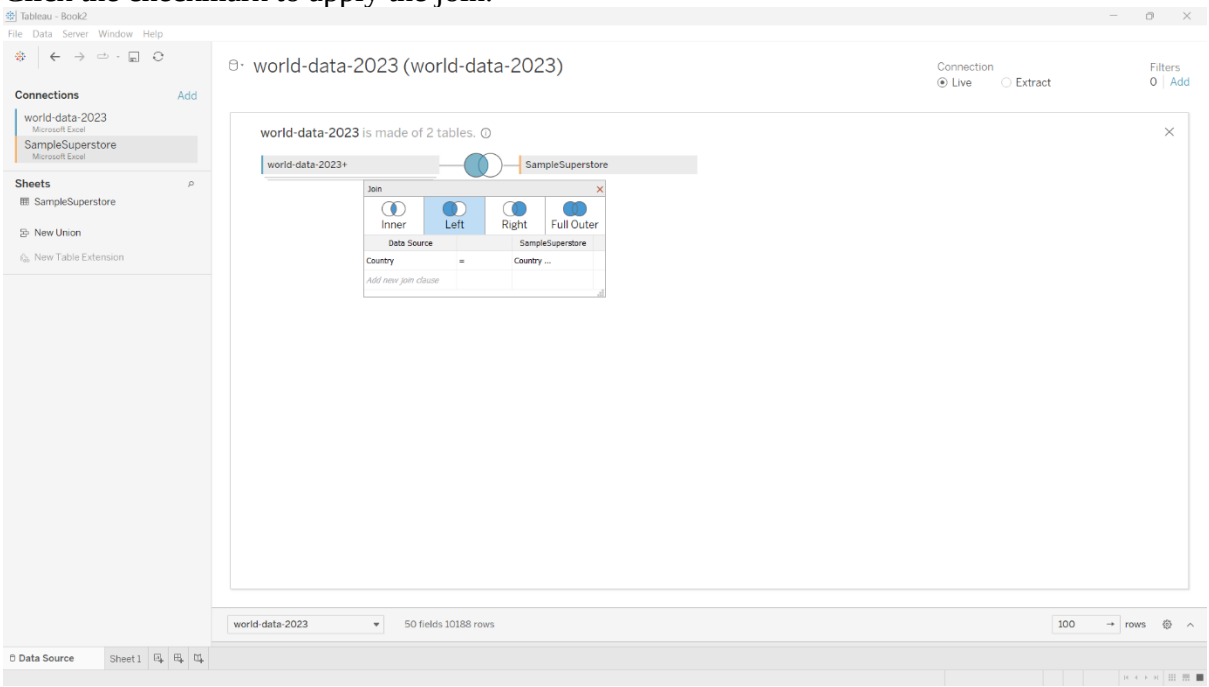
Data Joining:

Step 1: Connect to Data Sources:

1. Launch Tableau.
2. Click on "Connect to Data" on the start page.
3. Select the first data source (e.g., Excel file) and connect to it.
4. Drag and drop the required data tables onto the "Data" pane.

Step 2: Join Data Tables:

1. In the "Data" pane, select the first table and drag it onto the canvas.
2. From the second data source (e.g., another Excel file or a database), connect to the second table.
3. Drag the common field from the second table and drop it onto the common field in the first table on the canvas.
4. Select the appropriate join type (inner, left, right, or outer) based on your needs.
5. Click the checkmark to apply the join.



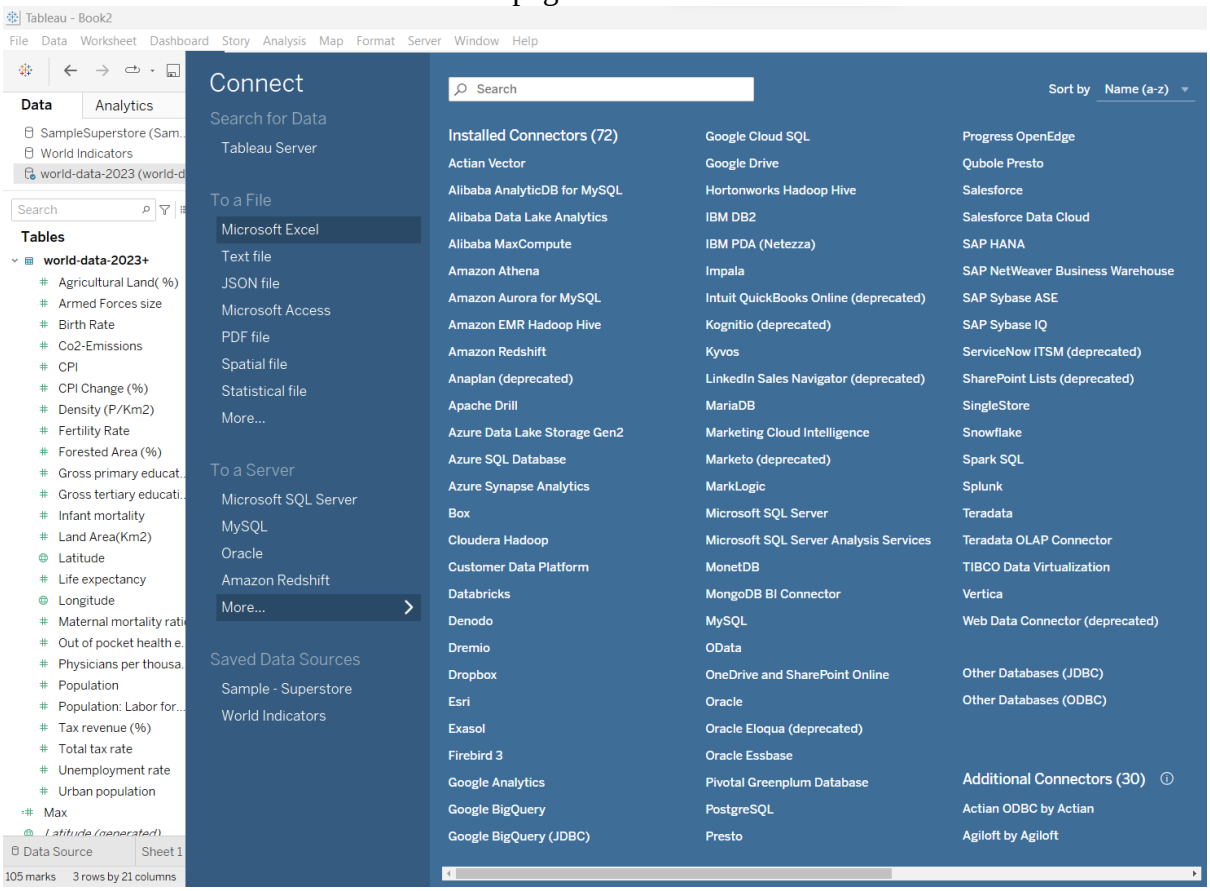
Step 3: Create Visualizations:

1. Navigate to the "Sheet" tab.
2. Drag and drop fields from the joined data tables onto Columns and Rows shelves to create visualizations.
3. Customize the visualization appearance, apply filters, etc.

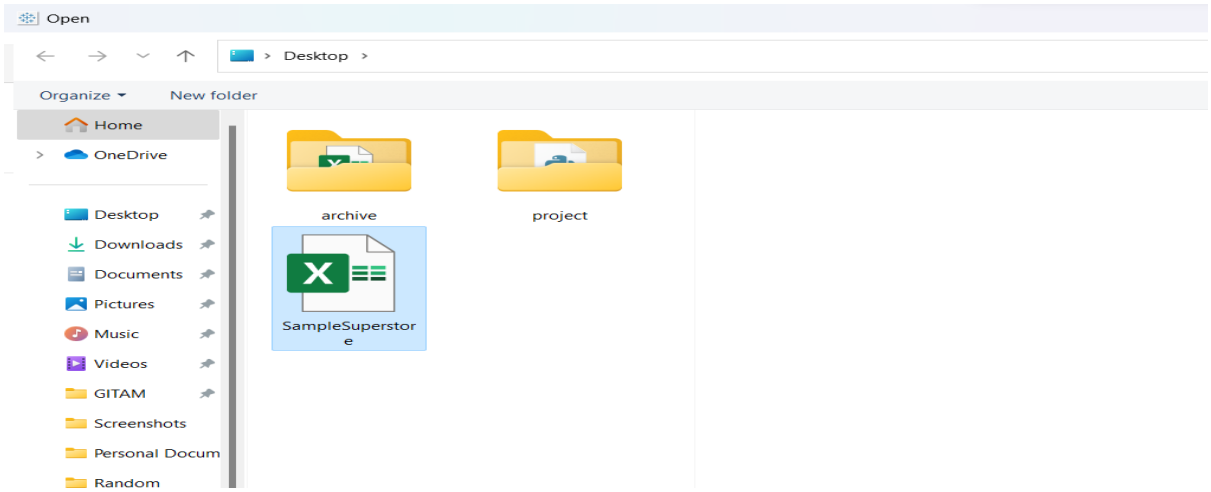
Data Blending:

Step 1: Connect to Data Sources:

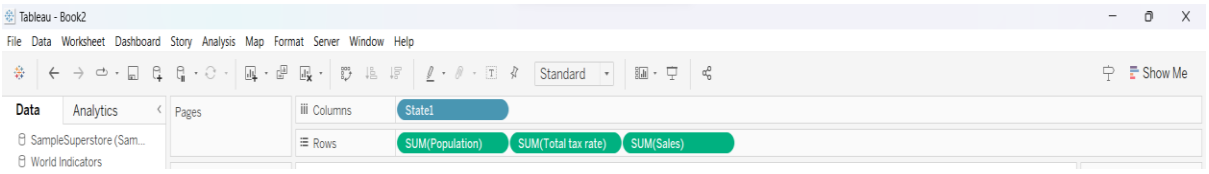
1. Click on "Connect to Data" on the start page.



2. Select the first data source (e.g., Excel file) and connect to it.



3. Drag and drop the required data tables onto the "Data" pane.

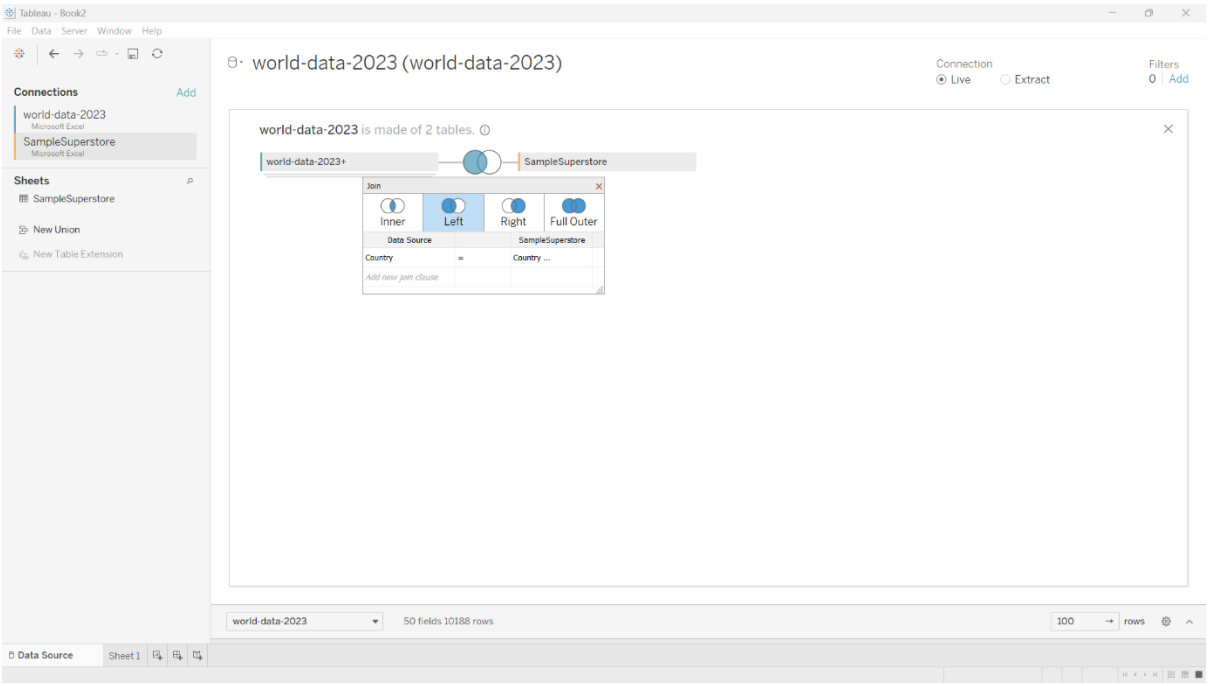


Step 2: Prepare the Primary Data Source:

1. In the "Data" pane, select the primary data source (usually the one with more detailed data).
2. Create a worksheet to visualize data from the primary source.

Step 3: Connect to Secondary Data Source:

1. From the primary data source worksheet, click on "Data" in the top menu, then "Edit Relationships."
2. Click "Add" and select the secondary data source.
3. Define the common field between the primary and secondary data sources.
4. Choose the relationship type (e.g., one-to-one, many-to-one) and the join fields.



Step 4: Create Visualizations with Blended Data:

1. Go back to the primary data source worksheet.
2. Drag fields from the secondary data source onto the view.
3. Tableau will automatically blend the data based on the defined relationships.
4. Create visualizations that incorporate data from both sources.

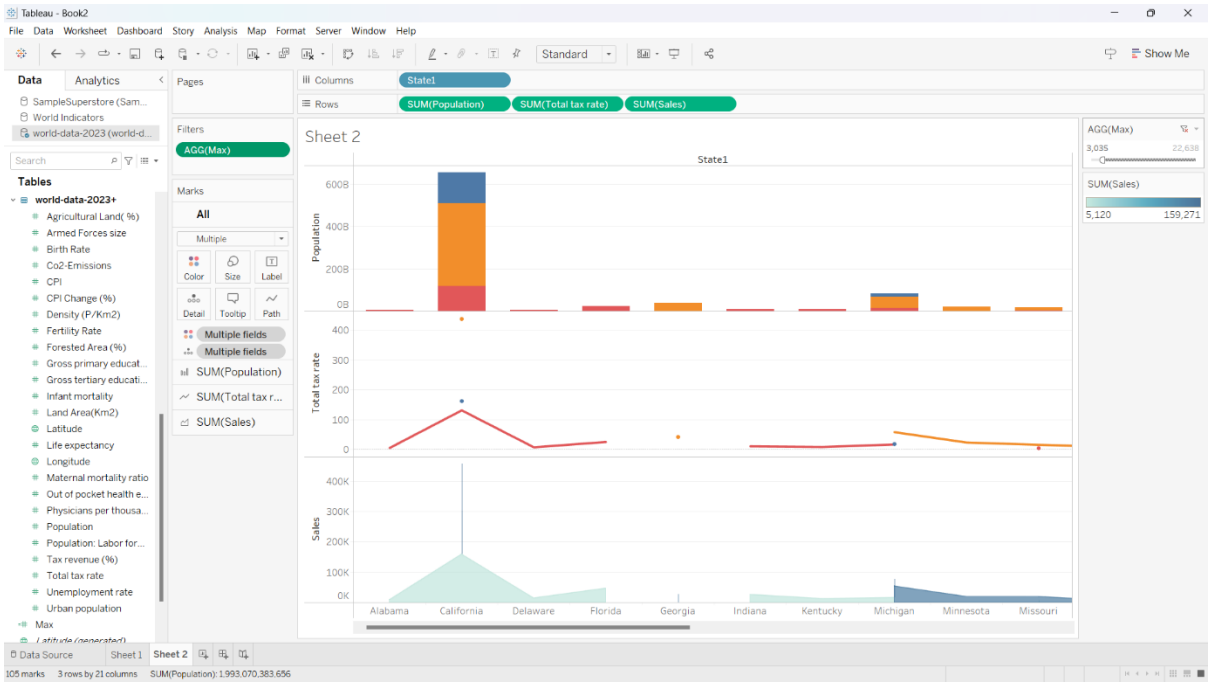


Tableau - Book2
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data
Analytics
SampleSuperstore (Sam...
World Indicators
world-data-2023 (world-d...
Search
Tables
world-data-2023+
Agricultural Land(%)
Armed Forces size
Birth Rate
Co2-Emissions
CPI
CPI Change (%)
Density (P/Km2)
Fertility Rate
Forested Area (%)
Gross primary educat...
Gross tertiary educati...
Infant mortality
Land Area(Km2)
Latitude
Life expectancy
Longitude
Maternal mortality ratio
Out of pocket health e...
Physicians per thousa...
Population
Population: Labor for...
Tax revenue (%)
Total tax rate
Unemployment rate
Urban population
Max
Pages
Filters
AGG(Max)
Marks
All
Multiple
Color
Size
Label
Detail
Tooltip
Path
Multiple fields
Multiple fields
SUM(Population)
SUM(Total tax r...
SUM(Sales)
Columns
State1
Rows
SUM(Population)
SUM(Total tax rate)
SUM(Sales)
Sheet 2
State1
Population
600B
400B
200B
0B
Total tax rate
400
300
200
100
0
Sales
400K
300K
200K
100K
0K
Alabama
California
Delaware
Florida
Georgia
Indiana
Kentucky
Michigan
Minnesota
Missouri
AGG(Max)
3,035
22,638
SUM(Sales)
5,120
159,271
Data Source
Sheet 1
Sheet 2
105 marks
3 rows by 21 columns
SUM(Population): 1,993,070,383,656