DATA VISLUALIZATION EXPERIMENTS

6 (A) Create a first visualization with tableau software for data file formats

Website to download: sandbox:/mnt/data/tableau lab dataset.xlsx

The workbook contains these sheets (brief):

Sales_TimeSeries — date / region / product / sales / quantity / profit (time series, line & bar charts, dual-axis).

Category_Summary — category / subcategory / sales / profit (treemaps).

Calculations_Data — numeric rows to practice calculated fields (sum, avg, custom).

PivotData — employee / project / hours / date (pivoting practice).

Filters_Data — customer demographics and sales (filtering, sorting).

DualAxis_Cyclical — monthly cyclical metrics (dual axis, seasonal & cyclical analysis).

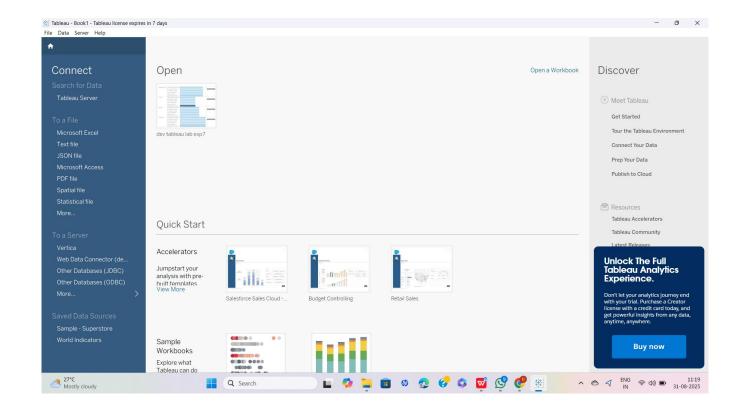
Circular Area Data — segments & values (pie / circular area charts).

6 a) Create a first visualization with Tableau software for data file formats (open an Excel and make a simple line)

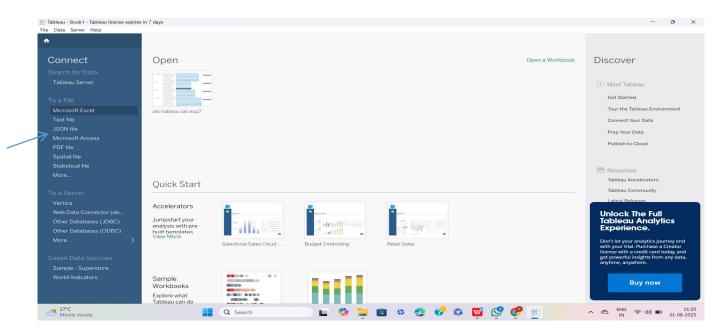
STEPS:

- 1. Open Tableau Desktop or Tableau Public.
- 2. On the Start page click Microsoft Excel under Connect.
- 3. In the file chooser navigate to and select tableau_lab_dataset.xlsx and click Open.
- 4. In the left pane click the sheet **Sales_TimeSeries** to load it (drag it to the canvas if prompted).
- 5. Switch to the **Sheet 1** tab at the bottom.
- 6. In the Data pane locate the field **Order Date** (Data type: Date). Drag **Order Date** to the **Columns** shelf.
- 7. In the Data pane locate Sales (Measure). Drag Sales to the Rows shelf.
- 8. On the **Marks** card set the mark type to **Line** (click the dropdown that may show Automatic and choose **Line**).
- 9. If Tableau aggregated by MONTH, and you want continuous dates, click the **Order Date** pill on Columns and choose **Month** → **Continuous** (DATEPART vs DATETRUNC options).
- 10. Confirm you see a line showing **SUM(Sales)** over time that's your first visualization.

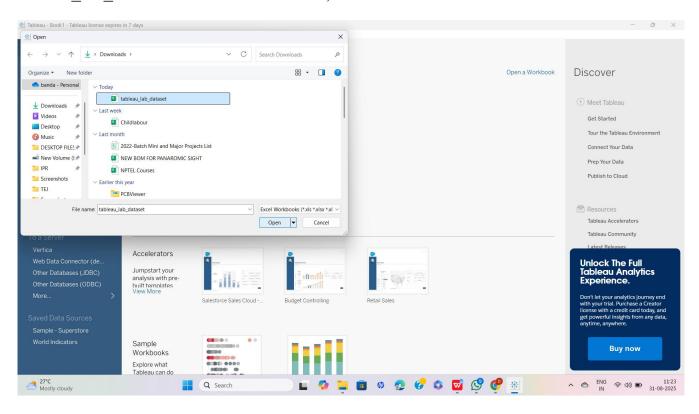
STEP 1 SCREENSHOT (Open Tableau Desktop or Tableau Public)

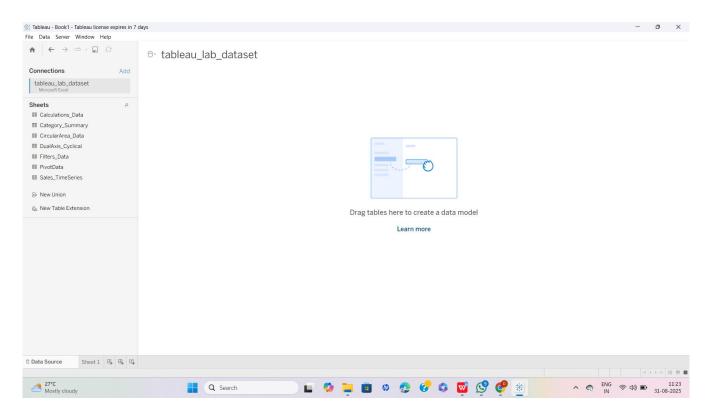


STEP 2 SCREENSHOT (On the Start page click Microsoft Excel under Connect)

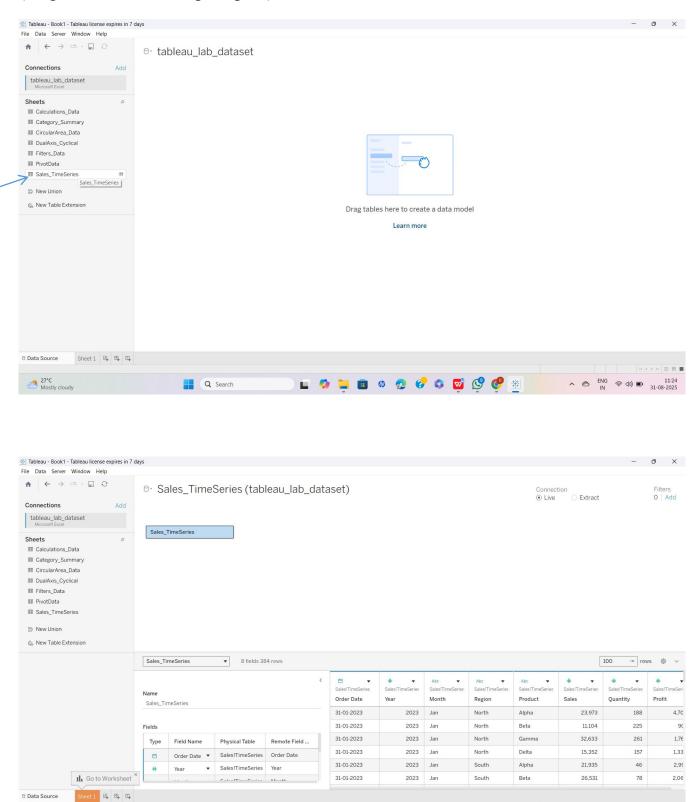


STEP 3 SCREENSHOT (In the file chooser navigate to and select tableau_lab_dataset.xlsx and click OPEN)



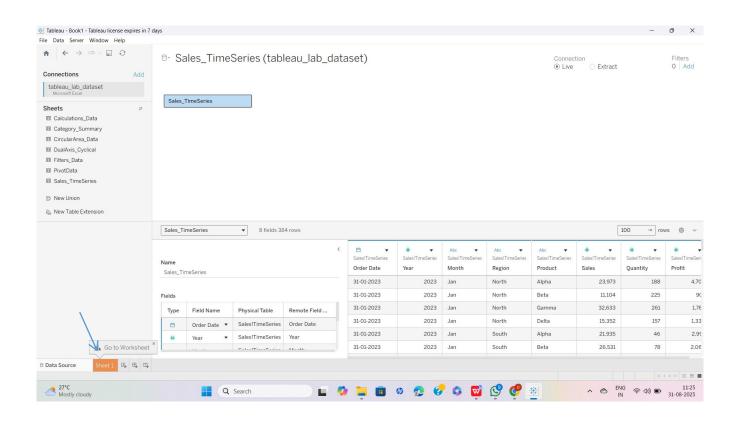


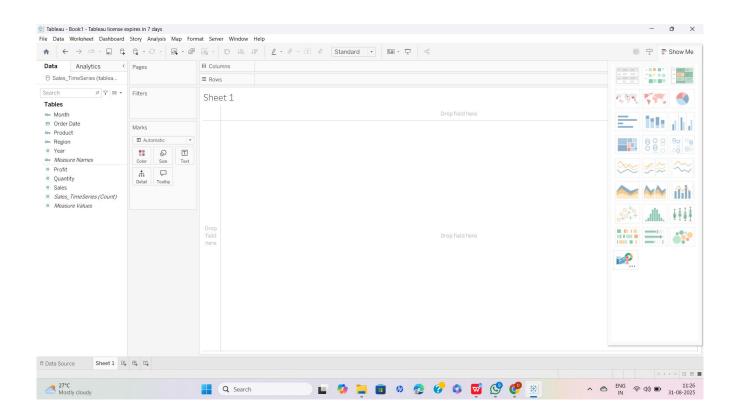
STEP 4 SCREENSHOT (In the left pane click the sheet **Sales_TimeSeries** to load it (drag it to the canvas if prompted).



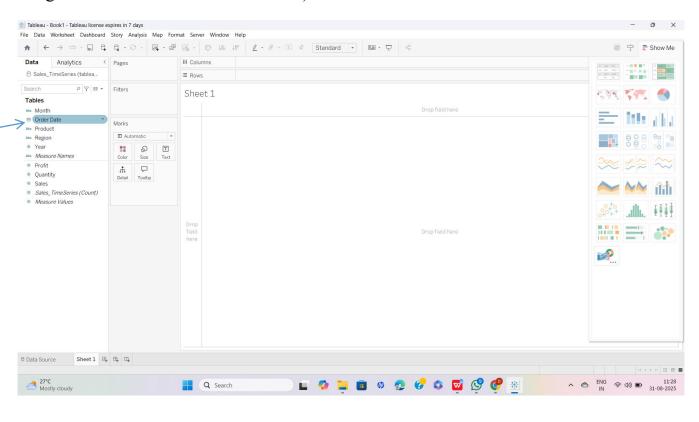
Q Search

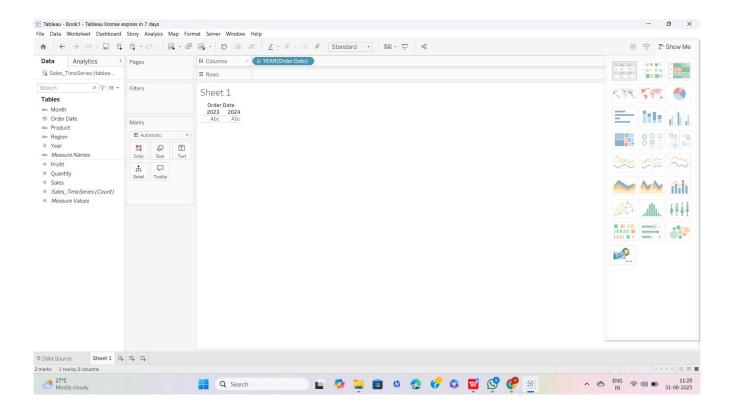
STEP 5 SCREENSHOT (SWITCH TO SHEET 1 Tab at the bottom)



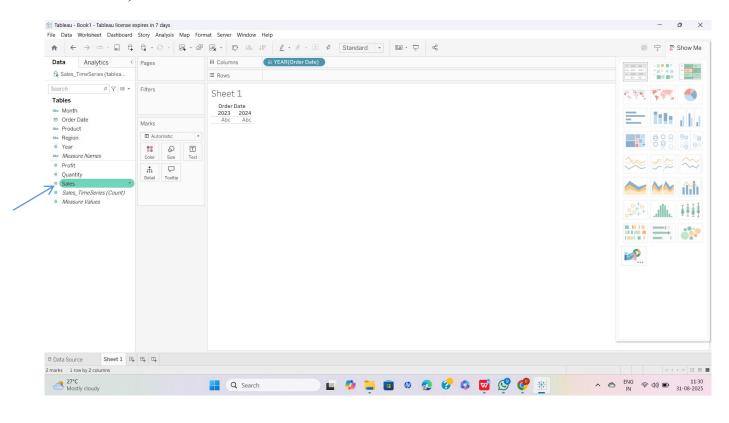


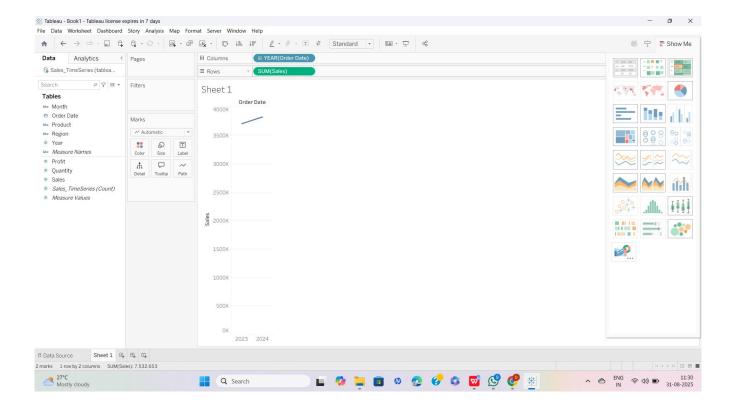
STEP 6 SCREENSHOT (In the Data pane locate the field Order Date (Data type: Date). Drag Order Date to the Columns shelf)



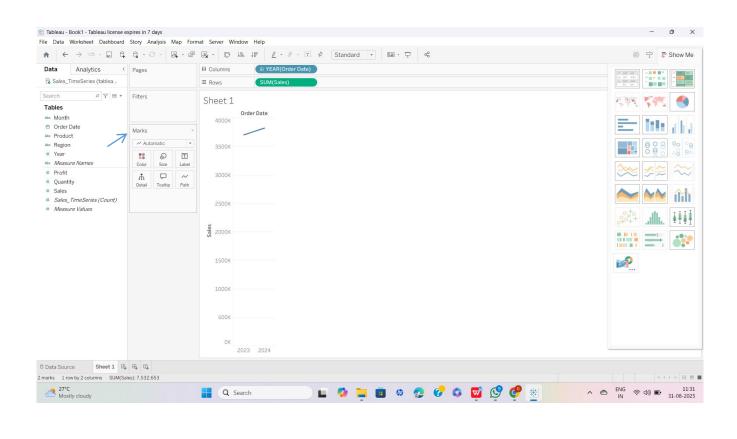


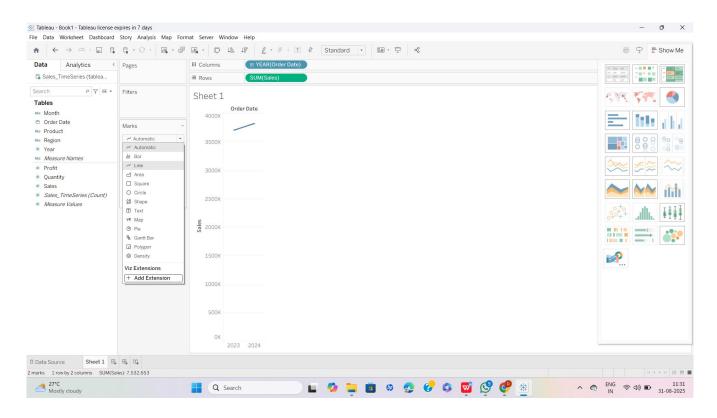
STEP 7 SCREENSHOT (In the Data pane locate Sales (Measure). Drag Sales to the Rows shelf)



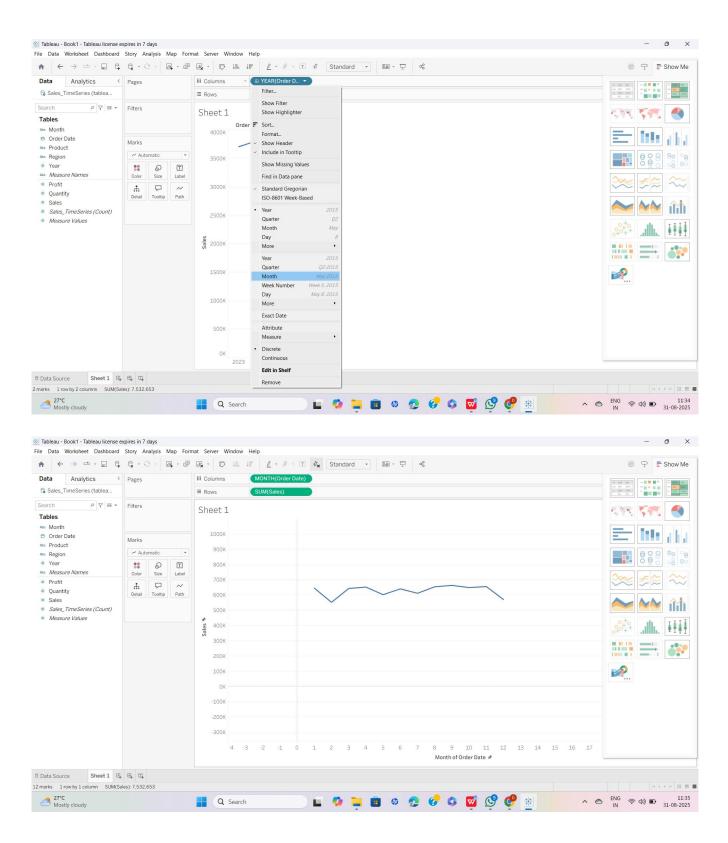


STEP 8 SCREENSHOT (On the Marks card set the mark type to Line (click the dropdown that may show Automatic and choose Line).





STEP 9 SCREENSHOT (If Tableau aggregated by MONTH, and you want continuous dates, click the **Order Date** pill on Columns and choose **Month** → **Continuous** (DATEPART vs DATETRUNC options).



STEP 10 (Confirm you see a line showing **SUM(Sales)** over time — that's your first visualization)

