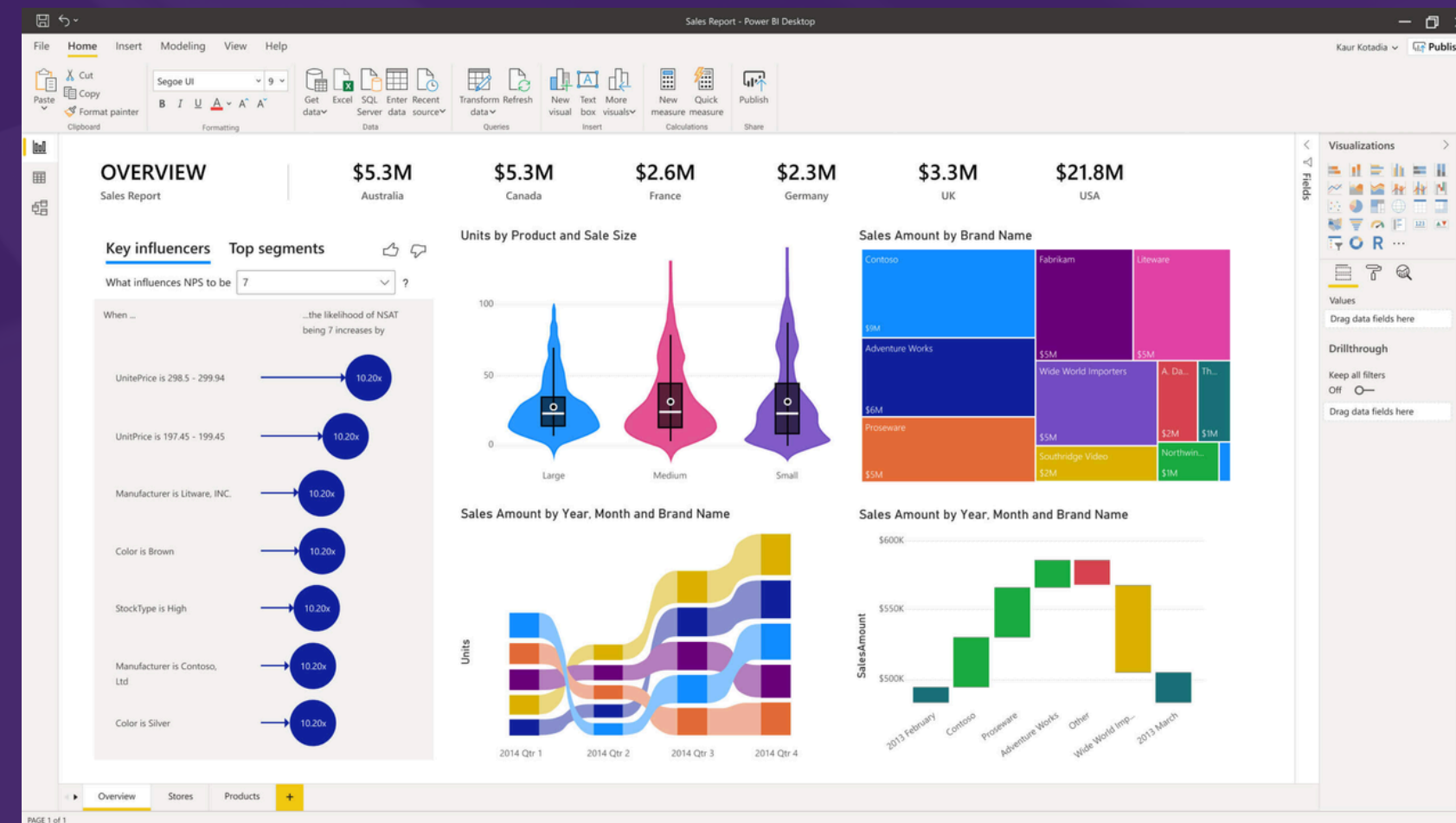


MICROSOFT

POWER BI

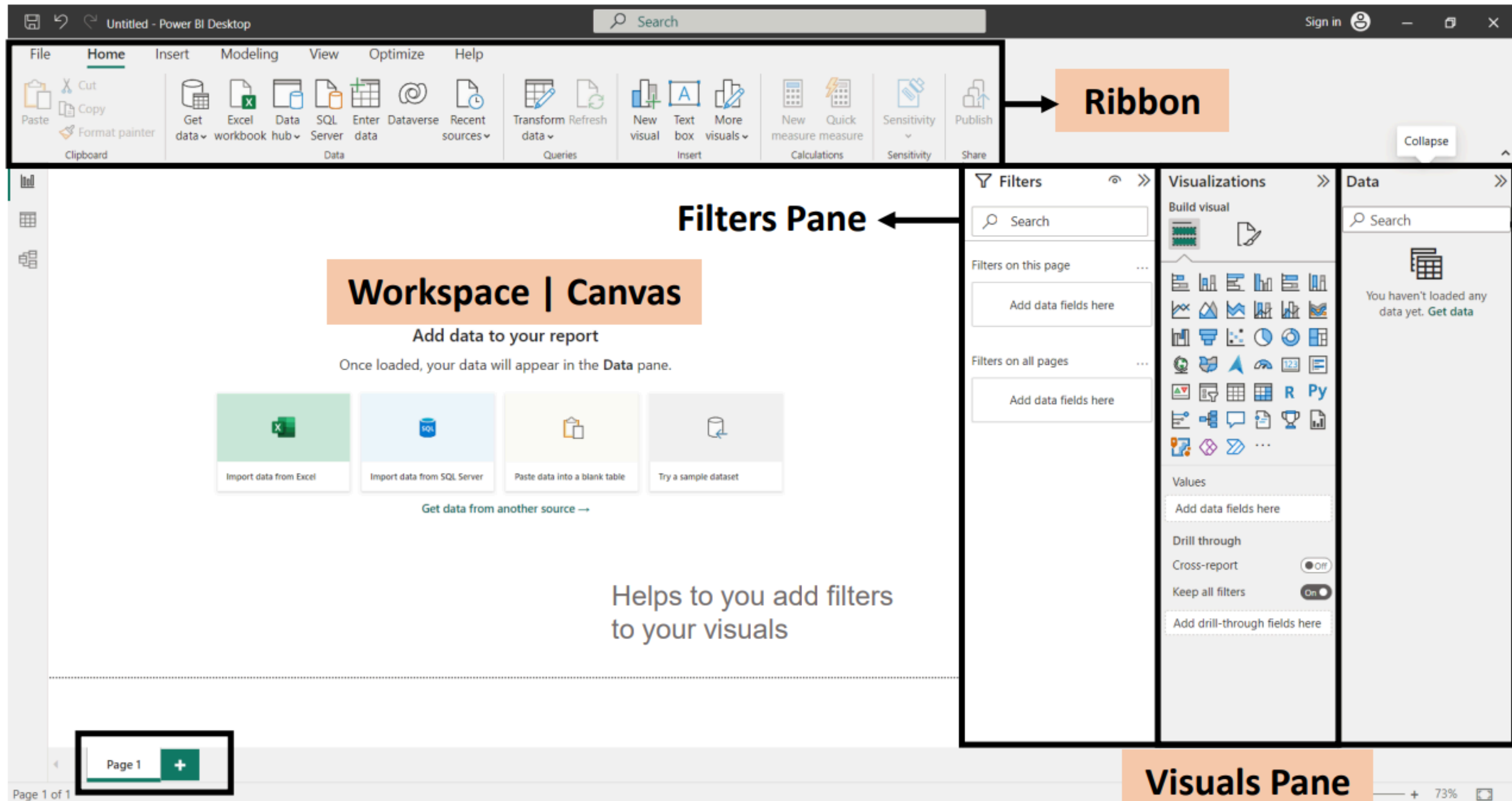


download Power BI



Power BI





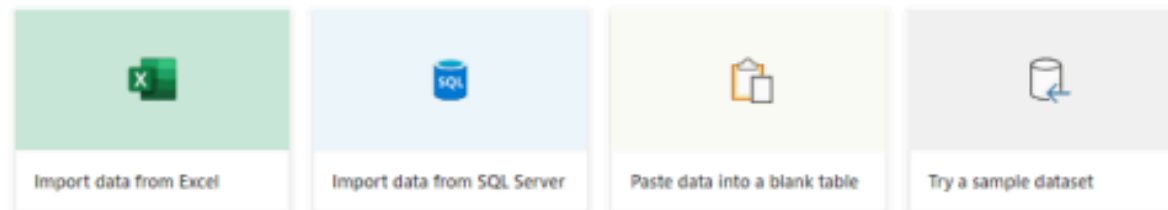
Ribbon

Filters Pane

Workspace | Canvas

Add data to your report

Once loaded, your data will appear in the Data pane.



Get data from another source →

Helps to you add filters
to your visuals

DATA Pane

Shows all
fields from
your data

Visuals Pane

Helps you add visuals to your dashboards & format it.

Pages

what is **POWER BI**?

power bi is a unified ,scalable platform for self-service and enterprise business intelligence(BI) connect to and visualize any data and seamlessly infuse the visuals into a app you use everyday.



CONNECT TO 100+ DATA SOURCES

TRANSFORM DATA

MODEL DATA

VISUALIZE DATA

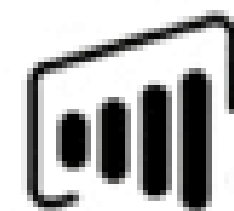
SHARE

Features Of Power BI

- can handle millions of rows of data seamlessly
- what-if analysis
- integrate Power BI with other Microsoft products
- share data and dashboard with other Power BI users
- AI based visuals
- Forecasting
- python script in Power BI
- Power BI desktop is free to use and learn
- advanced analytics calculations using DAX



Power BI Architecture



POWER BI ARCHITECTURE



Data Preparation



Extract

TRANSFORM

Load

Data Warehouse



Visualization

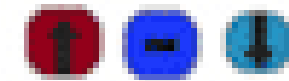
Dashboard



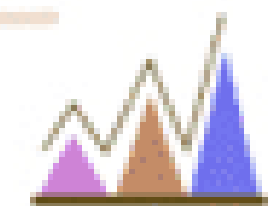
Reporting



Scorecards



Business User



Power BI And Tableau

Differences



DIFFERENCES

Ease of use

1

Integration

2

visualization capabilities

3

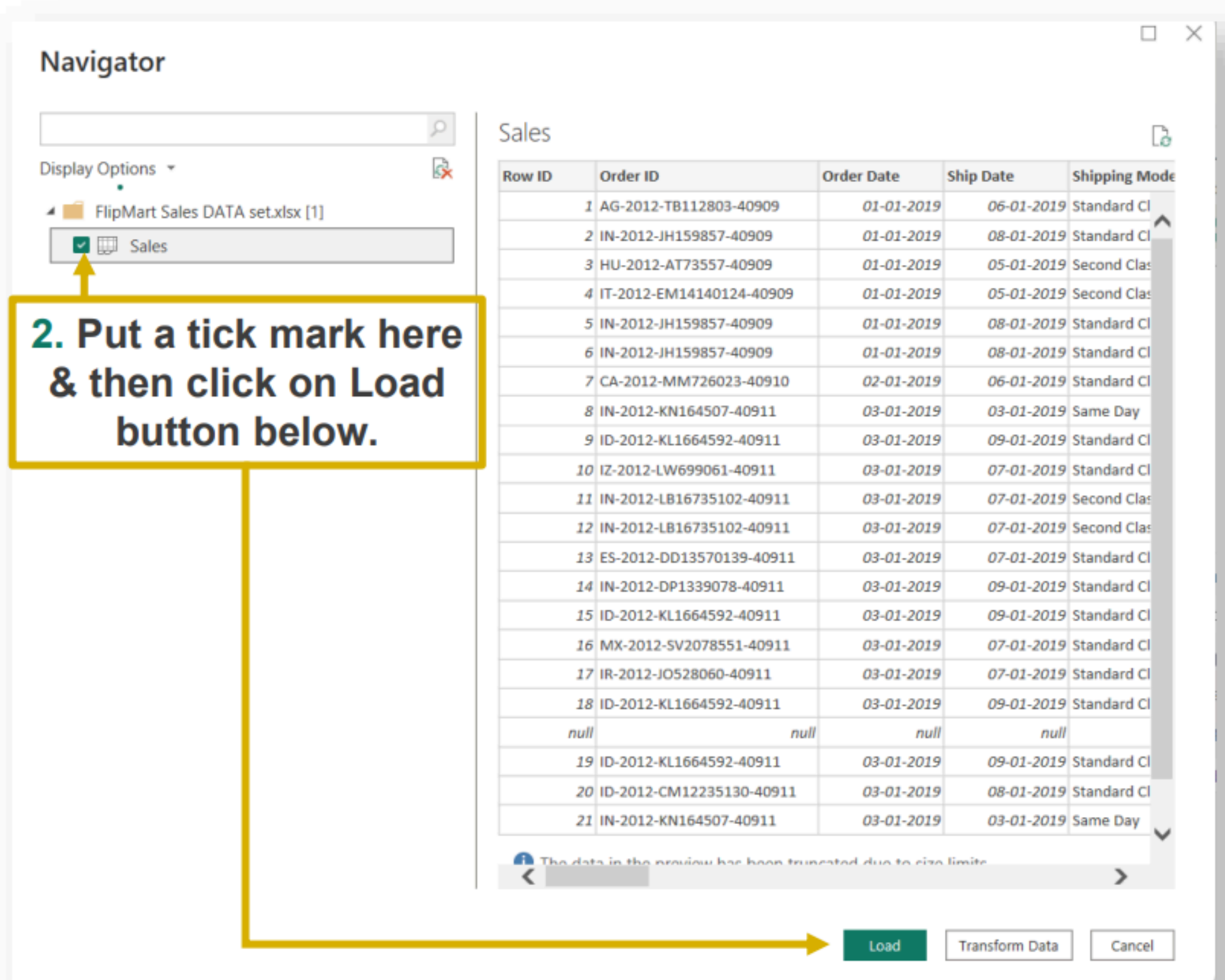
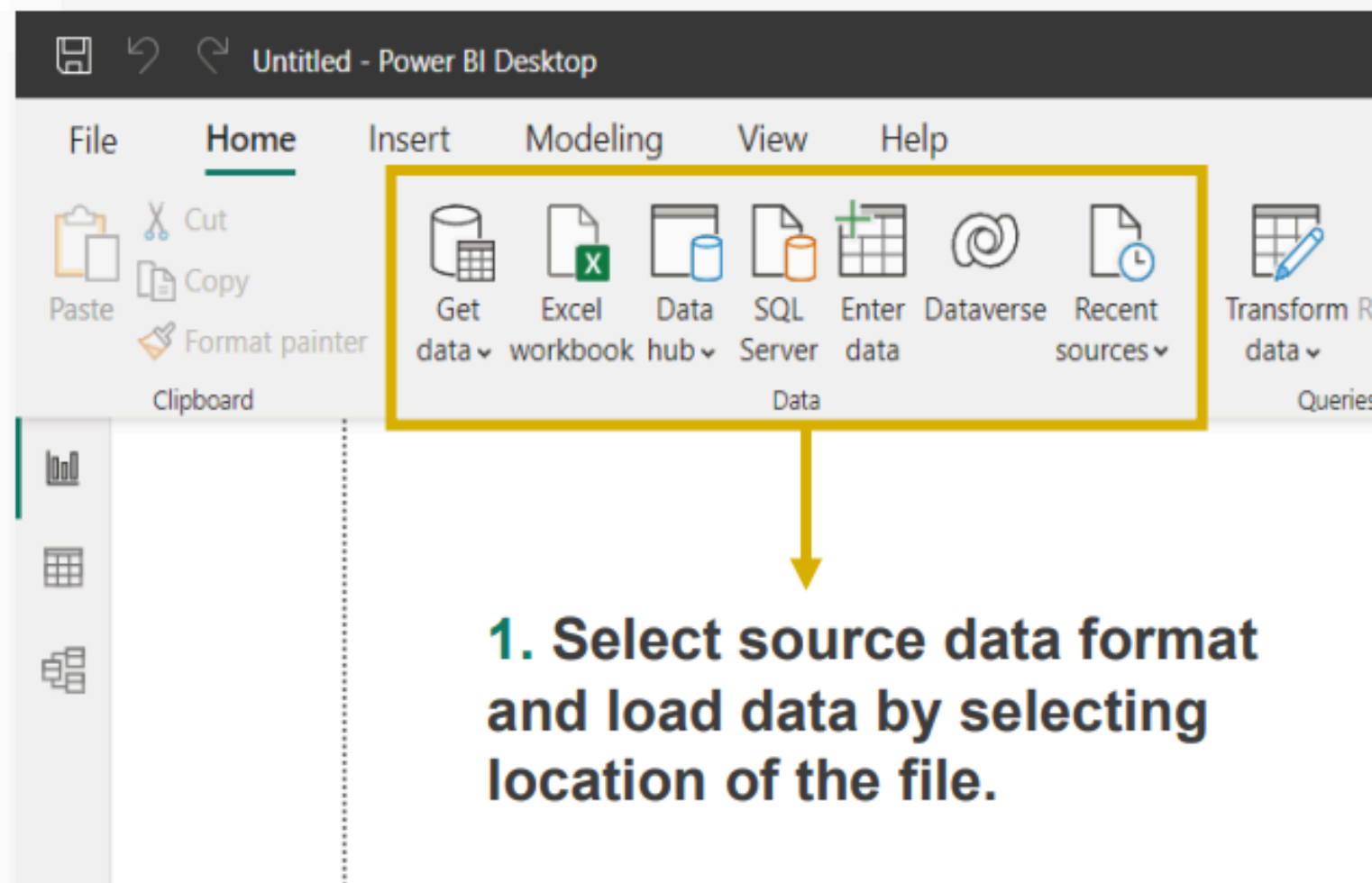
pricing

4

data handling and performance

5

haripriyavenkatesan03/Datasets



Charts In Power BI

- Bar charts
- Column charts
- combo charts
- slicers vs filters charts
- area charts
- card and KPI charts
- AI visuals chart

BAR CHART

A bar chart in Power BI is used to represent categorical data with rectangular bars, where the length of each bar corresponds to the value of the category.

There are several types of bar charts:

Clustered Bar Chart: Displays bars for each category side by side, allowing direct comparison across categories.

Stacked Bar Chart: Shows bars divided into segments representing sub-categories, with each bar's total length representing the sum of the sub-categories.

100% Stacked Bar Chart: Similar to the stacked bar chart, but each bar's length represents 100%, with segments showing the percentage contribution of each sub-category.

COLUMN CHART

A column chart in Power BI visualizes categorical data using vertical bars. Here are the different types:

Clustered Column Chart: Displays vertical bars for each category side by side, facilitating direct comparison across categories.

Stacked Column Chart: Shows vertical bars divided into segments for sub-categories, with each bar's total height representing the sum of these segments.

100% Stacked Column Chart: Similar to the stacked column chart but displays bars as 100% tall, with segments showing the percentage contribution of each sub-category.

Combo Charts

In Power BI, a combo chart combines two types of charts into a single visualization, typically a bar/column chart and a line chart. This allows users to display different types of data on the same axis for better comparison and analysis.

Slicers VS Filters

Feature	Slicers	Filters
Interaction	Interactive UI elements for user selection	Less interactive, set by designers
Scope	Filters multiple visuals on a report page	Can filter at visual, page, or report level
Visual	Display as dropdowns, lists, or sliders	Not directly visible, configured in settings

DAX

- DAX stands for data analysis expression.and basically a library of functions and operators that help you build formulas.
- you can use DAX to create measures and calculated columns within power BI Which can really give you a lots of insights into your data