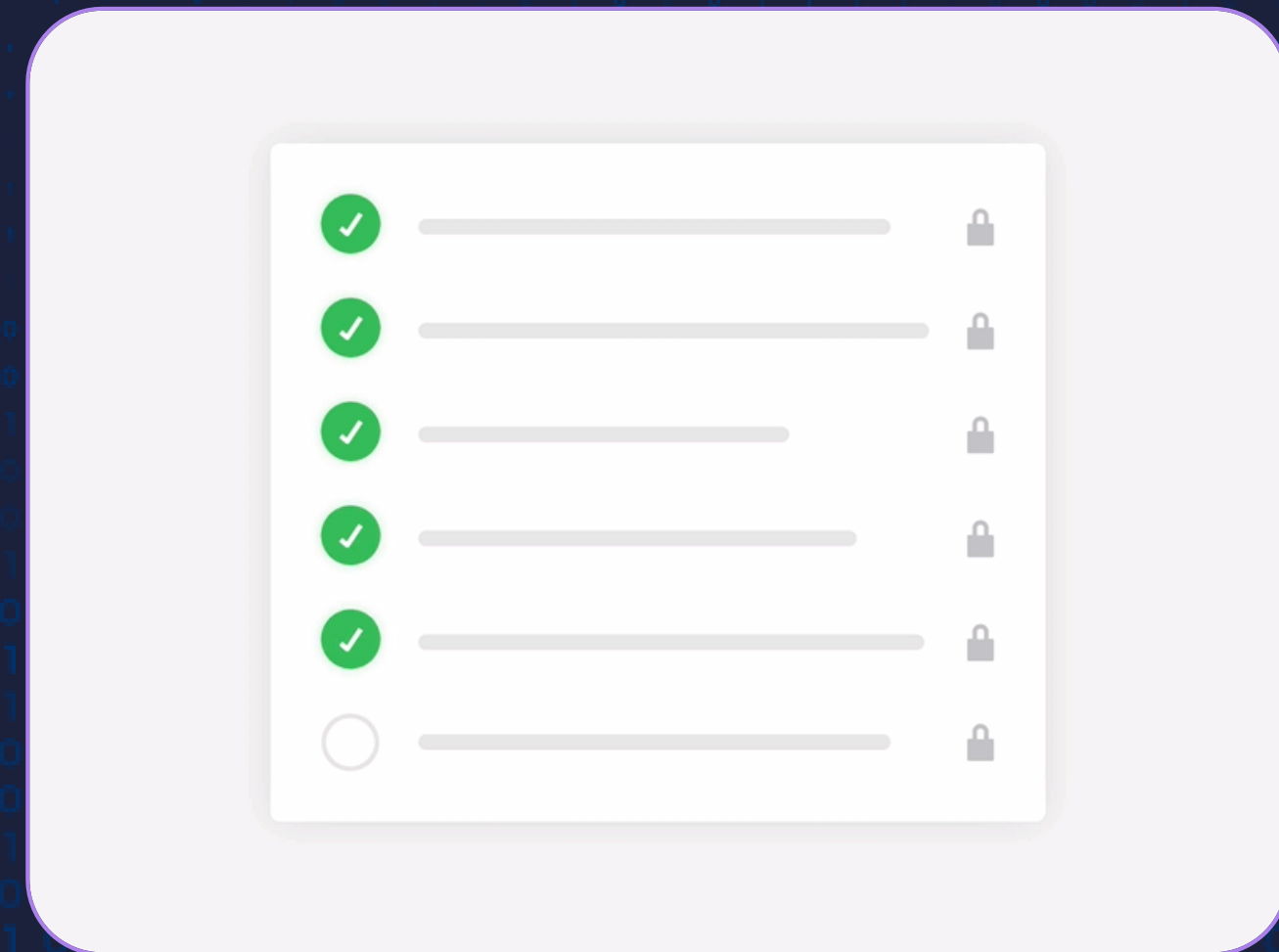


TABLEAU



Lecture CheckList

1. Business Intelligence
2. Tools and methodologies used in BI
3. Importance of Visualization
4. Future business impact of BI
5. Why Tableau?
6. Gartner's Magic Quadrant
7. Tableau Product Suite
8. Tableau Architecture
9. Tableau installation in local system



What is Business Intelligence?

- BI is a technology-driven process that analyses data and provides actionable information, for better decisions.
- **Aim** - Drive a positive change to improve the company's performance and revenue.
- BI encompasses a variety of processes such as data mining, data analysis, KPIs, visualisations, etc.
- By using data to answer questions about the company's past and present, business intelligence significantly improves how a company arrives at its decision-making.



Methodologies used in BI

Basic Methods used :-

- Data collection – Surveys, Questionnaires, Forms, etc.
- Data visualization and Analysis
- Reporting
- Dashboards
- Decision-making

Who uses BI and why?

- People from departments like – sales, marketing, finance, operations, data science, data analysis, etc.
- Tasks include – Statistical analysis, performance measurement against business objectives, gaining customer insights, and communicating data to identify better future opportunities.

Some tools used in BI

- Power BI
- Tableau
- Qlik
- Dundas BI
- Talend
- Sisense
- Oracle BI



Future impacts of BI

- Business intelligence (BI)'s future and the future of data are inseparably linked.
- As the amount of data created and consumed by businesses grows exponentially, the quickness and convenience with which you can obtain and rely upon that data will be of greater significance than ever before.

- Forecast market trends and consumer preferences
- Predict unforeseen challenges
- Data into Profits
- Predictive Analysis
- Better data-driven decision-making
- Time efficient

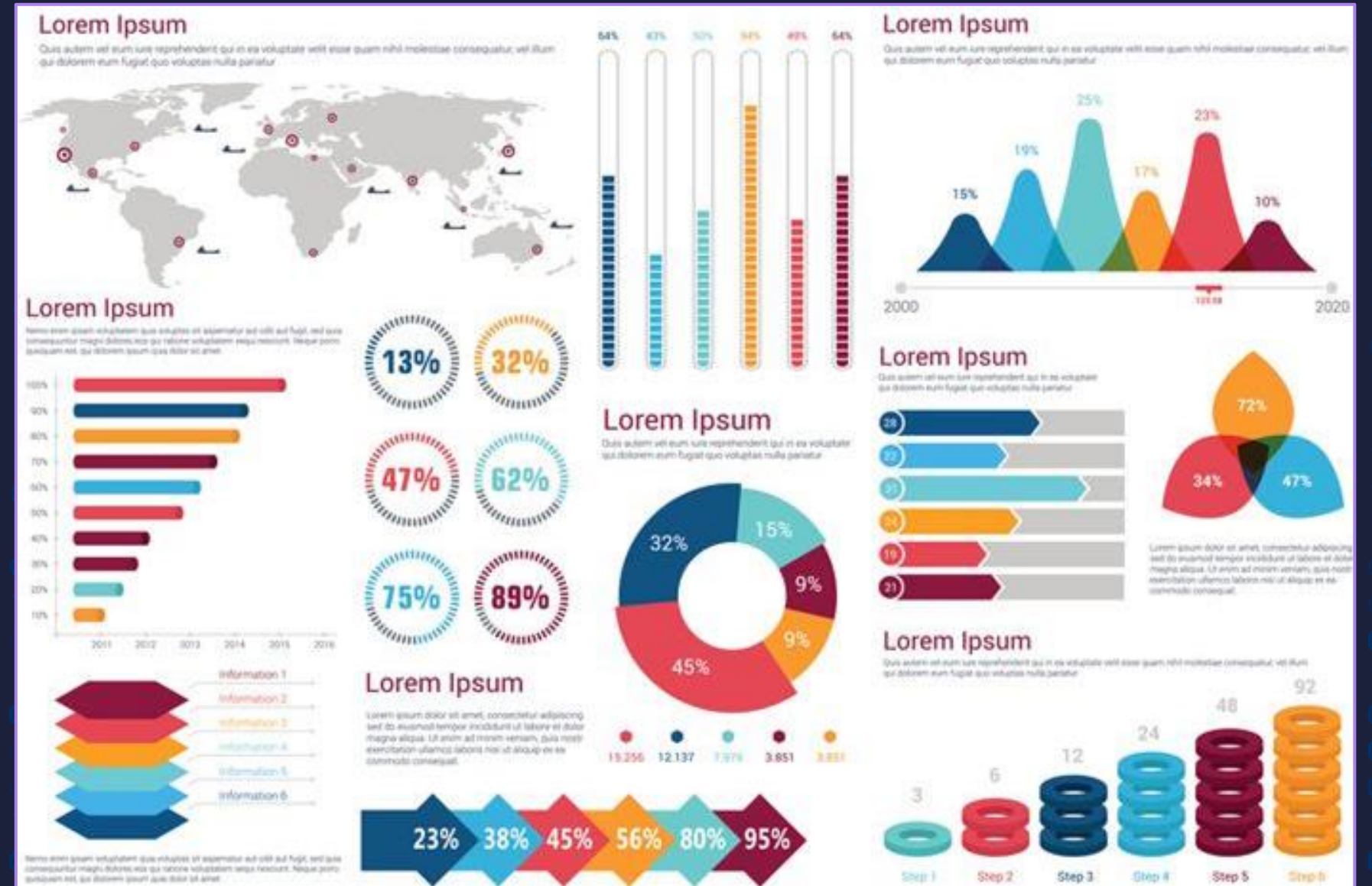
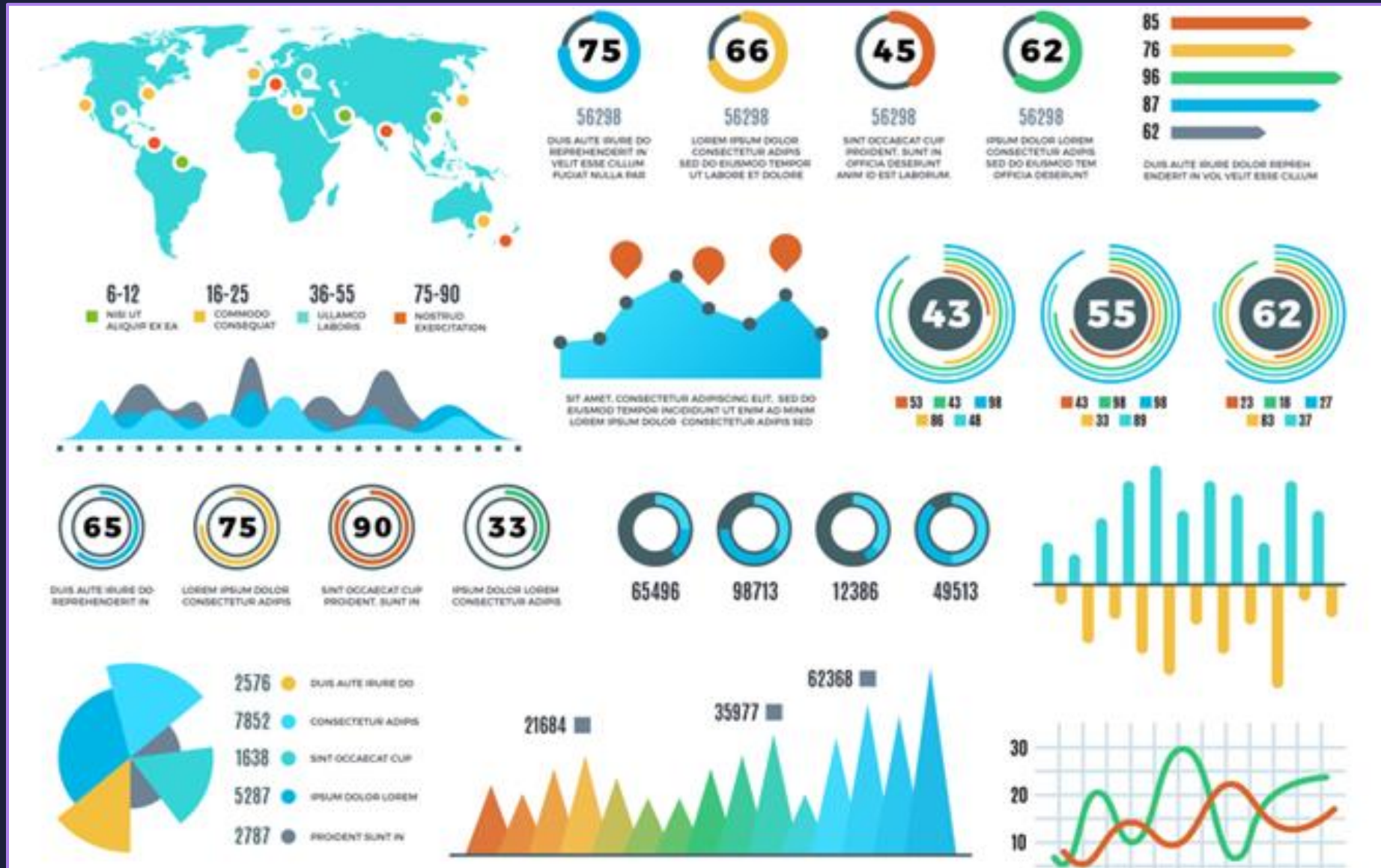
Data visualization

Data visualization

- Data visualisation is the graphical depiction of information and data.
- A form of visual art that captures our attention.
- The tools which include visual components like charts, graphs, maps, etc. come in handy to view and understand trends, outliers, and patterns in data.
- Furthermore, it allows employees or entrepreneurs to communicate facts to non-technical people without creating confusion.
- Data visualisation tools and techniques are critical in this Big Data age, for analysing huge volumes of data and making data-driven (strategic decisions based on data analysis and interpretations) decisions.

Benefits of data visualisation

- Colours and patterns catch our attention.
- Humans can quickly distinguish between red and blue, as well as squares and circles.
- When we look at a chart, we immediately spot trends and outliers.
- If you can't find a trend when you look at a huge spreadsheet of data, visualisation becomes important.
- Also, with visualization, information can be shared quickly and easily.



Tableau

- Tableau is a highly effective and rapidly expanding data visualisation application used in the Business Intelligence Industry.
- It aids in the simplification of raw data very much clearly.
- Tableau assists in the creation of data that can be grasped by people at all stages of an organisation.
- It analyses data swiftly and delivers visualisations in the form of dashboards and workbooks.

System requirements

- Microsoft Windows 8/8.1, Windows 10 (x64)
- 4 GB memory
- 1.5 GB minimum free disk space
- CPUs must support SSE4.2 and POPCNT instruction sets
- MacOS Mojave 10.14, macOS Catalina 10.15, macOS Big Sur 11.4+, and macOS Monterey 12.6+ (for Tableau 2022.3+) Intel processors
- M1 processors under Rosetta 2 emulation mode
- 1.5 GB minimum free disk space
- CPUs must support SSE4.2 and POPCNT instruction sets

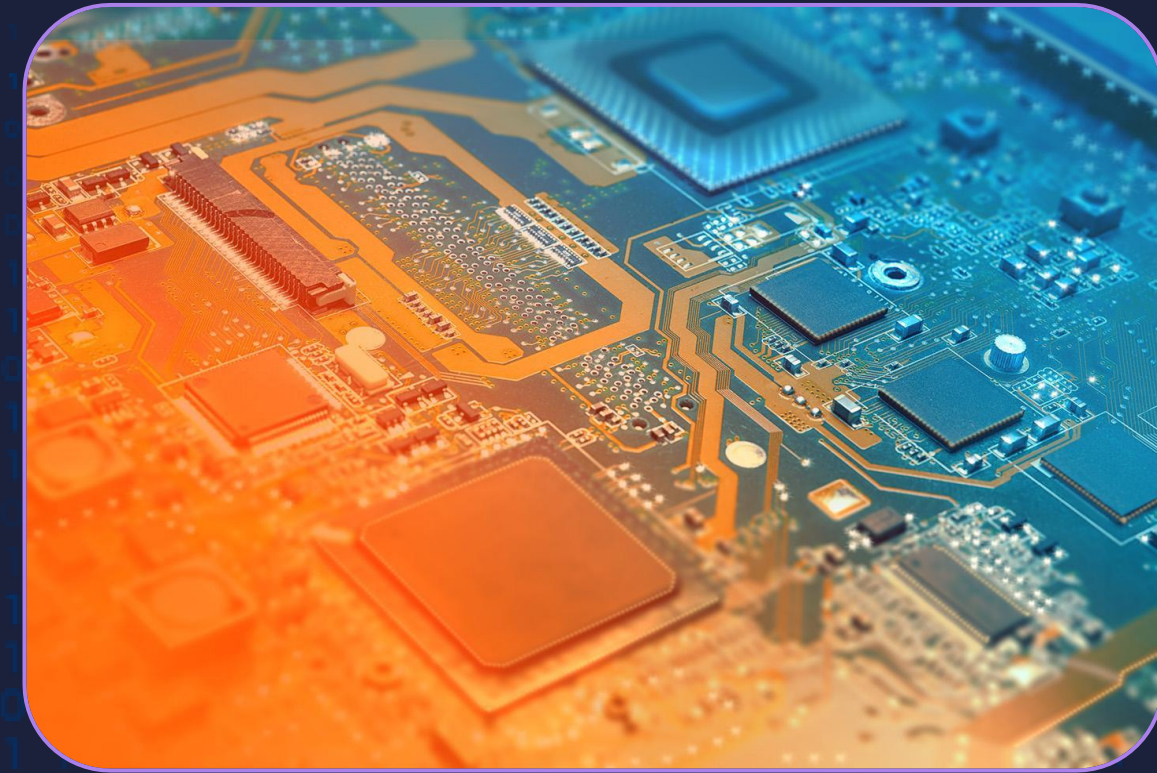


Tableau product suite

- Tableau desktop
- Tableau Cloud
- Tableau server
- Tableau public
- Tableau reader

(Tableau prep – ETL tool)

Tableau product suite

Tableau product suite

Tableau Creator Tableau Explorer

- Connect your data, build vizzes, and publish dashboards.
- Connect to any type of data
- Visual data preparation with Tableau Prep
- Powerful analytics with Tableau Desktop and Tableau Server
- Includes everything in Tableau Explorer

[CONTACT FOR PRICING →](#)

- Edit existing dashboards.
- Connect to published data sources
- Author and share tailored content on Tableau Server
- Includes everything in Tableau Viewer

[CONTACT FOR PRICING →](#)

Tableau Viewer

- Access existing dashboards.
- View and interact with trusted content on Tableau Server
- Stay connected with subscriptions, notifications, and mobile

[CONTACT FOR PRICING →](#)

Tableau Architecture

Tableau architecture comprises :-

1. Data Server/Sources (75+)
2. Data connector
3. Tableau Server
4. Clients – web, mobile, desktop

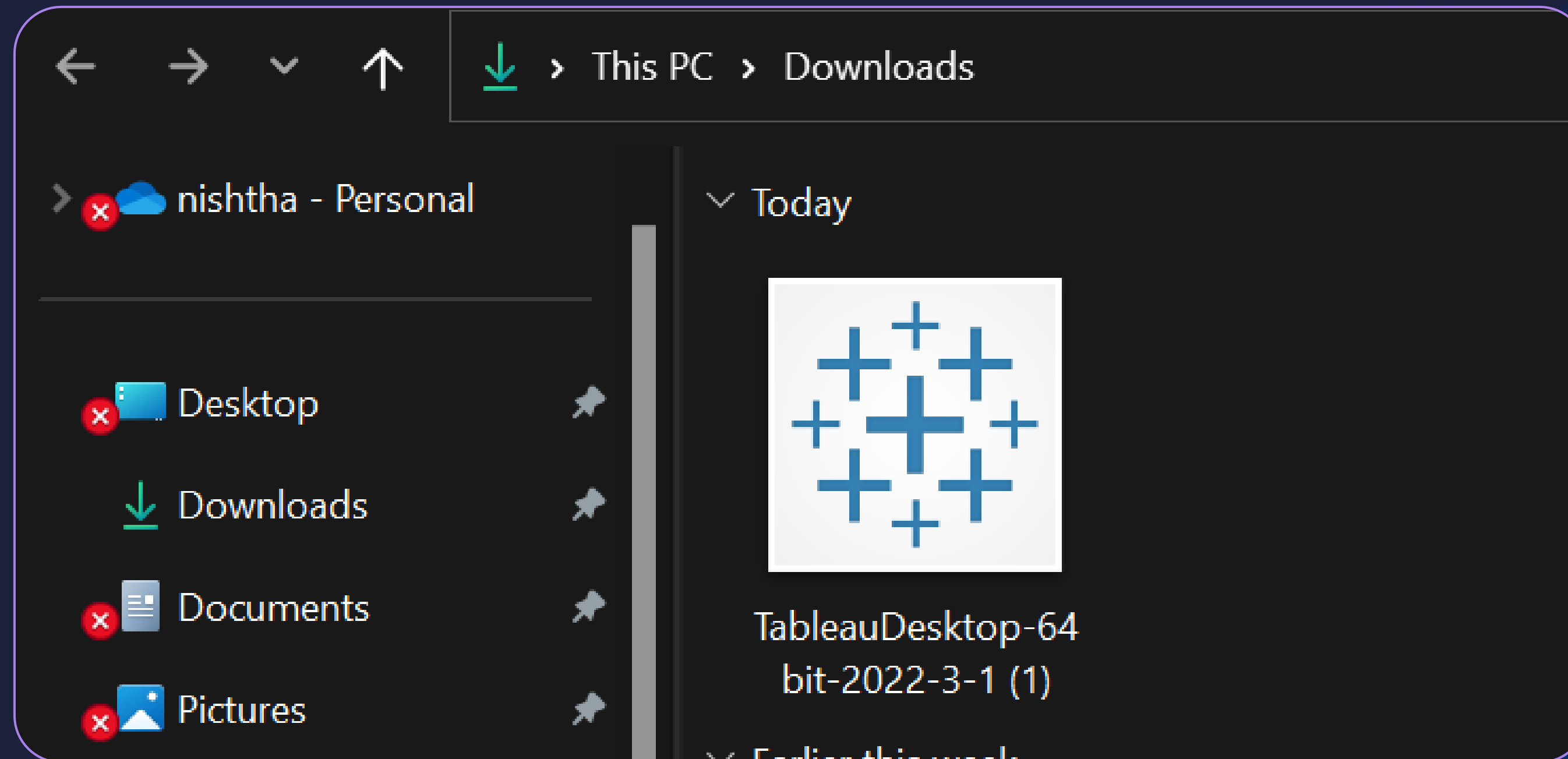
Why use Tableau?

- User-friendly
- High performance
- Quite speedy
- Pretty convenient-to-use
- Interactive
- Easy publishing
- Rich visualizations

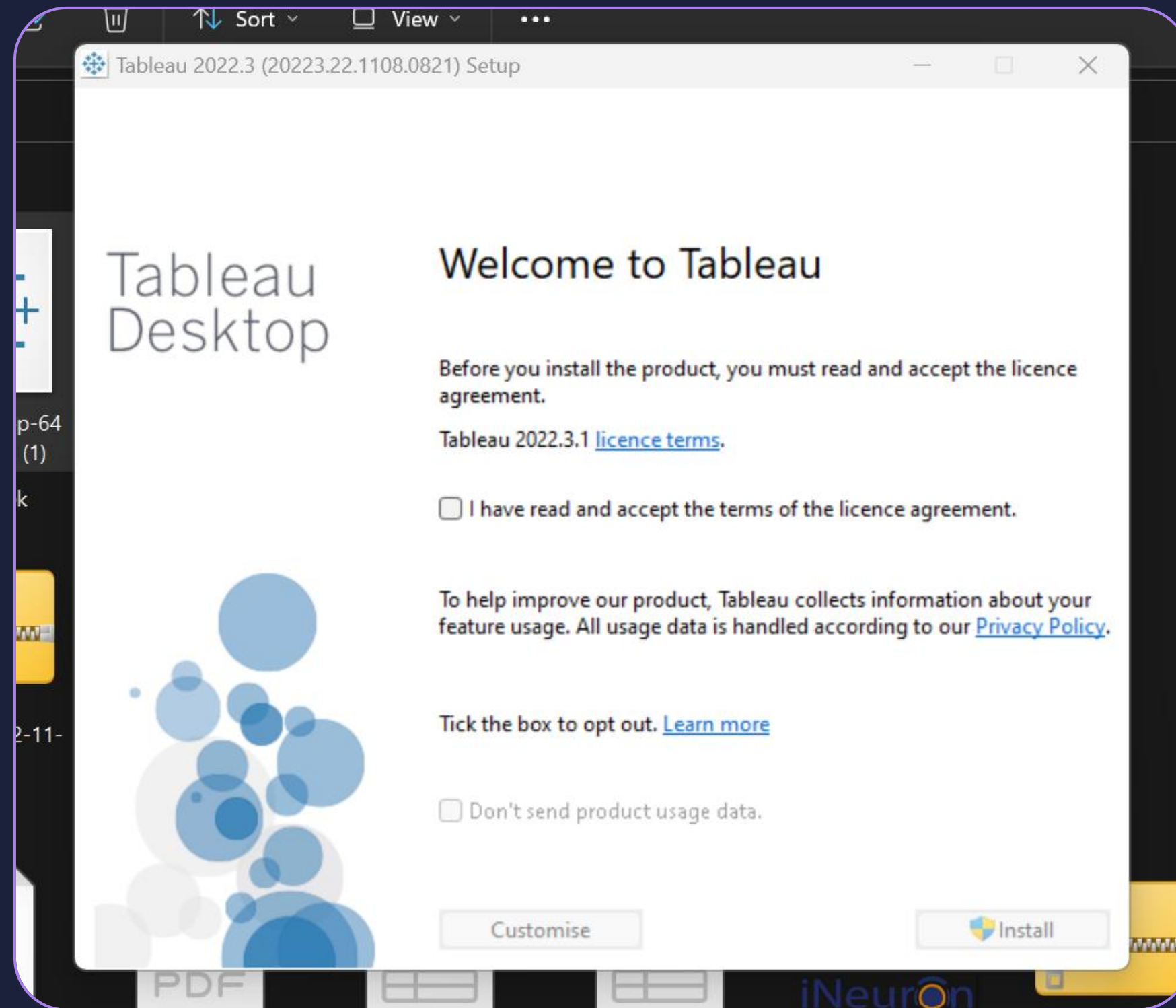
Why use Tableau?

- Huge Data handling
- Low cost
- Easy publishing
- Direct connection with multiple databases
- Simple drag-and-drop
- Gartner's magic quadrant – one of the best

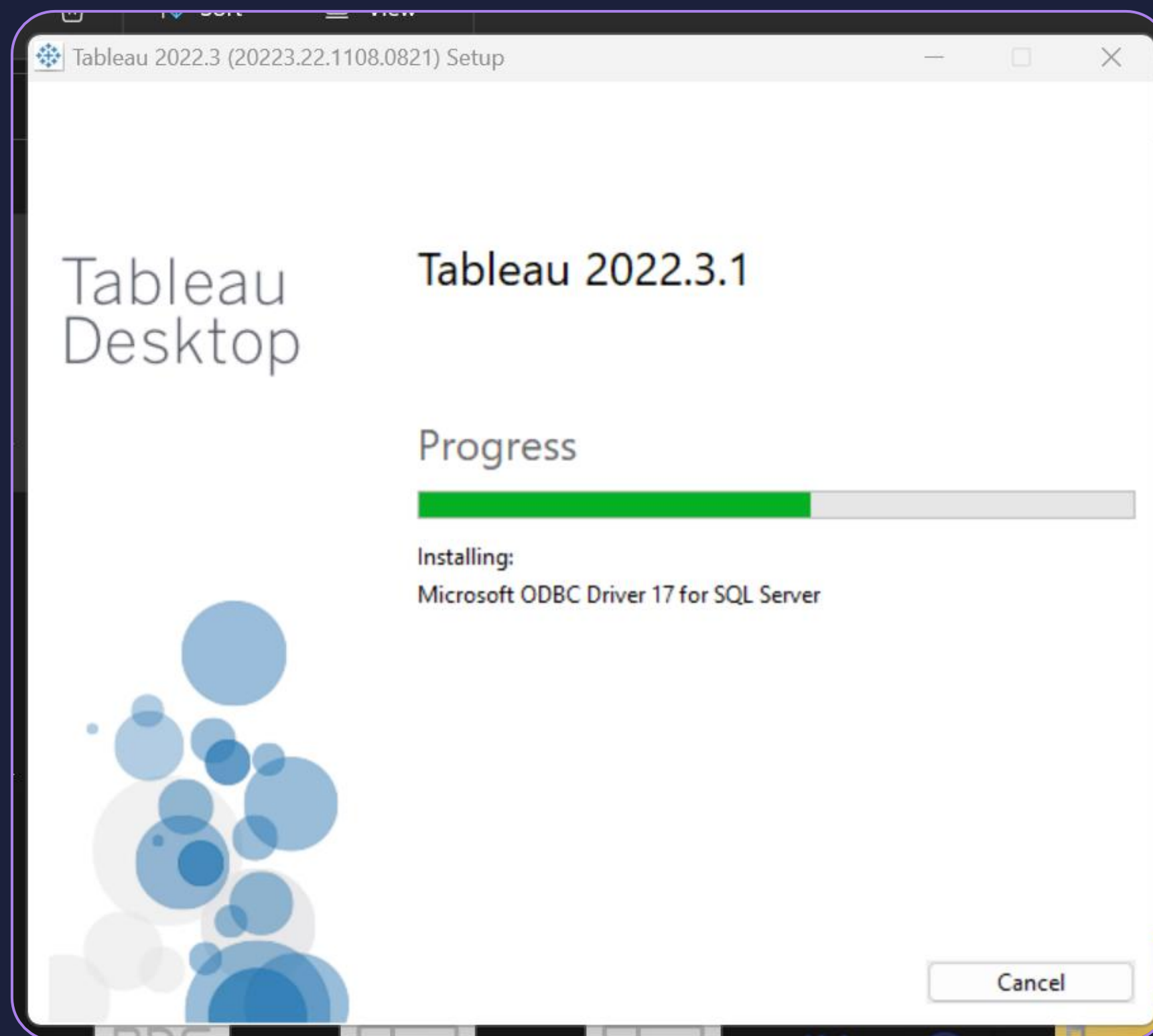
Install Tableau



Install Tableau




Install Tableau



Install Tableau

Activate Tableau

Registration
Register now to start using the product.

 You must register to continue using this trial. Click 'Register' to register the trial. Otherwise, click 'Activate' to activate the product with your product key or credentials.

Activate Register

Install Tableau

Activate Tableau

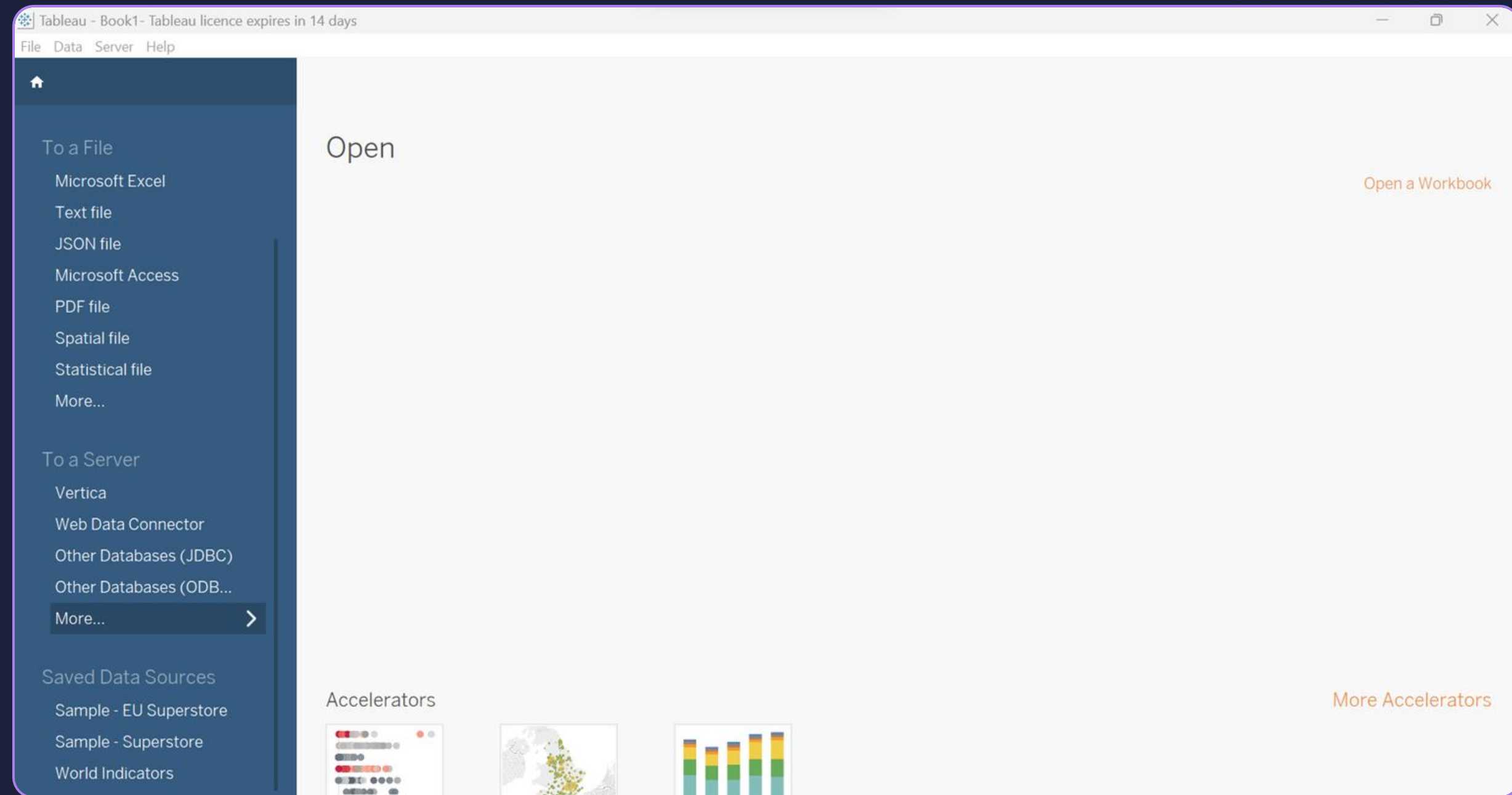
Registration

Complete all fields for the registered user.

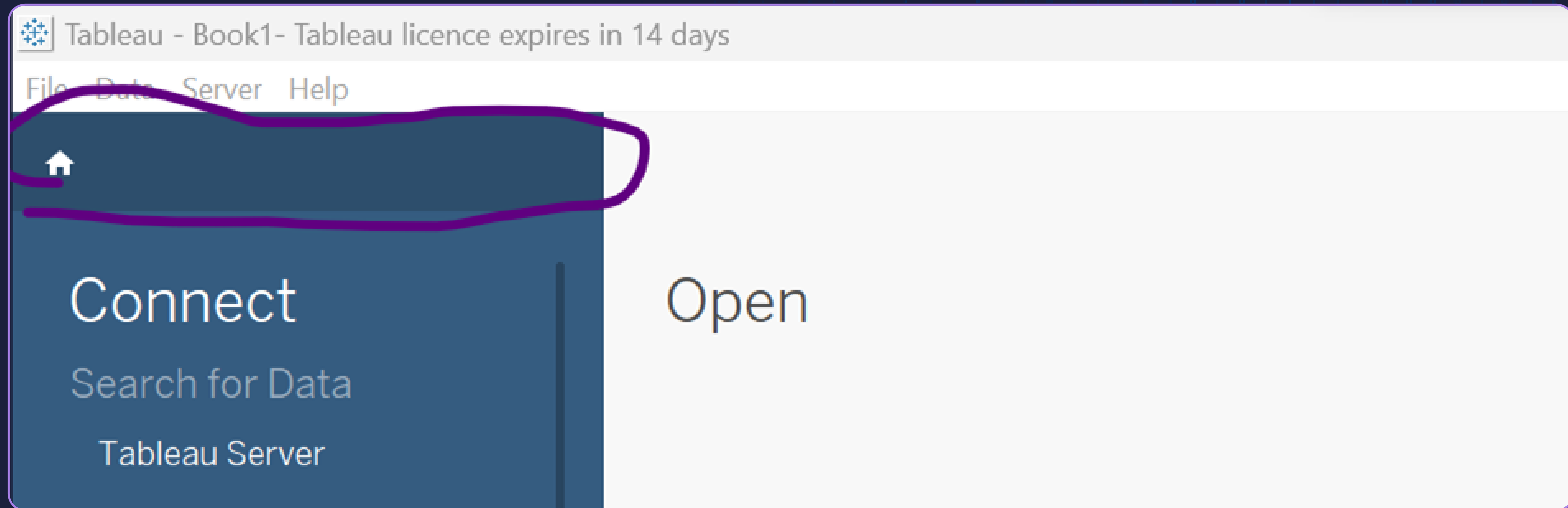
Email

Register

Tableau installed



Opening A New Workbook





▶ THANK YOU ◀