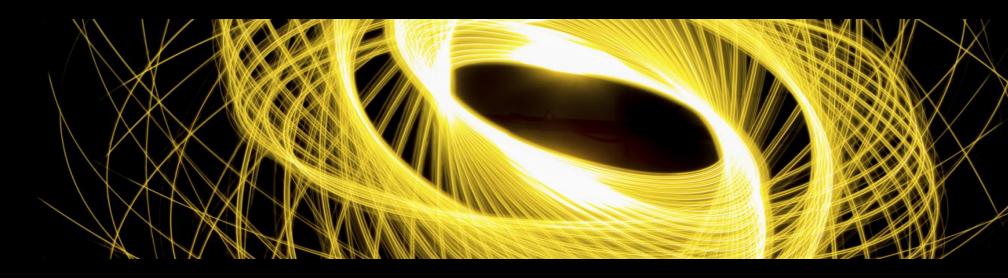


CS3DV20 Data Integration and Visualisation



Lab 01:

Environment Setup

Outline



- > Tableau access options:
 - ✓ Polly Vacher G56
 - ✓ Local Installation Q&A



Polly Vacher G56 – Physical Access



- For the face to face session in Polly Vacher G56, this is the recommended method to access the tools needed for the Data Visualisation module (Tableau).
- Log into the computer using your university credentials.
- ➤ Click on the Tableau icon (if is not in the desktop, look at the apps installed).

Tableau



- ➤ Gartner is one of the companies that analyze different types of BI tools all over the world and has also proven that Tableau is one of the best products all over the world for data visualization.
- For the last 5 years it has been in the top position for data visualization.

Tableau Products



Tableau Desktop Tableau Desktop Help □	Provides everything you need to access, visualize, and analyze your data. With an intuitive interface, you can uncover hidden insights and make smart decisions faster.
Tableau Server Tableau Server Administrator Help: On Linux On Windows	A self-hosted platform, either on- premises or in a public cloud, for creating or hosting visualizations, data sources, or flows. Tableau Server can have multiple sites.
Tableau Mobile Tableau Mobile Overview □	The mobile application interacts with visualizations on your Tableau Server or Tableau Cloud site.
Tableau Public 🗗	A free platform to explore, create, and publicly share data visualizations online. With the largest repository of data visualizations in the world to learn from, Tableau Public makes developing data skills easy.

Img SRC: Tableau Product Overview - Tableau

Polly Vacher G56 – Physical Access







Local Installation



The second option recommended to perform the activities of the module is to install Tableau. You can download the files from here:

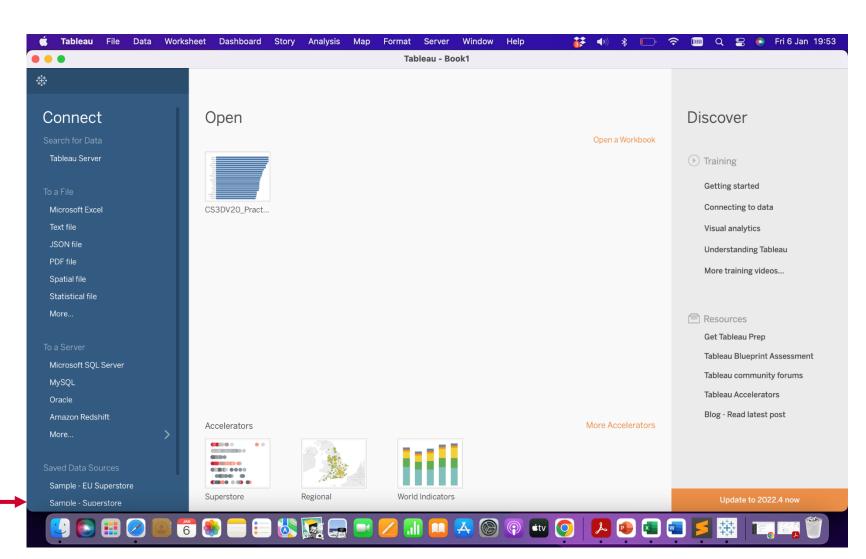
https://www.tableau.com/academic/students

- 1. Download the latest version of Tableau Desktop and Tableau Prep Builder here- https://www.tableau.com/products/prep/download?signin=academic
- 2. Click on the link above and select "Download Tableau Desktop". On the form, enter your school email address for Business E-mail and enter the name of your school for Organization.
- 3. You are going to need a license key to use Tableau: TC50-E939-BD30-6688-BCA4

Validation

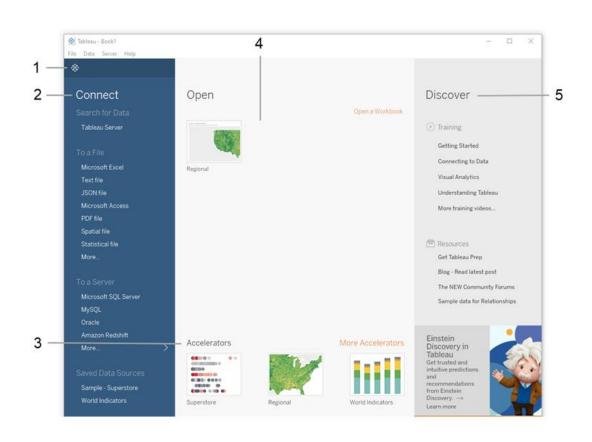


- Once you have installed/open Tableau, this is the landing page you should see:
- ➤ You are ready to do the practical exercises!
- ➤ (Please report any issues to the lecturer.)
- ➤ Click for sample-superstore dataset for first set of excercises



Connect to your data





➤ Open Tableau Desktop and begin

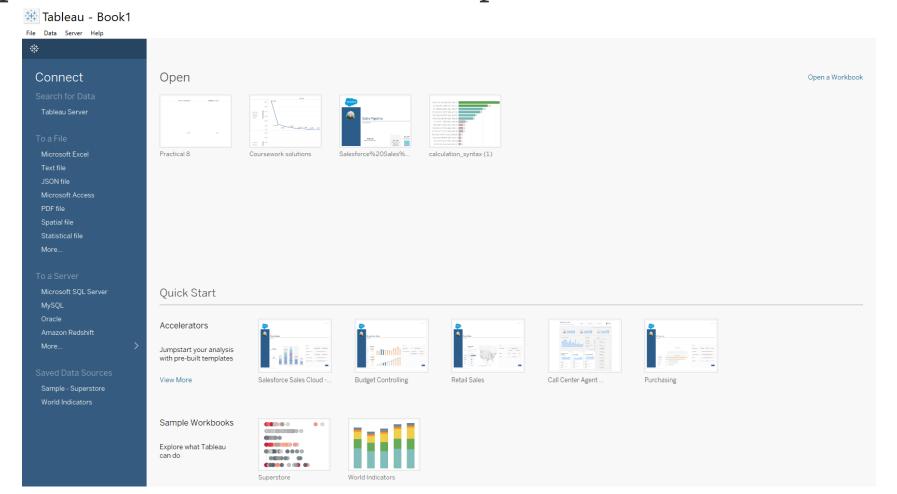
The start page gives you several options to choose from:

- 1. Tableau icon. Click in the upper left corner of any page to toggle between the start page and the authoring workspace.
- 2. Connect pane. Under Connect, you can:
- •Connect to data that is stored in a file, such as Microsoft Excel, PDF, Spatial files, and more.
- 4. Under Open, you can open workbooks you've already created.
- 5. Under Discover, find additional resources like video tutorials, forums, or the "Viz of the week" to get ideas about what you can build.

Connect to your data

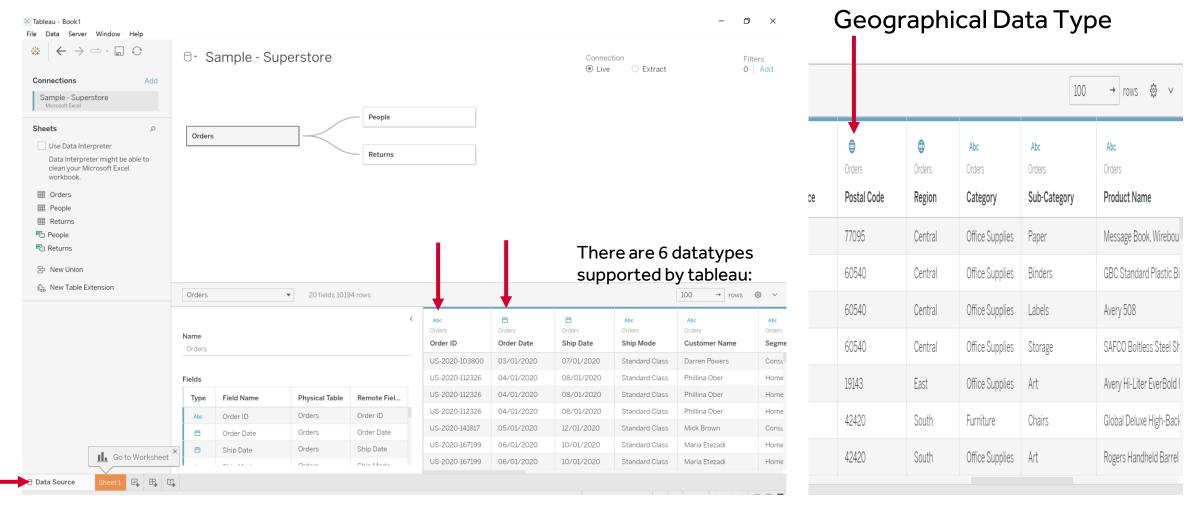


➤ In the **Connect** pane, under **Saved Data Sources**, click **Sample - Superstore** to connect to the sample data set.



Connect to database

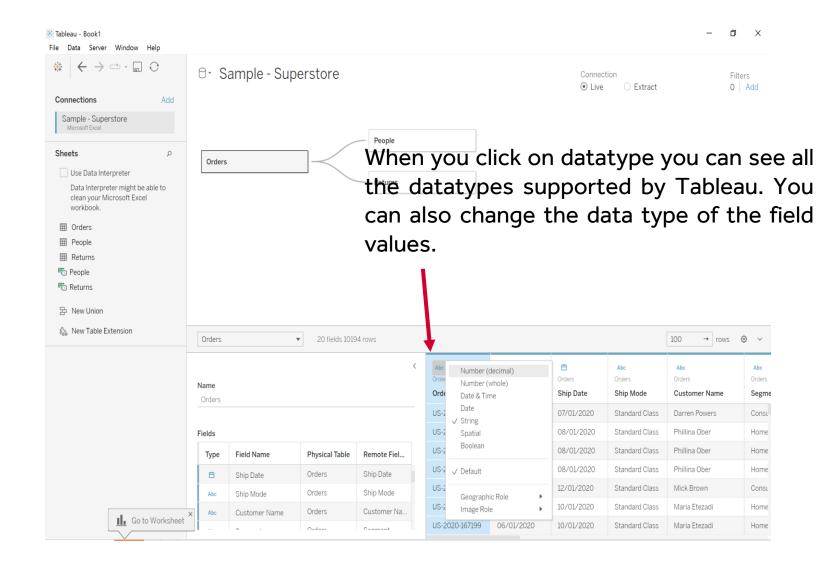




Click on Data Source to view the data.

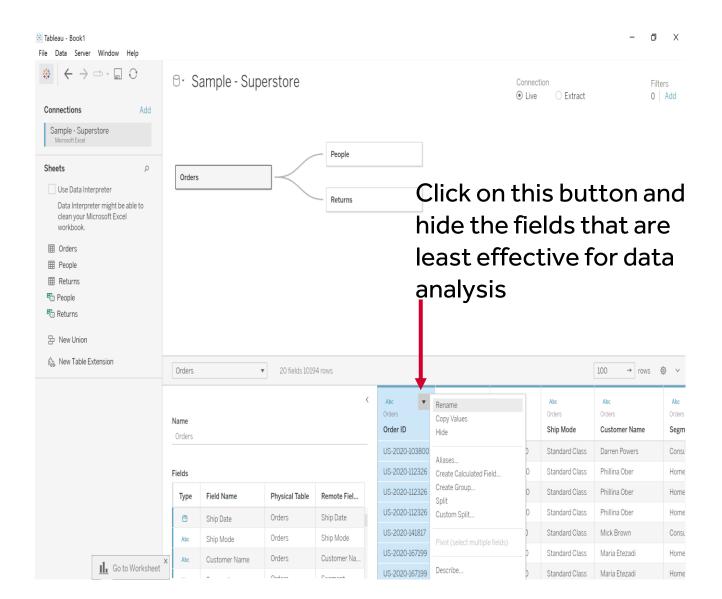
Data Types

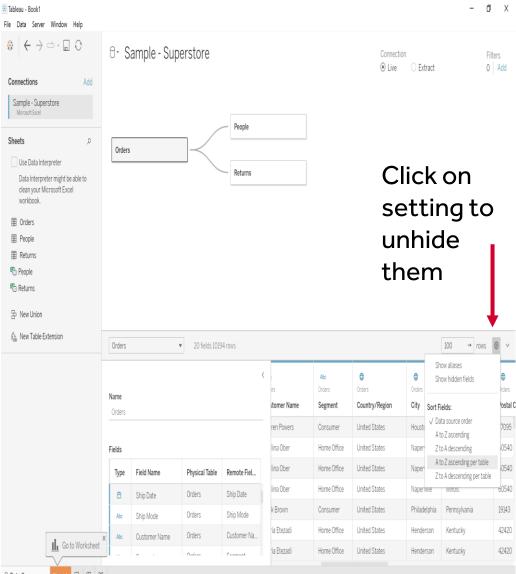




Hide and Unhide the fields

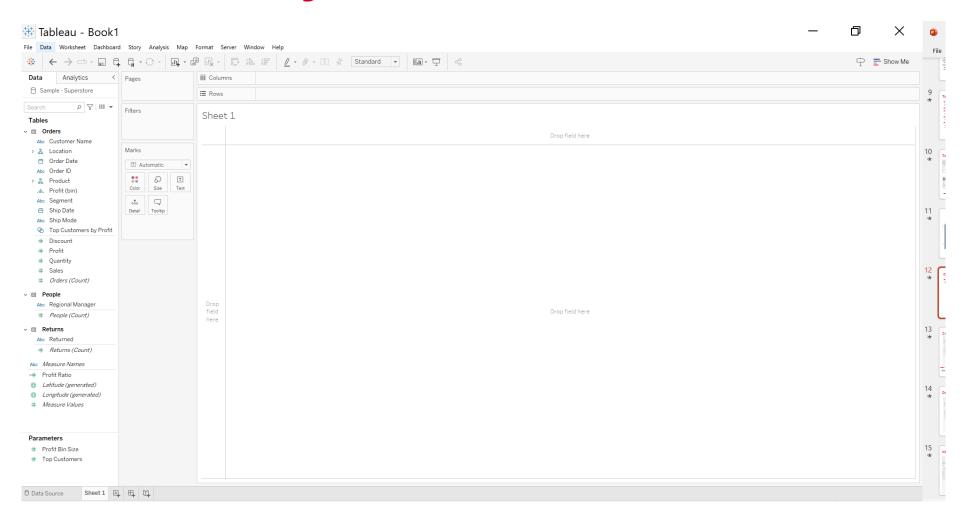




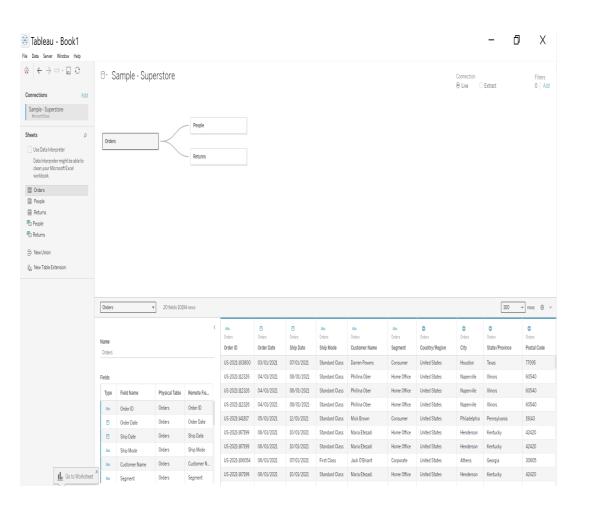


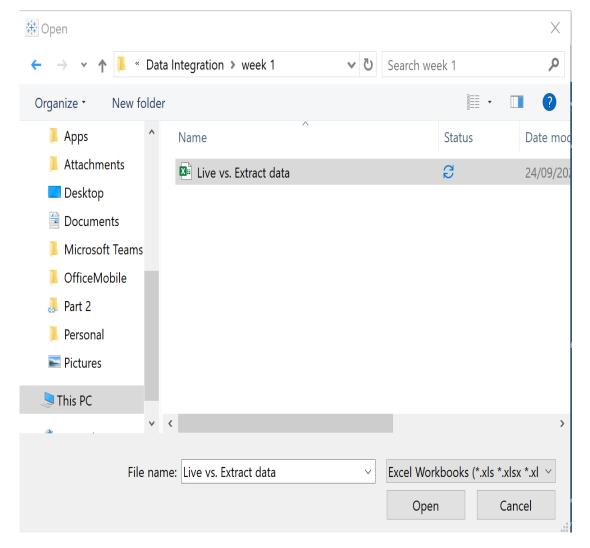


Connect to your data



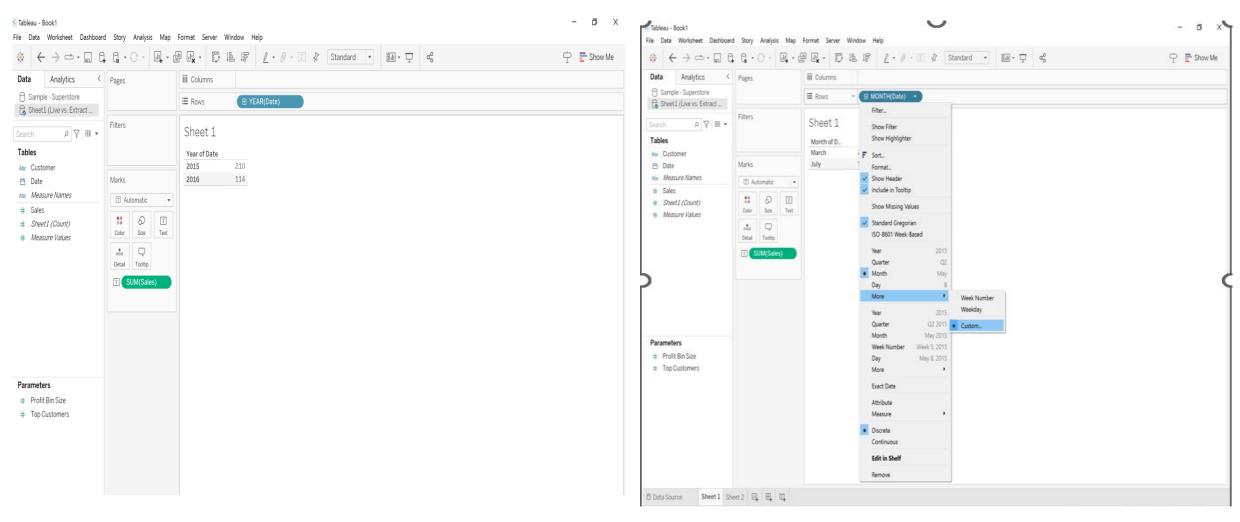






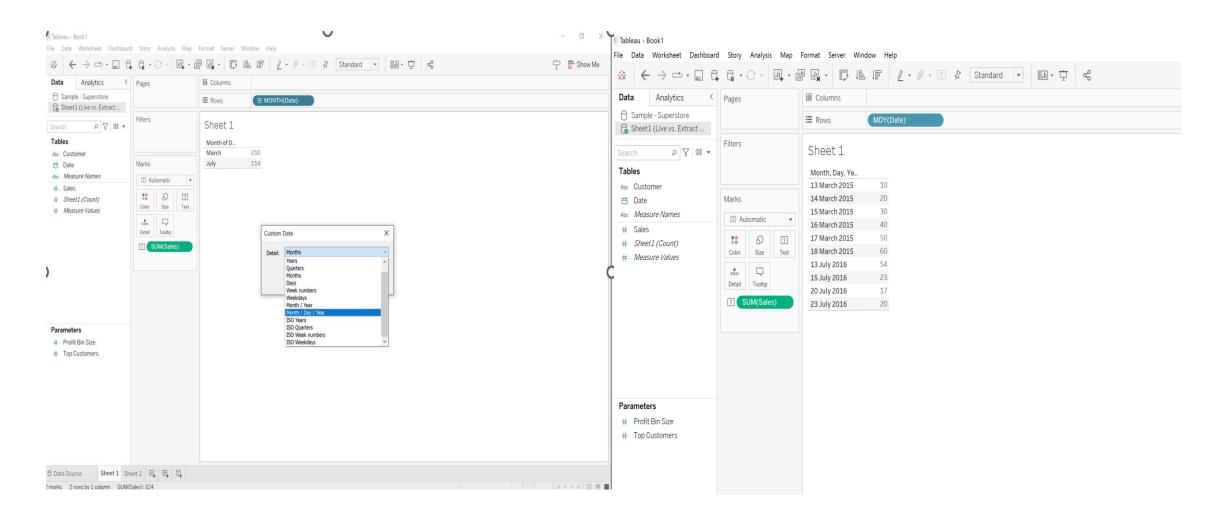






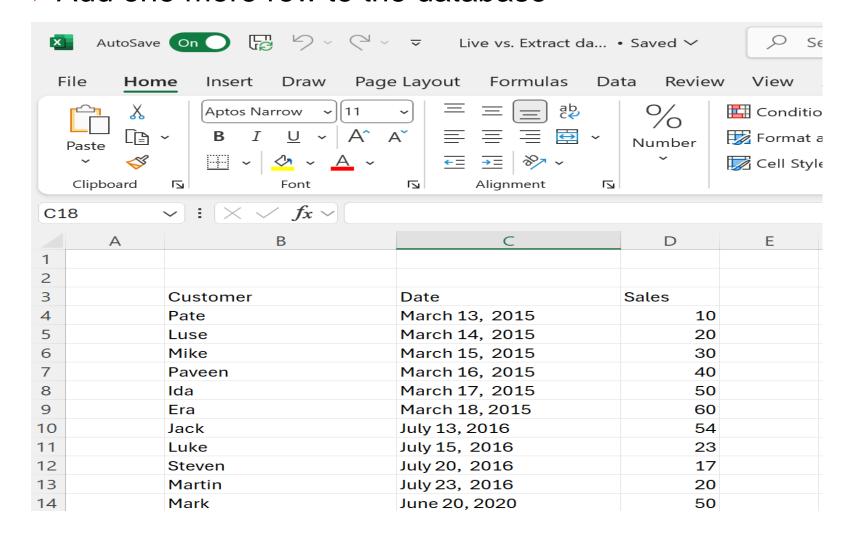






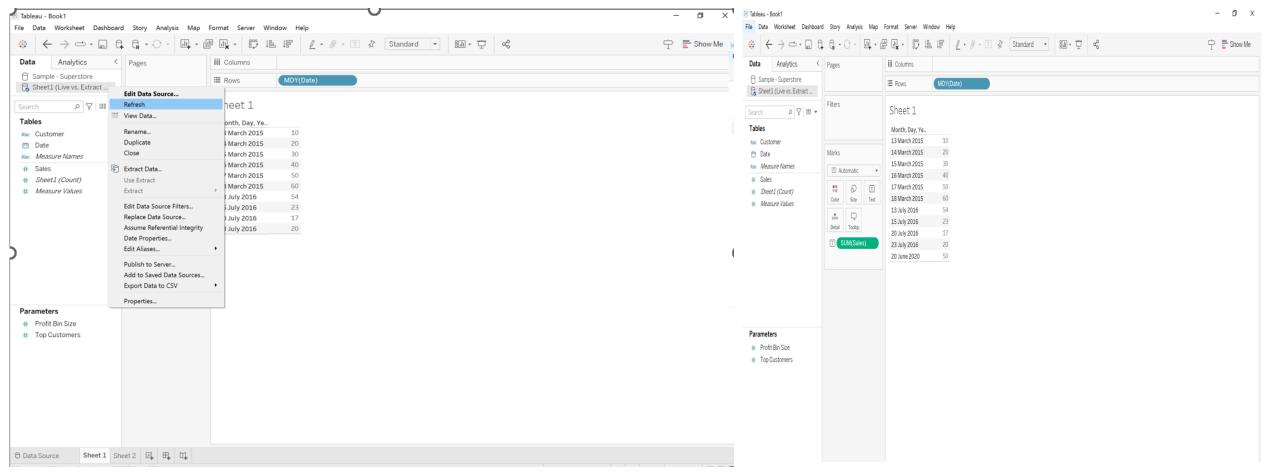


>Add one more row to the database



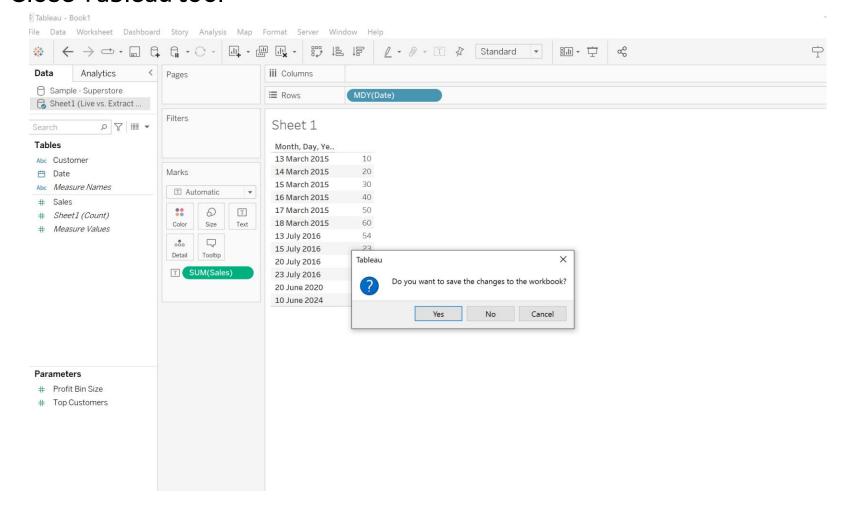


> You could see the added row in the visualization

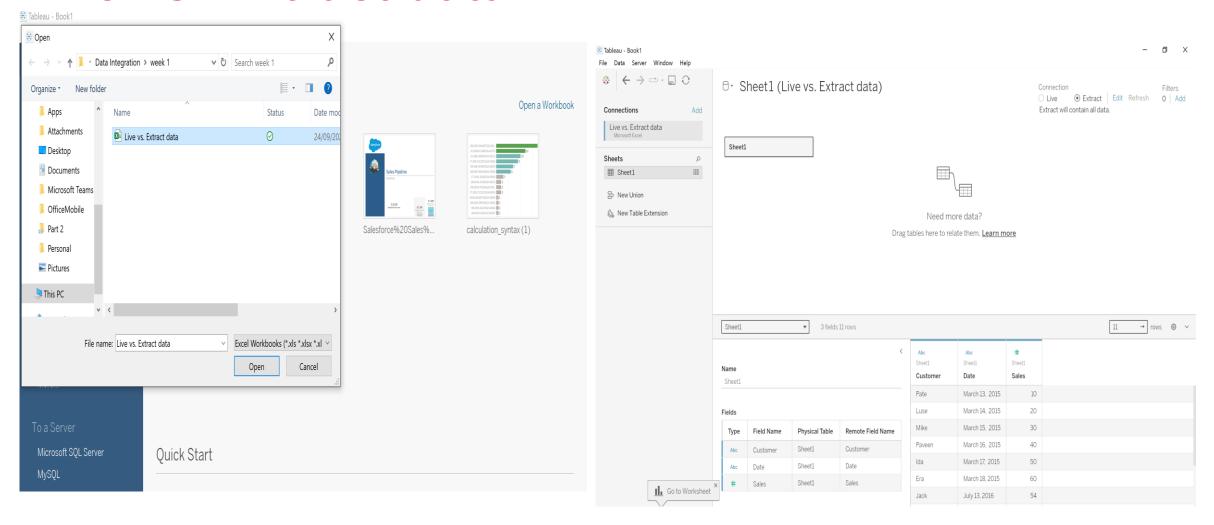


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Close Tableau tool

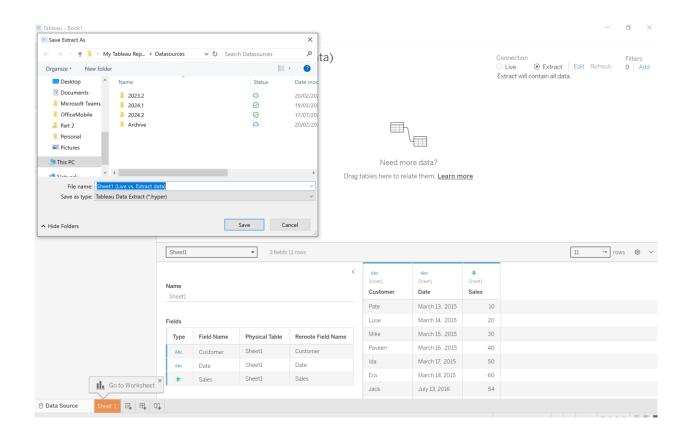






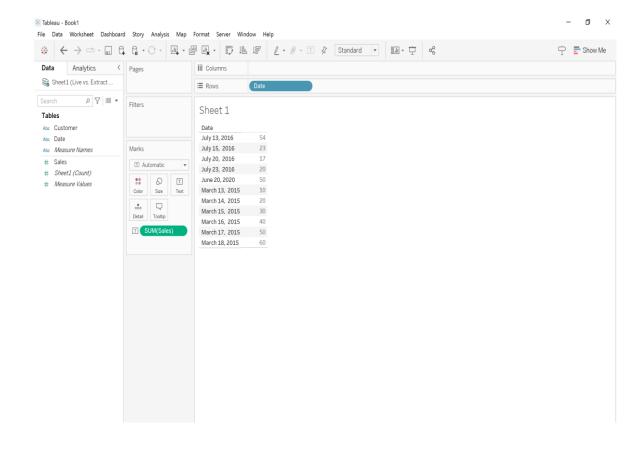


➤ Click to 'Sheet' in the bottom bar and it will save a snapshot of the database.



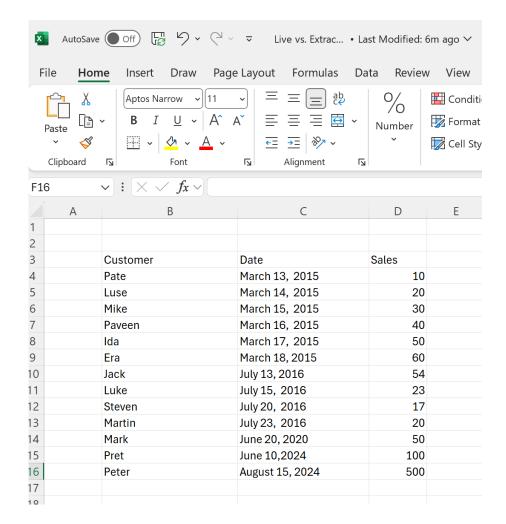


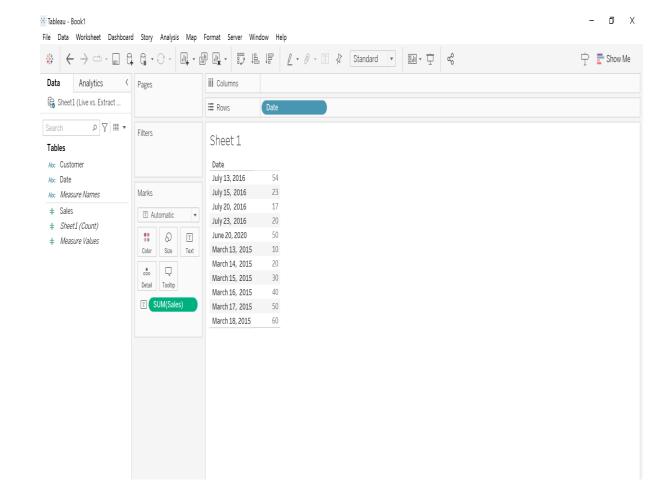
➤ Analyse the dataset





Add one more row to the dataset and press the refresh button again in Tableau tool, New changes will not appear in the visualization in 'Extract option.







Questions

