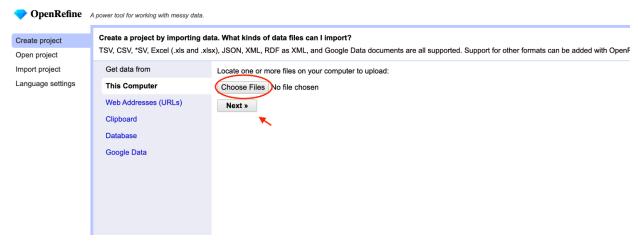
# PRODUCT USER'S MANUAL

# **Clean Datasets**

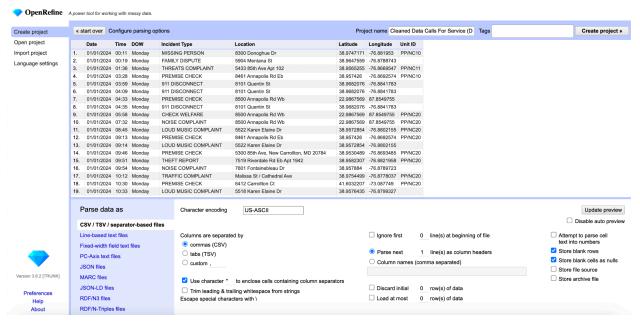
There are multiple options to clean data, including using Excel, Tableau Prep, Programming process such as using Pandas Library within Python.

We used **OpenRefine** for this process.

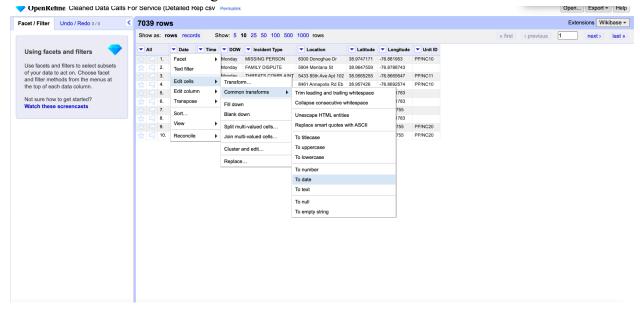
- 1. Download and Open OpenRefine:
  - a. Open OpenRefine and it should open in your Web Browser
- 2. Create a project:
  - a. Upload the dataset file that you want to clean and click Next



- b. Make sure the data is showing clearly in the table
  - i. If there are issues, you can change the 'Columns are separated by'
    - 1. This works by separating the columns by different options such as commas, tabs, or custom option
- c. Click Create Project in the Top Right corner
- 3. Clean the data:



- a. Clean the data through Editing Cells and making transformations such as:
  - i. Create Text facets to view different values of a column
  - ii. Ensuring dates are in the proper date format
  - iii. Ensuring numerical values are in number format
  - iv. Removing Blank or Null rows



b. Once finished cleaning data, Export the dataset as Excel (.xls)

## **Get Tableau Public**

### 1. Download Tableau

a. Search on Google - "Tableau Public"

- b. Or use this link: Tableau Public
- c. Download Tableau Desktop Public Edition
  - i. Or Professional Edition (If you have purchased license)

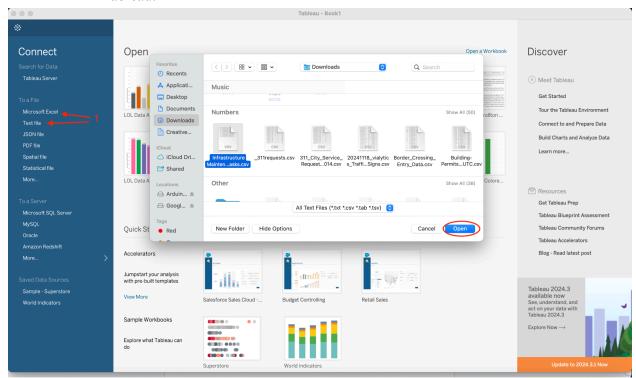
# 2. Sign in Using New Carrollton Credentials

- a. Top right of the Screen you will see a "sign in" button, click it and sign in using these:
- b. Email: <u>newcarrollton3@gmail.com</u>
- c. Password: NewCarrollton123!

# **Navigate Tableau Desktop Application**

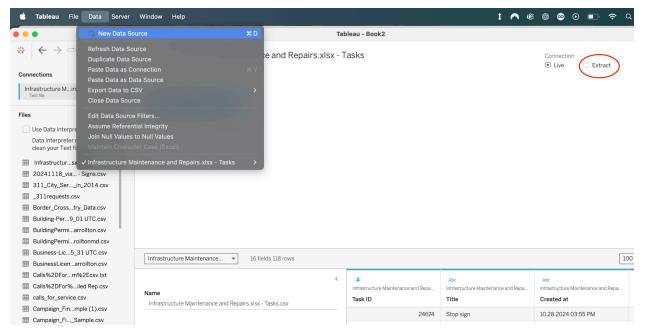
# 1. Open Tableau Desktop:

- a. Launch the Tableau Desktop application.
- b. On the start page, select "Open" to load the cleaned dataset (Excel file) into Tableau.



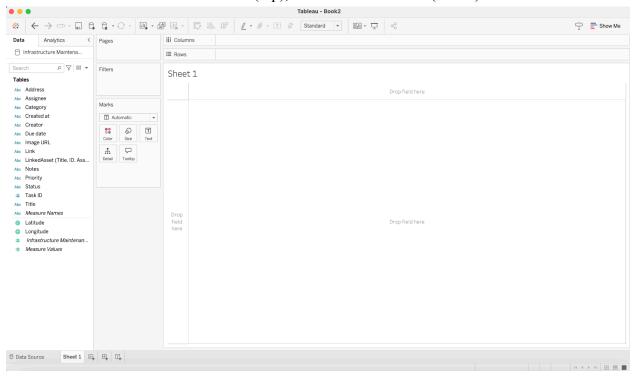
#### 2. Connect to Your Data Source:

- a. In the Connect pane, choose the appropriate file type (e.g., Excel, CSV).
- b. Browse and select your cleaned dataset.
- c. Tableau will load the data into the Data Source tab.



### 3. Go to the Worksheet:

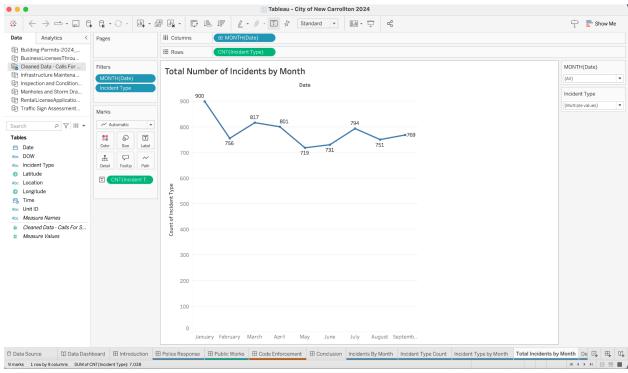
- a. At the bottom, click on the "Sheet 1" tab to start working with the data.
- b. Tableau's workspace will now open, showing the Data Pane (left), the Columns/Rows shelves (top), and the blank canvas (center).



**Editing Tableau Dashboards** 

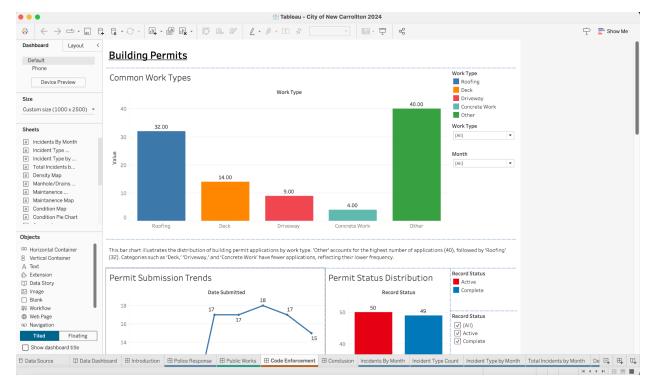
# 1. Start Building Visualizations:

- a. Drag and drop fields from the Data Pane into the Rows and Columns shelves to create charts.
- b. Use the "Show Me" panel (top-right) to choose chart types, such as bar charts, line graphs, or maps.



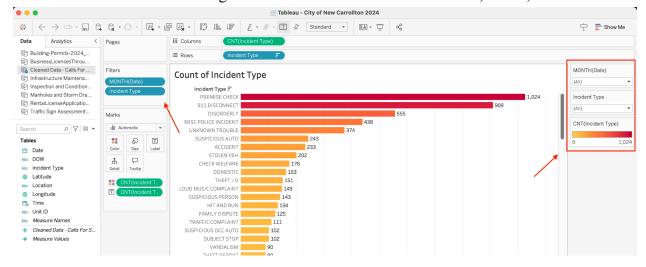
#### 2. Build Dashboards:

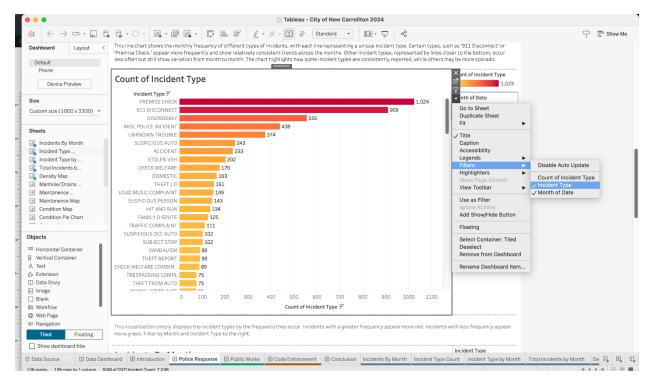
- a. Click on the Dashboard icon at the bottom to create a new dashboard.
- b. Drag your worksheets onto the dashboard canvas to arrange them.
- c. Use Tiled or Floating options to position charts, filters, and legends.



# 3. Customize and Add Interactivity:

- a. Add Filters: Drag filters onto the dashboard to allow users to explore the data (e.g., by date or category).
- b. Add Titles and Instructions: Use the Text Object to add titles or user instructions.
- c. Format charts: Right-click on visual elements to edit fonts, colors, and borders.





### 4. Create Data Story:

- a. Click on the Story icon at the bottom to create a new Story.
- b. Drag your dashboard onto the story canvas.
- c. Click on Blank under New Story Point to create a page for each dashboard.

### 5. Save and Export:

- a. Save the project locally as a .twbx file (Packaged Workbook) or .twb file.
- b. If using Tableau Public, click File > Save to Tableau Public to publish it.

