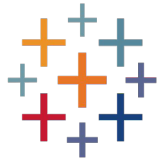


# **Data Analysis Fundamentals : Tableau**

Global Engineering Challenge - Vaccine Distribution Plan

# Data Visualization Tools



+ a b l e a u<sup>®</sup>

**Tableau**



**Microsoft  
Excel**



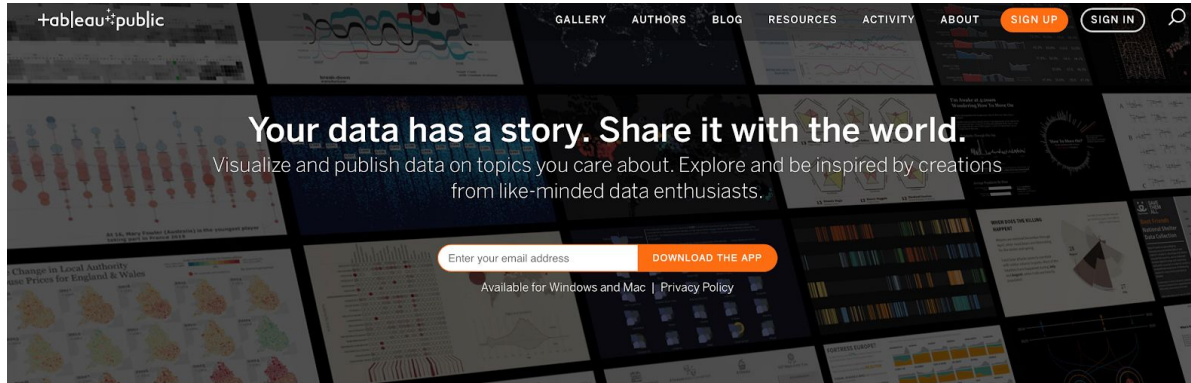
**Power BI**

**Power BI**

# Installing Tableau Public



<https://public.tableau.com/s/>



## Data Storytelling

Easily create stunning interactive visualizations on our free



## Spark Conversation

Connect with authors from around the world. Embed your



## Be Inspired

Explore and interact with the most extensive library of data

# Data Visualization in Tableau

1. Connect to Your Data
2. Set Up Data Sources
3. Visualize your Data
4. Create Dashboards

# 1. Connect to Your Data

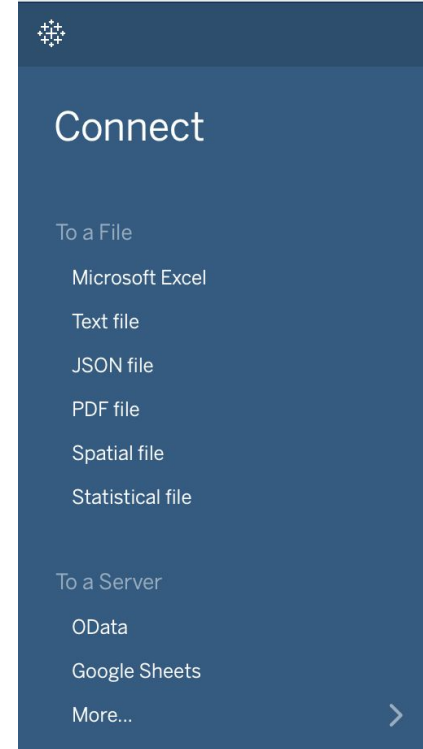
Before you can build a view and analyze your data, you must first connect Tableau to your data. Tableau supports connecting to a wide variety of data, stored in a variety of places.

To a File:

- Microsoft Excel (.xls, .xlsx, .xlsm)
- Text file (.txt, .csv, .tab, .tsv)
- JSON file (.json)
- PDF file
- Spatial file (.geojson, .json, .kml, .mif, .shp, .tab, .zip etc)
- Statistical file (.sav, .rda, .rdata)

To a Server:

- Google Sheets



## 2. Set Up - Data Source

Tableau Public - COVID-19 vaccine doses administered in Canada

vaccination-administration.csv (Multiple Connections)

Filters: 0 | Add

Connections: Add

- canada\_provinces (Spatial file)
- vaccination-administration (Text file)

Files: P

☐ Use Data Interpreter  
Data Interpreter might be able to clean your Text file workbook.

☒ vaccination-administration.csv

New Union

Need more data?  
Drag tables here to relate them. [Learn more](#)

Sort fields: Data source order

☐ Show aliases ☐ Show hidden fields 518 rows

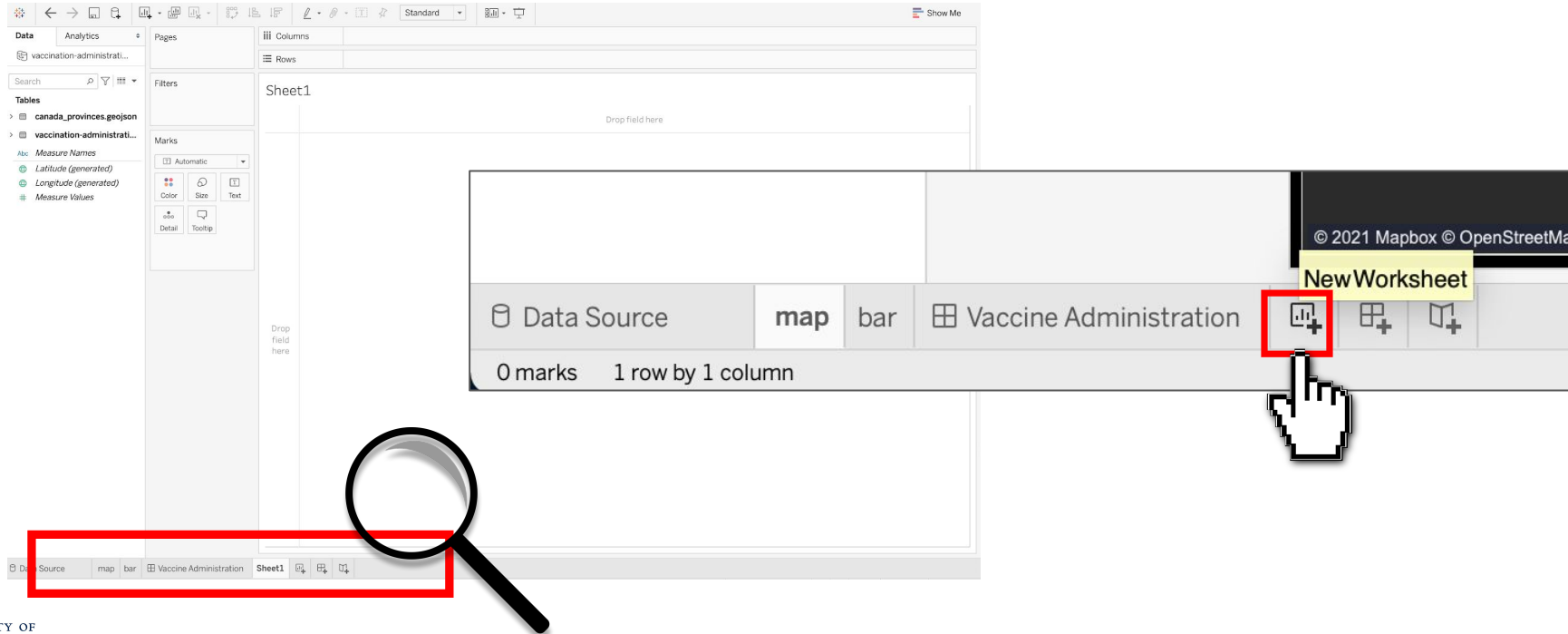
#	Abc	vac	#	#	#	#	#	#
vaccination...	vaccination-administrati...	vaccination-administrati...	vaccination-administrati...	vaccination-administrati...	vaccination-administrati...	vaccination-administrati...	vaccination-administrati...	vaccination-administrati...
Pruid	Prename	Report Date	Numtotal All Admi...	Numtotal Pfizerbi...	Numtotal Modern...	Numtotal Unkno...	As Of Date	Updat
1	Canada	2021-01-12	267,078	null	null	null	2021-01-12	
35	Ontario	2021-01-12	122,105	null	null	null	2021-01-10	
59	British Columbia	2021-01-12	59,902	null	null	null	2021-01-11	
48	Alberta	2021-01-12	46,791	null	null	null	2021-01-10	
47	Saskatchewan	2021-01-12	8,948	null	null	null	2021-01-11	
12	Nova Scotia	2021-01-12	2,720	null	null	null	2021-01-05	
46	Manitoba	2021-01-12	10,353	null	null	null	2021-01-11	
13	New Brunswick	2021-01-12	7,732	null	null	null	2021-01-11	
10	Newfoundland and L...	2021-01-12	3,760	null	null	null	2021-01-06	
11	Prince Edward Island	2021-01-12	4,226	null	null	null	2021-01-11	
61	Northwest Territories	2021-01-12	512	null	null	null	2021-01-11	
62	Nunavut	2021-01-12	29	null	null	null	2021-01-09	

Data Source: map bar Vaccine Administration

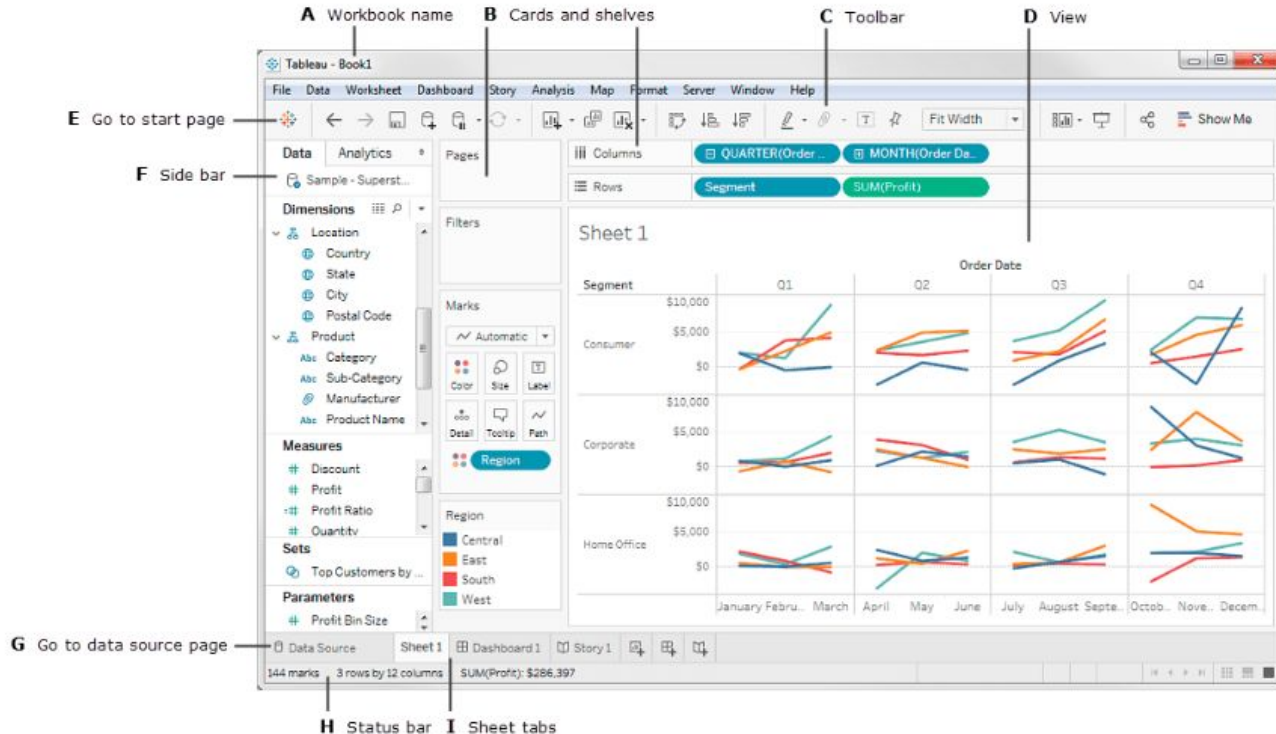
Sarah L.

# 3. Visualize your Data: Tableau Workspace

You can visualize your Data on Tableau Worksheet



# 3. Visualize your Data: Tableau Workspace



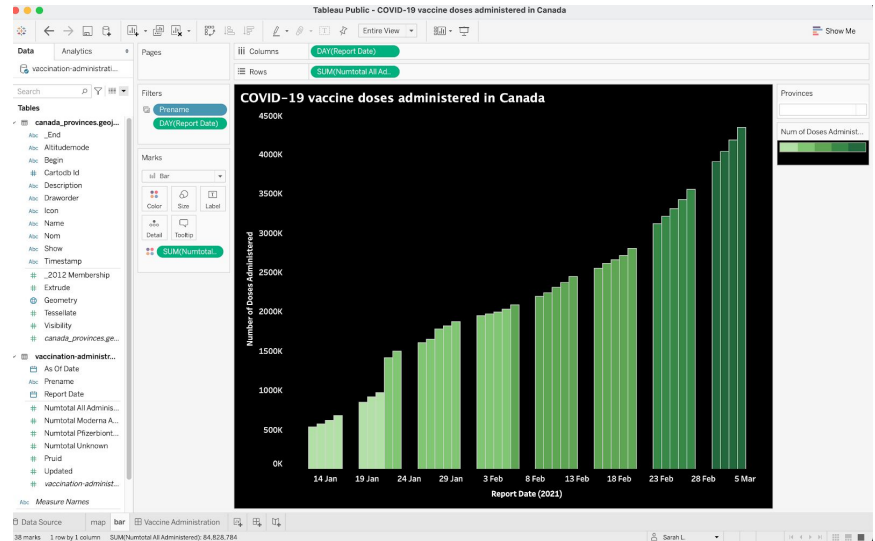
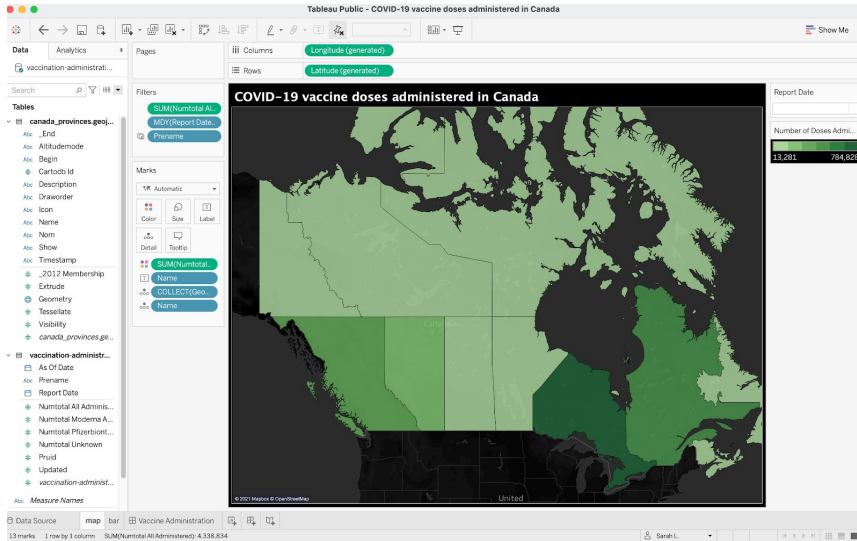


# 3. Visualize your Data: Practice

If you want to follow along with us, you can download the file from the link below

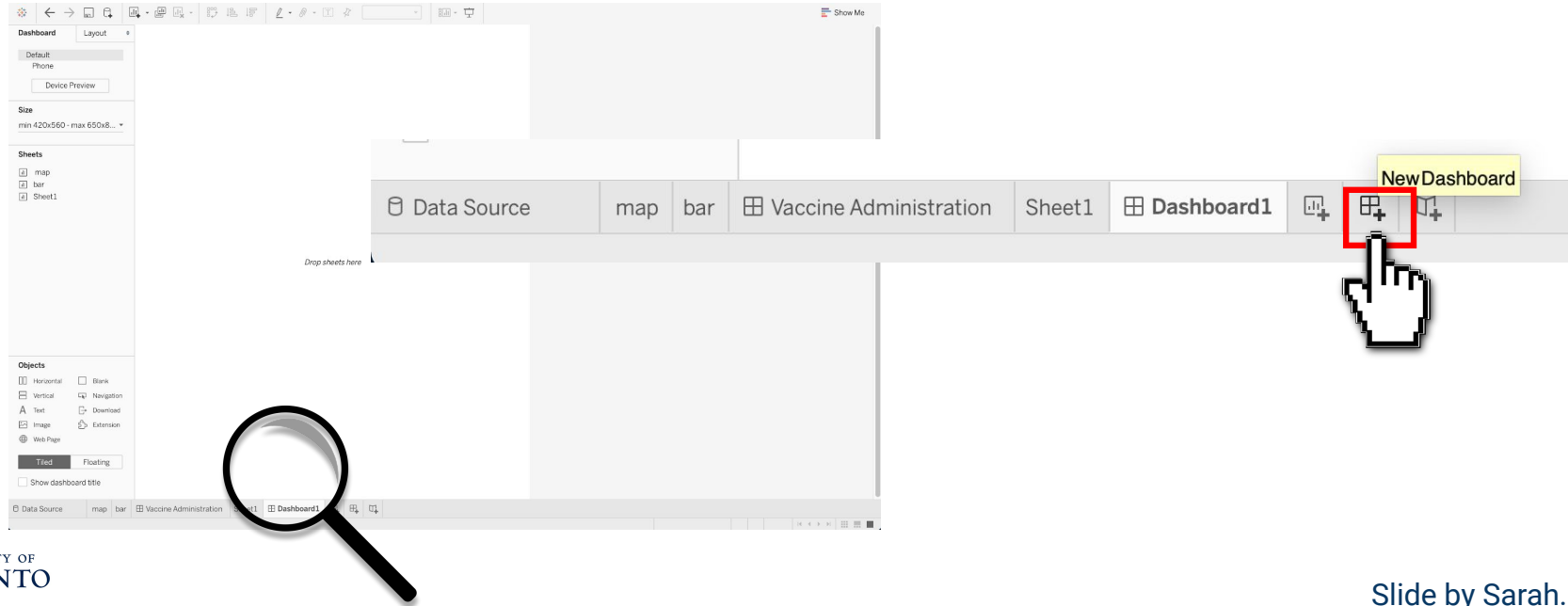
Optional: Download COVID-19 vaccine doses administered in Canada.twbx

<https://public.tableau.com/profile/gec.sarah#!/vizhome/COVID-19vaccinedosesadministeredinCanadaTeaching/map>



## 4. Create Dashboards

After you've created one or more sheets, you can combine them in a dashboard, add interactivity, and much more.



# 4. Create Dashboards: Practice

