



SCHOOL OF INFORMATION  
UNIVERSITY OF MICHIGAN

# SI 649: Tableau Tutorial 3

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# Data Models

- The tables that you add to the canvas in the **Data Source** page create the structure of the data model.
  - Single table
  - Multiple tables:
    - Different combinations of relationships, joins, and unions.

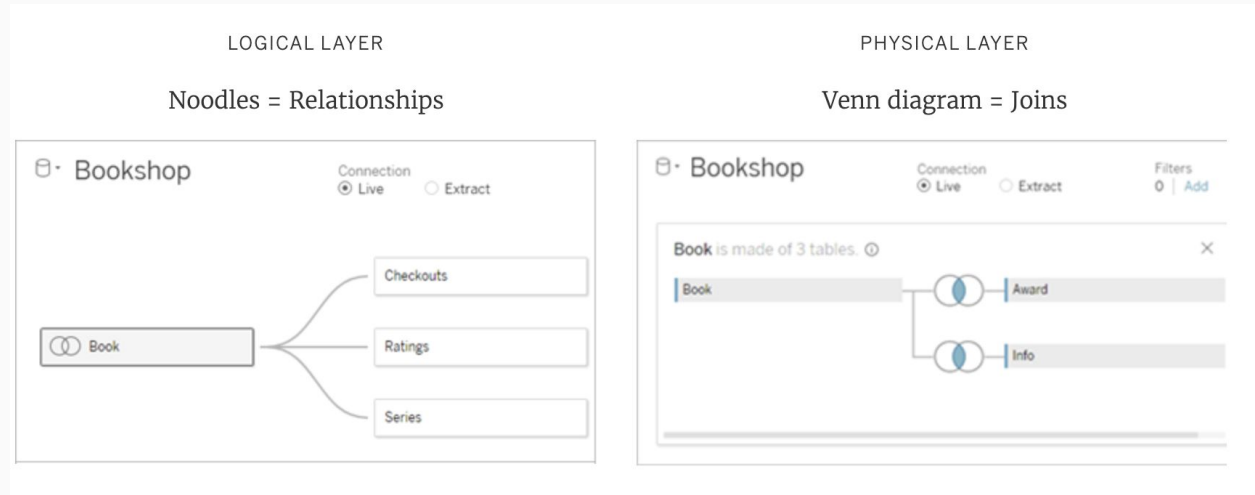
# Data Models

## Logical layer

- Relationships (or noodles)

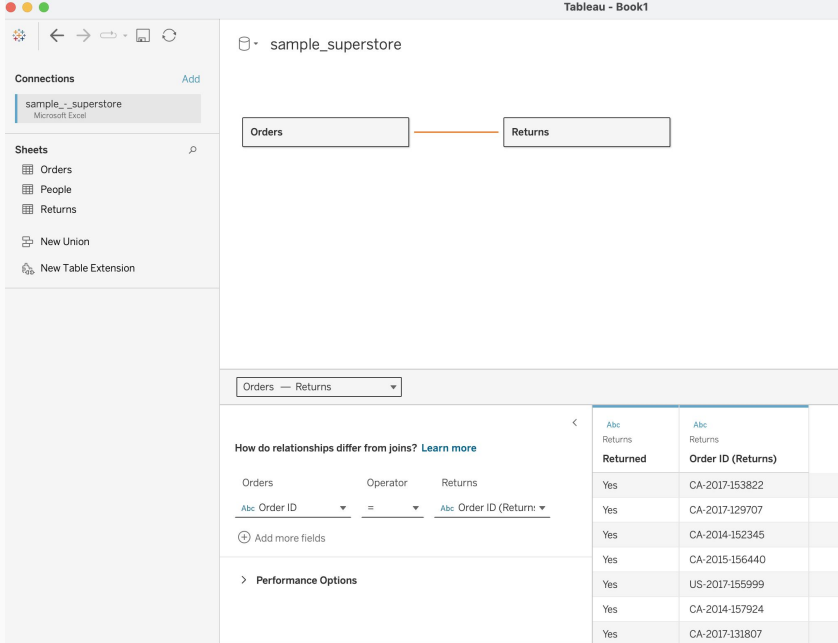
## Physical Layer

- Joins and Unions



# Connect to Data

- Dataset: Sample\_Superstore
- Merge data sources: Orders and Returns

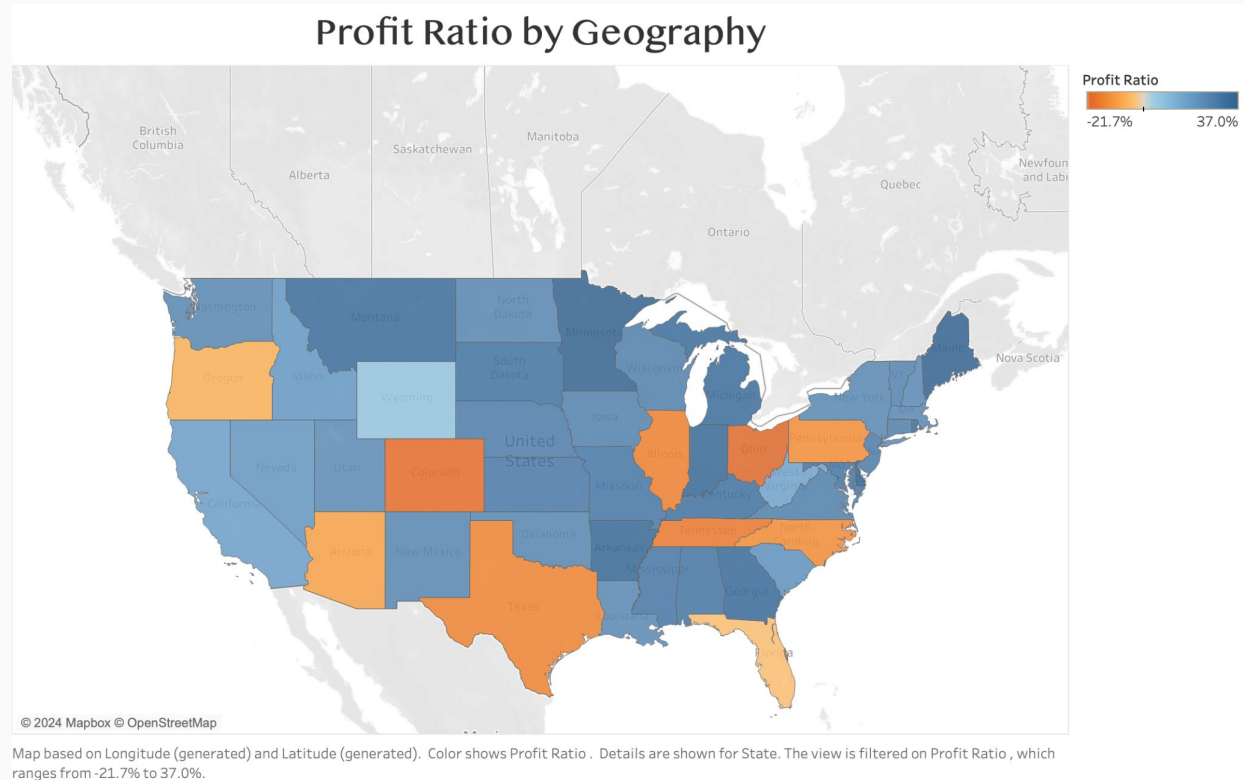


The screenshot shows the Tableau interface with a data source named 'sample\_superstore' connected to Microsoft Excel. The 'Sheets' pane on the left lists 'Orders', 'People', and 'Returns'. The main workspace displays a join relationship between 'Orders' and 'Returns' tables, indicated by an orange line. Below the workspace, a dropdown menu shows 'Orders — Returns'. The bottom section displays a preview of the joined data, showing columns for 'Orders' and 'Returns' with a 'Returned' column. A table of data is visible on the right.

Returned	Order ID (Returns)
Yes	CA-2017-153822
Yes	CA-2017-129707
Yes	CA-2014-152345
Yes	CA-2015-156440
Yes	US-2017-156999
Yes	CA-2014-157924
Yes	CA-2017-131807

# Practise

- Show Me Pane
- Search Functionality
- Value Range Filters
- Dropdown Filtering
  - Single Select
  - Multi Select



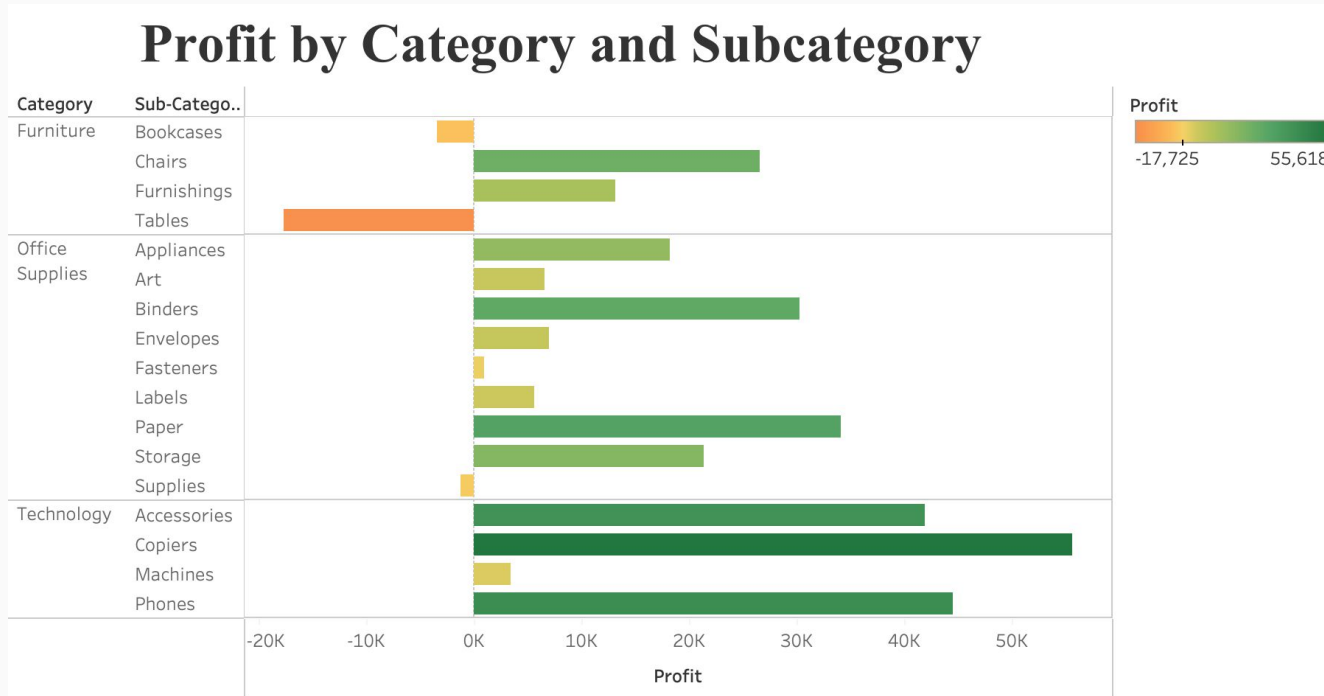
# Creating Text Tables

- Create Text Table
  - Measure Names
  - Measure Values
- Dropdown Filtering
  - Single Select
  - Multi Select

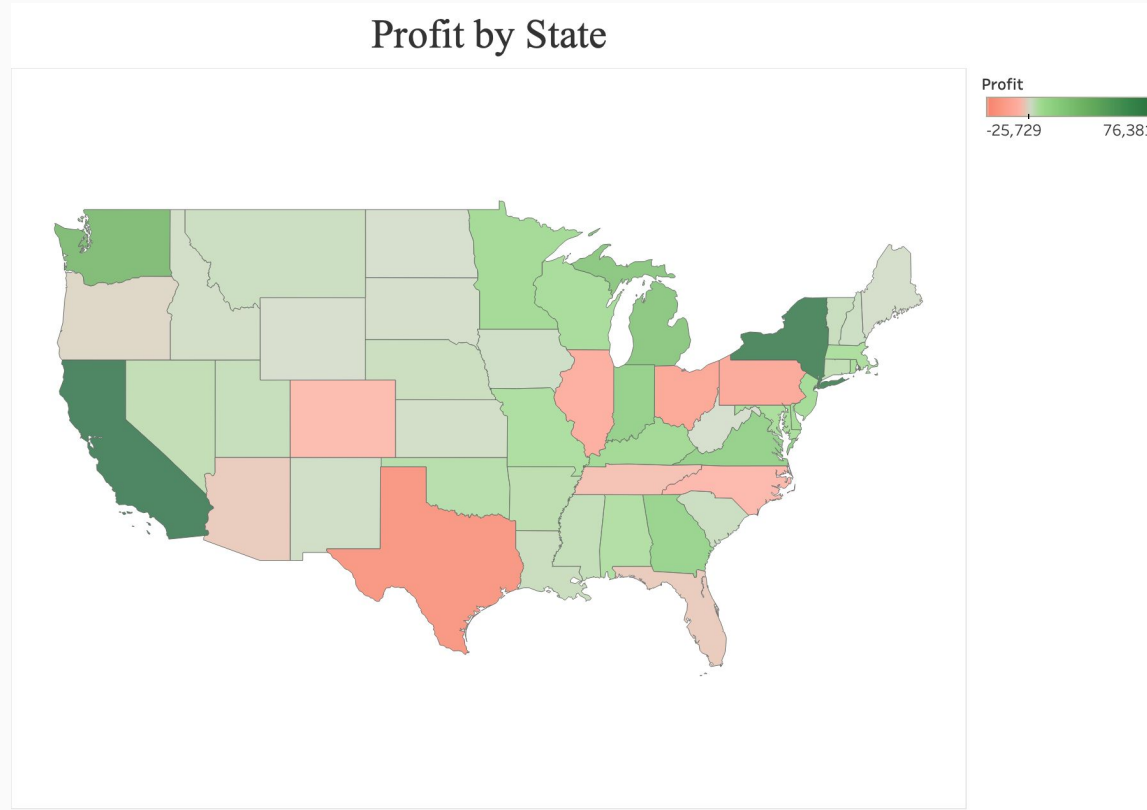
Text Table

	Category / Region											
	Furniture				Office Supplies				Technology			
	Central	East	South	West	Central	East	South	West	Central	East	South	West
Discount	143	93	40	93	359	245	167	177	56	77	32	80
Profit	-2,871	3,046	6,771	11,505	8,880	41,015	19,986	52,610	33,697	47,462	19,992	44,304
Sales	163,797	208,291	117,299	252,613	167,026	205,516	125,651	220,853	170,416	264,974	148,772	251,992

# Chart 1: Profit by Category and Subcategory

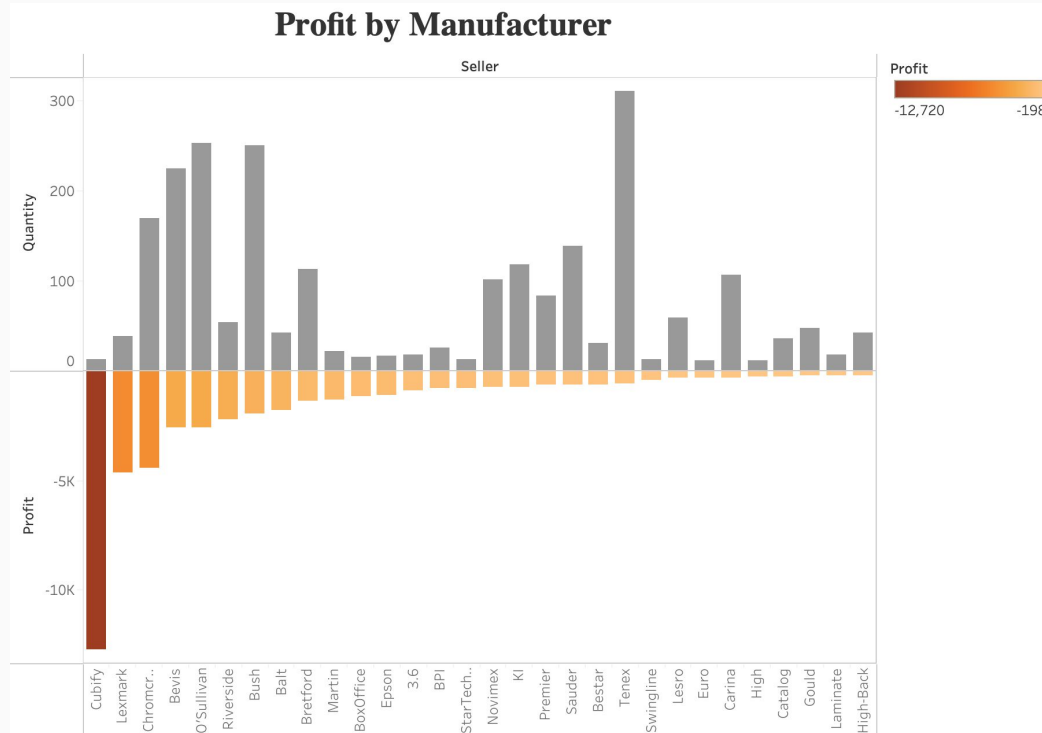


## Chart 2: Profit by State





# Profit by Manufacturer

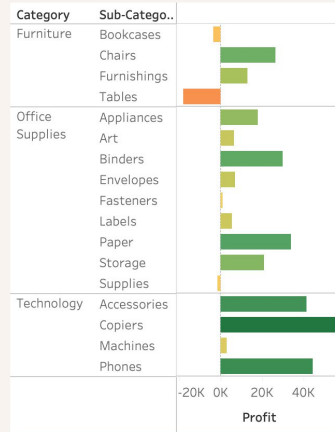




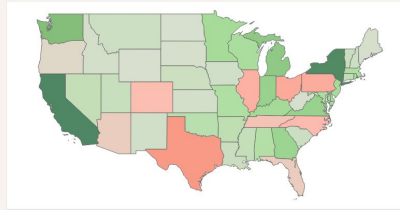
# Interactive Dashboard

## Profit and Loss Dashboard

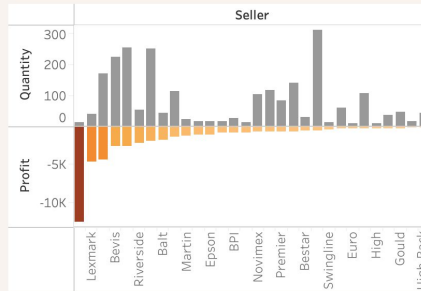
### Profit by Category and Subcategory



### Profit by State



### Profit by Manufacturer



Region

All

Year of Order Date

All

Category

All

Subcategory

All



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THANK YOU!

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