

SDSC 5002 - Tutorial 5

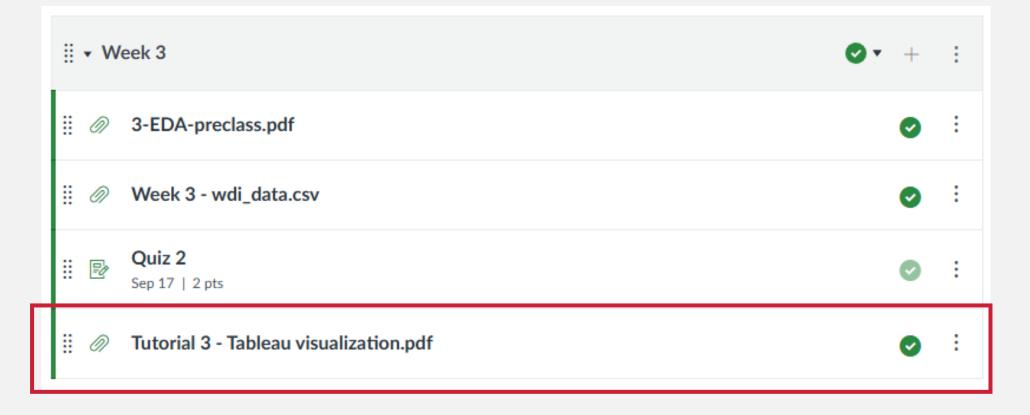
Further Visualization using Tableau

LI Yanru 2025/10/15

Pre-tutorial



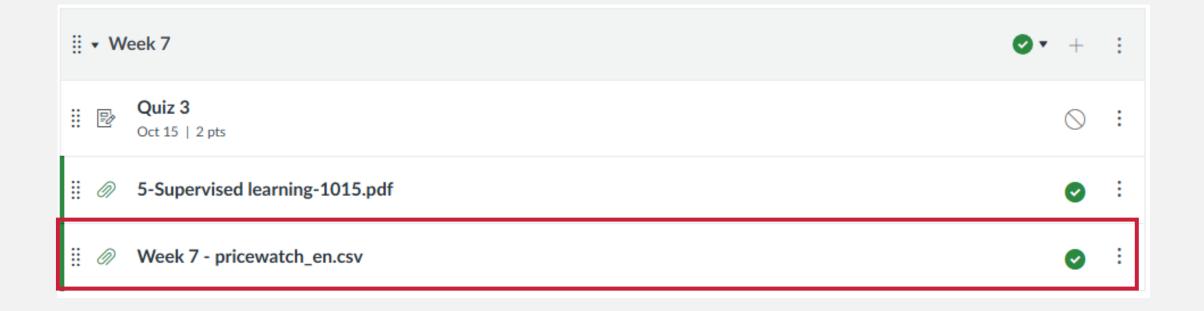
- Learn basic Tableau conceptions (data types, file type, etc.)
- Use Tableau to draw worksheets with WDI data



Learning Objectives



- Use Tableau to draw different worksheets according to questions
- Other relevant functions in Tableau



Bar Chart



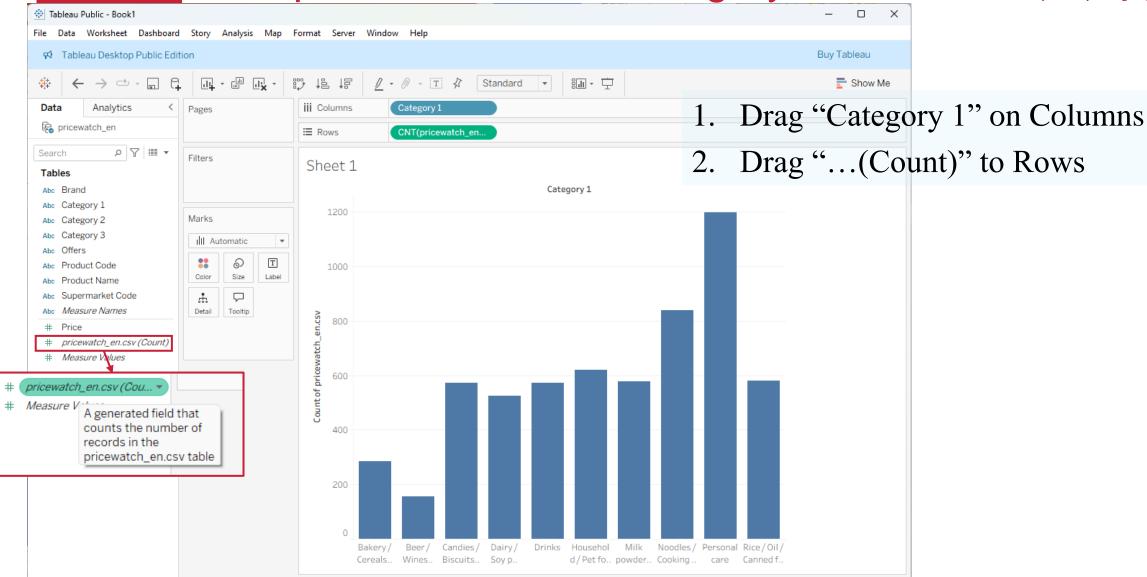
Given: Online Price Watch data (file name: pricewatch_en.csv)

Tasks:

- 1. The quantities of each category.
- 2. The prices of each category.
- 3. The quantities of each category in each supermarket.

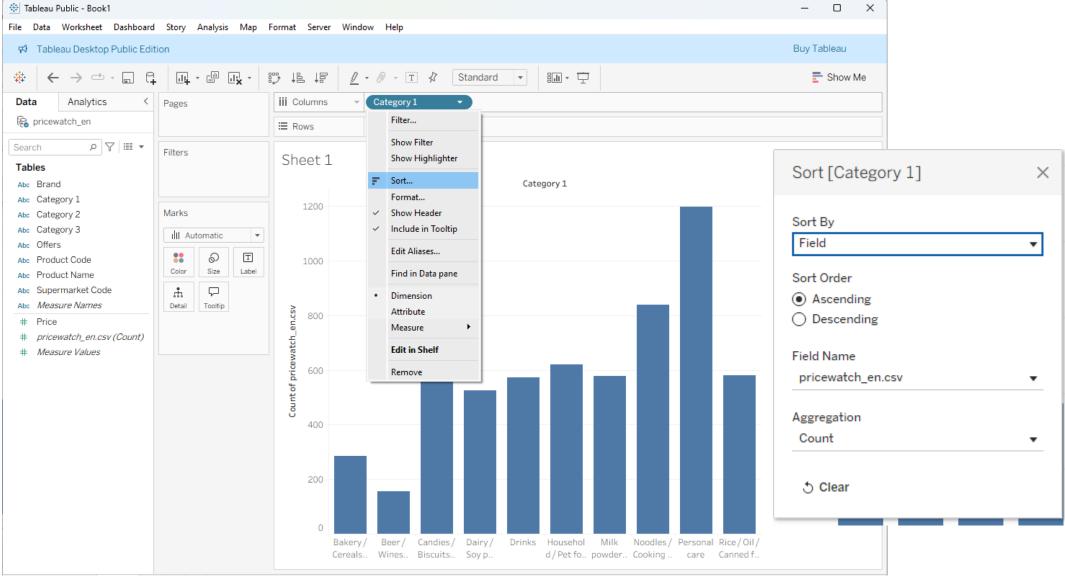


Task 1: The quantities of each category.



Sort By Field

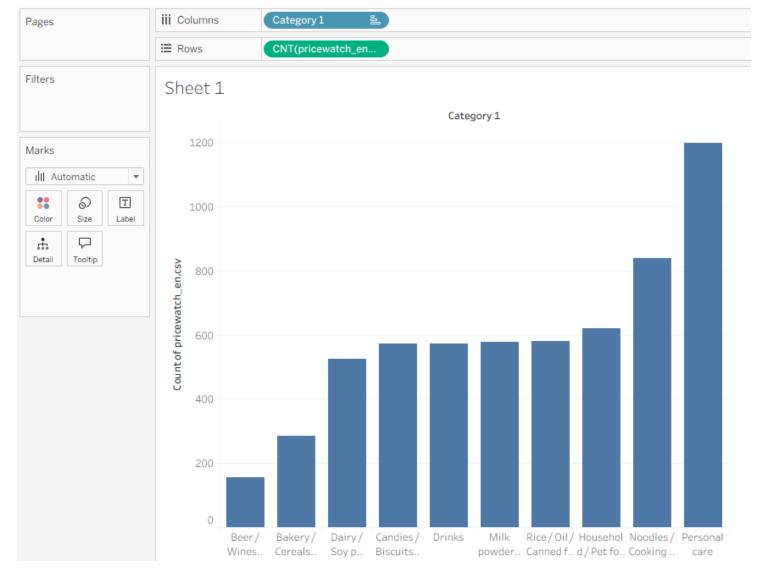




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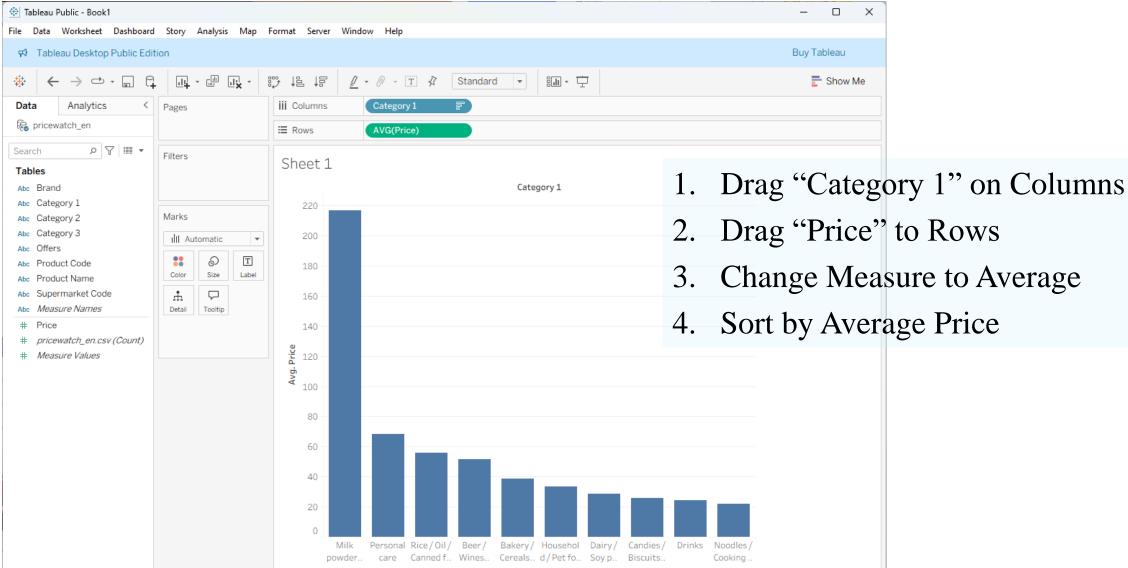


Task 1: The quantities of each category.



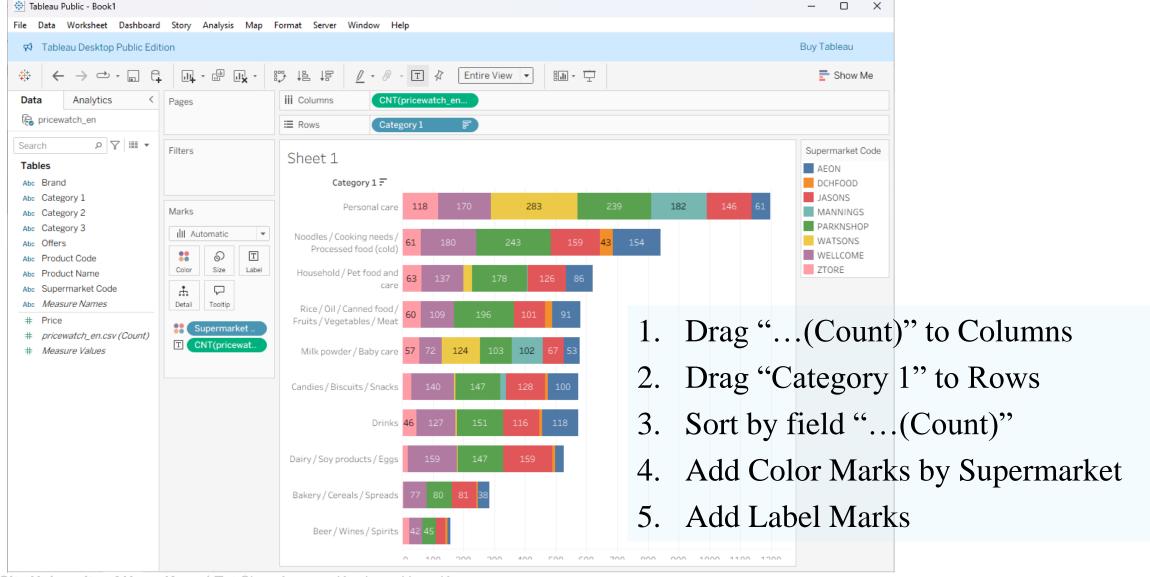
Task 2: The prices of each category.





Task 3: The quantities of each category in each supermarket.





Pie Chart



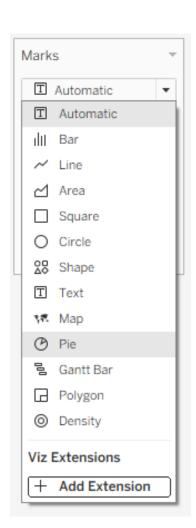
Given: Online Price Watch

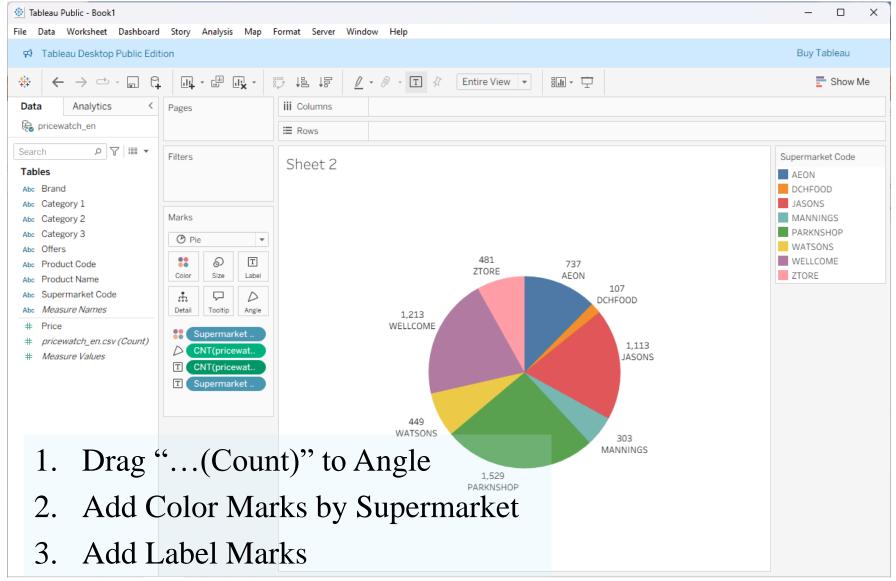
Tasks:

• The proportion of goods categories in various supermarkets.

Task: The proportion of goods categories in various supermarkets.

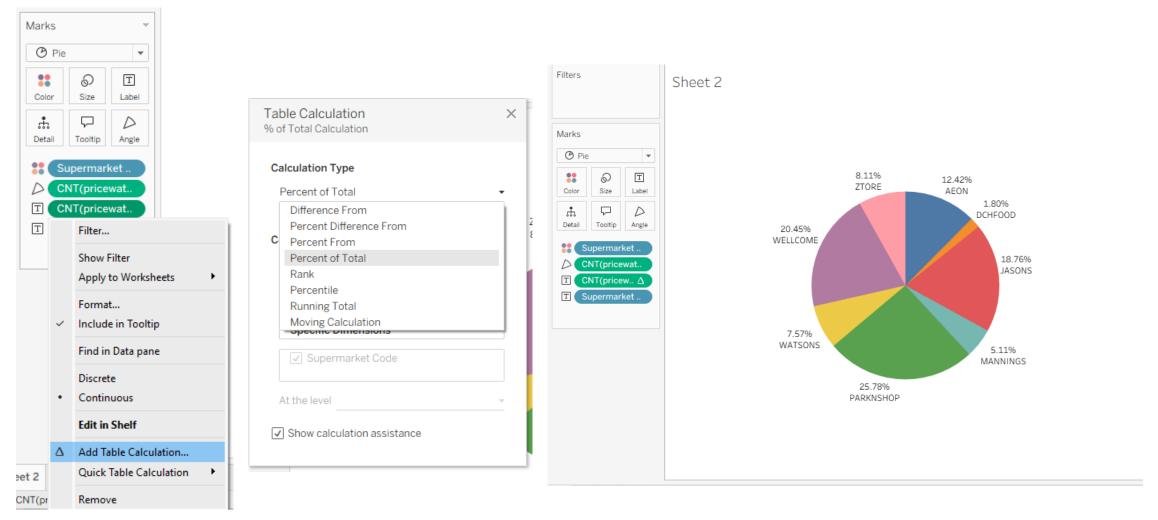






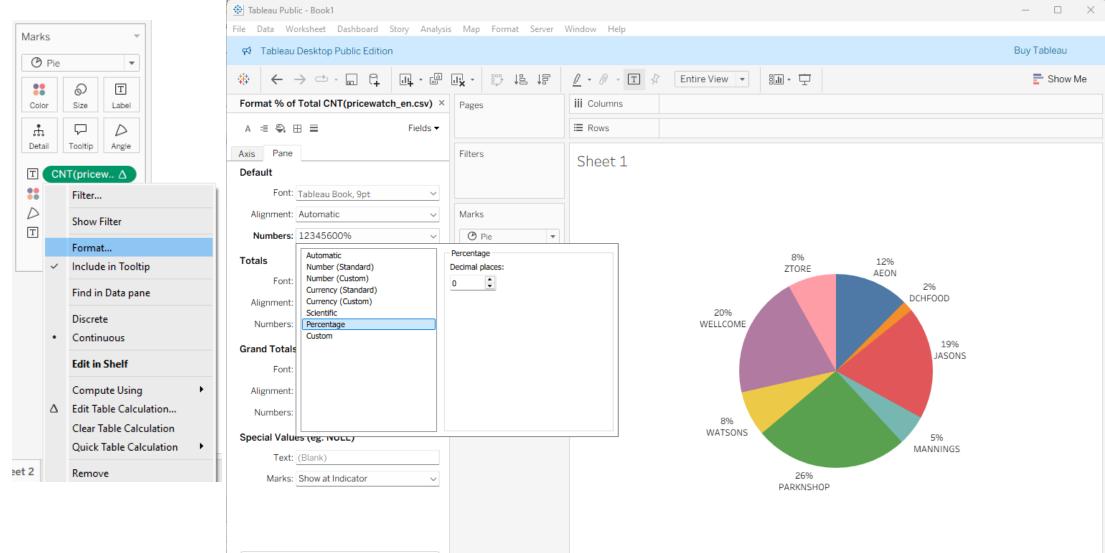
Task: The proportion of goods categories in various supermarkets.





<u>Task:</u> The proportion of goods categories in various supermarkets.

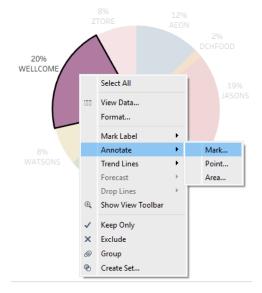




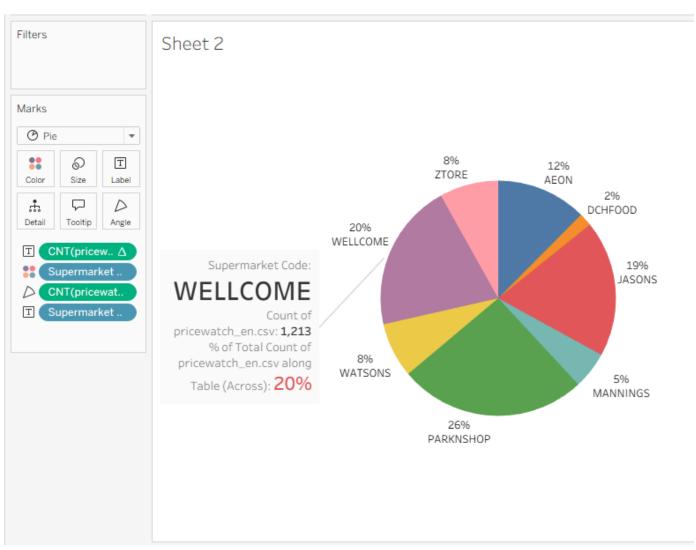
Clear

Task: The proportion of goods categories in various supermarkets.



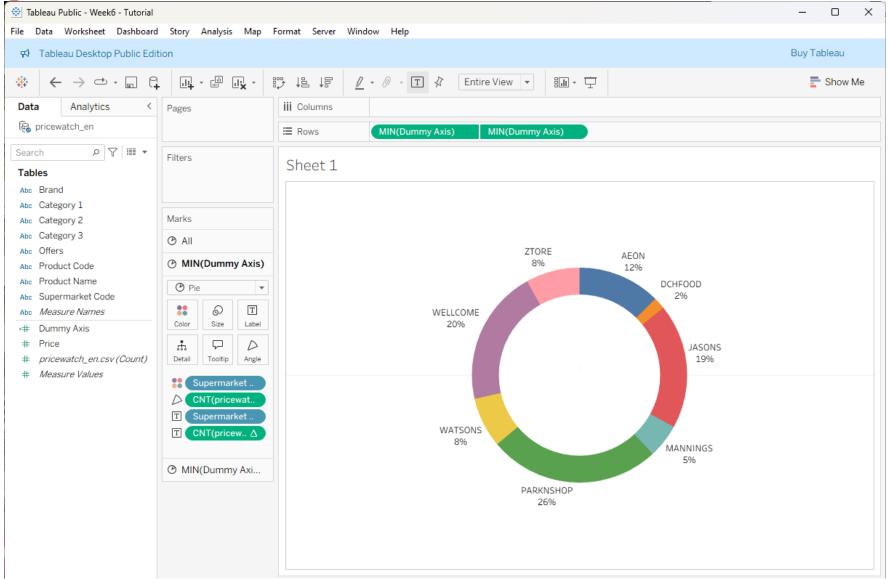








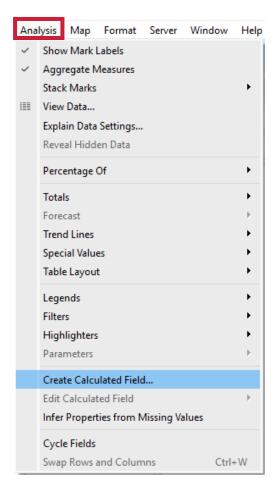


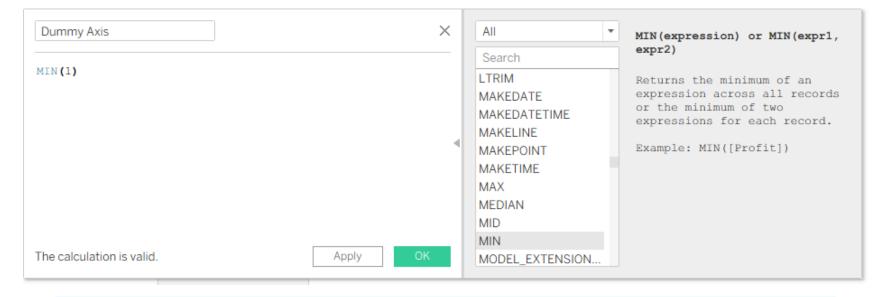


Use two pie charts to create doughnut chart



Create Calculated Field to generate the dual-axis pie chart



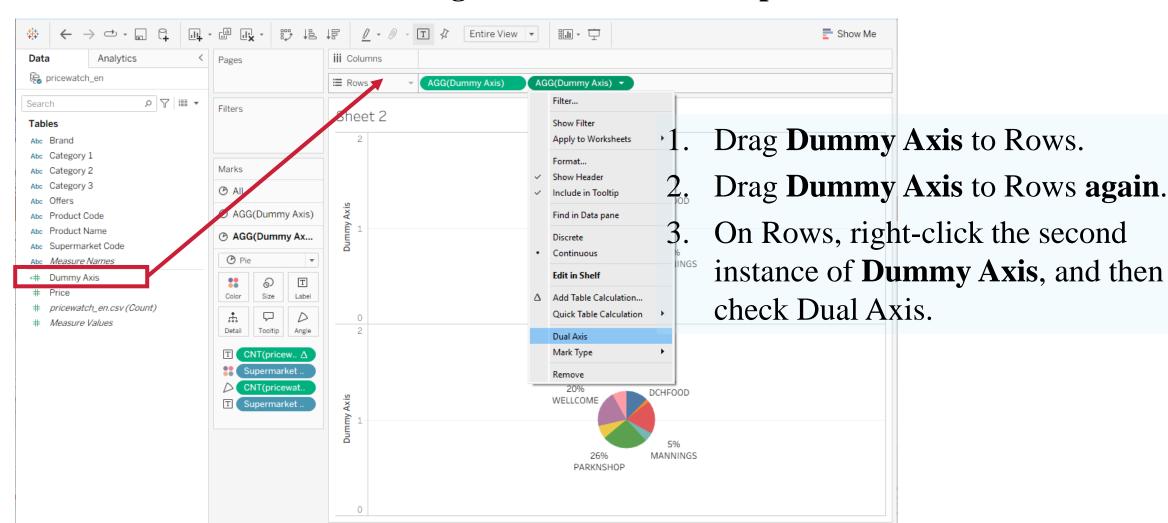


- 1. Select Analysis > Create Calculated Field.
- 2. In the Calculated Field dialog box:
 - a. Name the calculated field, e.g. "**Dummy Axis**"
 - b. In the formula field, enter the formula: **MIN(1)**





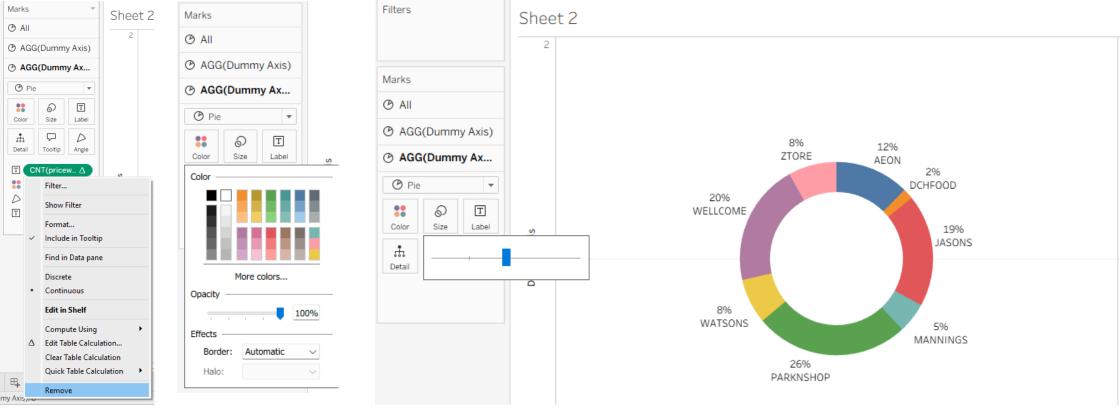
Create Calculated Field to generate the dual-axis pie chart



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Use two pie charts to create doughnut chart

- Change the second pie chart to a circle
- 1. At the bottom of the Marks card, click AGG(Dummy Axis) (2). Remove items under marks.
- 2. Click Color, and then choose the same color as the background.
- 3. Click Size, and then drag the slider to the left to make the circle smaller.



Table



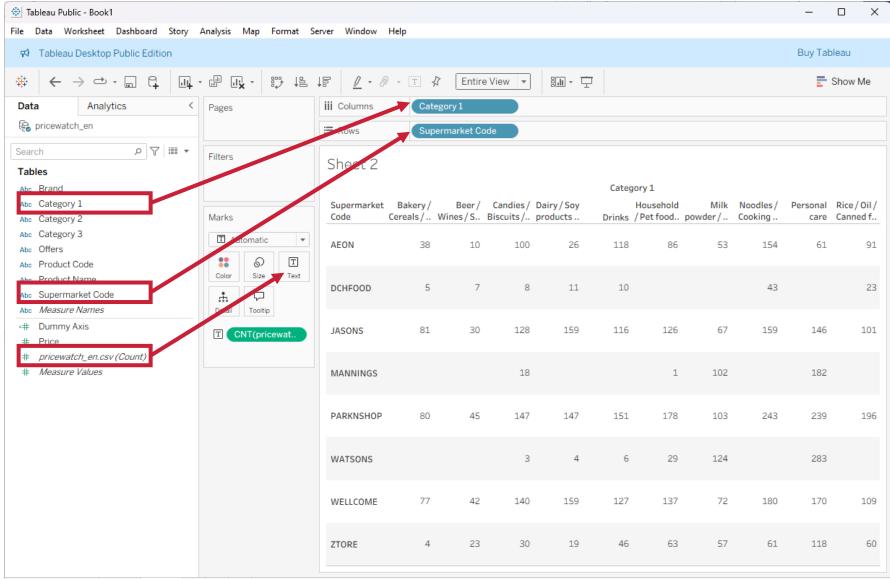
Given: Online Price Watch

Task:

- 1. Basic table to show quantities of each category in each supermarket.
- 2. Highlight table

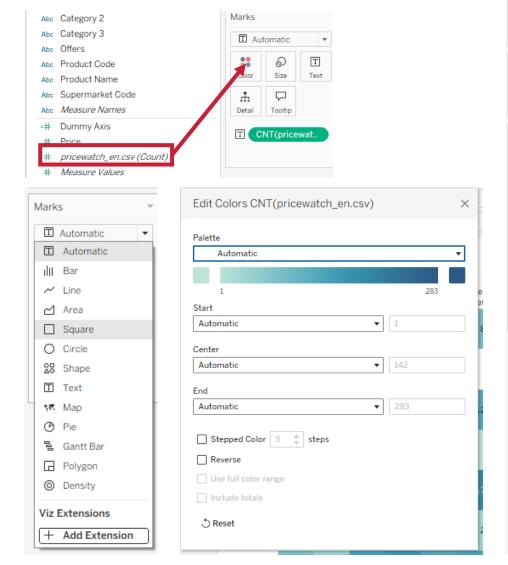


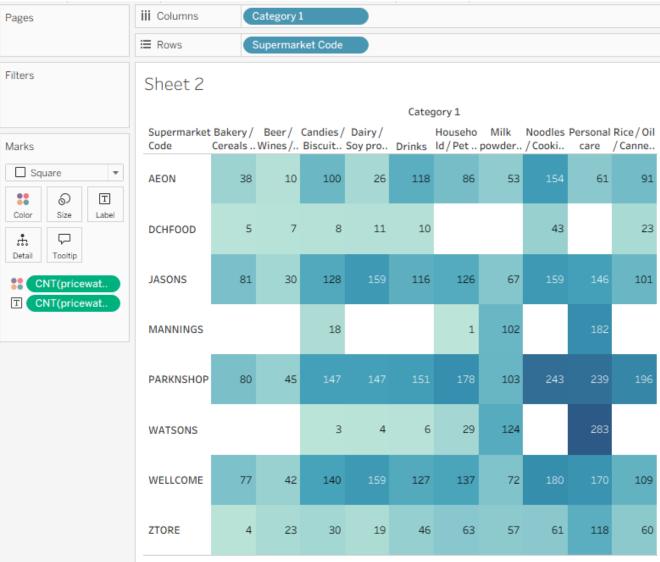












Other Charts



Given: Online Price Watch

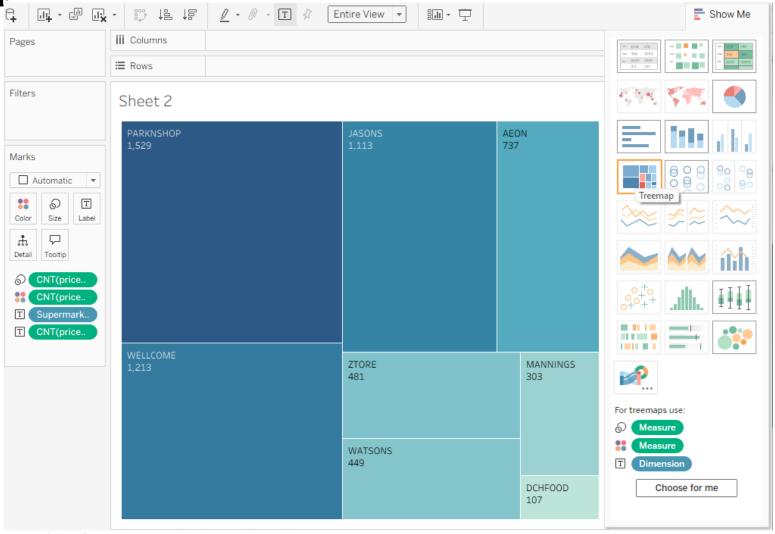
Task:

• Quantity of goods in different supermarkets.





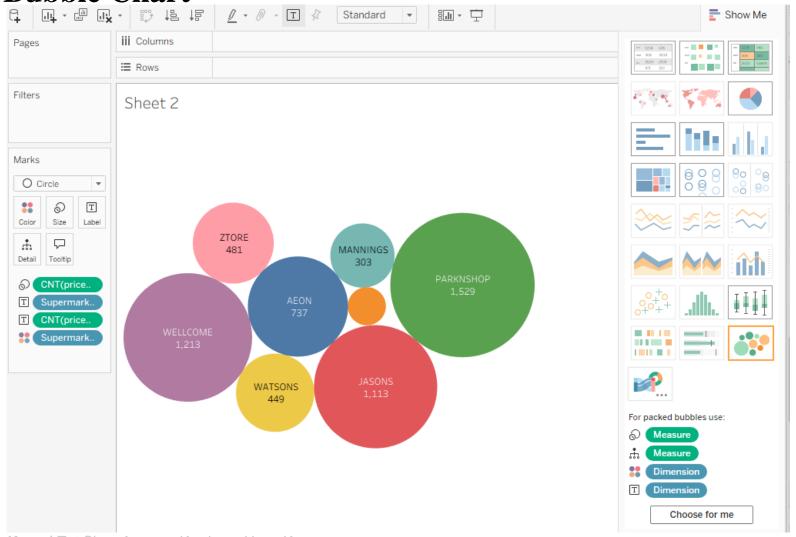
Treemap







Packed Bubble Chart

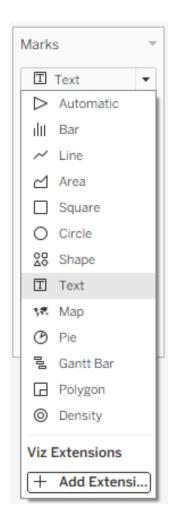


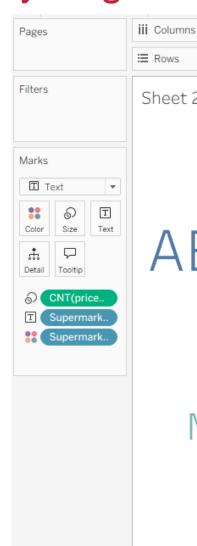
Task: Quantity of goods in different supermarkets.

Sheet 2



Word Cloud





AEON ZTOREJASONS

PARKNSHOP

MANNINGS

WELLCOME

DCHFOOD

Map



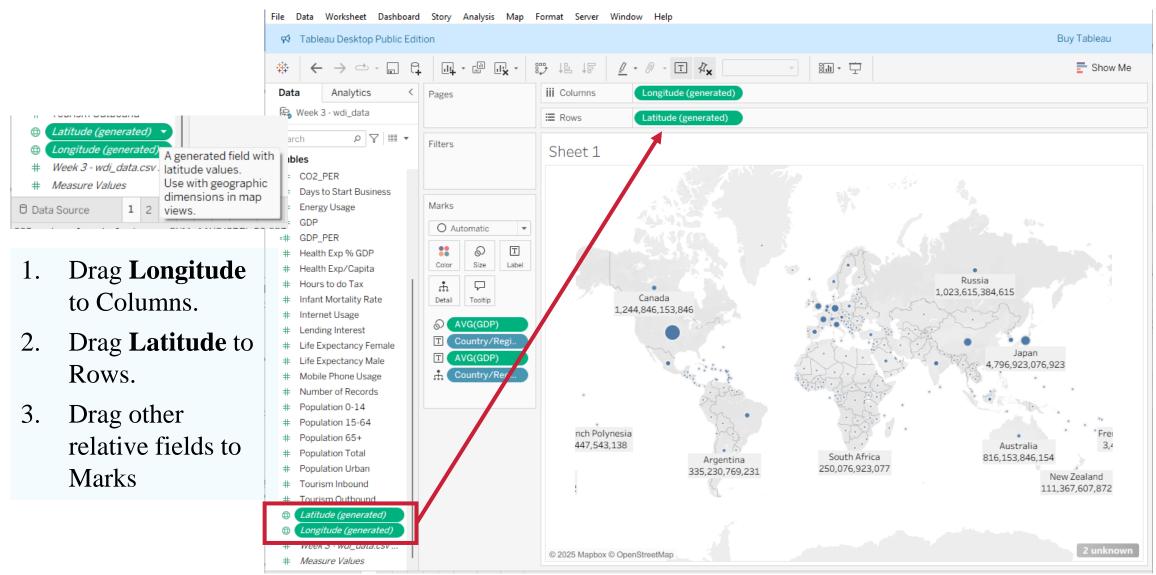
Given: Wdi.csv

Task:

GDP and CO2 Emissions of Various Countries and Regions Per capita GDP in different regions

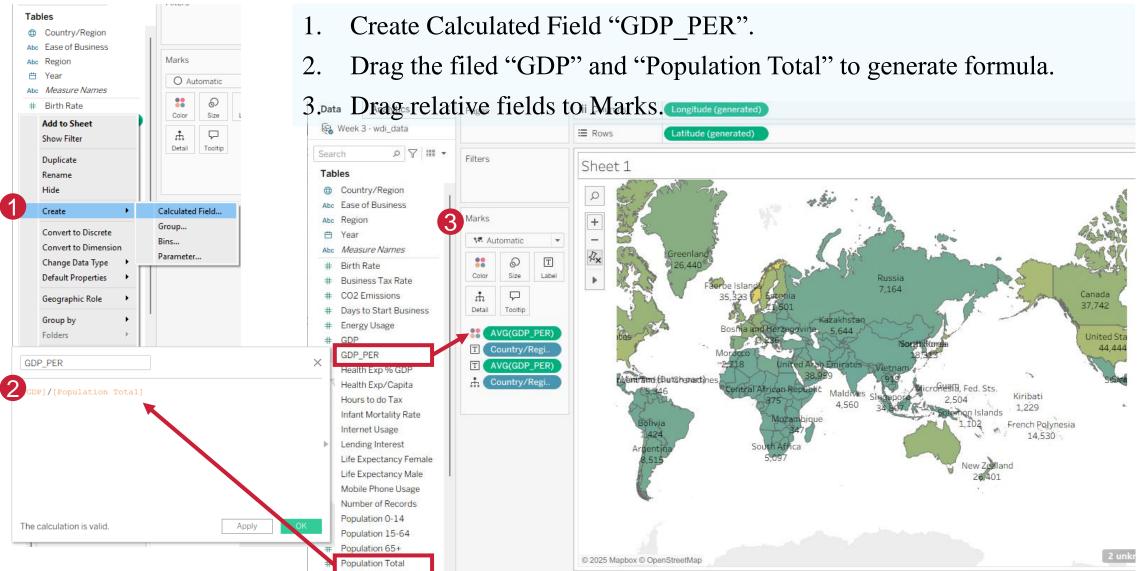
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Task: GDP of Various Countries and Regions.



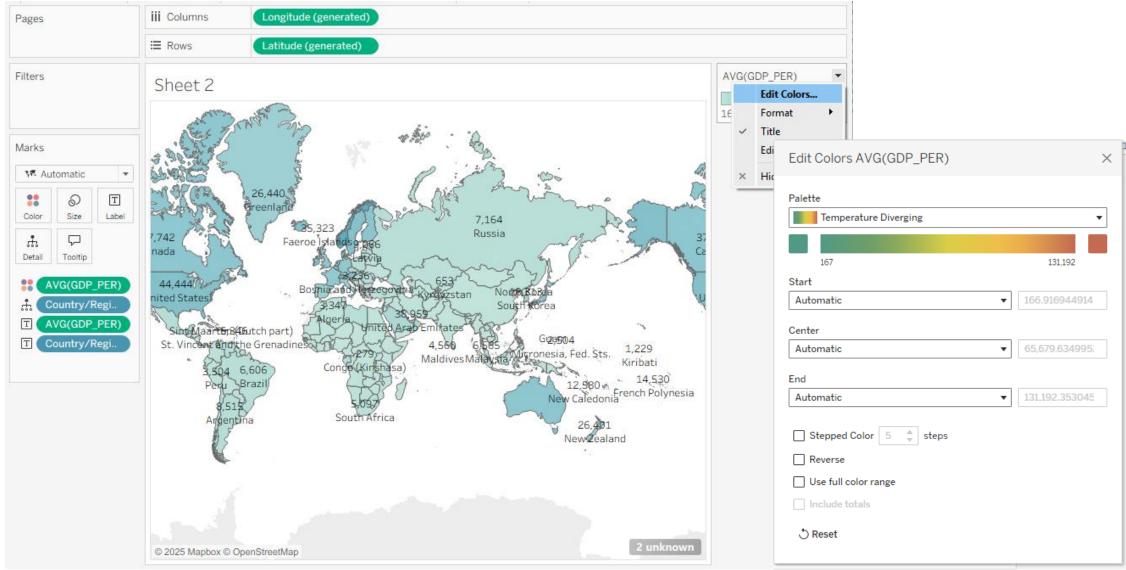


Task: Per capita GDP in different regions



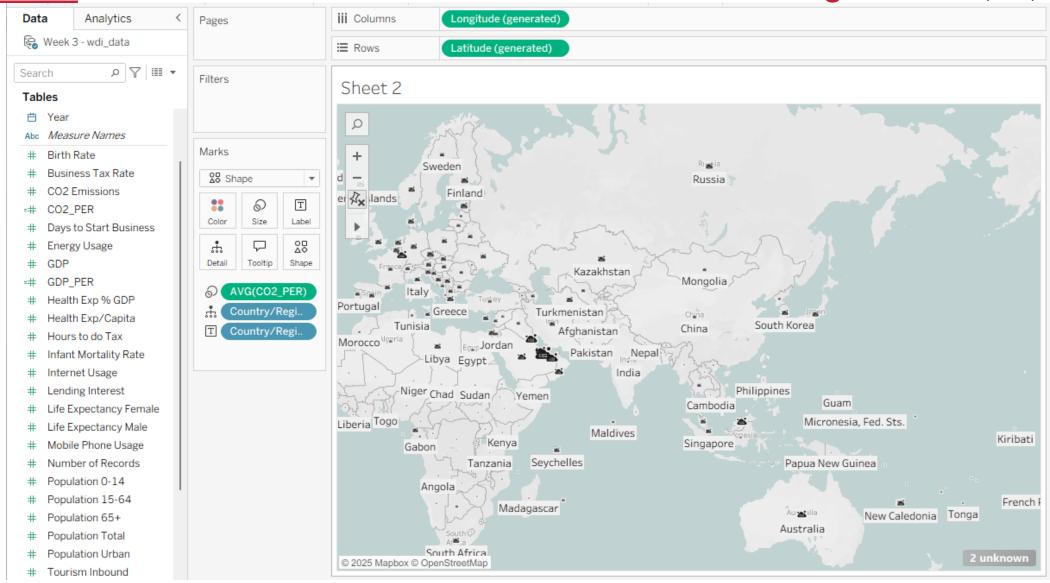


Task: Per capita GDP in different regions





Task: CO2 Emissions of Various Countries and Regions.



Change Map Logo



SDSC5002C62 Exploratory Data Anlys & Visua > Datasets

0 selected







Name •	Created \$	Last Modified \$	Modified By \$	Size \$	Status	Actions
co2-cloud.png	6:47pm	6:47pm	Yanru LI	21 KB	•	:
gdp.png	6:47pm	6:47pm	Yanru LI	39 KB	•	:

Windows:

Window Exploer: C:\Users\user name\Documents\My Tableau Repository

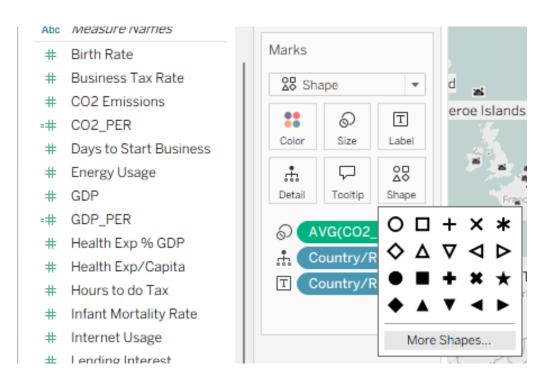
Mac:

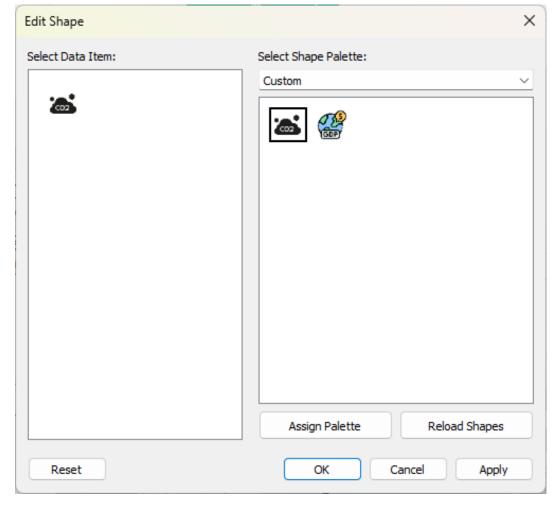
Cmd+space: My Tableau Repository

Move the figures into 'shape' folder



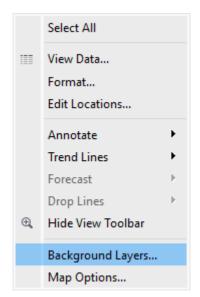


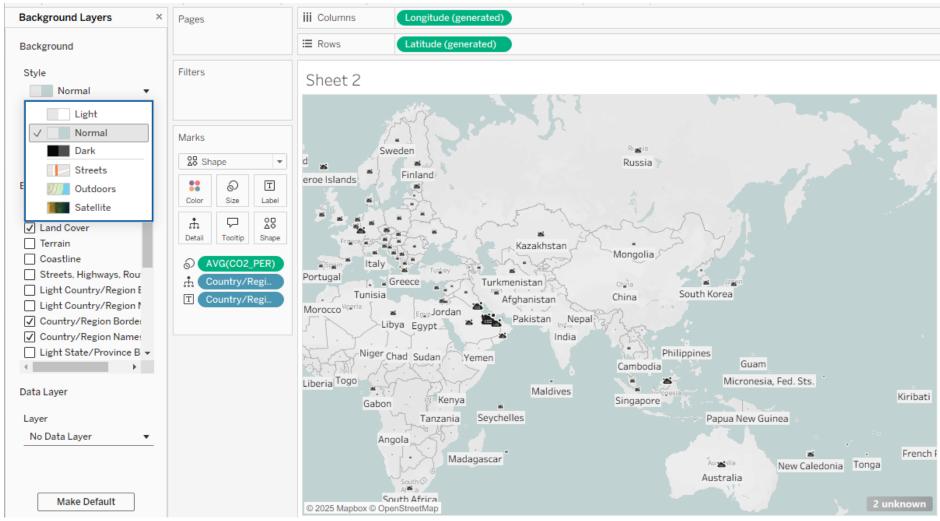






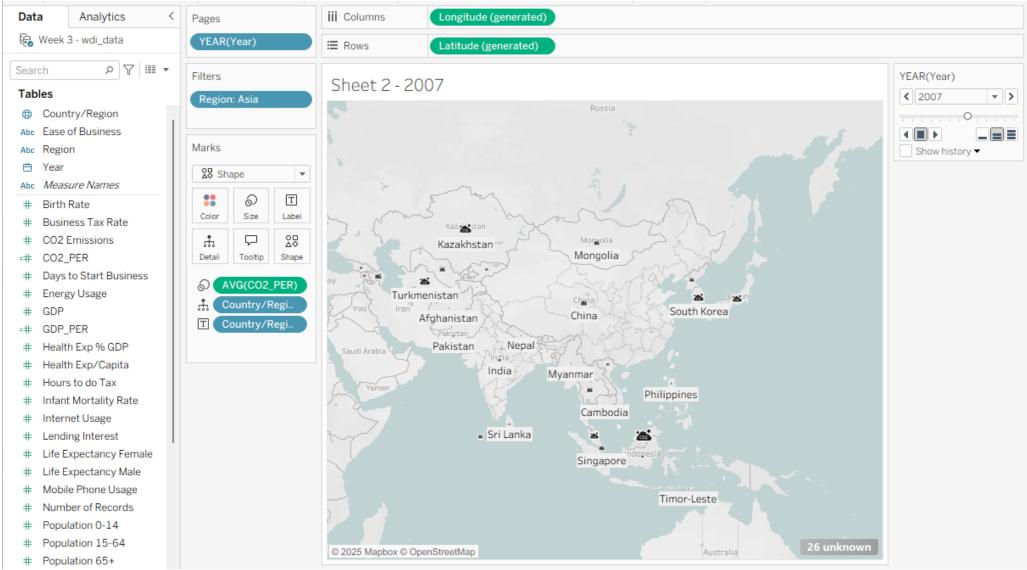












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