

## Instructions

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- This homework assignment is worth 111 points.
- Please submit a **.twb** file for each exercise to Blackboard.
- **Please strive for clarity and organization.**
- **Due Date: March 29, 2024 by 11:59 pm.**

## Exercise 1

This `crime.csv` presents the data from those agencies that reported one or more hate crime incidents occurred in their respective jurisdictions during 1 or more quarters in 2013. The data are distributed by bias motivation and quarter. The data is encoded as UTF-8 text in comma-separated format.

- (3 points) Load the `crime.csv` file to tableau.
- (5 points) Create a map that show the number of hate crimes at the state level. What state had the highest number of crimes? What state had the least number of crimes?
- (7 points) Create a new calculated field, call it **Gender Related**, which is defined as the addition of **Gender** and **Gender Identity** hate crimes. Create a map that shows the number of **Gender Related** hate crime. What state has the highest number of **Gender Related** crimes?
- (5 points) Create a map that show the number of **Religion** hate crimes at the state level. What state has the higher number of **Religion** hate crimes?

## Exercise 2

Using the `Global Superstore.xls` do the following:

- (3 points) Load the **Orders** sheet.
- (3 points) Create a new calculated field, call it **Profit Ratio**, which is defined as **Profit** divided by **Sales**.
- (6 points) Create a new calculated field, call it **Season**, which represent the season of the year. Create a visualization that shows the **Profit Ratio** per **Season**. Make sure to include a horizontal line that shows the average **Profit Ratio**. Which season has the highest **Profit Ratio**? Which season has the lowest **Profit Ratio**?
- (13 points) Create a map that shows the **Profit Ratio** as the color for each state of the US. Add the chart from part (c) as a tooltip to the map. Also add **Order Date** as a slider filter. What season had the highest profit ratio in Iowa between 02/10/2012 and 05/24/2014?

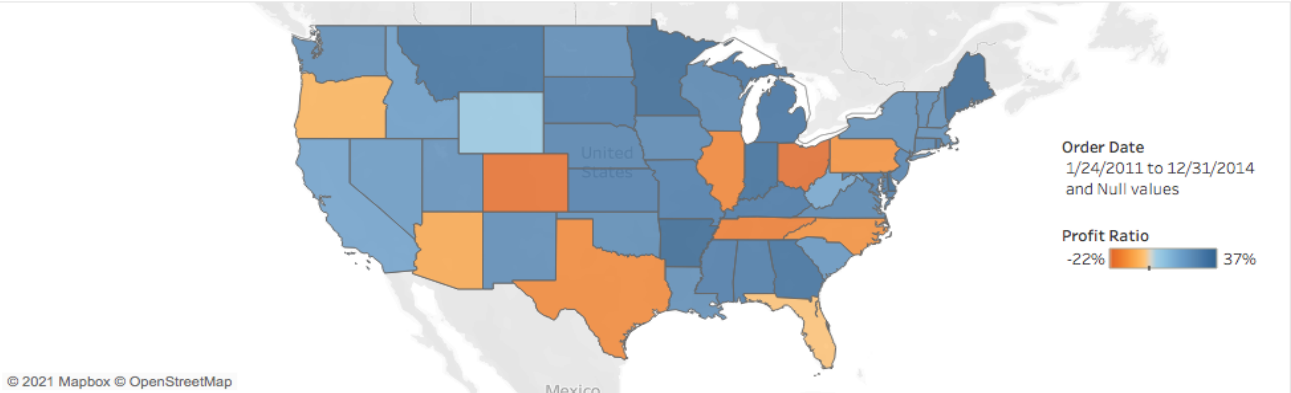
# Exercise 3

Using the Global Superstore.xls do the following:

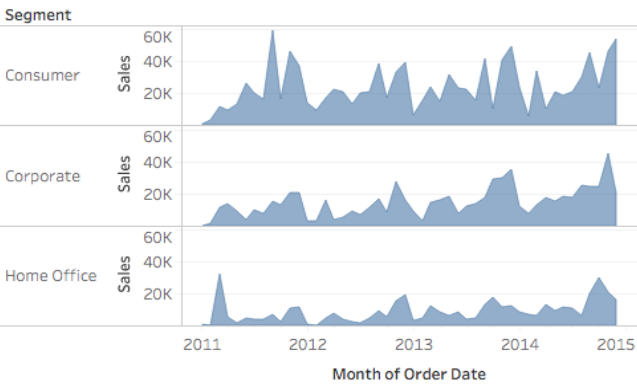
- (a) (3 points) Load the Orders sheet.
- (b) (30 points) Duplicate the below dashboard.

## Sales & Profit in the US

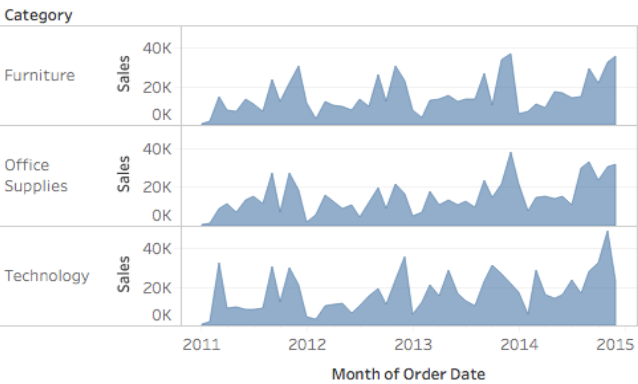
Profit Ratio by State



Sales by Segment



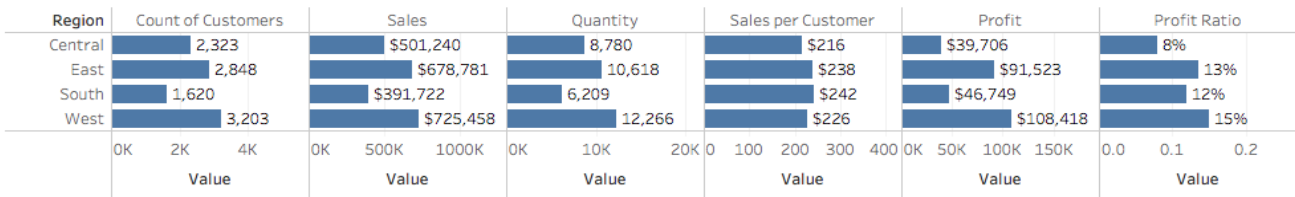
Sales by Product Category



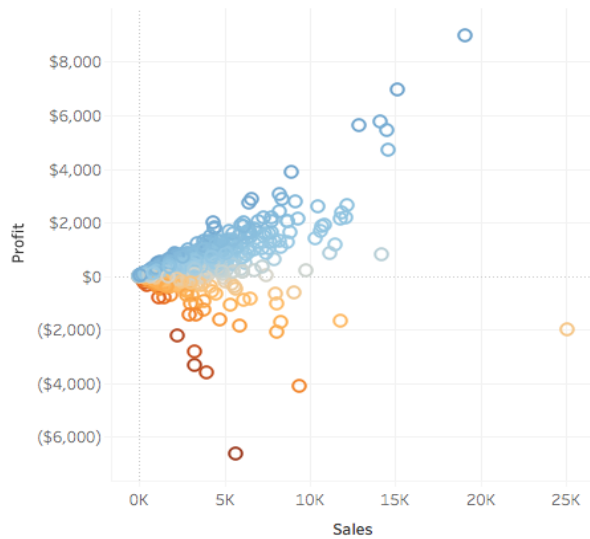
- (c) (30 points) Duplicate the below dashboard.

# Customers Analysis

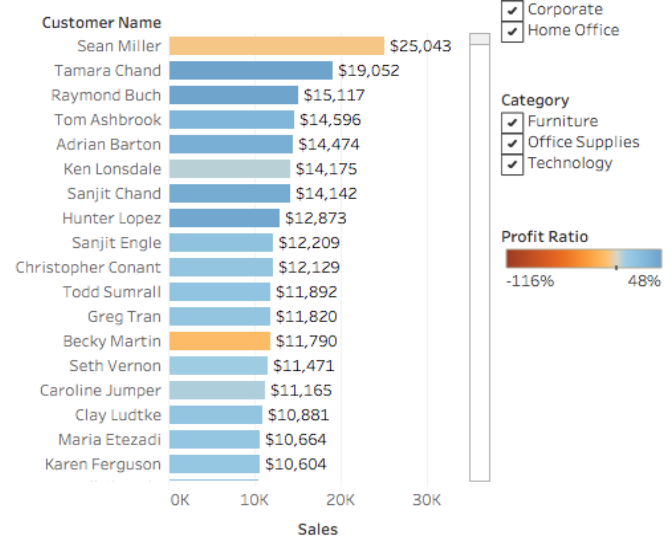
## Customer Overview by Region



## Sales and Profit by Customer



## Customer Ranking



<sup>1</sup>Make sure you submit \*.twb files in Blackboard.