# Lab\_27 | Advanced Tableau

**Part 1**

1. Download the dataset.
2. Connect the data in Tableau
3. Answer the following questions using only Tableau.
4. Save each answer in a sheet.
5. Save answer in the readme

Questions:

**1. What is the percent of total Sales for the ‘Home Office’ Customer Segment in July of 2012?**

a. 23.50%

**b. 23.97%**

c. 20.14%

d. 32.56%

**2. Find the top 10 Product Names by Sales within each region. Which product is ranked #2 in both the Central & West regions in 2011?**

a. Riverside Palais Royal Lawyers Bookcase

b. Bush Mission Pointe Library

**c. Sharp AL-1530CS Digital Copier**

d. Global Troy Executive Leather Low Back Tilter

**3. In the Technology Product Category, which unprofitable state is surrounded by only profitable states?**

**a. Colorado**

b. Missouri

c. Wyoming

d. Utah

**4. If 2013 Sales numbers were expected to increase by 50% in the following year, what would be the total estimated sales for the Consumer Segment in 2014?**

a. $4,278,540

**b. $816,999**

c. $2,752,823

d. $802,365

**5. In which Region do all Product Categories fall beneath the overall average profit?**

a. All Regions

b. Central

c. East

**d. South**

e. West

**6. Which Product Sub-Category has a Shipping Cost to Sales ratio of above 3%?**

a. Tables

b. Chairs & Chairmats

**c. Paper**

d. Binders and Binder Accessories

**7. Find the customer with the lowest overall profit. What is his/her profit ratio?**

a. 2.35%

b. 1%

c. -17.54%

**d. -771.39%**

**8. Determine which State in the Central Region has the highest distribution of profits using interquartile ranges.**

**a. South Dakota**

b. North Dakota

c. Minnesota

d. Iowa

**9. Look at the sum of profits for each Product Sub-Category. Which sub-category is $31,069 below the average profit across all categories?**

a. Appliances

b. Bookcases

**c. Envelopes**

d. Paper

**10. What percent of total profits do the top 10 customer by Sales represent?**

a. 3.50%

**b. 5.03%**

c. 17.54%

d. None of the Above ~~9.59%~~

**11. What was the Moving Average of Sales in June of 2012, including six months prior and six months after?**

a. $101,752

b. $180,036

**c. $188,552**

d. $286,170

**12. Create a histogram showing the number of Sales using Sales Bins of $1,000. Which bins have profit ratios (profit as a percentage of sales) of more than 25%? (Select all that apply)**

a. 1,000

b. 3,000

**c. 7,000**

**d. 8,000**

e. 10,000

f. 11,000

**g. 18,000**