TO ANSWER THESE QUESTIONS:

I. Submit one word document and write your answers to the questions in there. Also, send the workbook that contains your pivot tables. Make sure to give the word document and excel worksheet your name for easy identification.

II. Create a new sheet in your worksheet for each pivot table you create and name it. For example, for U.S Voters case study, you name the worksheet for the pivot table "Voters Pivot"

III. Answer all questions using your pivot tables to show it and creating charts while necessary.

QUESTIONS

Create a pivot table for the U.S. Voters case study and use it to answer the following:

1. How many states had a **Voter Population %** below 55%? Which states?
2. How many confirmed voters in CA were over 65 years old in 2012? What percentage does that represent out of the total confirmed voters in CA? What percentage out of the confirmed voters in the entire country?
3. Show both **Citizen Population** and **Confirmed Voters** by Age, as **% of Column Total**. What percentage of the citizen population do 45- to 64-year-old represent? What percentage of the confirmed voter population?
4. As a politician seeking to improve voter turnout rates among young adults (18-24), which states would you target first?

Create a pivot table for the San Francisco Salaries case study and use it to answer the following:

1. **Filter** and **sort** the Pivot to show the 5 employees who earned the highest Base Pay in 2011. Who were they?
2. Among employees with >=$100k Base Pay in 2012, Did any employee earn more than 50% of their salary from Other Pay? If so, who?
3. Clear all filters and pull in **Job Category** and **Job Title** as row labels (Titles sorted alphabetically), then **group** any titles including the word "*Curator*" into a new category called "**Curator**". How many employees held some sort of Curator position in either 2012 or 2013? Among those, who earned the highest average base pay?

Create a pivot table for the Shark Attack case study and use it to answer the following:

1. Show the **count** of attacks by country -- which 3 countries had the highest number of reported attacks over the past 5 years (2012-2016)? During this period, what % of reported attacks occurred in Spain?
2. Drag the "**Area**" field to the PivotTable row labels, change the **Report Layout** to Outline, and **filter** to show the top 5 areas by count of Case Number, by country. Where in South Africa were shark attacks most frequently reported over the past 5 years?
3. Replace "**Area**" with "**Type**" and show the Count of Case Number values as **% of Parent Total** for each country. What % of attacks in New Zealand were unprovoked? How many cases?

Create a pivot table for the Stock Market case study and use it to answer the following:

1. Create a **calculated field** named "**Daily Spread**" (*High - Low*), formatted as currency with two decimal places. On which date in the sample did Amazon (AMZN) see the largest price spread? (***note:*** *you may have to remove the Daily Change field*)
2. Sort dates oldest to newest, and **conditionally format** the Daily Spread field as a **Color Scale**, from white (lower values) to green (higher values). Since a large price spread isn't necessarily good or bad, edit the color scale to show shades from white to blue (instead of green).