

All the assignments are prepared by Chris Dutton

Link:

<https://www.udemy.com/data-analysis-with-excel-pivot-tables/learn/v4/overview>

Using the PivotTable created in the U.S. Voters case study, complete the following:

Number	Question
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 olds represent? What percentage of the confirmed voter population?
4	Create a new calculated field named "Voter Turnout" (Confirmed Voters/Registered Voters), formatted as a percentage with 2 decimal points. Which state had the highest voter turnout rate? What about among 18-24 year old voters specifically?
5	As a politician seeking to improve voter turnout rates among young adults (18-24), which states would you target first?

Using the PivotTable created in the San Francisco Salaries case study, complete the following:

Number	Question
1	<b>Filter</b> and <b>sort</b> the Pivot to show the 5 employees who earned the highest Base Pay in 2011. Who were they?
2	Add a calculated field named "% <b>Other Pay</b> " ( <i>Other Pay/Total Pay</i> ), formatted as a percentage with 1 decimal. How many job titles earned <i>only</i> Other pay in 2012?
3	Among employees with >=\$100k Base Pay in 2012, Did any employee earn more than 50% of their salary from Other Pay? If so, who?

4	Clear all filters and pull in <b>Job Category</b> and <b>Job Title</b> as row labels (Titles sorted alphabetically), then <b>group</b> any titles including the word " <i>Curator</i> " into a new category called " <b>Curator</b> ". How many employees held some sort of Curator position in either 2012 or 2013? Among those, who earned the highest average base pay?
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Using the PivotTable created in the Shark Attack case study, complete the following:

Number	Question
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 these 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?
4	Filter the Pivot for the USA only, and create a PivotChart to show the count of shark attacks by "Area". Use a column chart, and hide all field buttons. Try changing the chart type to a Donut or Bar Chart instead.
5	Remove the Year filter to show records from the full sample. What was Darren Good doing when he was attacked? When did this happen?

Create a NEW PivotTable from the San Diego Burrito Ratings data, and answer the following:

Number	Question
1	In your new PivotTable, compare average ratings for Tortilla, Temp, Fillings, Synergy, and Wrap Quality, by Location
2	Drag in the sum of the "# of Reviews" field and apply a value filter to only show locations with more than 2 ratings. How many locations recorded >2 ratings?
3	Create a calculated field named "Average Total Score", which correctly averages the five scores by location

4	Add a second instance of Average Total Score and show the values as a Rank (large to small) based on location. Among those with >2 reviews, which location is ranked #7?
5	Add a Color Scale to the Average Total Score field and sort descending. Which location has the lowest score? The highest?
6	Drag in Yelp Rating as an average, add a Color Scale, and compare against the Average Total Score field. How closely do the two fields align?

Using the PivotTable created in the Apple App Data case study, complete the following:

Number	Question
1	Add a calculated column in the source data named "Volume", equal to "High" for rows where Total Ratings > 100,000 and "Low" otherwise
2	Clear the existing PivotTable and create a new view showing Volume as row labels, with the count of App Name and the sum of Total Ratings as values. How many apps are categorized as high-volume?
3	Update both fields to show values as % of Column Total. What percentage of all apps are high-volume, and what percentage of all ratings do those high-volume apps account for?
4	How do average ratings compare between high-volume and low-volume apps?
5	Pull in the App Name as secondary row labels, remove the Count of App Name field, and filter your view to show the Top 10 apps descending by Total Ratings.
6	Among high-volume apps, which 3 drove the most ratings?
7	Among apps where the primary genre is "Games", which apps drove more than 1 million ratings? (Hint: you may need to change your value calculation).

8	Add a second instance of the Sum of Total Ratings field, and use conditional formatting to visualize the values for high-volume game apps as data bars, with no overlapping text
9	Add a new calculated column in the source data named "Rating Improvement" (Current Version Avg Rating - Avg Rating).
10	Among high-volume Entertainment apps specifically, which app saw the largest rating improvement with the current version?
11	Did any of these apps see a decline with the current version? If so, what did the rating drop to?

Using the PivotTable created in the Wine Tasting case study, complete the following:

Number	Question
1	create a new view showing the average point rating and average price with Subregion as row labels <ul style="list-style-type: none"> <li>a. Which subregion in the sample produced the highest-rated wines, on average?</li> <li>b. Which subregion in the sample produced the highest-priced wines, on average?</li> <li>c. Excluding blanks, which subregion has the most tastings recorded in the dataset?</li> </ul>
2	Create a new view to show the average point ratings by Country (sorted descending by average points), and add a PivotChart to visualize the relative ratings as a Clustered Column Chart <ul style="list-style-type: none"> <li>a. On average, which country has generated the highest average ratings? The lowest?</li> <li>b. How do the ratings compare across countries for Pinot Grigio varieties specifically?</li> </ul>
3	Delete the PivotChart, then update your table to show the actual Wine Name for all Italian wines in the sample, along with the point rating and price <ul style="list-style-type: none"> <li>a. What's the cheapest Italian wine rated over 95 points?</li> <li>b. Who reviewed that particular wine, and how did he/she describe it?</li> </ul>

