



On-Demand Training: Logic Calculations Transcript

Welcome to this video on Logic Calculations. You can download the Exercises workbook to follow along in your own copy of Tableau.

Performance Indicator with Parameter

A logical calculation determines if a certain condition is true or false, also known as Boolean logic. Here, we want to know if our countries are performing well. Countries are grouped into markets. Some of our markets are considered emerging, and some are not.

- We want our end user to be able to determine what the cutoff is per type of market to be considered a well performing country, so we've created two parameters
 - We can right click and edit to see how they're set up
- We also have a calculated field, Performing Countries. Let's right click and edit.
 - It looks complicated, but all we're doing is checking two statements
 - Which Market it's in, and if the sales are above the threshold
 - It simply goes through for each Market
 - These three markets are considered emerging, so they're compared against that threshold
 - And these four markets are considered non-emerging, so they're compared against their relevant threshold
 - if none of those statements are true, the calculation returns "false".
- We can use this to color our countries and see which are considered well performing
- As we change the parameters we can change the thresholds and alter the analysis

Logical Conditional Filter

A conditional filter is a filter that keeps or excludes members based on a logical calculation.

Let's say we only want to see a specific subset of countries. Specifically we want to see those that have at least \$200,000 of sales, and have sold at least 1,100 distinct products.

- Brazil will fall into this category, as it has sold over 360 thousand in sales and almost twelve hundred distinct products. However, India would not, as it doesn't meet the Product cutoff.
- Sifting through this manually would be difficult, so let's create a filter based on a condition.
 - Bring Country to the Filter shelf
 - Click to the Condition Tab and select the formula option so we can enter our own formula.
 - We simply want to check if $SUM([Sales]) > 200000$ AND $COUNTD([Product ID]) > 1100$
- Now when we return to the view...

We see only true values returned - countries that meet both of those thresholds.

Conclusion

Thank you for watching this Logic Calculations Video. We invite you to continue with the On-Demand Training videos to learn more about using Tableau.

