Lab 4 Advanced Calculate Function and DAX Patterns

Objectives

Time: 30 Minutes

- 1. Create a DAX measure that produces the percent of the total for each Reseller Country using the combination of the CALCULATE, DIVIDE, and ALL function
- 2. Create a DAX measure that produces the running sales total for 2019 using the CALCULATE, FILTER, and ALL function
- 3. Create a DAX measure that will show sales by ship day in comparison to the order date using the CALCULATE and USERELATIONSHIP function
- 4. Create a DAX measure that filters the total by reseller sales for North America (Canada and the United States only) including the % of total sales for North America.

Lab steps

1) Create a DAX pattern measure that produces a % to total for the reseller country

- Place a slicer visual on the page set to the year 2019.
- From the Home tab navigate to the New Measure
- Place the following measure into a table visual

nula					Format
<pre>to total = DIVIDE([Total Sales],CALCULATE([Total ales],ALL(Reseller[ResellerCountry])))</pre>					Currency
Year	ResellerCountry	Total Sales	% to total		
2017	Australia	\$857,135	2.64%		
□ 2018■ 2019	Canada	\$5,641,352	17.35%		
	France	\$2,412,417	7.42%		
	Germany	\$1,097,898	3.38%		
2020	United Kingdom	\$2,169,984	6.68%		
2021	United States	\$20,328,918	62.54%		
	Total	\$32,507,704	100.00%		

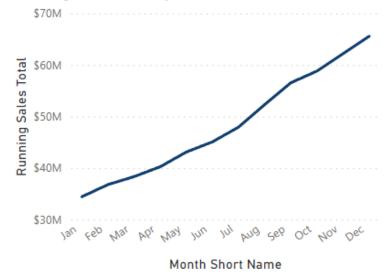
2) Create a DAX pattern measure that produces the Running sales total for the year 2019

- Place a new table visual onto the report canvas to show the DAX measure.
- Place a Line chart visual onto the report canvas to show the DAX measure trend for the Running Sales Total

Running Total By Month

Month Short Name	Running Sales Total
Jan	\$34,440,288
Feb	\$36,802,220
Mar	\$38,344,776
Apr	\$40,266,463
May	\$43,122,564
Jun	\$45,094,101
Jul	\$47,965,140
Aug	\$52,333,170
Sep	\$56,568,422
Oct	\$58,836,374
Nov	\$62,221,862
Dec	\$65,608,558
Total	\$65,608,558

Running Sales Total by Month



3) Create a DAX measure that will show sales by ship day in comparison to order date

 Place a new table visual onto the report canvas to show the DAX measure.

Formula	Format
Sales By Ship Date = CALCULATE([Total Sales], USERELATIONSHIP(Cal_tbl[Date], 'Sales	Currency
By Country Files'[ShipDate]))	

USERELATIONSHIP Ship date vs. Order Date

Year	Month Short Name	Total Sales	Sales By Ship Date
2019	Jan	\$1,339,434	\$1,733,685
2019	Feb	\$2,361,932	\$1,830,736
2019	Mar	\$1,542,556	\$2,110,982
2019	Apr	\$1,921,687	\$1,787,410
2019	May	\$2,856,101	\$2,322,129
2019	Jun	\$1,971,537	\$2,511,820
2019	Jul	\$2,871,039	\$2,794,115
2019	Aug	\$4,368,030	\$3,647,362
2019	Sep	\$4,235,252	\$4,486,979
2019	Oct	\$2,267,952	\$2,802,068
2019	Nov	\$3,385,488	\$3,062,685
2019	Dec	\$3,386,696	\$3,530,087
Total		\$32,507,704	\$32,620,058

5) Create a DAX measure using
the FILTER function that
computes the total by reseller
sales for Canada and the United
States only (North America
Sales).

 Place a new table visual onto the report canvas to show the DAX measure.

Formula	Format
North American Sales = CALCULATE([TotalSales],FILTER(Reseller,Reseller[ResellerCountry]="Canada" Reseller [ResellerCountry]="United States"))	Text
North America Sales % to total = DIVIDE([US and Canada Sales], CALCULATE([Total Sales], ALL(Reseller[ResellerCountry])))	Percentage

North America Sales

Total Sales North America Sales North America Sales % to total \$32,507,704 \$25,970,270 79.89%

END