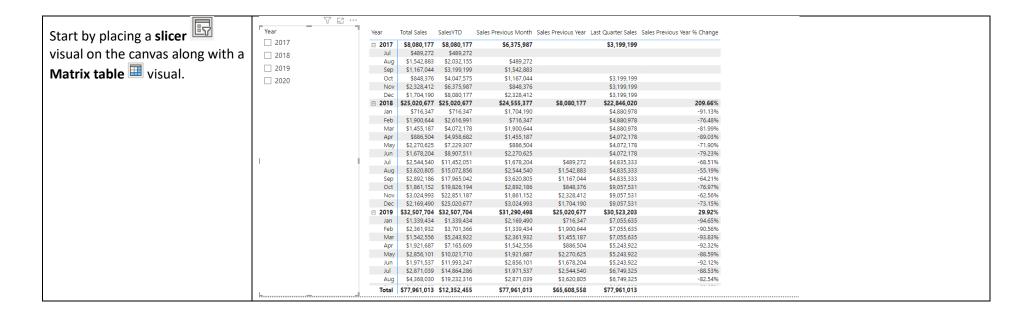
# Lab 6 DAX Time Series

## Objectives

## Time: 15-20 Minutes

- 1. Create a DAX measure that produces the following measures.
  - a. Sales for the previous year using the PREVIOUSYEAR function
  - b. Sales for the previous month using the DATEADD function
  - c. Sales year to date using the TOTALYTD function
  - d. Last Quarter Sales using the PARALLELPERIOD function
  - e. Percent change of the previous year to the current year using the variables command in the formula
  - f. Percent change of the previous month to the current year using the variables command in the formula

### Lab steps



# Sales Year-to-date measure

Create and add the following Calculations to the matrix table.

Formula	Format
SalesYTD = TOTALYTD([Total Sales],Cal_tbl[Date])	Currency

Year	Total Sales	SalesYTD
	42,002,000	· ,
Oct	\$1,861,152	\$19,826,194
Nov	\$3,024,993	\$22,851,187
Dec	\$2,169,490	\$25,020,677
□ 2019	\$32,507,704	\$32,507,704
Jan	\$1,339,434	\$1,339,434
Feb	\$2,361,932	\$3,701,366
Mar	\$1,542,556	\$5,243,922
Apr	\$1,921,687	\$7,165,609
May	\$2,856,101	\$10,021,710
Jun	\$1,971,537	\$11,993,247
Jul	\$2,871,039	\$14,864,286
Aug	\$4,368,030	\$19,232,316
Sep	\$4,235,252	\$23,467,568
Oct	\$2,267,952	\$25,735,520
Nov	\$3,385,488	\$29,121,008
Dec	\$3,386,696	\$32,507,704
□ 2020	\$12,352,455	\$12,352,455

### Sales Previous Year

Create and add the following Calculations to the matrix table.

Formula	Format
Sales Previous Year = CALCULATE([Total Sales],DATEADD(Cal_tbl[Date],-1,YEAR))	Currency



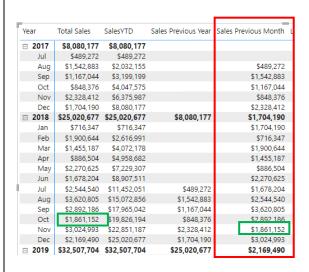
#### Sales Previous Month

Create and add the following Calculations to the matrix table.

Formula

Sales Previous Month = CALCULATE([Total Sales], PREVIOUSMONTH(Cal\_tbl[Date]))

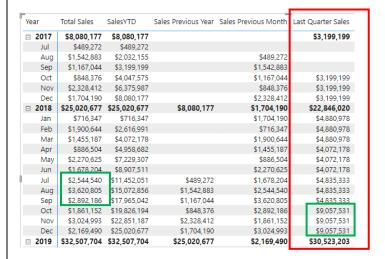
Currency



### Sales Previous Month

Create and add the following Calculations to the matrix table.

Formula	Format
Last Quarter Sales = CALCULATE([Total Sales],PARALLELPERIOD(Cal_tb1[Date],-	Currency
1,QUARTER))	



**Formula Format** Currency Sales Previous Year % Change = Sales % Change var CY = sum('Sales By Country Files'[Total Sales]) previous year. var PY = [Sales Last Year] **RETURN** DIVIDE(CY-PY, PY) Total Sales Sales Previous Year Sales Previous Month Last Quarter Sales Sales Previous Year % Change □ 2017 \$8,080,177 \$8,080,177 \$3,199,199 Jul \$489,272 \$489,272 Aug \$1,542,883 \$2,032,155 \$489,272 \$1,542,883 Sep \$1,167,044 \$3,199,199 \$1,167,044 \$3,199,199 \$848,376 \$4,047,575 Oct Nov \$2,328,412 \$6,375,987 \$848,376 \$3,199,199 Dec \$1,704,190 \$8,080,177 \$2,328,412 \$3,199,199 \$8,080,177 209.66% **□ 2018 \$25,020,677 \$25,020,677** \$1,704,190 \$22,846,020 \$716,347 \$4,880,978 -91.13% Jan \$716,347 \$1,704,190 Feb \$1,900,644 \$2,616,991 \$716,347 \$4,880,978 -76.48% Mar \$1,455,187 \$4,072,178 \$1,900,644 \$4,880,978 -81.99% Apr \$886,504 \$4,958,682 \$1,455,187 \$4,072,178 -89.03% Mav \$2,270,625 \$7,229,307 \$886,504 \$4,072,178 -71.90% \$1,678,204 \$8,907,511 \$2,270,625 \$4,072,178 -79.23% Jun \$2.544.540 \$11.452.051 \$489,272 \$1,678,204 \$4.835.333 Jul -68.51% \$3,620,805 \$15,072,856 \$1,542,883 \$2,544,540 \$4,835,333 -55.19% \$2,892,186 \$17,965,042 \$1,167,044 \$3,620,805 \$4,835,333 -64.21% Sep Oct \$1,861,152 \$19,826,194 \$848,376 \$2,892,186 \$9,057,531 -76.97% \$3,024,993 \$22,851,187 \$2,328,412 \$1,861,152 \$9,057,531 -62.56% \$2,169,490 \$25,020,677 \$1,704,190 \$3,024,993 \$9,057,531 -73.15% 2019 \$32,507,704 \$32,507,704 \$25,020,677 \$2,169,490 \$30,523,203 29.92% **END**