Advanced DAX - Time Intelligence Functions

Customer Sales Measure

Performance to Date (YTD, MTD, QTD)

YTD (Year-To-Date): Cumulative sum of values starting from 1st day of year (or Month in case of MTD or Quarter in case of QTD)

TOTALYTD: Returns YTD value and can also apply filter

```
TOTALYTD(<expression>, <dates>[,<filter>][,<year_end_date>])
```

DATESYTD: Only Returns Dates in the form of table. It also accepts optional parameter as end date of year. If no value supplied for end date of year, then 31/12 is considered by default.

```
DATESYTD(<dates>[, <year_end_date>])
```

Year	Customer Sales	Sales TOTALYTD	Sales TOTALYTD for Coffee	Sales DATESYTD	Sales DATESYTD (Fiscal Year Rolling)
⊒ 2017					
	\$81,845.09	\$81,845.09	\$31,292.70	\$81,845.09	\$81,845.09
⊕ February	\$76,273.99	\$158,119.08	\$60,594.35	\$158,119.08	\$158,119.08
March	\$99,154.43	\$257,273.51	\$98,974.70	\$257,273.51	\$257,273.51
⊕ April	\$119,309.01	\$376,582.52	\$145,061.40	\$376,582.52	\$119,309.01
⊞ May	\$157,208.99	\$533,791.51	\$205,584.40	\$533,791.51	\$276,518.00
∄ June	\$166,899.78	\$700,691.29	\$270,506.70	\$700,691.29	\$443,417.78
∃ July	\$157,968.55	\$858,659.84	\$331,654.90	\$858,659.84	\$601,386.33
⊕ August	\$154,485.32	\$1,013,145.16	\$392,012.05	\$1,013,145.16	\$755,871.65
∃ September	\$145,821.19	\$1,158,966.35	\$448,917.65	\$1,158,966.35	\$901,692.84
⊕ October	\$169,223.54	\$1,328,189.89	\$514,427.65	\$1,328,189.89	\$1,070,916.38
oxdot November	\$179,999.30	\$1,508,189.19	\$583,982.15	\$1,508,189.19	\$1,250,915.68
⊕ December	\$169,884.92	\$1,678,074.11	\$650,236.60	\$1,678,074.11	\$1,420,800.60
⊡ 2018					
	\$141,284.63	\$141,284.63	\$54,914.35	\$141,284.63	\$1,562,085.23
	\$124,030.84	\$265,315.47	\$103,165.45	\$265,315.47	\$1,686,116.07
⊞ March	\$143,475.17	\$408,790.64	\$159,413.25	\$408,790.64	\$1,829,591.24
⊕ April	\$149,780.08	\$558,570.72	\$217,771.55	\$558,570.72	\$149,780.08
□ Mass	£472 207 0 A	#724 020 FC	#2040FF2F	#724 020 FC	#222 A27 A2

Start and End of Period

Returns Start and End date of period (Month, Year, Quarter).

Use Case: Getting Sales on Start of the Month or End of the Month to compare current date sales.

STARTOFMONTH	STARTOFQUARTER	STARTOFYEAR
ENDOFMONTH	ENDOFQUARTER	ENDOFYEAR

Transaction_Date	Customer Sales	STARTOFMONTH	ENDOFMONTH	Sales at STARTOFMONT H	Sales at ENDOFMONTH
2017-01-01	\$2,508.20	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-01-02	\$2,403.35	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-01-03	\$2,565.00	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-01-04	\$2,220.10	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-01-05	\$2,418.85	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-01-06	\$2,273.85	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-01-07	\$2,787.00	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-01-08	\$2,638.53	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-01-09	\$2,676.61	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-01-10	\$2,685.65	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-01-11	\$2,555.75	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-01-12	\$2,327.70	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-01-13	\$3,033.60	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-01-20	\$2,603.73	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-01-21	\$3,082.85	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-01-22	\$2,367.33	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-01-23	\$2,853.15	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-01-24	\$2,868.95	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-01-25	\$2,846.55	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-01-26	\$2,863.03	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-01-27	\$2,742.10	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-01-28	\$2,037.10	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-01-29	\$2,060.75	2017-01-01	2017-01-31	\$2,508.20	\$2,33 <mark>4.1</mark> 3
2017-01-30	\$2,476.41	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-01-31	\$2,334.13	2017-01-01	2017-01-31	\$2,508.20	\$2,334.13
2017-02-01	\$2,466.30	2017-02-01	2017-02-28	\$2,466.30	\$2,311.10
2017-02-02	\$2,506.90	2017-02-01	2017-02-28	\$2,466.30	\$2,311.10
2017-02-03	\$2,591.45	2017-02-01	2017-02-28	\$2,466.30	\$2,311.10
2017-02-04	\$2,551.70	2017-02-01	2017-02-28	\$2,466.30	\$2,311.10
2017-02-05	\$2,304.70	2017-02-01	2017-02-28	\$2,466.30	\$2,311.10
2017-02-06	\$2,203.40	2017-02-01	2017-02-28	\$2,466.30	\$2,311.10
2017-02-07	\$2,563.35	2017-02-01	2017-02-28	\$2,466.30	\$2,311.10

Previous & Next Period

Adjacent Next & Previous

NEXTDAY	NEXTMONTH	NEXTQUARTER	NEXTYEAR
PREVIOUSDAY	PREVIOUSMONTH	PREVIOUSQUARTER	PREVIOUSYEAR

```
PREVIOUSDAY = PREVIOUSDAY('Calendar'[Transaction_Date])
```

```
% Increase From Previous Day =
IFERROR(
          ([Customer Sales] - [Sales - PREVIOUSDAY]) / [Sales - PREVIOUSDAY],
          0
)
```

Transaction_Date	Customer Sales	PREVIOUSDAY	Sales - PREVIOUSDAY	% Increase From Previous Day
2017-01-01	\$2,508.20			0%
2017-01-02	\$2,403.35	2017-01-01	\$2,508.20	-4%
2017-01-03	\$2,565.00	2017-01-02	\$2,403.35	7%
2017-01-04	\$2,220.10	2017-01-03	\$2,565.00	-13%
2017-01-05	\$2,418.85	2017-01-04	\$2,220.10	9%
2017-01-06	\$2,273.85	2017-01-05	\$2,418.85	-6%
2017-01-07	\$2,787.00	2017-01-06	\$2,273.85	23%
2017-01-08	\$2,638.53	2017-01-07	\$2,787.00	-5%
2017-01-09	\$2,676.61	2017-01-08	\$2,638.53	1%
2017-01-10	\$2,685.65	2017-01-09	\$2,676.61	0%
2017-01-11	\$2,555.75	2017-01-10	\$2,685.65	-5%
2017-01-12	\$2,327.70	2017-01-11	\$2,555.75	-9%
2017-01-13	\$3,033.60	2017-01-12	\$2,327.70	30%
2017-01-14	\$2,682.51	2017-01-13	\$3,033.60	-12%
2017-01-15	\$3,167.71	2017-01-14	\$2,682.51	18%
2017-01-16	\$2,829.16	2017-01-15	\$3,167.71	-11%
2017-01-17	\$3,285.80	2017-01-16	\$2,829.16	16%
2017-01-18	\$2,735.96	2017-01-17	\$3,285.80	-17%
2017-01-19	\$2 913 68	2017-01-18	\$2 735 96	6%

		Data
Year	Customer Sales	Sales - PREVIOUSMONTH
□ 2017	\$1,678,074.11	
January	\$81,845.09	
February	\$76,273.99	\$81,845.09
March	\$99,154.43	\$76,273.99
April	\$119,309.01	\$99,154.43
May	\$157,208.99	\$119,309.01
June	\$166,899.78	\$157,208.99
July	\$157,968.55	\$166,899.78
August	\$154,485.32	\$157,968.55
September	\$145,821.19	\$154,485.32
October	\$169,223.54	\$145,821.19
November	\$179,999.30	\$169,223.54
December	\$169,884.92	\$179,999.30
□ 2018	\$1,916,544.75	\$169,884.92
January	\$141,284.63	\$169,884.92
February	\$124,030.84	\$141,284.63
March	\$143,475.17	\$124,030.84
April	\$149,780.08	\$143,475.17
May	\$173,257.84	\$149,780.08

DATEADD	SAMEPERIODLASTYEAR	PARALLELPERIOD	

1				
Year	Customer Sales	Sales - DATEADD (2 Months back)	Sales - SAMEPERIOD LASTYEAR	Sales - PARALLELPERIOD (3 Months Back)
□ 2017				
January	\$81,845.09			
February	\$76,273.99			
March	\$99,154.43	\$81,845.09		
April	\$119,309.01	\$76,273.99		\$81,845.09
May	\$157,208.99	\$99,154.43		\$76,273.99
June	\$166,899.78	\$119,309.01		\$99,154.43
July	\$157,968.55	\$157,208.99		\$119,309.01
August	\$154,485.32	\$166,899.78		\$157,208.99
September	\$145,821.19	\$157,968.55		\$166,899.78
October	\$169,223.54	\$154,485.32		\$157,968.55
November	\$179,999.30	\$145,821.19		\$154,485.32
December	\$169,884.92	\$169,223.54		\$145,821.19
⊒ 2018				
January	\$141,284.63	\$179,999.30	\$81,845.09	\$169,223.54
February	\$124,030.84	\$169,884.92	\$76,273.99	\$179,999.30
March	\$143,475.17	\$141,284.63	\$99,154.43	\$169,884.92
April	\$149,780.08	\$124,030.84	\$119,309.01	\$141,284.63
May	\$173,257.84	\$143,475.17	\$157,208.99	\$124,030.84
lune	\$174 349 34	\$149 780 08	\$166 899 78	\$1 <u>4</u> 3 <u>4</u> 75 17

Running Totals

DATESINPERIOD & DATESBETWEEN

9	5010		quenes		
Year	Customer Sales	Sales - DATESINPERIOD (Running Total of last 2 months)	Sales - DATESINPERIOD (Running Total of Last 3 Months)	Sales - DATESBETWEEN (Running Total of Last 4 months)	
2017					
January	\$81,845.09	\$81,845.09	\$81,845.09	\$81,845.09	
February	\$76,273.99	\$158,119.08	\$158,119.08	\$158,119.08	
March	\$99,154.43	\$175,428.42	\$257,273.51	\$257,273.51	
April	\$119,309.01	\$218,463.44	\$294,737.43	\$376,582.52	
May	\$157,208.99	\$276,518.00	\$375,672.43	\$454,280.55	
June	\$166,899.78	\$324,108.77	\$443,417.78	\$544,883.31	
July	\$157,968.55	\$324,868.33	\$482,077.32	\$604,283.56	
August	\$154,485.32	\$312,453.87	\$479,353.65	\$640,123.82	
September	\$145,821.19	\$300,306.51	\$458,275.06	\$634,724.25	
October	\$169,223.54	\$315,044.73	\$469,530.05	\$632,995.07	
November	\$179,999.30	\$349,222.84	\$495,044.03	\$658,637.49	
December	\$169,884.92	\$349,884.22	\$519,107.76	\$669,385.62	
2018					
January	\$141,284.63	\$311,169.55	\$491,168.85	\$664,963.72	
February	\$124,030.84	\$265,315.47	\$435,200.39	\$633,705.38	
March	\$143,475.17	\$267,506.01	\$408,790.64	\$584,314.22	

DATESINPERIOD v/s DATESBETWEEN

More Read:

 $\underline{https://radacad.com/datesinperiod-vs-datesbetween-dax-time-intelligence-for-power-bi}$