

Power BI - Advanced DAX - Time Intelligence - Lecture 23

TIME INTELLIGENCE

Time Intelligence patterns are used to calculate common date-based comparisons

Performance
To-Date

=CALCULATE(Measure, DATESYTD(Calendar[Date]))

Use DATESYTD for Years, DATESQTD for Quarters,
DATESMTD for Months.

Previous
Period

=CALCULATE(Measure,
DATEADD(Calendar[Date], -1, MONTH))

Select an interval (DAY, MONTH, QUARTER, or YEAR) and the
of intervals to compare (e.g. previous month, rolling 10-day)

Running
Total

=CALCULATE(Measure,
DATESINPERIOD(Calendar[Date],
MAX(Calendar[Date]), -10, DAY))

PRO TIP:

To calculate a moving average, use the running total calculation
above and divide by the number of intervals

```
YTD Revenue =  
    CALCULATE(  
        [Total Revenue],  
        DATESYTD(  
            'Calendar Lookup'[Date]  
        )  
    )
```

```
YTD Revenue =  
    CALCULATE(  
        [Total Revenue],  
        DATESYTD(  
            'Calendar Lookup'[Date]  
        )  
    )
```

Rows

Date	X	>
Year	X	
Month	X	
+Add data		

Rows

Date	X	>
Year	X	
Month	X	
+Add data		

Rows

Date	X	>
Year	X	
Month	X	
+Add data		

Rows

Date	X	>
Year	X	
Month	X	
+Add data		

Rows

Date	X	>
Year	X	
Month	X	
+Add data		

Columns

+Add data

Values

Revenue X | >

YTD Revenue X | >

Columns

+Add data

Values

Revenue X | >

YTD Revenue X | >

Values

Revenue X | >

YTD Revenue X | >

Values

Revenue X | >

YTD Revenue X | >

Values

Revenue X | >

YTD Revenue X | >

Year	Total Revenue	YTD Revenue
2020	\$64,04,934	\$64,04,934
January	\$5,85,313	\$5,85,313
February	\$5,32,226	\$11,17,539
March	\$6,43,436	\$17,60,975
April	\$6,53,364	\$24,14,339
May	\$6,59,326	\$30,73,665
June	\$6,69,989	\$37,43,654
July	\$4,86,115	\$42,29,769
August	\$5,36,453	\$47,66,221
September	\$3,44,063	\$51,10,284
October	\$4,04,277	\$55,14,561
November	\$3,26,611	\$58,41,172
December	\$5,63,762	\$64,04,934
Total	\$2,49,14,587	\$91,85,449

DATESQTD , DATESMTD

```
graph TD; A[DATESQTD , DATESMTD] --> B[Profit]; A --> C[Total Orders.]
```

Profit

Total Orders.

DATESQTD , DATESMTD

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Profit

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Profit

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