@Shubham Pandey

DATEDIFF

Power BI

By Shubham Pandey

DATEDIFF FUNCTION

The DAX DATEDIFF function calculates the time interval between two dates,

and presents the result in seconds, minutes, hours, days, weeks, months,

quarters or years.

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Scenario

You're a data analyst for a retail company that tracks customer orders.

Management wants to know the time difference between when an order

was placed and when it was delivered, to analyze delivery efficiency.

You need to calculate the number of days between these two dates for each order.

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Problem

The company is facing inconsistent delivery times, and management is concerned that some orders are taking too long to deliver. Your task is to provide insights by calculating the difference between order date and delivery date, so they can take action on improving logistics

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Tables

OrderTable:

OrderID	CustomerID	OrderDate	DeliveryDate
1001	501	01/01/2024	05/01/2024
1002	502	02/01/2024	04/01/2024
1003	503	03/01/2024	07/01/2024

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Goal

To calculate the number of days it takes for each order to be delivered

by using the DATEDIFF function, so management can evaluate delivery

times and take necessary action.

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Syntax

DATEDIFF(StartDate, EndDate, Interval)

```DAX
DATEDIFF(StartDate, EndDate, Interval)
```

StartDate: The date the event begins (in our case, OrderDate)

EndDate: The date the event ends (in our case, DeliveryDate)

Interval: The unit of time you want to calculate the difference in (e.g., DAY, MONTH, YEAR)

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My Approach

- Use the DATEDIFF function in Power BI to calculate the time difference

  between the OrderDate and the DeliveryDate.

- The result will show the number of days taken to deliver each order

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How to use DATEDIFF

You will use the DATEDIFF function to calculate the difference between two dates in day

DeliveryDays = DATEDIFF(OrderTable[OrderDate], OrderTable[DeliveryDate], DAY)

```DAX
DeliveryDays = DATEDIFF(OrderTable[OrderDate], OrderTable[DeliveryDate], DAY)
```

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EXAMPLE

Let's say we have the following data in the OrderTable:

OrderID	OrderDate	DeliveryDate
1001	01/01/2024	05/01/2024
1002	02/01/2024	04/01/2024
1003	03/01/2024	07/01/2024

Using the DATEDIFF function in Power BI, we calculate the difference between the OrderDate and DeliveryDate in days

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EXAMPLE

DeliveryDays =

DATEDIFF(OrderTable[OrderDate],

OrderTable[DeliveryDate], DAY)

```DAX
DeliveryDays = DATEDIFF(OrderTable[OrderDate], OrderTable[DeliveryDate], DAY)
```

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Output

OrderID	OrderDate	DeliveryDate	DeliveryDays
1001	01/01/2024	05/01/2024	4
1002	02/01/2024	04/01/2024	2
1003	03/01/2024	07/01/2024	4

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EXPLANATION

Order 1001 took 4 days from order placement to delivery

Order 1002 took 2 days

Order 1003 took 4 days

This data can now be used to analyze which orders have slower or faster delivery times and enable management to improve logistics and customer service

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THANK

YOU

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