**CLOSINGBALANCEMONTH**

Evaluates the **expression** at the last date of the month in the current context.

**Syntax**

DAX Copy

CLOSINGBALANCEMONTH(<expression>,<dates>[,<filter>])

**Parameters**

| **Parameter** | **Definition** |
| --- | --- |
| expression | An expression that returns a scalar value. |
| dates | A column that contains dates. |
| filter | (optional) An expression that specifies a filter to apply to the current context. |

**Return value**

A scalar value that represents the **expression** evaluated at the last date of the month in the current context.

Example:

=CLOSINGBALANCEMONTH(SUMX(ProductInventory,ProductInventory[UnitCost]\*ProductInventory[UnitsBalance]),DateTime [DateKey])

# CLOSINGBALANCEQUARTER

Evaluates the **expression** at the last date of the quarter in the current context.

## Syntax

DAX Copy

CLOSINGBALANCEQUARTER(<expression>,<dates>[,<filter>])

### Parameters

|  |  |
| --- | --- |
| Parameter | Definition |
| expression | An expression that returns a scalar value. |
| dates | A column that contains dates. |
| filter | (optional) An expression that specifies a filter to apply to the current context. |

## Return value

A scalar value that represents the **expression** evaluated at the last date of the quarter in the current context.

Example:

=CLOSINGBALANCEQUARTER(SUMX(ProductInventory,ProductInventory[UnitCost]\*ProductInventory[UnitsBalance]), DateTime[DateKey])

# CLOSINGBALANCEYEAR

Evaluates the **expression** at the last date of the year in the current context.

## Syntax

DAX Copy

CLOSINGBALANCEYEAR(<expression>,<dates>[,<filter>][,<year\_end\_date>])

### Parameters

|  |  |
| --- | --- |
| Parameter | Definition |
| expression | An expression that returns a scalar value. |
| dates | A column that contains dates. |
| filter | (optional) An expression that specifies a filter to apply to the current context. |
| year\_end\_date | (optional) A literal string with a date that defines the year-end date. The default is December 31. |

## Return value

A scalar value that represents the **expression** evaluated at the last date of the year in the current context.

Example:

=CLOSINGBALANCEYEAR(SUMX(ProductInventory,ProductInventory[UnitCost]\*ProductInventory[UnitsBalance]), DateTime[DateKey])

# DATEADD

Returns a table that contains a column of dates, shifted either forward or backward in time by the specified number of intervals from the dates in the current context.

## Syntax

DAX Copy

DATEADD(<dates>,<number\_of\_intervals>,<interval>)

### Parameters

|  |  |
| --- | --- |
| Term | Definition |
| dates | A column that contains dates. |
| number\_of\_intervals | An integer that specifies the number of intervals to add to or subtract from the dates. |
| interval | The interval by which to shift the dates. The value for interval can be one of the following: year, quarter, month, day |

## Return value

A table containing a single column of date values.

Example:

=DATEADD(DateTime[DateKey],-1,year)

# DATESBETWEEN

Returns a table that contains a column of dates that begins with the **start\_date** and continues until the **end\_date**.

## Syntax

DAX Copy

DATESBETWEEN(<dates>,<start\_date>,<end\_date>)

### Parameters

|  |  |
| --- | --- |
| Term | Definition |
| dates | A reference to a date/time column. |
| start\_date | A date expression. |
| end\_date | A date expression. |

## Return value

A table containing a single column of date values.

Example:

=CALCULATE(SUM(InternetSales\_USD[SalesAmount\_USD]), DATESBETWEEN(DateTime[DateKey],

DATE(2007,6,1),

DATE(2007,8,31)

))

# DATESINPERIOD

Returns a table that contains a column of dates that begins with the **start\_date** and continues for the specified **number\_of\_intervals**.

## Syntax

DAX Copy

DATESINPERIOD(<dates>,<start\_date>,<number\_of\_intervals>,<interval>)

### Parameters

|  |  |
| --- | --- |
| Term | Definition |
| dates | A column that contains dates. |
| start\_date | A date expression. |
| number\_of\_intervals | An integer that specifies the number of intervals to add to or subtract from the dates. |
| interval | The interval by which to shift the dates. The value for interval can be one of the following: year, quarter, month, day |

## Return value

A table containing a single column of date values.

Example:  
=CALCULATE(SUM(InternetSales\_USD[SalesAmount\_USD]),DATESINPERIOD(DateTime[DateKey],DATE(2007,08,24),-21,day))

# DATESMTD

Returns a table that contains a column of the dates for the month to date, in the current context.

## Syntax

DAX Copy

DATESMTD(<dates>)

### Parameters

|  |  |
| --- | --- |
| Term | Definition |
| dates | A column that contains dates. |

## Property Value/Return value

A table containing a single column of date values.

Example:

=CALCULATE(SUM(InternetSales\_USD[SalesAmount\_USD]), DATESMTD(DateTime[DateKey]))

# DATESQTD

Returns a table that contains a column of the dates for the quarter to date, in the current context.

## Syntax

DAX Copy

DATESQTD(<dates>)

### Parameters

|  |  |
| --- | --- |
| Term | Definition |
| dates | A column that contains dates. |

## Property Value/Return value

A table containing a single column of date values.

Example:

=CALCULATE(SUM(InternetSales\_USD[SalesAmount\_USD]), DATESQTD(DateTime[DateKey]))

# DATESYTD

Returns a table that contains a column of the dates for the year to date, in the current context.

## Syntax

DAX Copy

DATESYTD(<dates> [,<year\_end\_date>])

### Parameters

|  |  |
| --- | --- |
| Term | Definition |
| dates | A column that contains dates. |
| year\_end\_date | (optional) A literal string with a date that defines the year-end date. The default is December 31. |

## Property Value/Return value

A table containing a single column of date values.

=CALCULATE(SUM(InternetSales\_USD[SalesAmount\_USD]), DATESYTD(DateTime[DateKey]))

# ENDOFMONTH

Returns the last date of the month in the current context for the specified column of dates.

## Syntax

DAX Copy

ENDOFMONTH(<dates>)

### Parameters

|  |  |
| --- | --- |
| Term | Definition |
| dates | A column that contains dates. |

## Return value

A table containing a single column and single row with a date value.

Example:

=ENDOFMONTH(DateTime[DateKey])

# ENDOFQUARTER

Returns the last date of the quarter in the current context for the specified column of dates.

## Syntax

DAX Copy

ENDOFQUARTER(<dates>)

### Parameters

|  |  |
| --- | --- |
| Term | Definition |
| dates | A column that contains dates. |

## Return value

A table containing a single column and single row with a date value.

Example:

=ENDOFQUARTER(DateTime[DateKey])

# ENDOFYEAR

Returns the last date of the year in the current context for the specified column of dates.

## Syntax

DAX Copy

ENDOFYEAR(<dates> [,<year\_end\_date>])

### Parameters

|  |  |
| --- | --- |
| Term | Definition |
| dates | A column that contains dates. |
| year\_end\_date | (optional) A literal string with a date that defines the year-end date. The default is December 31. |

## Return value

A table containing a single column and single row with a date value.

Example:

=ENDOFYEAR(DateTime[DateKey],"06/30/2004")

# FIRSTDATE

Returns the first date in the current context for the specified column of dates.

## Syntax

DAX Copy

FIRSTDATE(<dates>)

### Parameters

|  |  |
| --- | --- |
| Term | Definition |
| dates | A column that contains dates. |

## Return value

A table containing a single column and single row with a date value.

Example:

=FIRSTDATE('InternetSales\_USD'[SaleDateKey])

# FIRSTNONBLANK

Returns the first value in the column, **column**, filtered by the current context, where the expression is not blank.

## Syntax

DAX Copy

FIRSTNONBLANK(<column>,<expression>)

### Parameters

| **Term** | **Definition** |
| --- | --- |
| column | A column expression. |
| expression | An expression evaluated for blanks for each value of **column**. |

## Property Value/Return value

A table containing a single column and single row with the computed first value.

Example:

# LASTDATE

Returns the last date in the current context for the specified column of dates.

## Syntax

DAX Copy

LASTDATE(<dates>)

### Parameters

| **Term** | **Definition** |
| --- | --- |
| dates | A column that contains dates. |

## Return value

A table containing a single column and single row with a date value.

Example:

=LASTDATE('InternetSales\_USD'[SaleDateKey])

# LASTNONBLANK

Returns the last value in the column, **column**, filtered by the current context, where the expression is not blank.

## Syntax

DAX Copy

LASTNONBLANK(<column>,<expression>)

### Parameters

|  |  |
| --- | --- |
| Term | Definition |
| column | A column expression. |
| expression | An expression evaluated for blanks for each value of **column**. |

## Property Value/Return value

A table containing a single column and single row with the computed last value.

Example:

# NEXTDAY

Returns a table that contains a column of all dates from the next day, based on the first date specified in the **dates** column in the current context.

## Syntax

DAX Copy

NEXTDAY(<dates>)

### Parameters

|  |  |
| --- | --- |
| Term | Definition |
| dates | A column containing dates. |

## Return value

A table containing a single column of date values.

Example:

=CALCULATE(SUM(InternetSales\_USD[SalesAmount\_USD]), NEXTDAY('DateTime'[DateKey]))

# NEXTMONTH

Returns a table that contains a column of all dates from the next month, based on the first date in the **dates** column in the current context.

## Syntax

DAX Copy

NEXTMONTH(<dates>)

### Parameters

|  |  |
| --- | --- |
| Term | Definition |
| dates | A column containing dates. |

## Return value

A table containing a single column of date values.

Example :

=CALCULATE(SUM(InternetSales\_USD[SalesAmount\_USD]), NEXTMONTH('DateTime'[DateKey]))

# NEXTQUARTER

Returns a table that contains a column of all dates in the next quarter, based on the first date specified in the **dates** column, in the current context.

## Syntax

DAX Copy

NEXTQUARTER(<dates>)

### Parameters

|  |  |
| --- | --- |
| Term | Definition |
| dates | A column containing dates. |

## Return value

A table containing a single column of date values.

Example:

=CALCULATE(SUM(InternetSales\_USD[SalesAmount\_USD]), NEXTQUARTER('DateTime'[DateKey]))

# NEXTYEAR

Returns a table that contains a column of all dates in the next year, based on the first date in the **dates** column, in the current context.

## Syntax

DAX Copy

NEXTYEAR(<dates>[,<year\_end\_date>])

### Parameters

|  |  |
| --- | --- |
| Term | Definition |
| dates | A column containing dates. |
| year\_end\_date | (optional) A literal string with a date that defines the year-end date. The default is December 31. |

## Return value

A table containing a single column of date values.

Example:

=CALCULATE(SUM(InternetSales\_USD[SalesAmount\_USD]), NEXTYEAR('DateTime'[DateKey]))

# OPENINGBALANCEMONTH

Evaluates the **expression** at the first date of the month in the current context.

## Syntax

DAX Copy

OPENINGBALANCEMONTH(<expression>,<dates>[,<filter>])

### Parameters

|  |  |
| --- | --- |
| Parameter | Definition |
| expression | An expression that returns a scalar value. |
| dates | A column that contains dates. |
| filter | (optional) An expression that specifies a filter to apply to the current context. |

## Return value

A scalar value that represents the **expression** evaluated at the first date of the month in the current context.

Exmaple:

=OPENINGBALANCEMONTH(SUMX(ProductInventory,ProductInventory[UnitCost]\*ProductInventory[UnitsBalance]), DateTime[DateKey])

# OPENINGBALANCEQUARTER

Evaluates the **expression** at the first date of the quarter, in the current context.

## Syntax

DAX Copy

OPENINGBALANCEQUARTER(<expression>,<dates>[,<filter>])

### Parameters

|  |  |
| --- | --- |
| Parameter | Definition |
| expression | An expression that returns a scalar value. |
| dates | A column that contains dates. |
| filte\* | (optional) An expression that specifies a filter to apply to the current context. |

## Return value

A scalar value that represents the **expression** evaluated at the first date of the quarter in the current context.

Example:

=OPENINGBALANCEQUARTER(SUMX(ProductInventory,ProductInventory[UnitCost]\*ProductInventory[UnitsBalance]), DateTime[DateKey])

# OPENINGBALANCEYEAR

Evaluates the **expression** at the first date of the year in the current context.

## Syntax

DAX Copy

OPENINGBALANCEYEAR(<expression>,<dates>[,<filter>][,<year\_end\_date>])

### Parameters

|  |  |
| --- | --- |
| Parameter | Definition |
| expression | An expression that returns a scalar value. |
| dates | A column that contains dates. |
| filter | (optional) An expression that specifies a filter to apply to the current context. |
| year\_end\_date | (optional) A literal string with a date that defines the year-end date. The default is December 31. |

## Return value

A scalar value that represents the **expression** evaluated at the first date of the year in the current context.

EXAMPLE:

=OPENINGBALANCEYEAR(SUMX(ProductInventory,ProductInventory[UnitCost]\*ProductInventory[UnitsBalance]), DateTime[DateKey])

# PREVIOUSDAY

Returns a table that contains a column of all dates representing the day that is previous to the first date in the **dates** column, in the current context.

## Syntax

DAX Copy

PREVIOUSDAY(<dates>)

### Parameters

|  |  |
| --- | --- |
| Term | Definition |
| dates | A column containing dates. |

## Return value

A table containing a single column of date values.

=CALCULATE(SUM(InternetSales\_USD[SalesAmount\_USD]), PREVIOUSDAY('DateTime'[DateKey]))

# PREVIOUSMONTH

Returns a table that contains a column of all dates from the previous month, based on the first date in the **dates** column, in the current context.

## Syntax

DAX Copy

PREVIOUSMONTH(<dates>)

### Parameters

|  |  |
| --- | --- |
| Term | Definition |
| Dates | A column containing dates. |

## Return value

A table containing a single column of date values.

Example:

=CALCULATE(SUM(InternetSales\_USD[SalesAmount\_USD]), PREVIOUSMONTH('DateTime'[DateKey]))

# PREVIOUSQUARTER

Returns a table that contains a column of all dates from the previous quarter, based on the first date in the **dates** column, in the current context.

## Syntax

DAX Copy

PREVIOUSQUARTER(<dates>)

### Parameters

|  |  |
| --- | --- |
| Term | Definition |
| dates | A column containing dates. |

## Return value

A table containing a single column of date values.

Example:

=CALCULATE(SUM(InternetSales\_USD[SalesAmount\_USD]), PREVIOUSQUARTER('DateTime'[DateKey]))

# PREVIOUSYEAR

Returns a table that contains a column of all dates from the previous year, given the last date in the **dates** column, in the current context.

## Syntax

DAX Copy

PREVIOUSYEAR(<dates>[,<year\_end\_date>])

### Parameters

|  |  |
| --- | --- |
| Term | Definition |
| dates | A column containing dates. |
| year\_end\_date | (optional) A literal string with a date that defines the year-end date. The default is December 31. |

## Return value

A table containing a single column of date values.

Example:

=CALCULATE(SUM(InternetSales\_USD[SalesAmount\_USD]), PREVIOUSYEAR('DateTime'[DateKey]))

# PARALLELPERIOD

Returns a table that contains a column of dates that represents a period parallel to the dates in the specified **dates** column, in the current context, with the dates shifted a number of intervals either forward in time or back in time.

## Syntax

DAX Copy

PARALLELPERIOD(<dates>,<number\_of\_intervals>,<interval>)

### Parameters

|  |  |
| --- | --- |
| Term | Definition |
| dates | A column that contains dates. |
| number\_of\_intervals | An integer that specifies the number of intervals to add to or subtract from the dates. |
| interval | The interval by which to shift the dates. The value for interval can be one of the following: year, quarter, month. |

## Return value A table containing a single column of date values. Example:

=CALCULATE(SUM(InternetSales\_USD[SalesAmount\_USD]), PARALLELPERIOD(DateTime[DateKey],-1,year))

# SAMEPERIODLASTYEAR

Returns a table that contains a column of dates shifted one year back in time from the dates in the specified **dates** column, in the current context.

## Syntax

DAX Copy

SAMEPERIODLASTYEAR(<dates>)

### Parameters

|  |  |
| --- | --- |
| Term | Definition |
| **dates** | A column containing dates. |

## Property Value/Return value

A single-column table of date values.

Example:

=CALCULATE(SUM(ResellerSales\_USD[SalesAmount\_USD]), SAMEPERIODLASTYEAR(DateTime[DateKey]))

# TOTALMTD

Evaluates the value of the **expression** for the month to date, in the current context.

## Syntax

DAX Copy

TOTALMTD(<expression>,<dates>[,<filter>])

### Parameters

| **Parameter** | **Definition** |
| --- | --- |
| expression | An expression that returns a scalar value. |
| dates | A column that contains dates. |
| filter | (optional) An expression that specifies a filter to apply to the current context. |

## Return value

A scalar value that represents the **expression** evaluated for the dates in the current month-to-date, given the dates in **dates**.

Example:

=TOTALMTD(SUM(InternetSales\_USD[SalesAmount\_USD]),DateTime[DateKey])

# TOTALQTD

Evaluates the value of the **expression** for the dates in the quarter to date, in the current context.

## Syntax

DAX Copy

TOTALQTD(<expression>,<dates>[,<filter>])

### Parameters

| **Parameter** | **Definition** |
| --- | --- |
| expression | An expression that returns a scalar value. |
| dates | A column that contains dates. |
| filter | (optional) An expression that specifies a filter to apply to the current context. |

## Return value

A scalar value that represents the **expression** evaluated for all dates in the current quarter to date, given the dates in **dates**.

Example:

=TOTALQTD(SUM(InternetSales\_USD[SalesAmount\_USD]),DateTime[DateKey])

# TOTALYTD

Evaluates the year-to-date value of the **expression** in the current context.

## Syntax

DAX Copy

TOTALYTD(<expression>,<dates>[,<filter>][,<year\_end\_date>])

### Parameters

| **Parameter** | **Definition** |
| --- | --- |
| expression | An expression that returns a scalar value. |
| dates | A column that contains dates. |
| filter | (optional) An expression that specifies a filter to apply to the current context. |
| year\_end\_date | (optional) A literal string with a date that defines the year-end date. The default is December 31. |

## Return value

A scalar value that represents the **expression** evaluated for the current year-to-date **dates**.

Example:

=TOTALYTD(SUM(InternetSales\_USD[SalesAmount\_USD]),DateTime[DateKey])