**AND**

Checks whether both arguments are TRUE, and returns TRUE if both arguments are TRUE. Otherwise returns false.

**Syntax**

DAX Copy

AND(<logical1>,<logical2>)

**Parameters**

| **Term** | **Definition** |
| --- | --- |
| logical\_1, logical\_2 | The logical values you want to test. |

**Return value**

Returns true or false depending on the combination of values that you test.

Example:

=IF(AND(10 > 9, -10 < -1), "All true", "One or more false"

**FALSE**

Returns the logical value FALSE.

**Syntax**

DAX Copy

FALSE()

**Return value**

Always FALSE.

**Remarks**

The word FALSE is also interpreted as the logical value FALSE.

Example:

=IF(SUM('InternetSales\_USD'[SalesAmount\_USD]) >200000, TRUE(), false())

**IF**

Checks if a condition provided as the first argument is met. Returns one value if the condition is TRUE, and returns another value if the condition is FALSE.

**Syntax**

DAX Copy

IF(logical\_test>,<value\_if\_true>, value\_if\_false)

**Parameters**

| **Term** | **Definition** |
| --- | --- |
| logical\_test | Any value or expression that can be evaluated to TRUE or FALSE. |
| value\_if\_true | The value that is returned if the logical test is TRUE. If omitted, TRUE is returned. |
| value\_if\_false | The value that is returned if the logical test is FALSE. If omitted, FALSE is returned. |

**Return value**

Any type of value that can be returned by an expression.

Example:

=IF([Calls]<200,"low",IF([Calls]<300,"medium","high"))

=IF([StateProvinceCode]= "CA" && ([MaritalStatus] = "M" || [NumberChildrenAtHome] >1),[City])

**IFERROR**

Evaluates an expression and returns a specified value if the expression returns an error; otherwise returns the value of the expression itself.

**Syntax**

DAX Copy

IFERROR(value, value\_if\_error)

**Parameters**

| **Term** | **Definition** |
| --- | --- |
| value | Any value or expression. |
| value\_if\_error | Any value or expression. |

**Return value**

A scalar of the same type as **value**

Example:

=IFERROR(25/0,9999)

**IN**

Returns True if the scalar value shows up in at least one row of the input relation.

**Syntax**

DAX Copy

IN

**Parameters**

| **Term** | **Definition** |
| --- | --- |
| scalar expression |  |
| table expression |  |

**Return value**

True

Filtered Sales:=CALCULATE (

[Internet Total Sales], 'Product'[Color] IN { "Red", "Blue", "Black" }

)

**NOT**

Changes FALSE to TRUE, or TRUE to FALSE.

**Syntax**

DAX Copy

NOT(<logical>)

**Parameters**

| **Term** | **Definition** |
| --- | --- |
| logical | A value or expression that can be evaluated to TRUE or FALSE. |

**Return value**

TRUE OR FALSE.

Example:

=IF([Orders]<300,"true","false")

=NOT([CalculatedColumn1])

**OR**

Checks whether one of the arguments is TRUE to return TRUE. The function returns FALSE if both arguments are FALSE.

**Syntax**

DAX Copy

OR(<logical1>,<logical2>)

**Parameters**

| **Term** | **Definition** |
| --- | --- |
| logical\_1, logical\_2 | The logical values you want to test. |

**Return value**

A Boolean value. The value is TRUE if any of the two arguments is TRUE; the value is FALSE if both the arguments are FALSE.

Example:

**SWITCH**

Evaluates an expression against a list of values and returns one of multiple possible result expressions.

**Syntax**

DAX Copy

SWITCH(<expression>, <value>, <result>[, <value>, <result>]…[, <else>])

**Parameters**

| **Term** | **Definition** |
| --- | --- |
| expression | Any DAX expression that returns a single scalar value, where the expression is to be evaluated multiple times (for each row/context). |
| value | A constant value to be matched with the results of *expression*. |
| result | Any scalar expression to be evaluated if the results of *expression* match the corresponding *value*. |
| else | Any scalar expression to be evaluated if the result of *expression* doesn't match any of the *value* arguments. |

**Return value**

A scalar value coming from one of the *result* expressions, if there was a match with *value*, or from the *else* expression, if there was no match with any *value*.

Example:

=SWITCH([Month], 1, "January", 2, "February", 3, "March", 4, "April"

, 5, "May", 6, "June", 7, "July", 8, "August"

, 9, "September", 10, "October", 11, "November", 12, "December"

, "Unknown month number" )

**TRUE**

Returns the logical value TRUE.

**Syntax**

DAX Copy

TRUE()

**Return value**

Always TRUE.

**Remarks**

The word TRUE is also interpreted as the logical value TRUE.

Example:

= IF(SUM('InternetSales\_USD'[SalesAmount\_USD]) >200000, TRUE(), false())