

Task Factory Functions List M-N

Last Modified on 02 October 2020

🔔 Task Factory users running version 2020.1.4 or older (released prior to May 27, 2020): **There's an important Task Factory update.** Please visit [here](#) for more details.

MakeDateTime

| | | |
|---|---|---------------------------------------|
| Description | Creates a date based on the parameters passed into the function. | |
| Syntax | MakeDateTime(Year, Month, Day [, Hour] [, Minute] [, Second] [, Millisecond]) | |
| Returns | returns date | |
| Parameters | | |
| Name | Optional | Description |
| Year | false | Year of the date being created |
| Month | false | Month of the date being created |
| Day | false | Day of the date being created |
| Hour | false | Hour of the date being created |
| Minute | false | Minute of the date being created |
| Second | false | Second of the date being created |
| Millisecond | false | Millisecond of the date being created |
| Examples | | |
| MakeDateTime("2012", "07", "07"), MakeDateTime("2012", "07", "07", "12", "30", "45", "001") | | |

Max (Date)

| | | |
|--|---|--|
| Description | Aggregation that returns max date the group. Can only be used as part of the Advanced Aggregation component | |
| Syntax | Max(Value [, Condition]) | |
| Returns | Date. | |
| Parameters | | |
| Name | Optional | Description |
| Value | false | The value to add to the aggregation |
| Condition | false | The condition allows you to conditionally add values to the aggregation based on the expression. For instance, you could define the aggregate as Max(SalesDate, CustomerState="FL") and this would only add the value to the aggregation if the customers state was florida. |
| Examples | | |
| Max(SalesDate), Max(SalesDate, CustomerState="FL") | | |

Max (Number)

| | | |
|-------------|---|-------------|
| Description | Aggregation that returns max number the group. Can only be used as part of the Advanced Aggregation component | |
| Syntax | Max(Value [, Condition]) | |
| Returns | Integer. | |
| Parameters | | |
| Name | Optional | Description |
| | | |

| | | |
|---|------------------------------|--|
| Value | false | The value to add to the aggregation |
| Condition | Max (Number) false | The condition allows you to conditionally add values to the aggregation based on the expression. For instance, you could define the aggregate as <code>Max(SalesTotal, CustomerState="FL")</code> and this would only add the value to the aggregation if the customers state was florida. |
| Examples | | |
| <code>Max(SalesTotal), Max(SalesTotal, CustomerState="FL")</code> | | |

| | | |
|---|--|--|
| Max (String) | | |
| Description | Aggregation that returns max string the group. The value is based on the ascii value of the string. Can only be used as part of the Advanced Aggregation component | |
| Syntax | <code>Max(Value [, Condition])</code> | |
| Returns | String | |
| Parameters | | |
| Name | Optional | Description |
| Value | false | The value to add to the aggregation |
| Condition | false | The condition allows you to conditionally add values to the aggregation based on the expression. For instance, you could define the aggregate as <code>Max(CustomerAlternateKey, CustomerState="FL")</code> and this would only add the value to the aggregation if the customers state was florida. |
| Examples | | |
| <code>Max(CustomerAlternateKey), Max(CustomerAlternateKey, CustomerState="FL")</code> | | |

MD5

| | | |
|--------------------|--|--|
| Description | Calculates the checksum of the input value. The function uses Message-Digest algorithm 5 (MD5). MD5 is a one-way cryptographic hash function with a 128-bit hash value. You can conclude that input values are different when the checksums of the input values are different. Use MD5 to verify data integrity. | |
| Syntax | MD5(Value) | |
| Returns | Unique 32-character string of hexadecimal digits 0-9 and a-f. NULL if the input is a null value. | |
| Parameters | | |
| Name | Optional | Description |
| Value | false | String or Binary datatype. Value for which you want to calculate checksum. The case of the input value affects the return value. For example, MD5(ssis) and MD5(SSIS) return different values. |
| Examples | | |
| MD5("secure this") | | |

MessageBox

| | | |
|-------------|--|------------------------------|
| Description | Displays a MessageBox with a message (Only works in BIDS / SQL Server Data Tools). Used for debugging purposes during design time. | |
| Syntax | MessageBox(Message [, Condition]) | |
| Returns | Nothing | |
| Parameters | | |
| Name | Optional | Description |
| Message | false | The message to display. |
| | | The condition to evaluate to |

| | | |
|-----------|------|------------------------------------|
| Condition | true | true before display the MessageBox |
|-----------|------|------------------------------------|

MessageBox

Examples
 MessageBox("This is a message"), MessageBox("Values didn't match", value1!=value2)]

Millisecond

| | |
|-------------|--|
| Description | Returns the Millisecond from the date specified. |
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| | |
|--------|---------------------|
| Syntax | Millisecond(Date) |
|--------|---------------------|

| | |
|---------|----------------------------------|
| Returns | returns integer value of 0 - 999 |
|---------|----------------------------------|

Parameters

| Name | Optional | Description |
|------|----------|-------------|
|------|----------|-------------|

| | | |
|------|-------|-----------------------------------|
| Date | false | Date to retrieve Millisecond from |
|------|-------|-----------------------------------|

Examples

Millisecond("12/8/2011"), Millisecond(varDate), Millisecond(OrderDateColumn)

Min (Date)

| | |
|-------------|---|
| Description | Aggregation that returns Min date the group. Can only be used as part of the Advanced Aggregation component |
|-------------|---|

| | |
|--------|---------------------------|
| Syntax | Min(Value [, Condition]) |
|--------|---------------------------|

| | |
|---------|-------|
| Returns | Date. |
|---------|-------|

Parameters

| Name | Optional | Description |
|------|----------|-------------|
|------|----------|-------------|

| | | |
|-------|-------|-------------------------------------|
| Value | false | The value to add to the aggregation |
|-------|-------|-------------------------------------|

| | | |
|--|--|---|
| | | The condition allows you to conditionally add values to the |
|--|--|---|

| | | | |
|--|-------|------------|--|
| Condition | false | Min (Date) | aggregation based on the expression. For instance, you could define the aggregate as Min(SalesDate, CustomerState="FL") and this would only add the value to the aggregation if the customers state was florida. |
| Examples | | | |
| Min(SalesDate), Min(SalesDate, CustomerState="FL") | | | |

| | | |
|--|---|---|
| <h2>Min (Number)</h2> | | |
| Description | Aggregation that returns Min number the group. Can only be used as part of the Advanced Aggregation component | |
| Syntax | Min(Value [, Condition]) | |
| Returns | Integer. | |
| Parameters | | |
| Name | Optional | Description |
| Value | false | The value to add to the aggregation |
| Condition | false | The condition allows you to conditionally add values to the aggregation based on the expression. For instance, you could define the aggregate as Min(SalesTotal, CustomerState="FL") and this would only add the value to the aggregation if the customers state was florida. |
| Examples | | |
| Min(SalesTotal), Min(SalesTotal, CustomerState="FL") | | |

| | | |
|-----------------------|--|--|
| <h2>Min (String)</h2> | | |
| | | |

| | | |
|--|--|---|
| Description | Aggregation that returns Min string the group. The value is based on the ascii value of the string. Can only be used as part of the Advanced Aggregation component | |
| Syntax | Min(Value [, Condition]) | |
| Returns | String | |
| Parameters | | |
| Name | Optional | Description |
| Value | false | The value to add to the aggregation |
| Condition | false | The condition allows you to conditionally add values to the aggregation based on the expression. For instance, you could define the aggregate as Min(CustomerAlternateKey, CustomerState="FL") and this would only add the value to the aggregation if the customers state was florida. |
| Examples | | |
| Min(CustomerAlternateKey), Min(CustomerAlternateKey, CustomerState="FL") | | |

Minute

| | | |
|---|---|------------------------------|
| Description | Returns the Minute from the date specified. | |
| Syntax | Minute(Date) | |
| Returns | returns integer value of 0 - 59 | |
| Parameters | | |
| Name | Optional | Description |
| Date | false | Date to retrieve Minute from |
| Examples | | |
| Minute("12/8/2011"), Minute(varDate), Minute(OrderDateColumn) | | |

Mod

| | | |
|-------------|--|------------------------------------|
| Description | Divides two numbers and returns the remainder. | |
| Syntax | Mod(Value1, Value2) | |
| Returns | Numeric | |
| Parameters | | |
| Name | Optional | Description |
| Value1 | false | The first number in the equation. |
| Value2 | false | The second number in the equation. |
| Examples | | |
| Mod(10, 3) | | |

Month

| | | |
|--|--|-----------------------------|
| Description | Returns the Month from the date specified. | |
| Syntax | Month(Date) | |
| Returns | returns integer value of 1 - 12 | |
| Parameters | | |
| Name | Optional | Description |
| Date | false | Date to retrieve Month from |
| Examples | | |
| Month("12/8/2011"), Month(varDate), Month(OrderDateColumn) | | |

MonthName

| | | |
|--|---|--|
| Description | Returns the name of the Month (MonMonth, TuesMonth, etc) from the date specified. | |
| Syntax | MonthName(Date) | |
| Returns | returns string. Name of the Month | |
| Parameters | | |
| Name | Optional | Description |
| Date | false | Date to retrieve Month name from |
| return_shortname | false | Return the short name of the Month (Jan, Feb, Mar) |
| Examples | | |
| MonthName("12/8/2011", false), MonthName(varDate, True), MonthName(OrderDateColumn, false) | | |

Now

| | |
|-------------|------------------------------------|
| Description | Returns the current date and time. |
| Syntax | Now() |
| Returns | Date |
| Examples | |
| Now() | |

Nullif

| | |
|-------------|---|
| Description | Compares two string values for equality and returns null if they match. |
|-------------|---|

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|---|--|---|
| Syntax | NullIf(String_Value1, String_Value2) | |
| Returns | Null if "String_Value1" or "String_Value2" is null. Returns value of "String_Value1" if "String_Value2" and "string_value2" do not match.. | |
| Parameters | | |
| Name | Optional | Description |
| String_Value1 | false | Any string value. If the values do not match, this value is returned from the function. |
| String_Value2 | false | Any string value. |
| Examples | | |
| NullIf(CompanyNameColumn, ""), NullIf(AddressColumnLine2, "") | | |

NullIfEmpty

| | | |
|---|--|-------------------|
| Description | Checks a string value for an empty value. If the string value is empty a null value is returned. | |
| Syntax | NullIfEmpty(String_Value) | |
| Returns | Null if "String_Value" is empty. Returns value of "String_Value" if the value is not empty. | |
| Parameters | | |
| Name | Optional | Description |
| String_Value | false | Any string value. |
| Examples | | |
| NullIfEmpty(CompanyNameColumn), NullIfEmpty(varValue) | | |