**PATH**

Returns a delimited text string with the identifiers of all the parents of the current identifier, starting with the oldest and continuing until current.

**Syntax**

DAX Copy

PATH(<ID\_columnName>, <parent\_columnName>)

**Parameters**

| **Term** | **Definition** |
| --- | --- |
| ID\_columnName | The name of an existing column containing the unique identifier for rows in the table. This cannot be an expression. The data type of the value in *ID\_columnName* must be text or integer, and must also be the same data type as the column referenced in *parent\_columnName*. |
| parent\_columnName | The name of an existing column containing the unique identifier for the parent of the current row. This cannot be an expression. The data type of the value in *parent\_columnName* data type must be text or integer, and must be the same data type as the value in *ID\_columnName*. |

**Return value**

A delimited text string containing the identifiers of all the parents to the current identifier.

Example:

=PATH(Employee[EmployeeKey], Employee[ParentEmployeeKey])

**PATHCONTAINS**

Returns **TRUE** if the specified *item* exists within the specified *path*.

**Syntax**

DAX Copy

PATHCONTAINS(<path>, <item>)

**Parameters**

path  
A string created as the result of evaluating a PATH function.

item  
A text expression to look for in the path result.

**Return value**

A value of **TRUE** if *item* exists in *path*; otherwise **FALSE**.

Example

=PATHCONTAINS(PATH(Employee[EmployeeKey], Employee[ParentEmployeeKey]), "23")

**PATHITEM**

Returns the item at the specified *position* from a string resulting from evaluation of a PATH function. Positions are counted from left to right.

**Syntax**

DAX Copy

PATHITEM(<path>, <position>[, <type>])

**Parameters**

path  
A text string in the form of the results of a PATH function.

position  
An integer expression with the position of the item to be returned.

type  
(Optional)An enumeration that defines the data type of the result:

|  |  |  |
| --- | --- | --- |
| **Enumeration** | **Alternate Enumeration** | **Description** |
| TEXT | 0 | Results are returned with the data type text. (default). |
| INTEGER | 1 | Results are returned as integers. |

**Return value**

The identifier returned by the PATH function at the specified position in the list of identifiers. Items returned by the PATH function are ordered by most distant to current.

=PATHITEM(PATH(Employee[EmployeeKey], Employee[ParentEmployeeKey]), 3, 1)

**PATHITEMREVERSE**

Returns the item at the specified *position* from a string resulting from evaluation of a PATH function. Positions are counted backwards from right to left.

**Syntax**

DAX Copy

PATHITEMREVERSE(<path>, <position>[, <type>])

**Parameters**

path  
A text string resulting from evaluation of a PATH function.

position  
An integer expression with the position of the item to be returned. Position is counted backwards from right to left.

type  
(Optional) An enumeration that defines the data type of the result:

|  |  |  |
| --- | --- | --- |
| **Enumeration** | **Alternate Enumeration** | **Description** |
| TEXT | 0 | Results are returned with the data type of text. (default) |
| INTEGER | 1 | Results are returned with the data type of integer. |

**Return value**

The n-position ascendant in the given path, counting from current to the oldest.

=PATHITEMREVERSE(PATH(Employee[EmployeeKey], Employee[ParentEmployeeKey]), 3, 1)

**PATHLENGTH**

Returns the number of parents to the specified item in a given PATH result, including self.

**Syntax**

DAX Copy

PATHLENGTH(<path>)

**Parameters**

| **Term** | **Definition** |
| --- | --- |
| path | A text expression resulting from evaluation of a PATH function. |

**Return value**

The number of items that are parents to the specified item in a given PATH result, including the specified item.

=PATHLENGTH(PATH(Employee[EmployeeKey], Employee[ParentEmployeeKey]))