[BITE-SIZED POWER QUERY]

Custom Function for List of Dates

Function: DateList

```
(from as date, to as date, step function as function) as list =>
let
    endpoint function
        = (step function as function) as function => (date as date) as number =>
        let lookup =
            {Date.AddDays, Number.From(date)},
            {Date.AddMonths, Date.Year(date)*12 + Date.Month(date)},
            {Date.AddQuarters, Date.Year(date)*4 + Date.QuarterOfYear(date)},
            {Date.AddWeeks, Date.Year(date)*52 + Date.WeekOfYear(date)},
            {Date.AddYears, Date.Year(date)}
        in List.Select(lookup, each {0} = step function){0}{1},
    fn = endpoint function(step function),
    Steps = fn(to) - fn(from),
    Transformer = (element as number) => step_function(from,element),
    Result = List.Transform({0..Steps}, Transformer)
in
    Result
```

Pass a start and end date and a "step_function" – one of Date.AddDays, Date.AddMonths, Date.AddQuarters, Date.AddWeeks or Date.AddYears

1

endpoint_function is configured by step_function and returns a function that converts a date to a number.

The number serves as an endpoint to the numeric index of the list of dates.

Define a lookup as a list of lists. For each sub-list, the first element is one of the valid step functions. The second element is a calculation to convert the date to a number.

Select from the lookup that sublist whose first element matches step_function and return the second element (i.e. the date converted to a number)

Define fn as an endpoint_function configured with the step function passed to DateList.

Transform the list of numbers from 0 to Steps using the Transformer function

in

Result

Calculate the number of steps using the difference between the number representation of the *to* date and the number representation of the *from* date

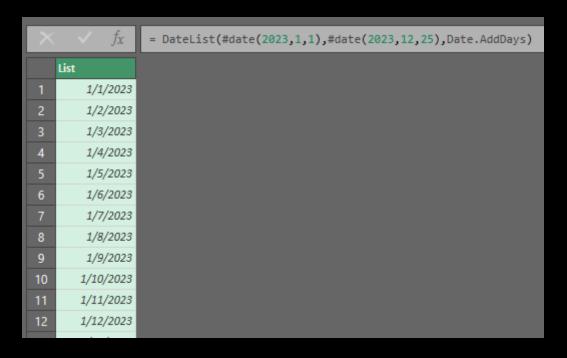
Define a function with which to transform a list of numbers.

E.g.

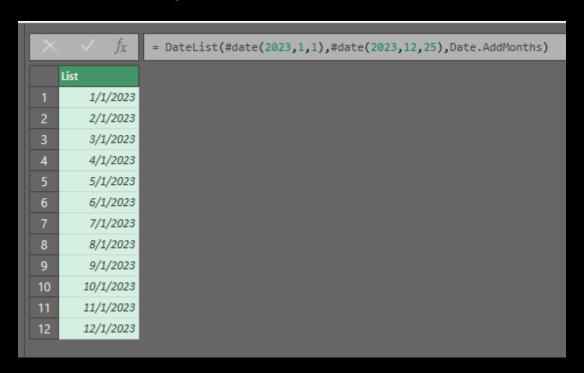
In the case of Date.AddMonths, for a list {0,1,2}, add 0, 1 and 2 months respectively to the from date.

Usage

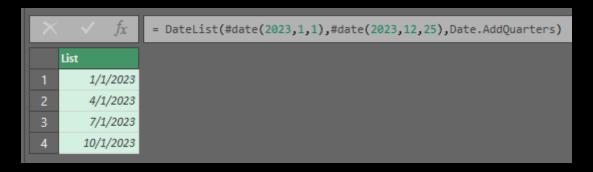
Incremented by days



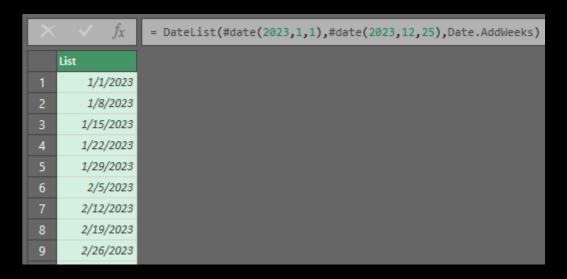
Incremented by months



Incremented by quarters



Incremented by weeks



Incremented by years



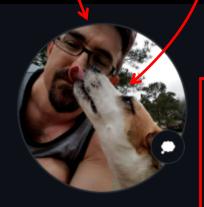
For the code: https://gist.github.com/ncalm

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Owen Price

ncalm

Data guy. Interested in Excel, Python, Tableau, DAX, M, R, SQL and any other way to squeeze value out of data.

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- https://gist.github.com/nc
- https://www.flexyourdata. com
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```
ncalm / powerquery-DateList.m

Created 1 minute ago

Custom Power Query function for creating lists of dates between two endpoints

1 file % 0 forks □ 0 comments ☆ 0 stars

1 (from as date, to as date, step_function as function) as list =>
2 let
3 endpoint_function
4 = (step_function as function) as function =>
5 (date as date) as number =>
6 let lookup =
7 {
8 {
8 {Date.AddDays, Number.From(date)},
9 {Date.AddMonths, Date.Year(date)*12 + Date.Month(date)},
10 {Date.AddQuarters, Date.Year(date)*4 + Date.QuarterOfYear(date)*4 + Date
```

ncalm / powerquery-simplejoin.m

Created last week

Custom M function to simplify table joins in Power Query

```
1 file ♥ 0 forks 

0 comments 

0 stars
```

```
(LeftTable as table, JoinColumns as list, RightTable as table, optional JoinColumnsRig
optional DuplicateColumnPrefix as text, optional JoinKind as number) =>
let
//a function to handle null (optional) parameters
```