Power Query (M): Exploring the Combiner functions

CombineTextByDelimiter

```
Probably the simplest
                                              of the combiner
                                             functions. We pass the
                                              delimiter into the
                                             function itself.
1
       Source = {"Microsoft", "Redmond", "Washington", "USA"}
3
       Combiner.CombineTextByDelimiter(", ")(Source) 
4
5
6
   Return value:= "Microsoft, Redmond, Washington, USA"
7
                                               It returns a function
                                               of one parameter –
                                               a list of text.
```

CombineTextByEachDelimiter

We pass a list of delimiters into the Combiner function. 11 Source = {"Microsoft", "Redmond", "Washington", "USA"} 12 13 Combiner.CombineTextByEachDelimiter({", ", "; ", ": ", ")"})(Source) 14 **1**5 16 Return value:= "Microsoft, Redmond; Washington: USA" **17** 10 Each delimiter in the list is used

Each delimiter in the list is used
 one by one in-turn to combine the elements of the text list.

Surplus delimiters are ignored, like the close parenthesis above.

CombineTextByPositions

We pass a list of integer positions into the Combiner function.

```
20
         Source = {"Microsoft", "Redmond", "Washington", "USA"},
21
22
23
         //Return value:= " MRWUSA" (space, because positions are zero-indexed)
         ByPositions 1 2 3 4 = Combiner.CombineTextByPositions({1,2,3,4})(Source),
24
25
         //Return value:= "MicrosoftRedmondWashingtonUSA"
26
         ByPositions 0 9 16 26 = Combiner.CombineTextByPositions({0,9,16,26})(Source),
27
28
29
         //Return value:= "Microsoft
                                            Redmond"
         ByPositions 0 16 = Combiner.CombineTextByPositions({0,16})(Source)
30
31
32
         {ByPositions 1 2 3 4,ByPositions 0 9 16 26,ByPositions 0 16}
```



Each position in the positions list corresponds to the equivalent position in the text list. The integer in that position-list element represents the starting character position in the output text.

CombineTextByLengths

We pass a list of integer lengths into the Combiner function.

```
36
         Source = {"Microsoft", "Redmond", "Washington", "USA"},
37
38
         //Return value:= "MicRedm"
39
         Lengths 3 4 = Combiner.CombineTextByLengths({3,4})(Source),
40
41
42
         //Return value:= "Microsoft Redmond Wa"
         Lengths_10_8_2 = Combiner.CombineTextByLengths({10,8,2})(Source)
43
44
45
         {Lengths_3_4, Lengths_10_8_2}
```

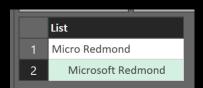


Each element in the lengths list corresponds to the equivalent element in the text list. The integer at that element represents the number of characters to retrieve from equivalent element in the text list. Lengths longer than their corresponding text are right-padded with spaces.

CombineTextByRanges

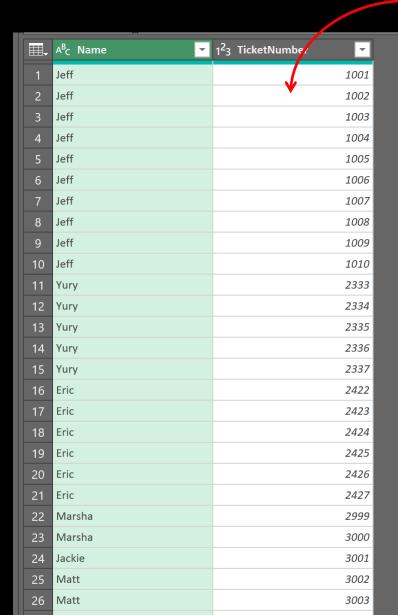
We pass a list of lists (of integers) into the parameter of the Combiner function

```
49
         Source = {"Microsoft", "Redmond", "Washington", "USA"},
50
51
         //Return value:= "Micro Redmond"
52
53
         Ranges1 = Combiner.CombineTextByRanges({{0,5},{6,7}})(Source),
54
55
                                  Microsoft Redmond"
         Ranges2 = Combiner.CombineTextByRanges({{6,9},{16,7}})(Source)
56
57
58
         {Ranges1, Ranges2}
```



Each sub-list is two integers. The first integer is the position to place the text in the output string. The second integer is the number of characters to retrieve from the text list element in the same position as the current sub-list. So, the first sub-list gets text from "Microsoft", the second sub-list gets text from "Redmond".

Example using CombineTextByEachDelimiter



Suppose we have this table of names and ticket numbers

exyourdata | linkedin.com/in/owenhprice

Example using CombineTextByEachDelimiter

```
We can create a custom Combiner
```

```
Source = Table.TransformColumnTypes(Excel.CurrentWorkbook(){[Name="Table5"]}[Content],{{"TicketNumber", type text}}),

MyCombiner = Combiner.CombineTextByEachDelimiter({", 2nd: ", ", 3rd: "}),

Grouped = Table.Group(Source, "Name", {{"Ticket order", each "1st: " & MyCombiner(List.FirstN([TicketNumber], 3))}})

in

Grouped
```



And use it in Table.Group to create an ordinal list

	ABC Name	ABC 123 Ticket order
1	Jeff	1st: 1001, 2nd: 1002, 3rd: 1003
2	Yury	1st: 2333, 2nd: 2334, 3rd: 2335
3	Eric	1st: 2422, 2nd: 2423, 3rd: 2424
4	Marsha	1st: 2999, 2nd: 3000
5	Jackie	1st: 3001
6	Matt	1st: 3002, 2nd: 3003, 3rd: 3004

61

62

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64 65

66 67

