

# Data Transformation - 4

01 September 2024 20:08

## Data Transform - 4

**Add Conditional Column**

Add a conditional column that is computed from the other columns or values.

New column name: Memory\_Number

Column Name	Operator	Value	Output
If	equals	ABC 123 4 GB	Then ABC 123 4096
Else If	equals	ABC 123 6 GB	Then ABC 123 6144
Else If	equals	ABC 123 3 GB	Then ABC 123 3072
Else If	equals	ABC 123 8 GB	Then ABC 123 8192
Else If	equals	ABC 123 2 GB	Then ABC 123 2048
Else If	equals	ABC 123 12 GB	Then ABC 123 12288
Add Clause			
Else			

### Calendar Table:

- Create additional columns for date, day name, start of the month, month name, and year.

The screenshots show the Data Profiler interface for creating calendar columns. In each, a green box highlights the 'Date' button in the top right corner of the dropdown menu. The first screenshot shows 'Name of Day' selected. The second shows 'Month' selected. The third shows 'Year' selected.

The screenshot shows a Data Profiler table with the following columns and data:

	Date	Day Name	Start of Month	Month Name	Year
1	01-01-2016	Friday	01-01-2016	January	2016
2	02-01-2016	Saturday	01-01-2016	January	2016
3	03-01-2016	Sunday	01-01-2016	January	2016
4	04-01-2016	Monday	01-01-2016	January	2016
5	05-01-2016	Tuesday	01-01-2016	January	2016
6	06-01-2016	Wednesday	01-01-2016	January	2016
7	07-01-2016	Thursday	01-01-2016	January	2016
8	08-01-2016	Friday	01-01-2016	January	2016
9	09-01-2016	Saturday	01-01-2016	January	2016
10	10-01-2016	Sunday	01-01-2016	January	2016
11	11-01-2016	Monday	01-01-2016	January	2016
12	12-01-2016	Tuesday	01-01-2016	January	2016

The 'APPLIED STEPS' pane on the right lists the following steps:

- Source
- Promoted Headers
- Changed Type
- Inserted Day Name
- Inserted Start of Month
- Inserted Month Name
- Inserted Year

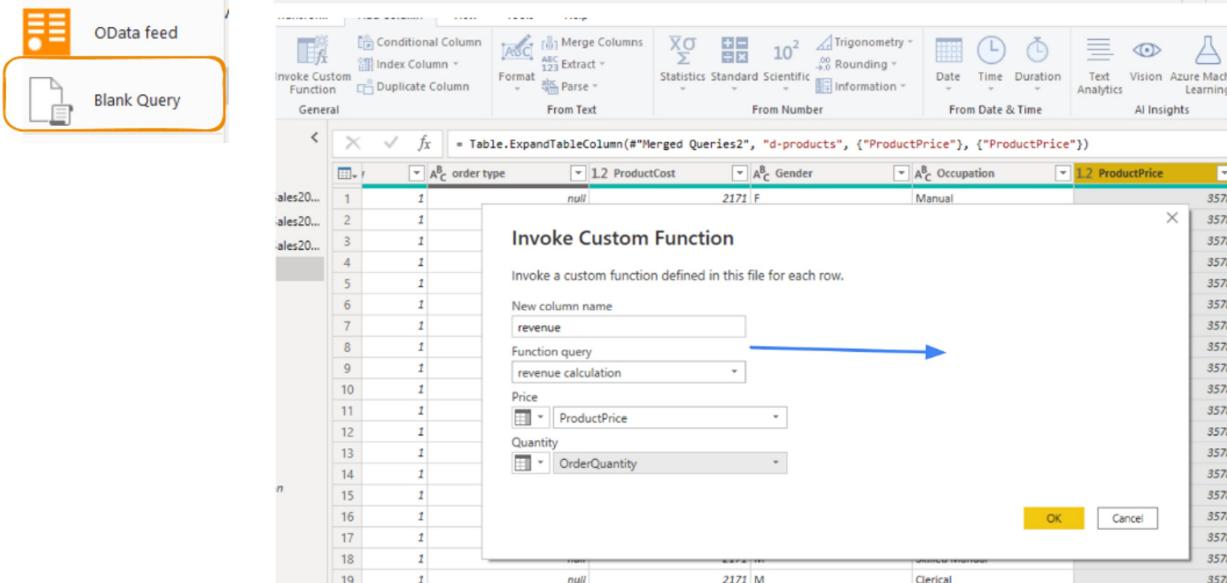
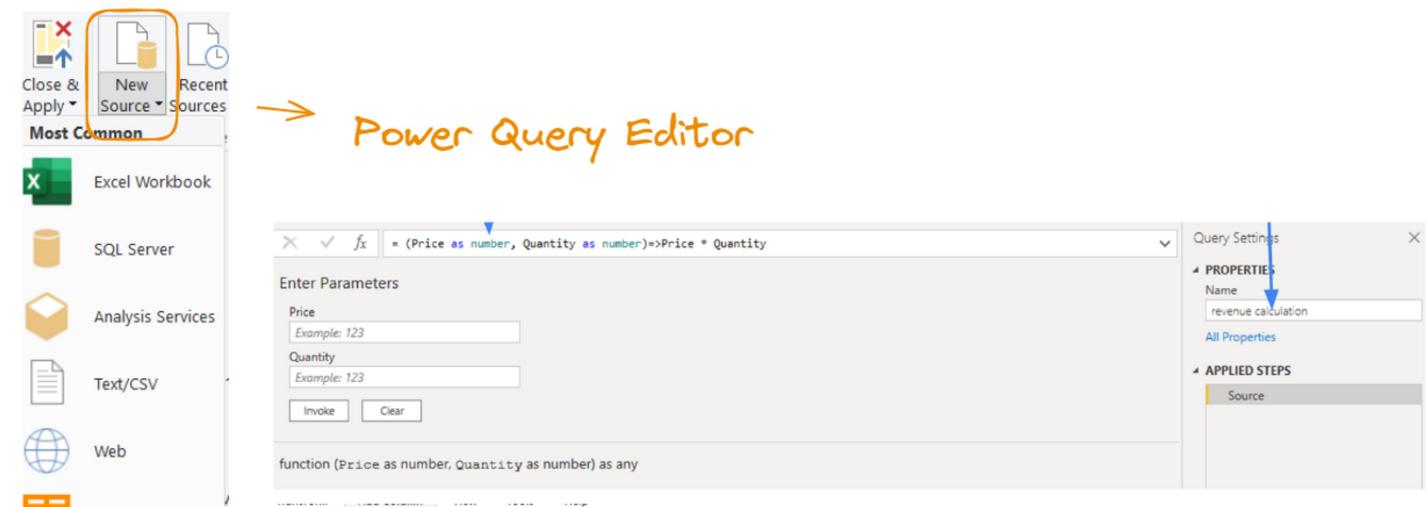
### Sales Table:

- Implement a custom column of your choice using the "Invoke Custom Function" feature.
- Create Index Column

- Implement a custom column of your choice using the "Invoke Custom Function" feature.
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Create a customized function and call(use) it in any table.

- New source -> blank query -> write the customized formula in the formula bar and rename the function
- Select the table -> add column tab -> invoke function -> choose the function name -> choose the columns required for the function execution



```
= (Price as number , Quantity  as number) => Price * Quantity
```

**Enter Parameters**

Price  
Example: 123

Quantity  
Example: 123

**PROPERTIES**

Name  
**Revenue Collection**

**Queries [10]**

- d-customer
- sales 2015
- sales 2016
- sales 2017
- Sales Record 2015-17
- d-product
- d-categories
- Survey Data - Unpivot
- d-Calendar

*fx Revenue Collection*

The image shows the Power BI desktop application. On the left, a modal dialog titled "Invoke Custom Function" is open. It contains fields for "New column name" (set to "Revenue"), "Function query" (set to "Revenue Collection"), and two dropdowns for "Price" (set to "d-product.ProductPrice") and "Quantity" (set to "OrderQuantity"). At the bottom are "OK" and "Cancel" buttons. A green arrow points from the "Number" label to the "Revenue" input field.

**Survey Data - Unpivot**

**d-Calendar**

**fx Revenue Collection**

### Invoke Custom Function

Invoke a custom function defined in this file for each row.

New column name  
Revenue

Function query  
Revenue Collection

Price  
d-product.ProductPrice

Quantity  
OrderQuantity

OK Cancel

**Query Settings**

- PROPERTIES**
  - Name: Sales Record 2015-12
  - All Properties
- APPLIED STEPS**
  - Source
  - Merged Queries
  - Expanded d-product
  - Merged Queries1
  - Expanded d-customer
  - Invoked Custom Function
  - Changed Type

**Revenue**

	100%	0%	0%
Valid	100%	0%	0%
Error	0%	100%	0%
Empty	0%	0%	100%
Total Rows	699.10	45.00	2,071.40
Distinct Rows	7 unique	699.10	45.00
Min	17.20	17.20	17.20
Max	10,00	10,00	10,00
Avg	2,049.10	2,049.10	2,049.10
StdDev	3,578.30	3,578.30	3,578.30
Count	699.10	45.00	2,071.40
Sum	13,500.00	13,500.00	13,500.00
Product	3,578.30	3,578.30	3,578.30
MinProduct	10.00	10.00	10.00
MaxProduct	35.00	35.00	35.00
AvgProduct	23.30	23.30	23.30
StdDevProduct	3,578.30	3,578.30	3,578.30