

M language

Let-input query

In-output query

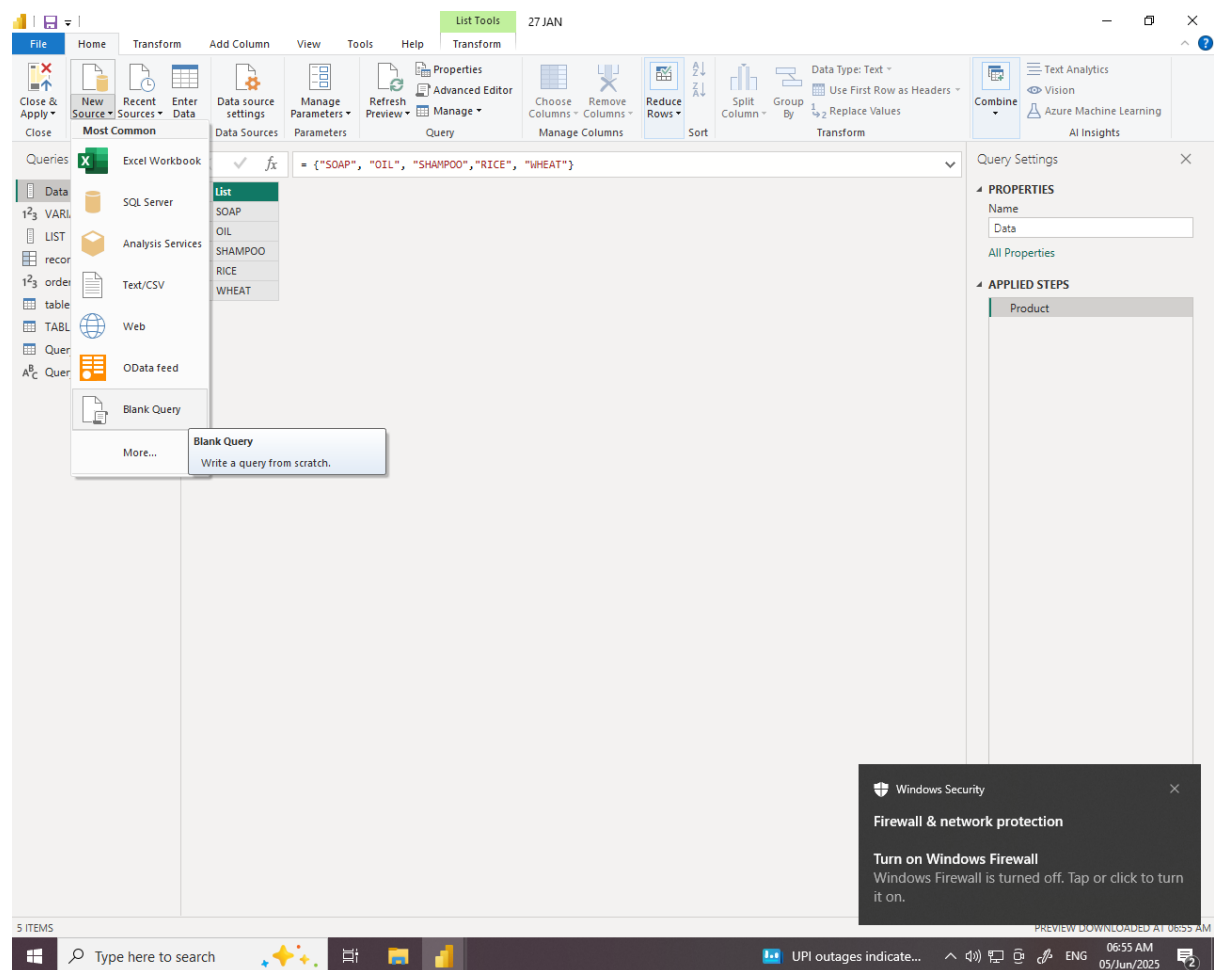
Variable-container

{ } used for list

[] used for record

{|} used for table

New source-blank query-advance editor

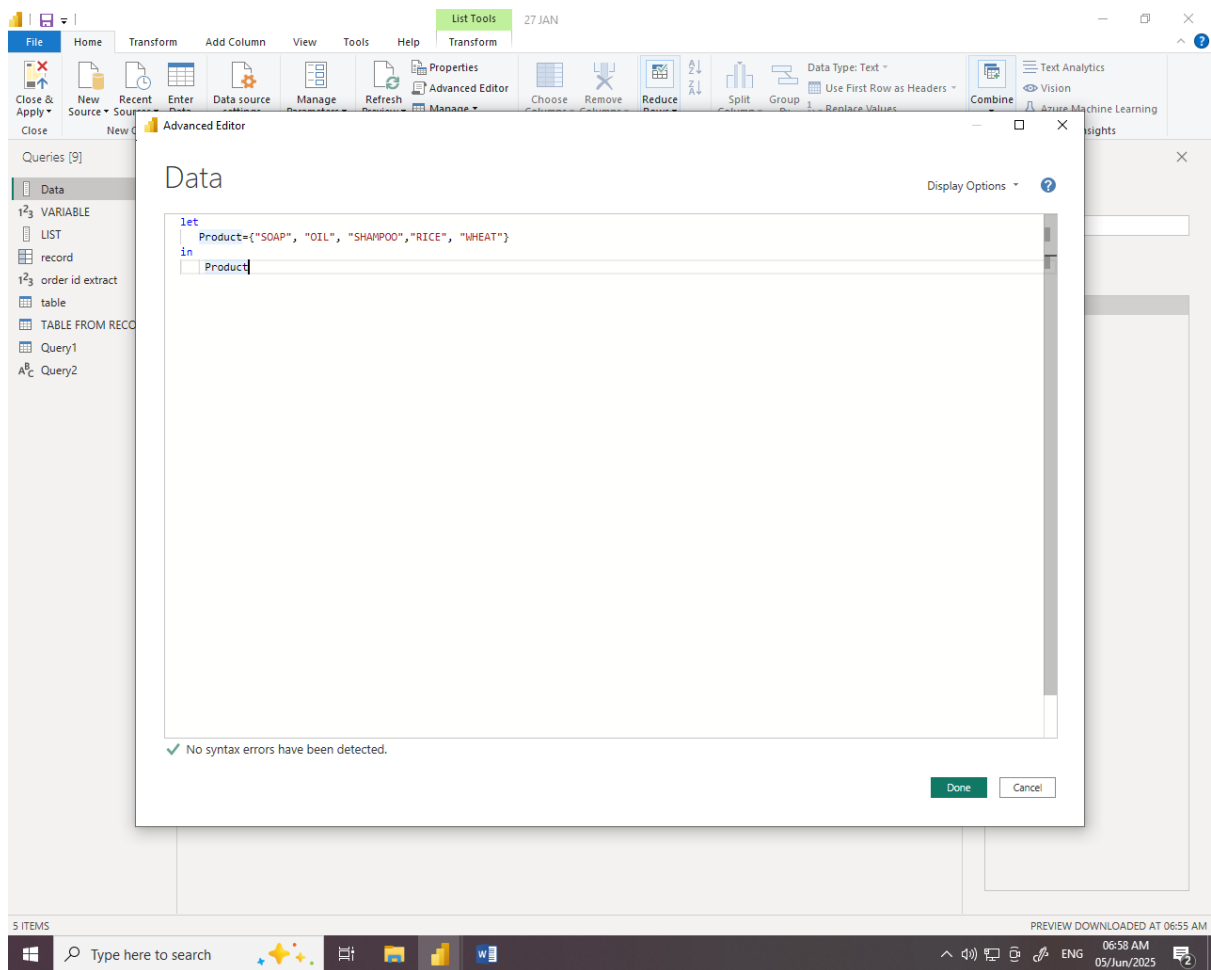


1) let

Product={"SOAP", "OIL", "SHAMPOO", "RICE", "WHEAT"}

in

Product

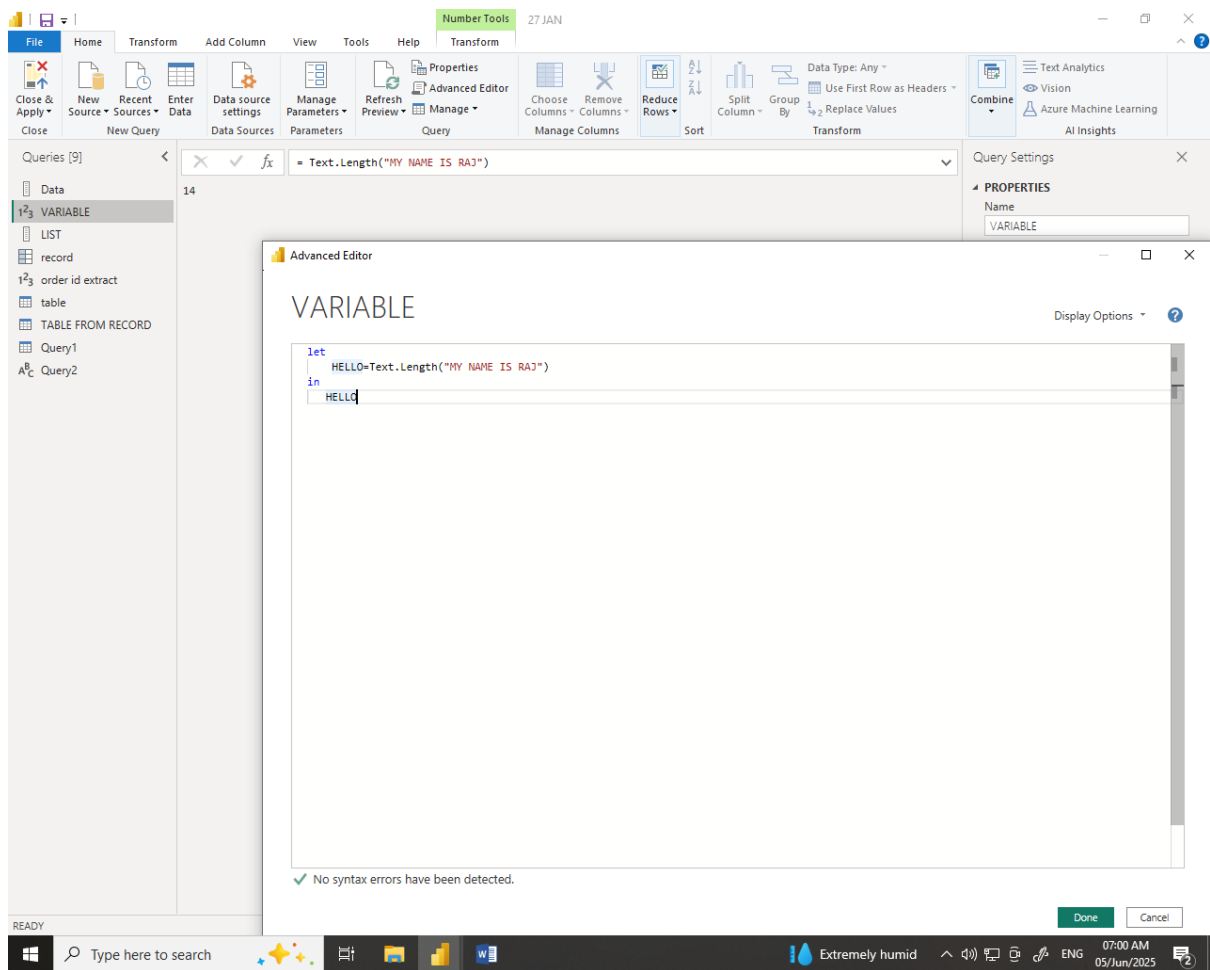


2) let

HELLO=Text.Length("MY NAME IS RAJ")

in

HELLO



3) let

MYLIST={1,2,3,4,5}

in

MYLIST

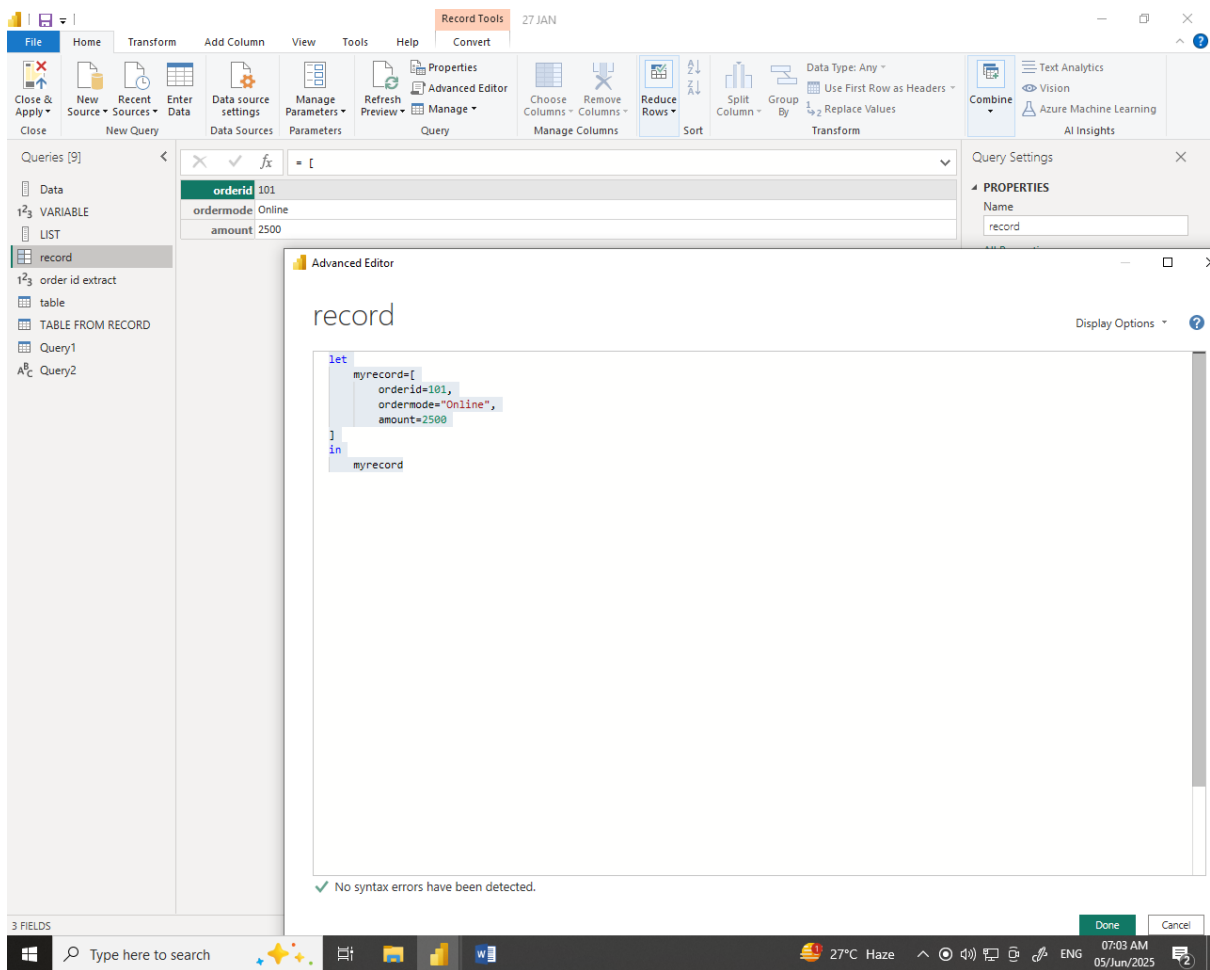
The screenshot shows the Microsoft Power BI Desktop interface with the Advanced Editor open. The formula bar at the top displays the DAX formula: `= {1,2,3,4,5}`. The Advanced Editor window has a title bar that says "LIST" and a large text area containing the following DAX code:

```
let
    MYLIST={1,2,3,4,5}
in
    MYLIST
```

Below the code area, a status message reads: "No syntax errors have been detected." At the bottom right of the editor, there are "Done" and "Cancel" buttons. The left sidebar shows a list of queries, including "LIST", "record", "table", "TABLE FROM RECORD", "Query1", and "Query2". The bottom status bar indicates the preview was downloaded at 06:55 AM on 05/Jun/2025.

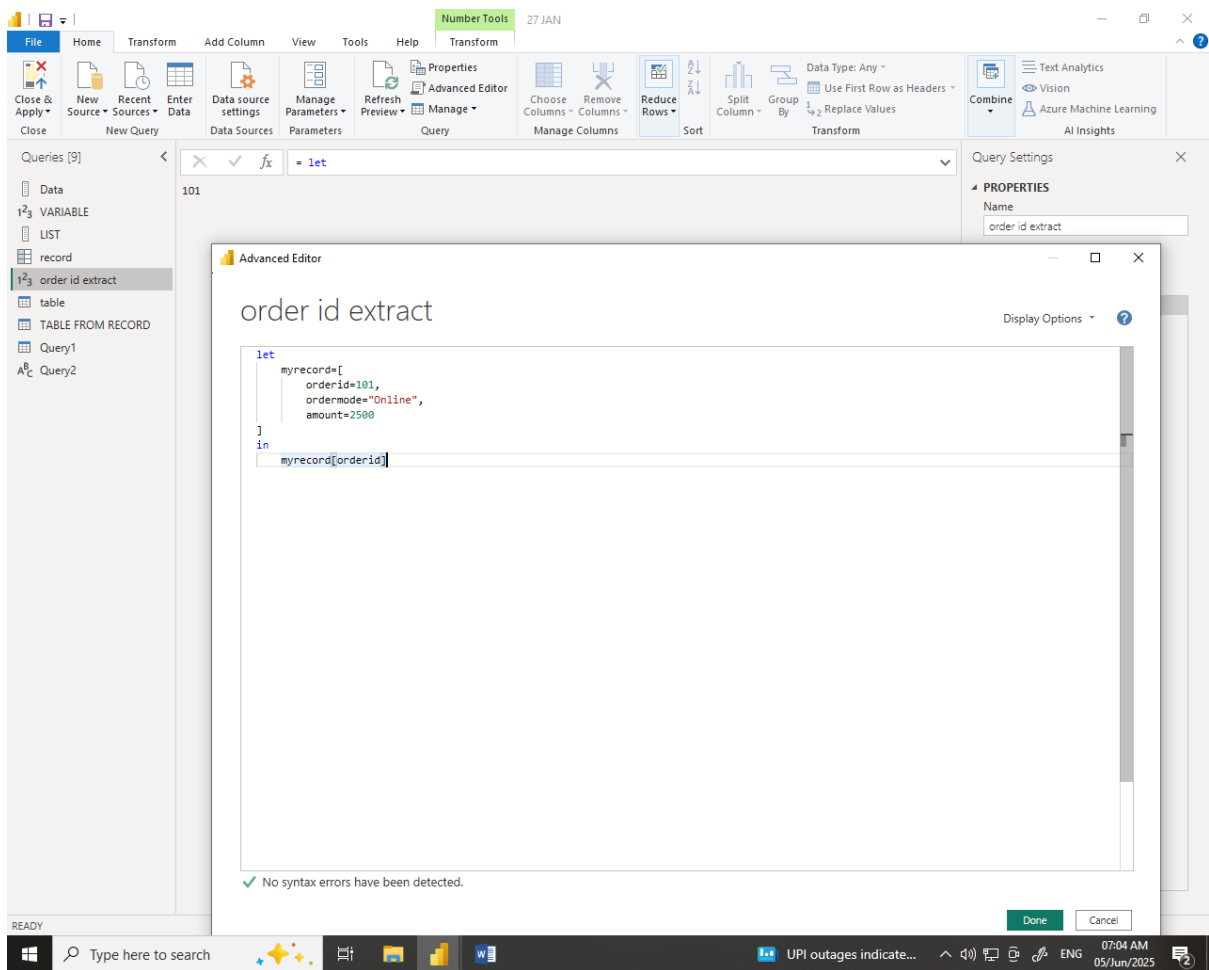
4) let

```
myrecord=[
   orderid=101,
    ordermode="Online",
    amount=2500
]
in
myrecord
```



5) let

```
myrecord=[  
    orderid=101,  
    ordermode="Online",  
    amount=2500  
]  
in  
myrecord[orderid]
```



6) let

table = let

mytable = #table({"name","age","salary"},

{{"raj",25,25000},

{"komal",22,35000},{ "ajay",38,30000}})

in

mytable{1},

#"Converted to Table" = Record.ToTable(table)

in

#"Converted to Table"

The screenshot shows the Microsoft Power BI Desktop interface. The main window displays a table with 3 columns (Name, Age, Salary) and 3 rows. The Advanced Editor window is open, showing the M code for creating a table from records and converting it to a table.

Table Data:

Name	Age	Salary
name	22	35000
age	22	35000
salary	22	35000

Advanced Editor Code:

```
let
    table = let
        mytable = #table({"name","age","salary"},
            {"raj",25,25000},
            {"komal",22,35000})
    in
        mytable(1),
        #"Converted to Table" = Record.ToTable(table)
in
    #"Converted to Table"
```

7) let

TABLERC =

Table.FromRecords({[NAME="RAJ",AGE=25,SALARY=25000],[NAME="OMKAE",AGE=22,SALARY=27000]}),

#"PROPER STEP" =Table.TransformColumns(TABLERC,{"NAME",Text.Lower})

in

#"PROPER STEP"

The screenshot shows the Microsoft Power BI Desktop Advanced Editor. The main window displays a DAX query named "TABLE FROM RECORD". The query is as follows:

```
let
    TABLEREC = Table.FromRecords({[NAME="RAJ",AGE=25,SALARY=25000],[NAME="OMKAE",AGE=22,SALARY=27000]}),
    #"PROPER STEP" = Table.TransformColumns(TABLEREC,{"NAME",Text.Proper})
in
    #"PROPER STEP"
```

Below the query, a status bar indicates "No syntax errors have been detected." In the background, a data preview table is visible with the following data:

	NAME	AGE	SALARY
1	raj	25	25000
2	omkae	22	27000

The interface also shows the "Query Settings" pane on the right, where the query name is set to "TABLE FROM RECORD". The bottom status bar indicates "3 COLUMNS, 2 ROWS" and "Column pr".

```
8) let Orders = Table.FromRecords({
    [OrderID = 1, CustomerID = 1, Item = "fishing rod", Price = 100.0],
    [OrderID = 2, CustomerID = 1, Item = "1 lb. worms", Price = 5.0],
    [OrderID = 3, CustomerID = 2, Item = "fishing net", Price = 25.0]}),
    #"Capitalized Each Word" = Table.TransformColumns(Orders, {"Item", Text.Proper})
in
    #"Capitalized Each Word"
```


The screenshot displays the Microsoft Power BI Desktop application. The main window shows a data table with 4 columns (OrderID, CustomerID, Item, Price) and 3 rows. The formula bar at the top contains the DAX expression: `= Table.TransformColumns(Orders, {"Item", Text.Proper})`. The Advanced Editor window is open, showing the following DAX query:

```
let Orders = Table.FromRecords({
    [OrderID = 1, CustomerID = 1, Item = "fishing rod", Price = 100.0],
    [OrderID = 2, CustomerID = 1, Item = "1 lb. worms", Price = 5.0],
    [OrderID = 3, CustomerID = 2, Item = "fishing net", Price = 25.0]}),
in
    #"Capitalized Each Word" = Table.TransformColumns(Orders, {"Item", Text.Proper})
```

The status bar at the bottom indicates "4 COLUMNS, 3 ROWS" and "No syntax errors have been detected". The Windows taskbar at the very bottom shows the date and time as 07:07 AM on 05/Jun/2025.

9) let

A=if 2<1 then

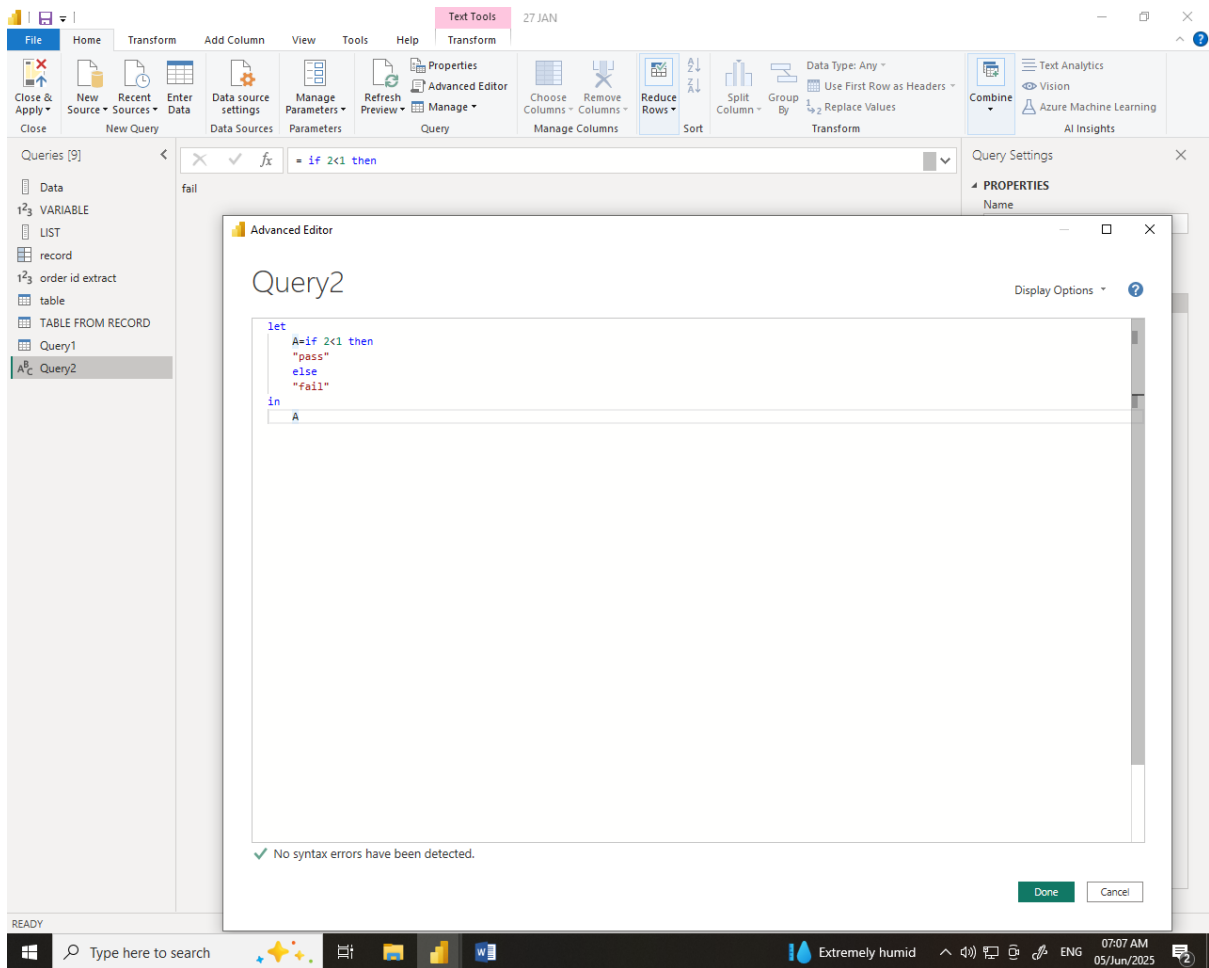
"pass"

else

"fail"

in

A



Add column-custom column

1) Column name before

Text.BeforeDelimiter([Product ID], "-")

File Home Transform Add Column View Tools Help

Column From Custom Invoke Custom Function Examples Column Duplicate Column

Conditional Column Index Column

Format Parse Merge Columns Extract

Statistics Standard Scientific Trigonometry Rounding Information

Date Time Duration From Date & Time

Text Analytics Vision Azure Machine Learning

Queries [1]

Q

ABC 123 pre year ABC 123 add 1 year ABC 123 lower ABC 123 bef

1	11	TRUE	08/Nov/2028	second class	FUR
2	6	TRUE	12/Jun/2028	second class	OFF
3	4	TRUE	15/Apr/2029	standard class	OFF
4	12	TRUE	05/Dec/2028	standard class	OFF
5	12	TRUE	09/Dec/2028	standard class	OFF
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27	11	TRUE	08/Nov/2029	standard class	OFF
28	11	TRUE	09/Nov/2029	second class	FUR
29	6	TRUE	17/Jun/2029	first class	OFF
30	9	TRUE	06/Sep/2028	standard class	OFF
31	8	TRUE	29/Aug/2028	standard class	OFF
32	12	TRUE	01/Dec/2028	second class	OFF
33	11	TRUE	23/Nov/2029	standard class	TEC
34	12	TRUE	25/Dec/2029	standard class	FUR
35	11	TRUE	03/Nov/2028	standard class	OFF
36					

Custom Column

Add a column that is computed from the other columns.

New column name

bef

Custom column formula

= Text.BeforeDelimiter([Product ID], "-")

Available columns

- Row ID
- Order ID
- Order Date
- Ship Date
- Ship Mode
- Customer ID
- Customer Name

<< Insert

Learn about Power Query formulas

✓ No syntax errors have been detected.

OK Cancel

Query Settings

PROPERTIES

Name

Data

APPLIED STEPS

- Source
- Navigation
- Promoted Headers
- Changed Type
- Added Custom
- Added Custom1
- Added Custom2
- Filtered Rows2
- Added Custom3
- Added Custom4
- Filtered Rows1
- Filtered Rows
- Added Custom5

27 COLUMNS, 999+ ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 07:12 AM

Type here to search

27°C Haze

07:16 AM

05/Jun/2025

2) Column name – lower
Text.Lower([Ship Mode])

Power Query Editor interface showing a data table with columns: YEAR, Q, pre year, add 1 year, and lower. A custom column formula is being entered: `= Text.Lower([Ship Mode])`. The interface includes a ribbon with tabs like File, Home, Transform, Add Column, View, Tools, and Help. The right sidebar shows Query Settings with Properties and Applied Steps.

Custom Column

Add a column that is computed from the other columns.

New column name: lower

Custom column formula: `= Text.Lower([Ship Mode])`

Available columns:

- Row ID
- Order ID
- Order Date
- Ship Date
- Ship Mode
- Customer ID
- Customer Name

<< Insert

Learn about Power Query formulas

✓ No syntax errors have been detected.

OK Cancel

26 COLUMNS, 999+ ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED ON 19/MAY/2025

Windows taskbar: 27°C Haze, 07:18 AM, 05/Jun/2025

- Column name – add 2 year
`Date.AddYears([new date],2)`

29 jan

File Home Transform Add Column View Tools Help

Column From Custom Invoke Custom Examples Column Function Duplicate Column

General

Conditional Column Index Column

Format Parse

From Text

Statistics Standard Scientific

From Number

Trigonometry Rounding Information

Date Time Duration

From Date & Time

Text Analytics

AI Insights

Query Settings

PROPERTIES

Name

Data

APPLIED STEPS

Source

Navigation

Promoted Headers

Changed Type

Added Custom

Added Custom1

Added Custom2

Filtered Rows2

Added Custom3

Added Custom4

Filtered Rows1

Added Custom5

Custom Column

Add a column that is computed from the other columns.

New column name

add 2year

Custom column formula

= Date.AddYears([new date],2)

Available columns

Row ID

Order ID

Order Date

Ship Date

Ship Mode

Customer ID

Customer Name

<< Insert

Learn about Power Query formulas

✓ No syntax errors have been detected.

OK Cancel

25 COLUMNS, 999+ ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 07:12 AM

07:19 AM

05/Jun/2025

- 4) Column name – pre year
Date.IsInNextNYears([new date],2)

29 jan

File Home Transform Add Column View Tools Help

Column From Custom Invoke Custom Examples Column Function Duplicate Column

General

Conditional Column Index Column

Format Parse

From Text

Statistics Standard Scientific

From Number

Trigonometry Rounding Information

Date Time Duration

From Date & Time

Text Analytics

Vision Azure Machine Learning

AI Insights

Queries [1]

Data

Profit new date YEAR Q pre year

1	41.9136	08/Nov/2026	2026	11	TRUE
2	6.8714	12/Jun/2026	2026	6	TRUE
3	-383.031	11/Oct/2025	2025	10	FALSE
4	14.1694	09/Jun/2024	2024	6	FALSE
5	5.4432	15/Apr/2027	2027	4	TRUE
6	132.5922	05/Dec/2026	2026	12	TRUE
7	-123.858	22/Nov/2025	2025	11	FALSE
8	13.3176	11/Nov/2024	2024	11	FALSE
9	9.99	13/May/2024	2024	5	FALSE
10	2.4824	27/Aug/2024	2024	8	FALSE
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32	1.731	18/Sep/2026	2026	9	TRUE
33	8.763	14/Sep/2027	2027	9	TRUE
34	-114.3912	26/Apr/2025	2025	4	FALSE
35	-1.9344	09/Dec/2027	2027	12	TRUE
36					

Table.AddColumn(#"Added Custom1", "pre year", each Date.IsInNextNYears([new date],2))

Query Settings

PROPERTIES

Name

Data

APPLIED STEPS

Source

Navigation

Promoted Headers

Changed Type

Added Custom

Added Custom1

Added Custom2

Filtered Rows2

Added Custom3

Added Custom4

Filtered Rows1

Filtered Rows

Added Custom5

Custom Column

Add a column that is computed from the other columns.

New column name

pre year

Custom column formula

= Date.IsInNextNYears([new date],2)

Available columns

Row ID

Order ID

Order Date

Ship Date

Ship Mode

Customer ID

Customer Name

<< Insert

Learn about Power Query formulas

✓ No syntax errors have been detected.

OK Cancel

24 COLUMNS, 999+ ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED ON 19/MAY/2025

27°C Haze 07:20 AM 05/Jun/2025

5) Date.Month([new date])

29 Jan

File Home Transform Add Column View Tools Help

Column From Custom Invoke Custom Examples Column Function Duplicate Column

General

Conditional Column Index Column

Format Parse

ABC 123 Extract

ABC 123 Merge Columns

Statistics Standard Scientific

10²

Trigonometry

Rounding

Information

Date Time Duration

From Date & Time

Text Analytics

Vision Azure Machine Learning

AI Insights

Queries [1]

Data

Discount 1.2 Profit new date ABC 123 YEAR ABC 123 Q

1	0	41.9136	08/Nov/2026	2026	11
2	0	6.8714	12/Jun/2026	2026	6
3	0.45	-383.031	11/Oct/2025	2025	10
4	0	14.1694	09/Jun/2024	2024	6
5	0.2	5.4432	15/Apr/2027	2027	4
6	0.2	132.5922	05/Dec/2026	2026	12
7	0.8	-123.858	22/Nov/2025	2025	11
8	0	13.3176	11/Nov/2024	2024	11
9	0	9.99	13/May/2024	2024	5
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31	0	35.6636	04/Jun/2026	2026	6
32	0.2	1.731	18/Sep/2026	2026	9
33	0	8.763	14/Sep/2027	2027	9
34	0.2	-114.3912	26/Apr/2025	2025	4
35	0.8	-1.9344	09/Dec/2027	2027	12
36					

Custom Column

Add a column that is computed from the other columns.

New column name

Q

Custom column formula

= Date.Month([new date])

Available columns

- Row ID
- Order ID
- Order Date
- Ship Date
- Ship Mode
- Customer ID
- Customer Name

<< Insert

Learn about Power Query formulas

✓ No syntax errors have been detected.

OK Cancel

Query Settings

PROPERTIES

Name

Data

APPLIED STEPS

- Source
- Navigation
- Promoted Headers
- Changed Type
- Added Custom
- Added Custom1
- Added Custom2
- Filtered Rows3
- Filtered Rows2
- Added Custom3
- Added Custom4
- Filtered Rows1
- Added Custom5

23 COLUMNS, 999+ ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED ON 19/MAY/2025

07:26 AM 05/Jun/2025

6) Date.Year([new date])

FileHomeTransformAdd ColumnViewToolsHelp

Column From Custom Invoke Custom Examples Column Function Duplicate Column

General

Conditional Column Index Column Merge Columns ABC 123 Extract Format Parse From Text

Statistics Standard Scientific 10² Rounding Information From Number

Trigonometry Date Time Duration Text Analytics Vision Azure Machine Learning

From Date & Time AI Insights

Queries [1]

Table.AddColumn(#"Changed Type", "YEAR", each Date.Year([new date]))

	Quantity	1.2 Discount	1.2 Profit	new date	ABC 123 YEAR
1	2	0	41.9136	08/Nov/2026	2026
2	2	0	6.8714	12/Jun/2026	2026
3	5	0.45	-383.091	11/Oct/2025	2025
4	7	0	14.1694	09/Jun/2024	2024
5	3	0.2	5.4432	15/Apr/2027	2027
6	3	0.2	132.5922	05/Dec/2026	2026
7	5	0.8	-123.858	22/Nov/2025	2025
8	6	0	13.3176	11/Nov/2024	2024
9	2	0	9.99	13/May/2024	2024
10	7	0	3.4824	27/Jun/2024	2024
11					2026
12					2027
13					2025
14					2026
15					2025
16					2027
17					2026
18					2025
19					2026
20					2025
21					2027
22					2026
23					2024
24					2026
25					2025
26					2026
27					2025
28					2026
29					2025
30					2024
31					2026
32	1	0.2	1.731	18/Sep/2026	2026
33	3	0	8.763	14/Sep/2027	2027
34	8	0.2	-114.3912	26/Apr/2025	2025
35	3	0.8	-1.9344	09/Dec/2027	2027
36					

Query Settings

PROPERTIES

NameData

All Properties

APPLIED STEPS

Source

Navigation

Promoted Headers

Changed Type

Added Custom

Added Custom1

Added Custom2

Filtered Rows3

Filtered Rows2

Added Custom3

Added Custom4

Filtered Rows1

Filtered Rows

Added Custom5

Custom Column

Add a column that is computed from the other columns.

New column nameYEAR

Custom column formula= Date.Year([new date])

Available columnsRow IDOrder IDOrder DateShip DateShip ModeCustomer IDCustomer Name

<< Insert

Learn about Power Query formulas

No syntax errors have been detected.

OKCancel

22 COLUMNS, 999+ ROWS

Column profiling based on top 1000 rows

PREVIEW DOWNLOADED ON 19/MAY/2025

Type here to search

UPI outages indicate...

ENG07:27 AM05/Jun/2025