

## Advanced DAX - Vehicle Orders

Transformation

You should open a new report.  
Add file name Vehicle Order and Clean it  
with Power Query Editor.

The screenshot shows the Power Query Editor interface. On the left, there's a 'Navigator' pane with a tree view showing 'Vehicle Orders.xlsx' and 'Sheet1'. The main area displays a table titled 'Sheet1' with the following columns: Column1, Column2, Column3, Column4, Column5, and Column6. The data consists of approximately 30 rows of vehicle order information. At the bottom right of the editor, there are three buttons: 'Load', 'Transform Data', and 'Cancel'.

The screenshot shows the 'Replace Values' dialog box in the Power Query Editor. The dialog title is 'Replace Values' and it says 'Replace one value with another in the selected columns.' It has two input fields: 'Value To Find' (set to 'null') and 'Replace With' (set to 'Unknown'). Below these are 'Advanced options' and 'OK' and 'Cancel' buttons. In the background, the Power Query Editor shows a table with columns: POSTALCODE, COUNTRY, TERRITORY, CONTACTLASTNAME, and CONTACTFIRSTNAME. The 'POSTALCODE' column contains many 'null' entries, which are being replaced by 'Unknown'.

**Replace Values**

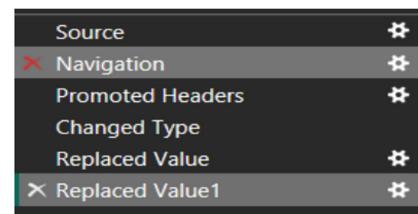
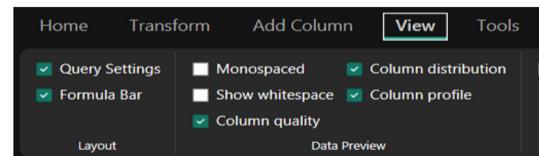
Replace one value with another in the selected columns.

Value To Find: null  
Replace With: Unknown

Advanced options

OK Cancel

| ABC STATE | ABC POSTALCODE |
|-----------|----------------|
| Valid     | 100%           |
| Error     | 0%             |
| Empty     | 0%             |
| NY        | 10022          |
| Unknown   | 51100          |
| Unknown   | 75508          |
| CA        | 90003          |
| CA        | Unknown        |
| CA        | 94217          |
| Unknown   | 59000          |
| Unknown   | N 5804         |
| CA        | Unknown        |
| Unknown   | 75016          |
| Victoria  | 3004           |
| NY        | 10022          |
| All       | 0.1818         |



Queries [1]

Vehicle Orders ORDERNUMBER

Sort Ascending Sort Descending Clear Sort Clear Filter Remove Empty

Number Filters

(Select All) (null) 10100 10101 10102 10103 10104 10105 10106 10107 10108 10109 10110 10111 10112 10113 10114 10115

List may be incomplete. Load more OK Cancel

Table: Vehicle Orders (2,823 rows) Co

Load it to the Front End to see the null values will gone.

| ORDERNUMBER | QUANTITYORDERED | PRICEEACH | ORDER             |
|-------------|-----------------|-----------|-------------------|
| 1021        |                 |           | Sort ascending    |
| 1011        |                 |           | Sort descending   |
| 1010        |                 |           | Clear sort        |
| 1011        |                 |           | Clear filter      |
| 1022        |                 |           | Clear all filters |
| 1011        |                 |           | Number filters    |
| 1021        |                 |           | (Select all)      |
| 1041        |                 |           | 10100             |
| 1021        |                 |           | 10101             |
| 1021        |                 |           | 10102             |
| 1021        |                 |           | 10103             |
| 1021        |                 |           | 10104             |
| 1021        |                 |           | 10105             |
| 1021        |                 |           | 10106             |
| 1021        |                 |           | 10107             |
| 1031        |                 |           | 10108             |
| 1021        |                 |           | 10109             |
| 1011        |                 |           | 10110             |
| 1021        |                 |           | 10111             |
| 1021        |                 |           | 10112             |
| 1041        |                 |           | 10113             |
| 1011        |                 |           | 10114             |
| 1031        |                 |           | 10115             |
| 1031        |                 |           | 10116             |
| 1021        |                 |           | 10117             |
| 1021        |                 |           | 10118             |
| 1031        |                 |           | 10119             |
| 1021        |                 |           | 10120             |
| 1031        |                 |           | 10121             |

No null Value shows on Data View

# DAX

Calculated Columns

→ [Row Context]

Target Delivery Date = DATEADD('Vehicle Orders'[ORDERDATETIME],

| YDATETIME       | STATUS  | PRODUCTLINE      | CITY   | STATE   | POSTALCODE | COUNTRY | [Date]      |
|-----------------|---------|------------------|--------|---------|------------|---------|-------------|
| 5-2014 11:19:59 | Shipped | Classic Cars     | Madrid | Unknown | 28034      | Spain   | [Day]       |
| 1-2014 07:56:06 | Shipped | Classic Cars     | Madrid | Unknown | 28034      | Spain   | [Month]     |
| 0-2014 15:46:41 | Shipped | Classic Cars     | Madrid | Unknown | 28034      | Spain   | [MonthNo]   |
| 8-2016 17:27:35 | Shipped | Classic Cars     | Madrid | Unknown | 28034      | Spain   | [Quarter]   |
| 8-2014 15:53:17 | Shipped | Classic Cars     | Madrid | Unknown | 28034      | Spain   | [QuarterNo] |
| 6-2012 23:46:07 | Shipped | Trucks and Buses | Madrid | Unknown | 28034      | Spain   | [Year]      |
| 5-2014 09:08:07 | Shipped | Trucks and Buses | Madrid | Unknown | 28034      | Spain   | [Year]      |

| ORDERDATETIME       |
|---------------------|
| 19-05-2014 23:07:00 |
| 25-11-2014 01:04:00 |
| 13-10-2014 00:33:00 |
| 14-08-2016 23:02:00 |
| 28-08-2014 00:16:00 |
| 17-06-2012 23:51:00 |
| 15-05-2014 23:47:00 |
| 26-09-2013 23:42:00 |
| 12-03-2014 00:54:00 |
| 07-05-2014 01:19:00 |
| 09-05-2016 00:47:00 |
| 02-06-2012 23:47:00 |

Order Date & Time

If you have Date  
data Type, then  
don't use .[Date]

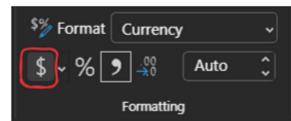
Shivam Patel to Everyone 21:48  
Sir, I selected only date type not date and time type

Target Delivery Date = DATEADD('Vehicle Orders'[ORDERDATETIME].[Date], 2, DAY)

| 1     | Target Delivery Date = DATEADD('Vehicle Orders'[ORDERDATETIME].[Date], 2, DAY) |                  |        |         |       |       |      |        |       |        |                     |
|-------|--------------------------------------------------------------------------------|------------------|--------|---------|-------|-------|------|--------|-------|--------|---------------------|
| 19-59 | Shipped                                                                        | Classic Cars     | Madrid | Unknown | 28034 | Spain | EMEA | Freyre | Diego | Medium | 21-05-2014 00:00:00 |
| 56:06 | Shipped                                                                        | Classic Cars     | Madrid | Unknown | 28034 | Spain | EMEA | Freyre | Diego | Medium | 27-11-2014 00:00:00 |
| 46:41 | Shipped                                                                        | Classic Cars     | Madrid | Unknown | 28034 | Spain | EMEA | Freyre | Diego | Medium | 15-10-2014 00:00:00 |
| 27:35 | Shipped                                                                        | Classic Cars     | Madrid | Unknown | 28034 | Spain | EMEA | Freyre | Diego | Medium | 16-08-2016 00:00:00 |
| 53:17 | Shipped                                                                        | Classic Cars     | Madrid | Unknown | 28034 | Spain | EMEA | Freyre | Diego | Medium | 30-08-2014 00:00:00 |
| 46:07 | Shipped                                                                        | Trucks and Buses | Madrid | Unknown | 28034 | Spain | EMEA | Freyre | Diego | Medium | 19-06-2012 00:00:00 |
| 08:01 | Shipped                                                                        | Trucks and Buses | Madrid | Unknown | 28034 | Spain | EMEA | Freyre | Diego | Medium | 17-05-2014 00:00:00 |
| 26:05 | Shipped                                                                        | Trucks and Buses | Madrid | Unknown | 28034 | Spain | EMEA | Freyre | Diego | Medium | 28-09-2013 00:00:00 |
| 57:38 | Shipped                                                                        | Classic Cars     | Madrid | Unknown | 28034 | Spain | EMEA | Freyre | Diego | Medium | 14-03-2014 00:00:00 |
| 31:03 | Shipped                                                                        | Classic Cars     | Madrid | Unknown | 28034 | Spain | EMEA | Freyre | Diego | Medium | 09-05-2014 00:00:00 |
| 47:22 | Shipped                                                                        | Classic Cars     | Madrid | Unknown | 28034 | Spain | EMEA | Freyre | Diego | Medium | 11-05-2016 00:00:00 |
| 30:35 | Shipped                                                                        | Vintage Cars     | Madrid | Unknown | 28034 | Spain | EMEA | Freyre | Diego | Medium | 04-06-2012 00:00:00 |
| 52:02 | Shipped                                                                        | Vintage Cars     | Madrid | Unknown | 28034 | Spain | EMEA | Freyre | Diego | Medium | 15-09-2013 00:00:00 |
| 35:03 | Shipped                                                                        | Classic Cars     | Madrid | Unknown | 28034 | Spain | EMEA | Freyre | Diego | Medium | 26-05-2013 00:00:00 |
| 00:36 | Shipped                                                                        | Vintage Cars     | Madrid | Unknown | 28034 | Spain | EMEA | Freyre | Diego | Medium | 30-03-2013 00:00:00 |
| 02:15 | Shipped                                                                        | Classic Cars     | Madrid | Unknown | 28034 | Spain | EMEA | Freyre | Diego | Medium | 14-09-2012 00:00:00 |
| 34:58 | Shipped                                                                        | Classic Cars     | Madrid | Unknown | 28034 | Spain | EMEA | Freyre | Diego | Medium | 06-11-2013 00:00:00 |

| 1 Delay in Delivery = DATEDIFF('Vehicle Orders'[DELIVERYDATETIME].[Date], 'Vehicle Orders'[Target Delivery Date].[Date], HOUR) |        |         |            |         |           |                 |                  |          |                      |                   |  |  |
|--------------------------------------------------------------------------------------------------------------------------------|--------|---------|------------|---------|-----------|-----------------|------------------|----------|----------------------|-------------------|--|--|
| PRODUCTLINE                                                                                                                    | CITY   | STATE   | POSTALCODE | COUNTRY | TERRITORY | CONTACTLASTNAME | CONTACTFIRSTNAME | DEALSIZE | Target Delivery Date | Delay in Delivery |  |  |
| Classic Cars                                                                                                                   | Madrid | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 21-05-2014 00:00:00  | 0                 |  |  |
| Classic Cars                                                                                                                   | Madrid | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 27-11-2014 00:00:00  | 48                |  |  |
| Classic Cars                                                                                                                   | Madrid | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 15-10-2014 00:00:00  | 24                |  |  |
| Classic Cars                                                                                                                   | Madrid | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 16-08-2016 00:00:00  | 0                 |  |  |
| Classic Cars                                                                                                                   | Madrid | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 30-08-2014 00:00:00  | 24                |  |  |
| Vans and Buses                                                                                                                 | Madrid | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 19-06-2012 00:00:00  | -24               |  |  |
| Vans and Buses                                                                                                                 | Madrid | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 17-05-2014 00:00:00  | 24                |  |  |
| Vans and Buses                                                                                                                 | Madrid | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 28-09-2013 00:00:00  | 24                |  |  |
| Classic Cars                                                                                                                   | Madrid | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 14-03-2014 00:00:00  | 24                |  |  |
| Classic Cars                                                                                                                   | Madrid | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 09-05-2014 00:00:00  | 0                 |  |  |
| Classic Cars                                                                                                                   | Madrid | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 11-05-2016 00:00:00  | 48                |  |  |
| Vintage Cars                                                                                                                   | Madrid | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 04-06-2012 00:00:00  | -24               |  |  |
| Vintage Cars                                                                                                                   | Madrid | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 15-09-2013 00:00:00  | 0                 |  |  |
| Vintage Cars                                                                                                                   | Madrid | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 26-05-2013 00:00:00  | 0                 |  |  |
| Vintage Cars                                                                                                                   | Madrid | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 30-03-2013 00:00:00  | 48                |  |  |
| Classic Cars                                                                                                                   | Madrid | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 14-09-2012 00:00:00  | -24               |  |  |

DATEADD(date1, date2, Interval)



| 1 Sales Value = 'Vehicle Orders'[QUANTITYORDERED] * 'Vehicle Orders'[PRICEEACH] |         |            |         |           |                 |                  |          |                      |                   |             |  |  |
|---------------------------------------------------------------------------------|---------|------------|---------|-----------|-----------------|------------------|----------|----------------------|-------------------|-------------|--|--|
| CITY                                                                            | STATE   | POSTALCODE | COUNTRY | TERRITORY | CONTACTLASTNAME | CONTACTFIRSTNAME | DEALSIZE | Target Delivery Date | Delay in Delivery | Sales Value |  |  |
| Madrid                                                                          | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 21-05-2014 00:00:00  | 0                 | \$2,000     |  |  |
| Madrid                                                                          | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 27-11-2014 00:00:00  | 48                | \$2,000     |  |  |
| Madrid                                                                          | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 15-10-2014 00:00:00  | 24                | \$3,400     |  |  |
| Madrid                                                                          | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 16-08-2016 00:00:00  | 0                 | \$4,200     |  |  |
| Madrid                                                                          | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 30-08-2014 00:00:00  | 24                | \$3,900     |  |  |
| Madrid                                                                          | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 19-06-2012 00:00:00  | -24               | \$4,100     |  |  |
| Madrid                                                                          | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 17-05-2014 00:00:00  | 24                | \$4,600     |  |  |
| Madrid                                                                          | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 28-09-2013 00:00:00  | 24                | \$5,400     |  |  |
| Madrid                                                                          | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 14-03-2014 00:00:00  | 24                | \$4,700     |  |  |
| Madrid                                                                          | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 09-05-2014 00:00:00  | 0                 | \$3,300     |  |  |
| Madrid                                                                          | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 11-05-2016 00:00:00  | 48                | \$2,900     |  |  |
| Madrid                                                                          | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 04-06-2012 00:00:00  | -24               | \$3,600     |  |  |
| Madrid                                                                          | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 15-09-2013 00:00:00  | 0                 | \$4,000     |  |  |
| Madrid                                                                          | Unknown | 28034      | Spain   | EMEA      | Freyre          | Diego            | Medium   | 26-05-2013 00:00:00  | 0                 | \$3,800     |  |  |

Measure Table

Measure Table = {"")}

Measure Table  
Value

**SUMX**  
Iterative Functions

Total Revenue

SUMX(**Table**, **Expression**)

Returns the sum of an expression evaluated for each row in a table.

SUMX(

Total Revenue =

```
SUMX(
    'Vehicle Orders',
    'Vehicle Orders'[PRICEEACH] * 'Vehicle Orders'[QUANTITYORDERED]
)
```

Measure Table  
Total Revenue  
Value

The screenshot shows the Power BI Measures view. At the top, there are buttons for 'Format' (Currency), 'Data category' (Uncategorized), 'New measure', and 'Quick measure'. Below this, the 'Structure' and 'Formatting' tabs are visible. The main area displays the measure definition:

```
1 Total Revenue =
2     SUMX(
3         'Vehicle Orders',
4         'Vehicle Orders'[PRICEEACH] * 'Vehicle Orders'[QUANTITYORDERED]
5     )
```

\$8.29M  
Total Revenue

Matrices

| ORDERNUMBER | QUANTITYORDERED | PRICEEACH |
|-------------|-----------------|-----------|
| 10203       | 20              | \$100     |
| 10153       | 20              | \$100     |
| 10104       | 34              | \$100     |
| 10153       | 42              | \$100     |
| 10212       | 39              | \$100     |
| 10104       | 41              | \$100     |
| 10246       | 46              | \$100     |
| 10412       | 54              | \$100     |
| 10203       | 47              | \$100     |
| 10212       | 33              | \$100     |
| 10212       | 29              | \$100     |
| 10205       | 36              | \$100     |
| 10244       | 40              | \$100     |
| 10212       | 38              | \$100     |
| 10379       | 39              | \$100     |
| 10212       | 41              | \$100     |
| 10104       | 24              | \$100     |
| 10246       | 40              | \$100     |
| 10412       | 41              | \$100     |
| 10104       | 29              | \$100     |
| 10383       | 27              | \$100     |
| 10380       | 40              | \$100     |
| 10244       | 43              | \$100     |
| 10212       | 40              | \$100     |
| 10311       | 43              | \$100     |
| 10379       | 29              | \$100     |
| 10244       | 30              | \$100     |
| 10244       | 29              | \$100     |
| 10128       | 41              | \$100     |

$(100 * 20) + (20 * 100) +$   
 $(100 * 34) + (100 * 42) +$   
 $(100 * 39) + \dots$

Calculate Functions

Calculate(Expression , Filter , ....)

The screenshot shows a Power BI interface with a table containing 'DEALSIZE' values: Medium, Medium, Medium, Medium, Medium, Medium, Medium, Medium, Medium, Medium. A context menu is open over the 'Medium' row, with 'CALCULATE' highlighted. The tooltip for 'CALCULATE' states: 'Evaluates an expression in a context modified by filters.' Below the menu is a search bar and a filter section for 'Large', 'Medium', and 'Small'.

The screenshot shows a Power BI visualization with a calculated measure: 'Medium Deal Size Revenue = CALCULATE([Total Revenue], 'Vehicle Orders'[DEALSIZE] = "Medium")'. The value is displayed as '\$4.96M'. Below it, a table shows 'Total Revenue' and 'Medium Deal Size Revenue' for categories Large, Medium, Small, and Total.

|        | Total Revenue  | Medium Deal Size Revenue |
|--------|----------------|--------------------------|
| Large  | \$7,38,757.91  | \$49,61,736.68           |
| Medium | \$49,61,736.68 | \$49,61,736.68           |
| Small  | \$25,90,392.2  | \$49,61,736.68           |
| Total  | \$82,90,886.79 | \$49,61,736.68           |

The use of Medium Deal Size Revenue would be best shown, when you use this again to do calculate measures of different categories like "Classic Cars"

The screenshot shows a Power BI visualization with a calculated measure: '\$677.94K'. Below it, a table shows 'Total Revenue' and 'Medium Deal Size Revenue' for categories Medium, Small, and Total. To the right, a detailed breakdown of 'Classic Cars in Medium Deal' is shown across various product lines.

|        | Total Revenue | Medium Deal Size Revenue |
|--------|---------------|--------------------------|
| Medium | \$3,90,938.24 | \$3,90,938.24            |
| Small  | \$2,87,002.16 | \$3,90,938.24            |
| Total  | \$6,77,940.4  | \$3,90,938.24            |

| PRODUCTLINE      | Total Revenue  |
|------------------|----------------|
| Classic Cars     | \$29,68,546.4  |
| Motorcycles      | \$9,71,086.29  |
| Planes           | \$8,77,942.21  |
| Ships            | \$6,77,940.4   |
| Trains           | \$2,03,804.26  |
| Trucks and Buses | \$9,47,355.18  |
| Vintage Cars     | \$16,44,212.05 |
| Total            | \$82,90,886.79 |

```
Medium Deal Size Revenue = CALCULATE([Total Revenue], 'Vehicle Orders'[DEALSIZE] = "Medium")
```

| DEALSIZE | Total Revenue  | Medium Deal Size Revenue |
|----------|----------------|--------------------------|
| Large    | \$7,38,757.91  | \$49,61,736.68           |
| Medium   | \$49,61,736.68 | \$49,61,736.68           |
| Small    | \$25,90,392.2  | \$49,61,736.68           |
| Total    | \$82,90,886.79 | \$49,61,736.68           |

```
Classic Cars in Medium Deal = CALCULATE([Medium Deal Size Revenue], 'Vehicle Orders'[PRODUCTLINE] = "Classic Cars")
```

Calculate Large Deal  
Size Revenue  
Calculate Small Deal  
Size Revenue

```
Large Deal Size Revenue = CALCULATE([Total Revenue], 'Vehicle Orders'[DEALSIZE] = "Large")
```

# \$738.76K

Large Deal Size Revenue

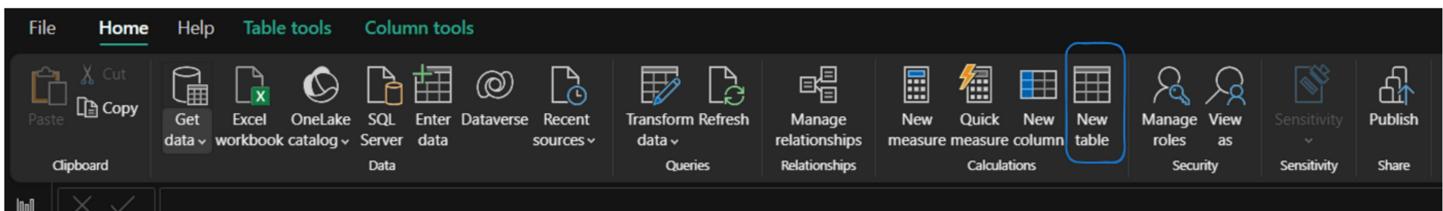
```
Small Deal Size Revenue = CALCULATE([Total Revenue], 'Vehicle Orders'[DEALSIZE] = "Small")
```

# \$2.59M

Small Deal Size Revenue

FILTER Function

A separate temporary table will be created by calling Filter Functions.



## Referenced Table

1 Classic Cars DataSet = FILTER('Vehicle Orders', 'Vehicle Orders'[PRODUCTLINE] = "Classic Cars")

The screenshot shows a Power BI Data Editor window with a table titled '1 Classic Cars DataSet'. The table has columns: ORDERNUMBER, QUANTITYORDERED, PRICEEACH, ORDERLINENUMBER, ORDERDATETIME, DELIVERYDATETIME, STATUS, PRODUCTLINE, CITY, STATE, POSTALCODE, and COUNTRY. A filter context is applied from the 'Vehicle Orders' table where 'PRODUCTLINE' is set to 'Classic Cars'. A context menu is open over the 'PRODUCTLINE' column, showing options like 'Sort ascending', 'Sort descending', 'Clear sort', 'Clear filter', 'Clear all filters', and 'Text filters'. A search bar and a checkbox for '(Select all)' and 'Classic Cars' are also visible.

**FILTER(Table, FilterExpression)**

Returns a table that has been filtered.

RAHUL VERMA to Everyone 23:08

What if i want product line and deal size in the new filter table

1st Filter Table will be Created for Product Line.  
After that you have to create another temporary filter table based on specific deal size.

