

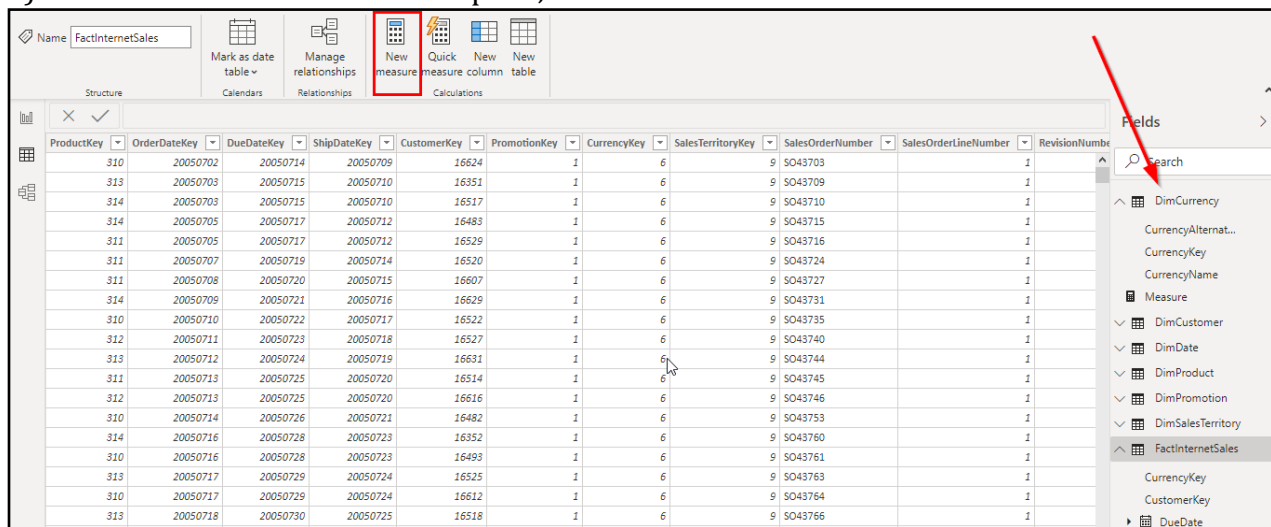
## Context in DAX

There are two types of contexts in Power BI: Row Context and Filter Context.

### Row Context

- A row context is a formula that includes a function that uses filters to identify a single row in a table. The function applies a row context to each row in the table to which the filter is applied.
- When using an expression to retrieve the value of a column in a given row, you need a way to tell DAX which row to use, out of the table, to compute the value. In other words, you need a way to define the current row of the table. This concept of the 'current row' defines the Row Context.

1) Select the table from the Fields pane, and click on **New measure**



2) In the Formula bar, highlight the measure with the following script (Please note that to apply a row context, you need to aggregate the column, not refer to its value):

TotalSales = SUM (FactInternetSales [SalesAmount])

### Filter Context

- A filter context is one or more filters applied in a calculation, which determine a single value or the result. You can use a filter context to reduce the values that are included in a calculation.

3) Again, from Home, click on **New column**, and type the following (the expression will be evaluated based on the filter 'Europe'):

European Sales = CALCULATE (FactInternetSales [TotalSales], DimSalesTerritory [SalesTerritoryGroup] = "Europe")

4) In the Fields pane, click on **European Sales** to add it to the report

5) In the Visualization pane, first, click on **Gauge**, and then click on **Format**

6) Now, expand the Gauge axis; in the **Maximum value** field, type 1000000, and in the **Target value** field, type 1000000

