

Creating Calculated Columns, a Date Table, and Relationships



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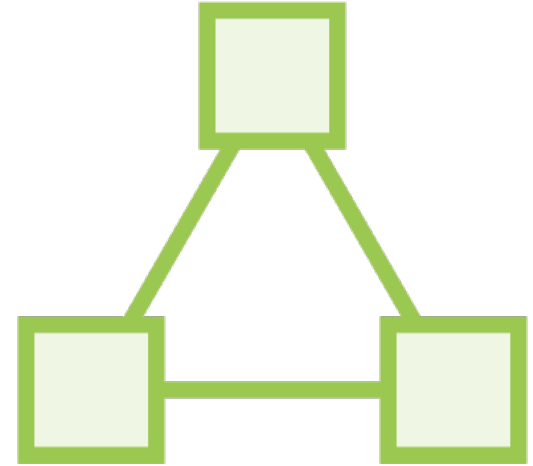
Calculated Columns, Date Tables and Relationships



Calculated Column



Date Table



Relationships

Calculated Columns



A column whose value is calculated from one or more other columns

- Concatenate two text columns
- Mathematical calculations

Can be performed in Power BI desktop or the Query Editor

- The Query Editor has a nicer UI 😊

Demo



Creating a calculated column



Date Table



Contains the full set of dates between two points in time

- For example, all the dates from January 1st 2015 to December 31st 2025
- Custom columns created for other values
 - Day, month, year, day of week, week number, quarter, etc.

Filtering on a date range

Time comparisons

- Year on year sales

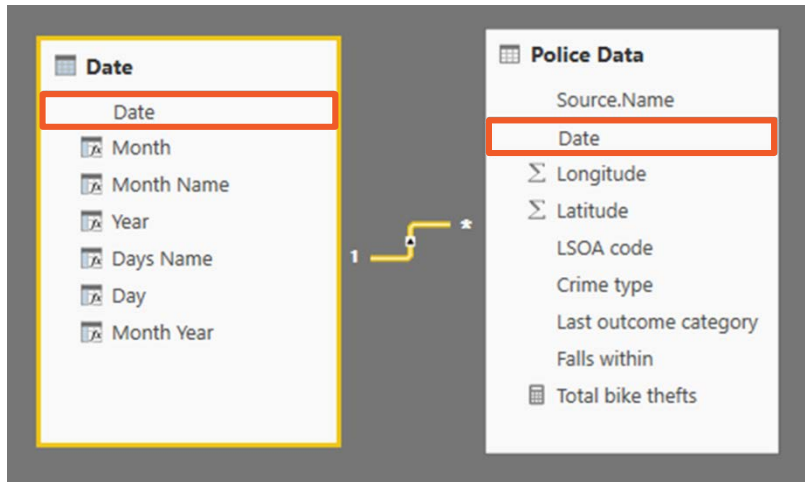
Demo



Creating a date table



Linking Tables Together

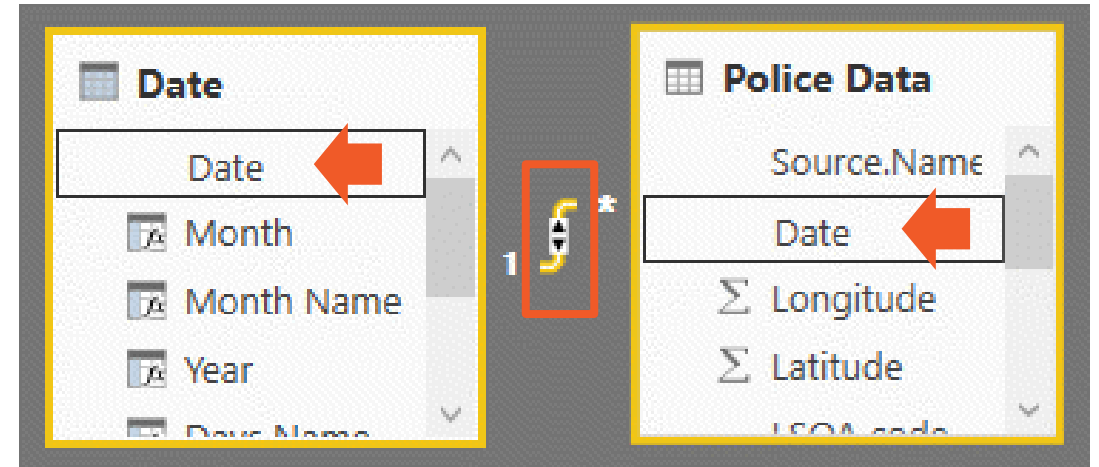
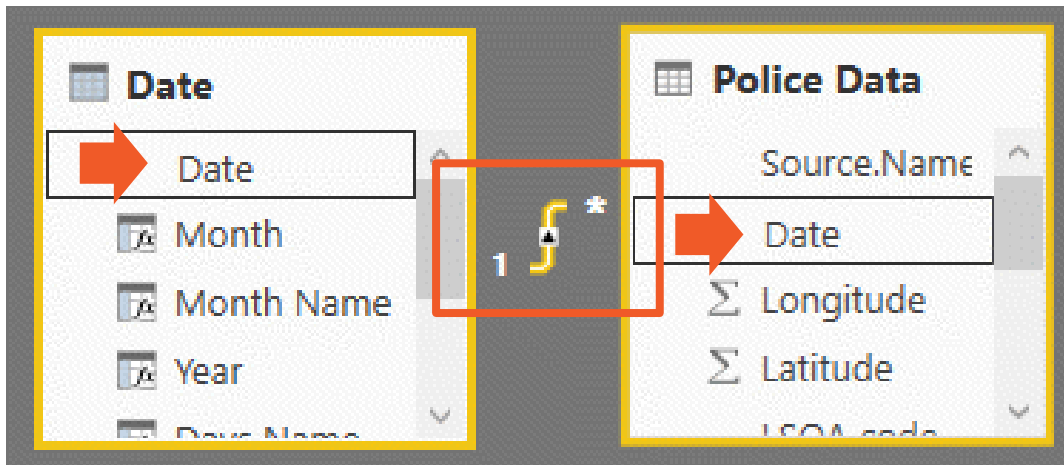


Tables must be linked in order to

- Provide filtering
- Use time comparisons

Also known as “creating relationships”

Relationship Properties



Cardinality

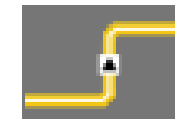
One to many (1:*)

One to one (1:1)

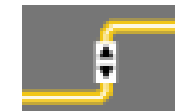
Many to one (*:1)

Cross Filter Direction

Single



Both



Demo



Creating relationships



Summary



Calculated columns

- Additional shaping

Date table

- Required for time calculations and date filtering

Relationships

- Cardinality
- Cross filter direction