DAX: CALCULATE()

Practices, one table

- [Total Male Customers], for each occupation

  Total Male Customers =

  CALCULATE(COUNT(Customers[CustomerKey]),Customers[Gender] = "M")

- [Total Customers Born Before 1970], use DATE() function for creating date reference, for each occupation

  Total Customers Born Before 1970 =

  CALCULATE(COUNT(Customers[CustomerKey]),Customers[BirthDate] < DATE(1970,1,1))

- [Customers earning at least $100,000 per year], for each occupation

  Customers earning at least $1000,000 per year =

  CALCULATE(COUNT(Customers[CustomerKey]),Customers[YearlyIncome] >= 100000)

DAX : Practices, one table

Occupation	Total Male Customers	Total Customers Born Before 1970	Customers earning at least $1000,000 per year
Professional	2727	609	792
Skilled Manual	2293	234	
Management	1592	1543	1406
Clerical	1488	433	
Manual	1251	134	
Total	**9351**	**2953**	**2198**

Practices, multiple table

- Use Region as Row Header

- [Total Sales] as a reference, not use CALCULATE

  Total Sales = SUM(Sales[SalesAmount])

- [Total Sales of Clothing], for Region

  Total Sales of Clothing = CALCULATE([Total Sales],Products[Category] = "Clothing")

- [Sales to Female Customers]

  Sales to Female Customers = CALCULATE(Sales[Total Sales],(Customers[Gender] = "F"))

DAX : Practices, multiple table

Region	Total Sales	Total Sales of Clothing	Sales to Female Customers
Australia	9,061,000.58	70,259.95	4,634,992.86
Southwest	5,718,150.81	74,713.61	2,881,098.24
Northwest	3,649,866.55	58,230.43	1,843,586.21
United Kingdom	3,391,712.21	32,239.51	1,615,046.29
Germany	2,894,312.34	23,565.40	1,539,713.30
France	2,644,017.71	27,035.22	1,271,964.11
Canada	1,977,844.86	53,164.62	1,011,319.99
Southeast	12,238.85	300.94	11,937.94
Northeast	6,532.47	105.97	3,836.02
Central	3,000.83	156.96	123.72
Total	**29,358,677.22**	**339,772.61**	**14,813,618.68**