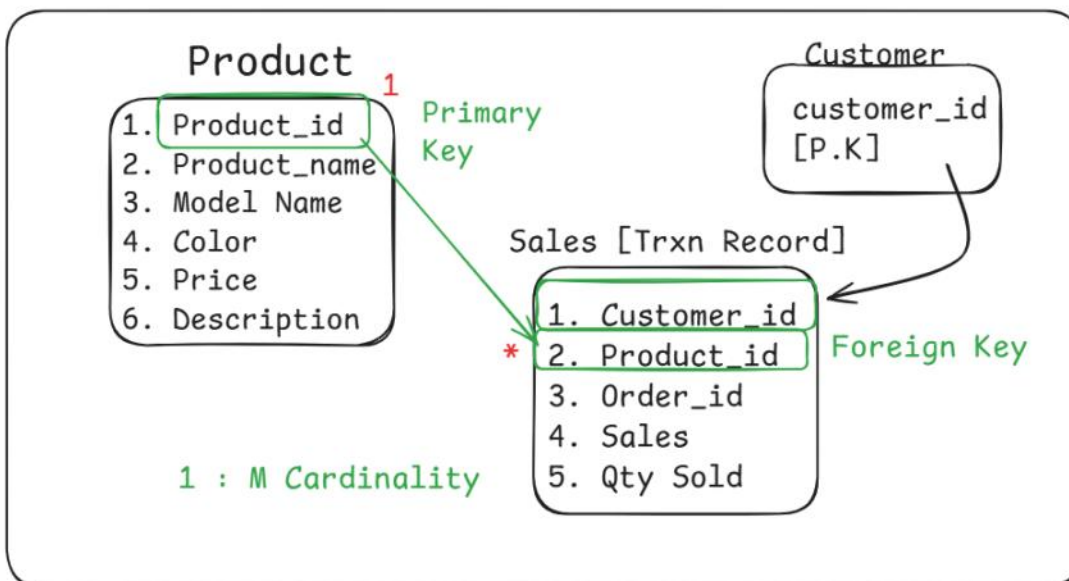
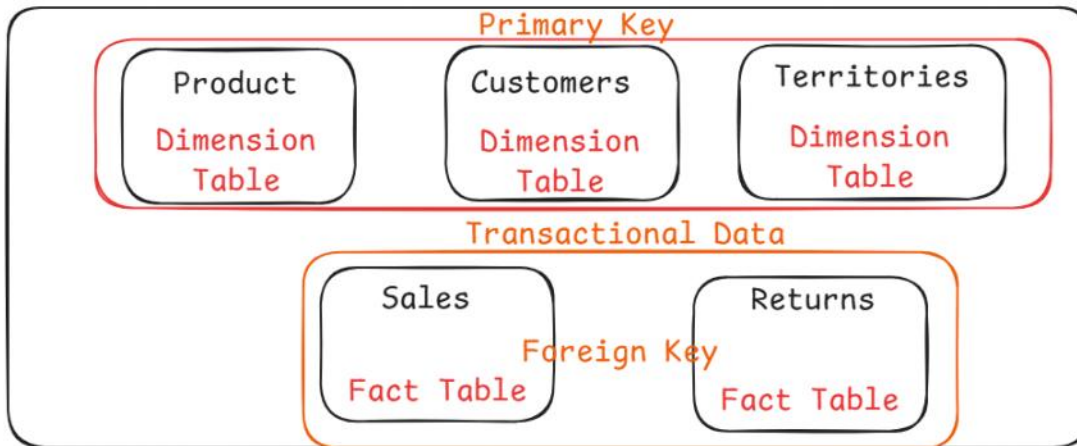


Data Modelling & DAX

Data Modelling

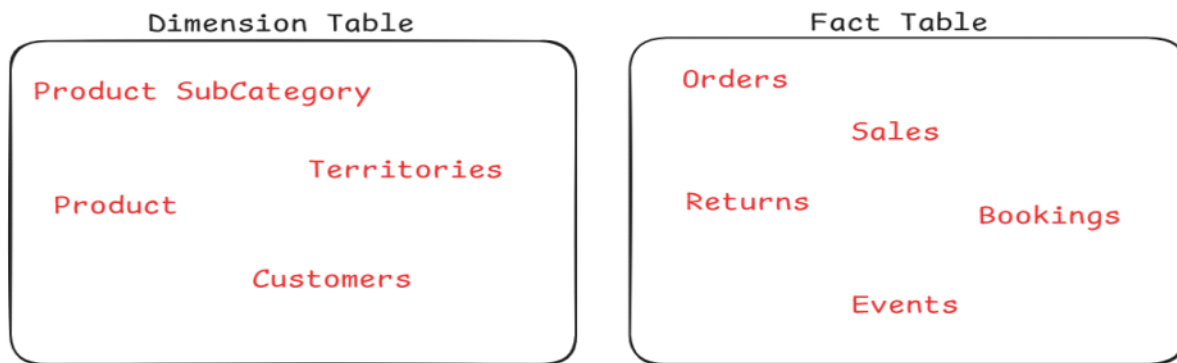


What is Dimension Table

-It contains unique elements in it. Referring to the P.K

What is Fact Table

-It stores Transactional Records and have Foreign key in it.

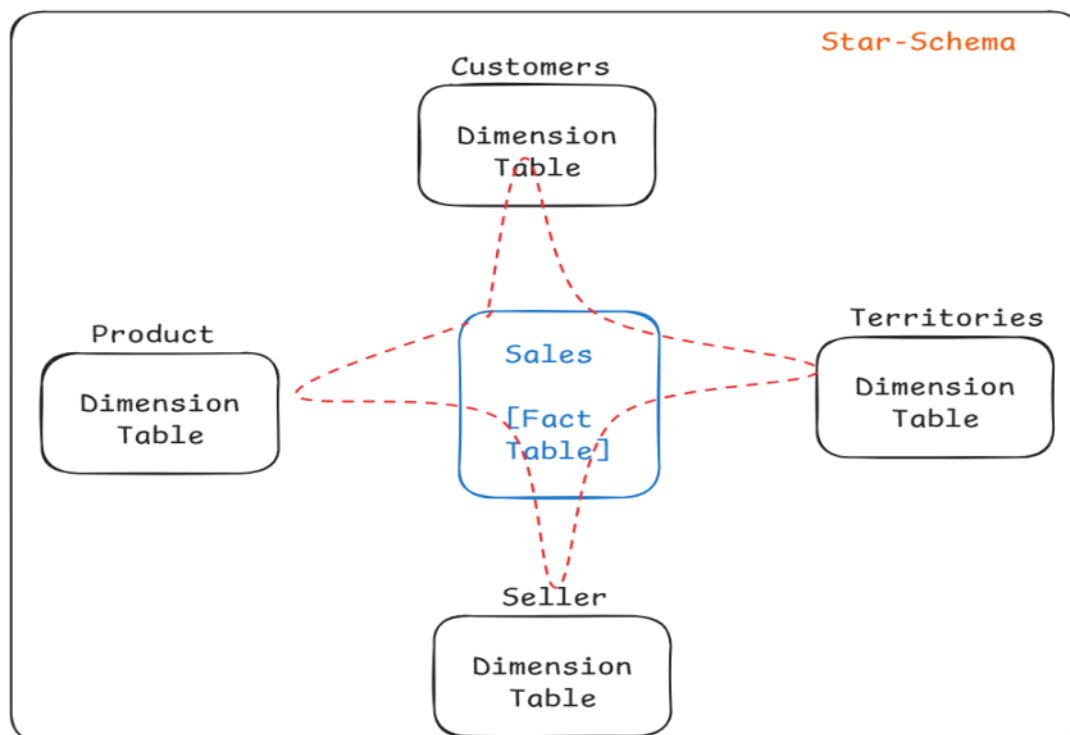


Schema's

1. Star Schema
2. Snowflake Schema

Star ★

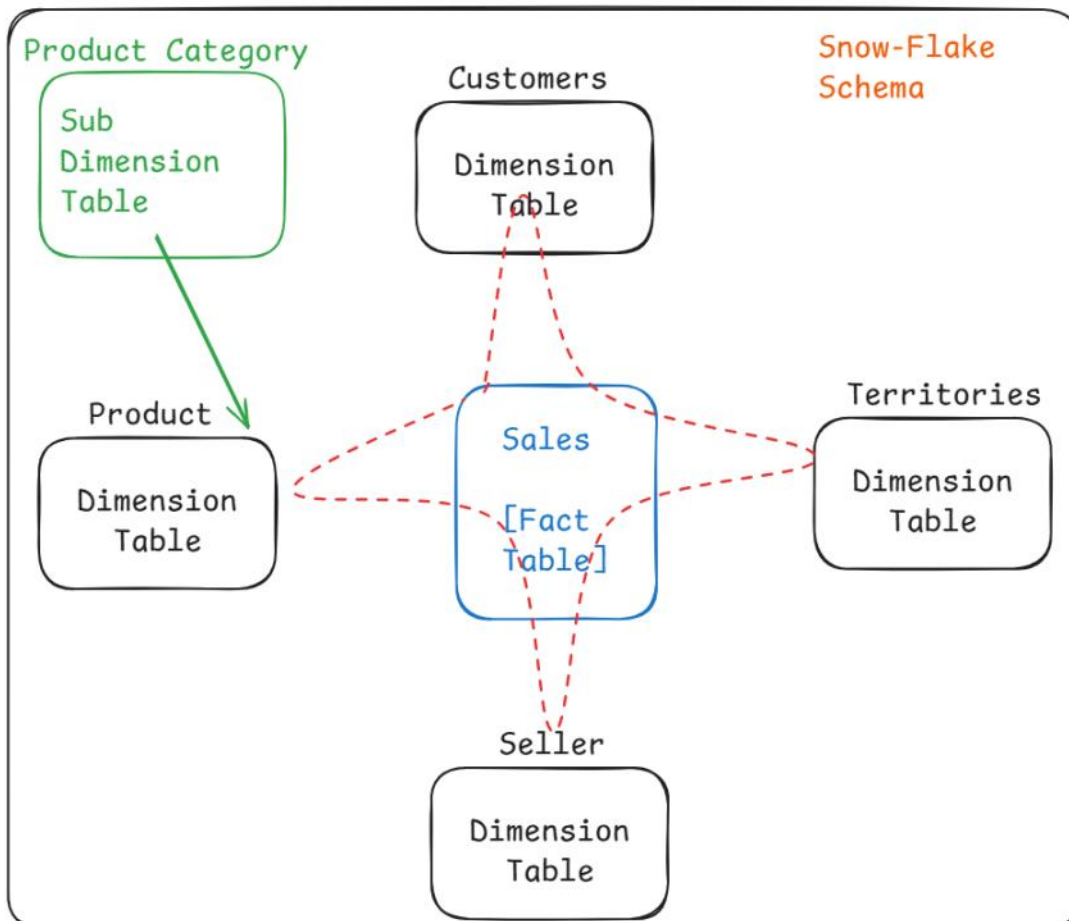
- Atleast 1 Fact connected with multiple Dimension Table



SnowFlake

- Its an extended part of star-schema + **Sub-Dimensional Table**

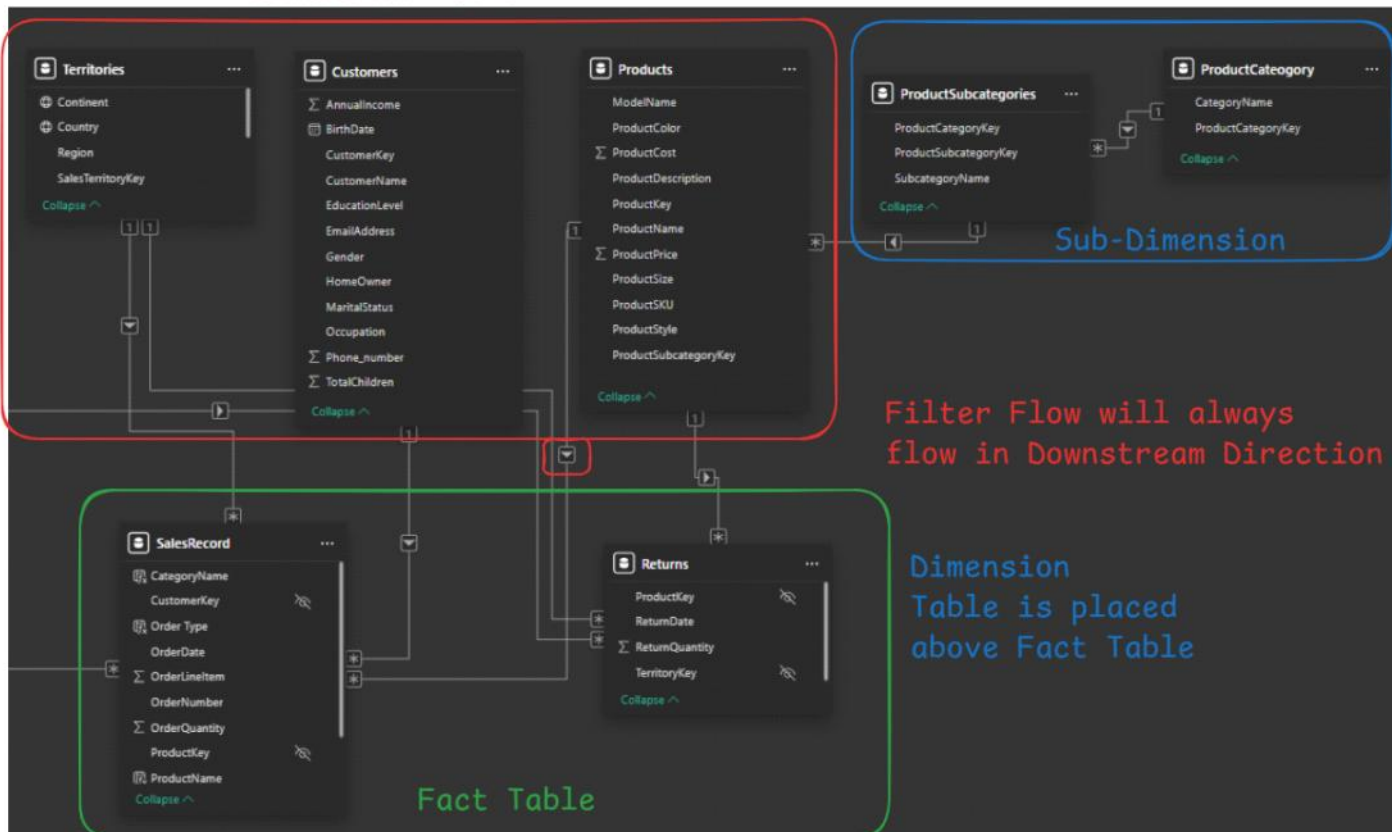
Any Table which don't have a direct connection with Fact Table.



ProductCategoryKey	CategoryName
1	Bikes
2	Components
3	Clothing
4	Accessories

ProductSubcategoryKey	SubcategoryName	ProductCategoryKey
1	Mountain Bikes	1
2	Road Bikes	1
3	Touring Bikes	1
4	Handlebars	2
5	Bottom Brackets	2
6	Brakes	2
7	Chains	2
8	Cranksets	2
9	Derailleurs	2
10	Forks	2
11	Headsets	2
12	Mountain Frames	2
13	Pedals	2
14	Road Frames	2
15	Saddles	2
16	Touring Frames	2
17	Wheels	2
18	Bib-Shorts	3
19	Caps	3
20	Gloves	3
21	Jerseys	3
22	Shorts	3
23	Socks	3
24	Tights	3
25	Vests	3
26	Bike Racks	4
27	Bike Stands	4

Dimension Table

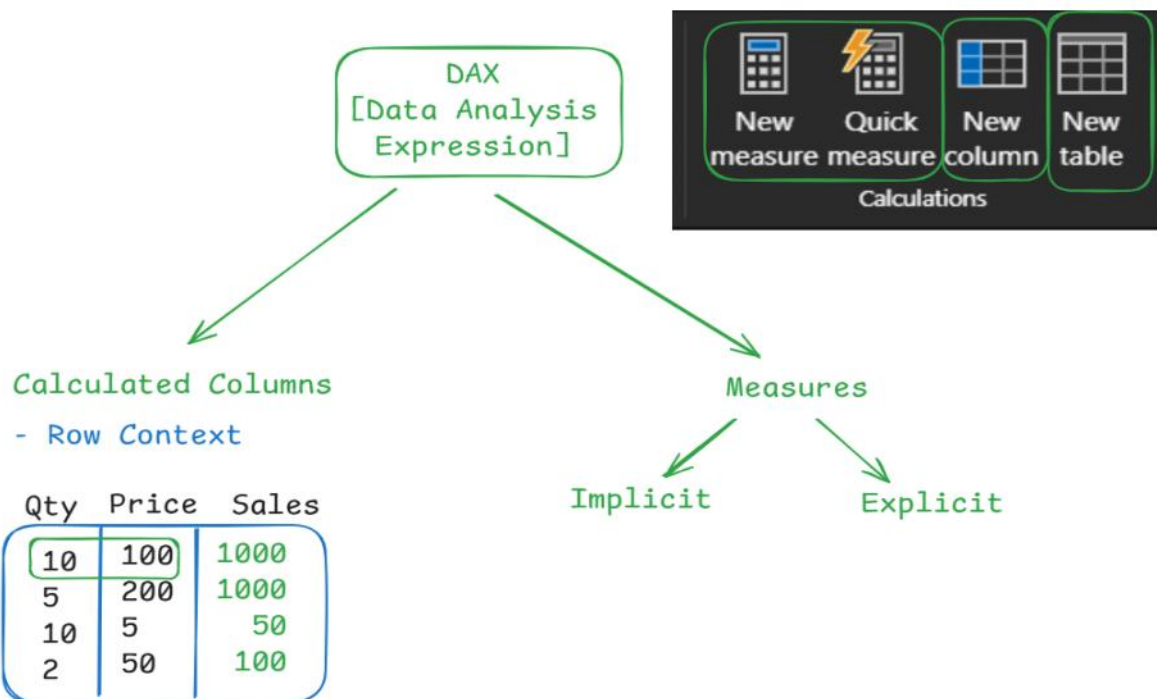


MEET DAX

Data Analysis Expressions (commonly known as DAX) is the formula language that drives the Power BI front-end. With DAX, you can:

- Go beyond the capabilities of traditional spreadsheet formulas, with powerful and flexible functions built specifically to work with relational data models.
- Add calculated columns (for filtering) and measures (for aggregation) to enhance data models.





\$24.91M

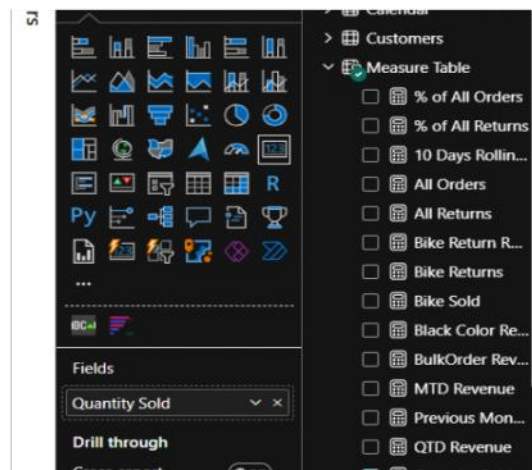
Total Revenue

\$10.46M

Total Profit

84K

Quantity Sold



```

1 ProductPrice = RELATED(
2   Products[ProductPrice]
3 )
  
```

OrderNumber	ProductKey	CustomerKey	TerritoryKey	OrderLineItem	OrderQuantity	Order Type	CategoryName	ProductName	ProductPrice
004	SO73527	485	22161	4	3	Bulk Order	Accessories	Fender Set - Mountain	21.98
004	SO72945	223	25493	10	6	Bulk Order	Clothing	AWC Logo Cap	8.6442
004	SO71336	223	23841	4	6	Bulk Order	Clothing	AWC Logo Cap	8.6442
004	SO71145	464	23958	7	6	Bulk Order	Clothing	Half-Finger Gloves, M	23.5481
004	SO69218	462	16641	4	6	Bulk Order	Clothing	Half-Finger Gloves, S	23.5481
004	SO68324	466	16866	4	6	Bulk Order	Clothing	Half-Finger Gloves, L	23.5481
003	SO63613	223	20700	4	6	Bulk Order	Clothing	AWC Logo Cap	8.6442
004	SO61837	462	12198	1	6	Bulk Order	Clothing	Half-Finger Gloves, S	23.5481
003	SO59973	223	23930	10	6	Bulk Order	Clothing	AWC Logo Cap	8.6442
003	SO53918	462	25726	10	6	Bulk Order	Clothing	Half-Finger Gloves, S	23.5481
004	SO73854	484	23883	4	5	Bulk Order	Accessories	Bike Wash - Dissolver	7.95
004	SO73527	477	22161	4	5	Bulk Order	Accessories	Water Bottle - 30 oz.	4.99
004	SO72317	477	13734	4	5	Bulk Order	Accessories	Water Bottle - 30 oz.	4.99
004	SO72108	484	16352	9	5	Bulk Order	Accessories	Bike Wash - Dissolver	7.95
004	SO71324	484	17420	4	5	Bulk Order	Accessories	Bike Wash - Dissolver	7.95
004	SO70141	478	18225	1	5	Bulk Order	Accessories	Mountain Bottle Cage	9.99
004	SO69223	466	26663	9	5	Bulk Order	Clothing	Half-Finger Gloves, L	23.5481
004	SO69227	466	26633	4	5	Bulk Order	Clothing	Half-Finger Gloves, L	23.5481
004	SO69017	484	21476	4	5	Bulk Order	Accessories	Bike Wash - Dissolver	7.95
004	SO68920	484	26412	7	5	Bulk Order	Accessories	Bike Wash - Dissolver	7.95
004	SO68183	479	28404	8	5	Bulk Order	Accessories	Road Bottle Cage	8.99

DAX SYNTAX

MEASURE NAME

- Measures are always surrounded by brackets (i.e. [Total Quantity]) when referenced in formulas, so spaces are OK

Referenced
TABLE NAME

Referenced
COLUMN NAME

Total Quantity: = SUM(Transactions[quantity])

FUNCTION NAME

COMMON FUNCTION CATEGORIES

MATH & STATS Functions	LOGICAL Functions	TEXT Functions	FILTER Functions	TABLE Functions	DATE & TIME Functions	RELATIONSHIP Functions
<p>Functions used for aggregation or iterative, row-level calculations</p> <p>Common Examples:</p> <ul style="list-style-type: none"> SUM AVERAGE MAX/MIN DIVIDE COUNT/COUNTA COUNTROWS DISTINCTCOUNT <p>Iterator Functions:</p> <ul style="list-style-type: none"> SUMX AVERAGEX MAXX/MINX RANKX COUNTX 	<p>Functions that use conditional expressions (IF/THEN statements)</p> <p>Common Examples:</p> <ul style="list-style-type: none"> IF IFERROR AND OR NOT SWITCH TRUE FALSE 	<p>Functions used to manipulate text strings or value formats</p> <p>Common Examples:</p> <ul style="list-style-type: none"> CONCATENATE COMBINEVALUES FORMAT LEFT/MID/RIGHT UPPER/LOWER LEN SEARCH/FIND REPLACE SUBSTITUTE TRIM 	<p>Functions used to manipulate table and filter contexts</p> <p>Common Examples:</p> <ul style="list-style-type: none"> CALCULATE FILTER ALL ALLEXCEPT ALLSELECTED KEEPFILTERS REMOVEFILTERS SELECTEDVALUE 	<p>Functions that create or manipulate tables and output tables vs. scalar values</p> <p>Common Examples:</p> <ul style="list-style-type: none"> SUMMARIZE ADDCOLUMNS GENERATESERIES DISTINCT VALUES UNION INTERSECT TOPN 	<p>Functions used to manipulate date & time values or handle time intelligence calculations</p> <p>Common Examples:</p> <ul style="list-style-type: none"> DATE DATEDIFF YEARFRAC YEAR/MONTH DAY/HOUR TODAY/NOW WEEKDAY WEEKNUM NETWORKDAYS <p>Time Intelligence:</p> <ul style="list-style-type: none"> DATESYTD DATESMTD DATEADD DATESBETWEEN 	<p>Functions used to manage & modify table relationships</p> <p>Common Examples:</p> <ul style="list-style-type: none"> RELATED RELATEDTABLE CROSSFILTER USERELATIONSHIP

1M 6M 1Yr 3Yr 5Yr 10Yr Max

Price PE Ratio More Alerts

