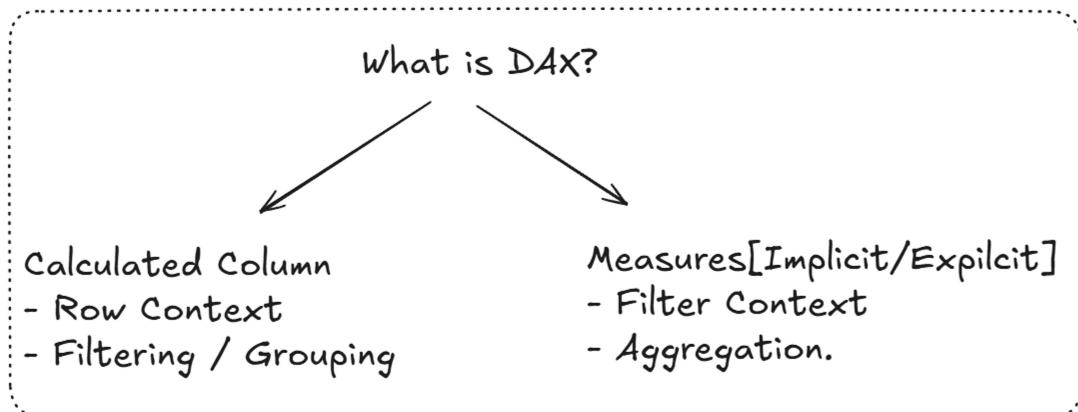


Power BI - End To End Project - 2



ProductCost	\$%	Format	Currency	Σ Summarization	Sum		Sort by column	Sort	Data groups	Manage relationships	New column
e Fixed decimal num...	\$ %	0.00	0.00	Data category	Uncategorized				Groups	Relationships	Calculations
Structure	Formatting	Properties									
1 ProductCost =	2 RELATED(3 Products[ProductCost]									
date	StockDate	OrderNumber	ProductKey	CustomerKey	TerritoryKey	OrderLineItem	OrderQuantity	ProductPrice	ProductCost		
07-2015	03-06-2002	SO46718	360	12570	9	1	1	\$2,049	\$1,106		
07-2015	22-04-2002	SO46736	360	12341	9	1	1	\$2,049	\$1,106		
07-2015	05-05-2002	SO46776	360	12356	9	1	1	\$2,049	\$1,106		
07-2015	22-06-2002	SO46808	360	12347	9	1	1	\$2,049	\$1,106		
07-2015	11-05-2002	SO46826	360	12575	9	1	1	\$2,049	\$1,106		
08-2015	21-04-2002	SO47075	360	12685	9	1	1	\$2,049	\$1,106		
08-2015	01-05-2002	SO47098	360	12667	9	1	1	\$2,049	\$1,106		
08-2015	21-04-2002	SO47149	360	12669	9	1	1	\$2,049	\$1,106		
08-2015	04-06-2002	SO47212	360	12580	9	1	1	\$2,049	\$1,106		
08-2015	29-06-2002	SO47302	360	12670	9	1	1	\$2,049	\$1,106		
08-2015	12-08-2002	SO47328	360	12681	9	1	1	\$2,049	\$1,106		
09-2015	13-09-2002	SO47346	360	12695	9	1	1	\$2,049	\$1,106		

```
ProductPrice =  
    RELATED(  
        Products[ProductPrice])
```

Total Revenue= SUM(Sales)

```
Sales =  
    SalesRecord[ProductPrice] * SalesRecord[OrderQuantity]
```

StockDate	OrderNumber	ProductKey	CustomerKey	TerritoryKey	OrderLineItem	OrderQuantity	ProductPrice	ProductCost	Sales
03-06-2002	SO46718	360	12570	9	1	1	\$2,049	\$1,106	\$2,049
22-04-2002	SO46736	360	12341	9	1	1	\$2,049	\$1,106	\$2,049
05-05-2002	SO46776	360	12356	9	1	1	\$2,049	\$1,106	\$2,049

Expense =

Total Expenses = SUM(Expense)

SalesRecord[ProductCost] * SalesRecord[OrderQuantity]

StockDate	OrderNumber	ProductKey	CustomerKey	TerritoryKey	OrderLineItem	OrderQuantity	ProductPrice	ProductCost	Sales	Expense
03-06-2002	SO46718	360	12570	9	1	1	\$2,049	\$1,106	\$2,049	\$1,106
22-04-2002	SO46736	360	12341	9	1	1	\$2,049	\$1,106	\$2,049	\$1,106
05-05-2002	SO46776	360	12356	9	1	1	\$2,049	\$1,106	\$2,049	\$1,106

1 Profit =

Total Profit = SUM(Profit)

2 SalesRecord[Sales] - SalesRecord[Expense]

OR (Total Revenue - Total Expenses)

StockDate	OrderNumber	ProductKey	CustomerKey	TerritoryKey	OrderLineItem	OrderQuantity	ProductPrice	ProductCost	Sales	Expense	Profit
03-06-2002	SO46718	360	12570	9	1	1	\$2,049	\$1,106	\$2,049	\$1,106	\$943
22-04-2002	SO46736	360	12341	9	1	1	\$2,049	\$1,106	\$2,049	\$1,106	\$943
05-05-2002	SO46776	360	12356	9	1	1	\$2,049	\$1,106	\$2,049	\$1,106	\$943
22-06-2002	SO46808	360	12347	9	1	1	\$2,049	\$1,106	\$2,049	\$1,106	\$943

Let's try to reduce the calculated column. But Why?

The screenshot shows the Power BI Model view interface. At the top, there are tabs for 'Measure Table', 'Relationships', 'Calculations', and 'Calendars'. Below the tabs, a search bar contains the text '1 Measure Table = {""}'. The main area displays the measure definition: '1 Measure Table = {""}'.

~~Total Revenue = SUM(SalesRecord[Sales])~~

The screenshot shows the Power BI Model view interface. At the top, there are tabs for 'Total Revenue', 'Measure Table', 'Structure', and 'Properties'. The properties pane shows 'Format' set to 'Currency' and 'Data category' set to 'Uncategorized'. Below the tabs, a search bar contains the text '1 Total Revenue ='. The main area displays the measure definition: '1 Total Revenue = SUMX(SalesRecord, SalesRecord[OrderQuantity] * RELATED(Products[ProductPrice]))'.

\$24M

Total Revenue

Total Expenses

Measure Table

Structure

Format Currency

\$ %

Data category Uncategorized

New measure

Quick measure

Properties

Calculations

```

1 Total Expenses =
2     SUMX(
3         SalesRecord,
4             SalesRecord[OrderQuantity] *
5                 RELATED(
6                     Products[ProductCost]))
```

\$14M

Total Expenses

Total Profit

Measure Table

Structure

Format Currency

\$ %

Data category Uncategorized

New measure

Quick measure

Properties

Calculations

```

1 Total Profit =
2     [Total Revenue] - [Total Expenses]
```

\$10M

Total Profit

Red Color Revenue

Measure Table

Structure

Format Currency

\$ %

Data category Uncategorized

New measure

Quick measure

Properties

```

1 Red Color Revenue =
2     CALCULATE(
3         [Total Revenue],
4             Products[ProductColor] = "Red")
```

\$5M

Red Color Revenue

Total Orders & Quantity Sold

OrderDate	StockDate	OrderNumber	ProductKey	CustomerKey	TerritoryKey	OrderLineItem	OrderQuantity
05-07-2015	03-06-2002	SO46718	360	12570	9	1	1
07-07-2015	22-04-2002	SO46736	360	12341	9	1	1
12-07-2015	05-05-2002	SO46776	360	12356	9	1	1
16-07-2015	22-06-2002	SO46808	360	12347	9	1	1
18-07-2015	11-05-2002	SO46826	360	12575	9	1	1
01-08-2015	21-04-2002	SO47075	360	12685	9	1	1
04-08-2015	01-05-2002	SO47098	360	12667	9	1	1
10-08-2015	21-04-2002	SO47149	360	12669	9	1	1
17-08-2015	04-06-2002	SO47212	360	12580	9	1	1
26-08-2015	29-06-2002	SO47302	360	12670	9	1	1
29-08-2015	12-08-2002	SO47328	360	12681	9	1	1

Table: SalesRecord (56,046 rows) Column: OrderNumber (25,164 distinct values)

Total Orders =

DISTINCTCOUNT(

SalesRecord[OrderNumber])

Quantity Sold =
`SUM(SalesRecord[OrderQuantity])`

84K
Quantity Sold

Total Returns

Total Returns =
`SUM(Returns[ReturnQuantity])`

1828
Total Returns

Weekend/ Weekday Orders

```
IsWeekend =
SWITCH(
    'Calendar'[DayName],
    "Saturday", "Weekend",
    "Sunday", "Weekend",
    "Monday", "Weekday",
    "Tuesday", "Weekday",
    "Wednesday", "Weekday",
    "Thursday", "Weekday",
    "Friday", "Weekday")
```

Weekend Order =
`CALCULATE(
 [Total Orders],
 'Calendar'[IsWeekend] = "Weekend")`

7039

Sum of Weekend Order

Weekday Orders =
`CALCULATE(
 [Total Orders],
 'Calendar'[IsWeekend] = "Weekday")`

18K

Weekday Orders

Regular Order / Bulk Order

Order Type [Sales Record]

```
Order Type =
SWITCH(
    TRUE(),
    SalesRecord[OrderQuantity] > 1, "Bulk Order",
    "Regular Order")
```

StockDate	OrderNumber	ProductKey	CustomerKey	TerritoryKey	OrderLineItem	OrderQuantity	Order Type
03-06-2002	SO46718	360	12570	9	1	1	Regular Order
22-04-2002	SO46736	360	12341	9	1	1	Regular Order

Return Rate% = Total Return / Quantity Sold.

Total Returns =

```
SUM(  
    Returns[ReturnQuantity])
```

Quantity Sold =
SUM(
 SalesRecord[OrderQuantity])

Return Rate =

```
DIVIDE(  
    [Total Returns],  
    [Quantity Sold],  
    "-")
```

Bike Sold , Bike Return , Bikes Return Rate

ALL

All Orders =

```
CALCULATE(  
    [Total Orders],  
    ALL(SalesRecord))
```

CategoryName	Total Orders	All Orders
Accessories	16983	25164
Bikes	13929	25164
Clothing	6976	25164
Components		25164
Total	25164	25164

```

1 All Orders =
2     CALCULATE(
3         [Total Orders],
4         ALL(SalesRecord))

```

CategoryName	Total Orders	All Orders	% of All Orders
Accessories	16983	25164	67.49%
Bikes	13929	25164	55.35%
Clothing	6976	25164	27.72%
Components		25164	
Total	25164	25164	100.00%

Total Returns , All Returns , % All Returns

Time Intelligence

Performance To Date -> TOTAL_YTD , TOTAL_QTD, TOTAL_MTD,
 DATES_YTD, DATES_QTD, DATES_MTD

YTD Revenue

```

1 YTD Revenue =
2     CALCULATE(
3         [Total Revenue],
4         DATESYTD(
5             'Calendar'[Date]))
6

```

Year	Total Revenue	YTD Revenue
2015	\$64,04,934	\$64,04,934
January	\$5,85,313	\$5,85,313
February	\$5,32,226	\$11,17,539
March	\$6,43,436	\$17,60,975
April	\$6,53,364	\$24,14,339
May	\$6,59,326	\$30,73,665
June	\$6,69,989	\$37,43,654
July	\$4,86,115	\$42,29,769
August	\$5,36,453	\$47,66,221
September	\$3,44,063	\$51,10,284
October	\$4,04,277	\$55,14,561
November	\$3,26,611	\$58,41,172
December	\$5,63,762	\$64,04,934
2016	\$93,24,204	\$93,24,204
January	\$4,32,426	\$4,32,426
February	\$4,74,163	\$9,06,589
Total	\$2,49,14,587	\$91,85,449

Previous Period

→ DATEADD()
Interval - Year, Qtr, Month, Day

```
Previous Month Revenue =
CALCULATE(
    [Total Revenue],
    DATEADD(
        'Calendar'[Date],
        -1,
        MONTH))
```

Year	Total Revenue	YTD Revenue	Previous Month Revenue
2015	\$64,04,934	\$64,04,934	\$58,41,172
January	\$5,85,313	\$5,85,313	
February	\$5,32,226	\$11,17,539	\$5,85,313
March	\$6,43,436	\$17,60,975	\$5,32,226
April	\$6,53,364	\$24,14,339	\$6,43,436
May	\$6,59,326	\$30,73,665	\$6,53,364
June	\$6,69,989	\$37,43,654	\$6,59,326
July	\$4,86,115	\$42,29,769	\$6,69,989
August	\$5,36,453	\$47,66,221	\$4,86,115
September	\$3,44,063	\$51,10,284	\$5,36,453
October	\$4,04,277	\$55,14,561	\$3,44,063
November	\$3,26,611	\$58,41,172	\$4,04,277
December	\$5,63,762	\$64,04,934	\$3,26,611
2016	\$93,24,204	\$93,24,204	\$82,52,657
January	\$4,32,426	\$4,32,426	\$5,63,762
February	\$4,74,163	\$9,06,589	\$4,32,426
March	\$4,71,962	\$13,78,550	\$4,74,163
April	\$4,94,957	\$18,73,508	\$4,71,962
May	\$5,45,535	\$24,19,043	\$4,94,957
June	\$5,33,825	\$29,52,868	\$5,45,535
July	\$8,15,356	\$37,68,224	\$5,33,825
August	\$8,04,193	\$45,72,417	\$8,15,356
September	\$9,52,743	\$55,25,161	\$8,04,193
Total	\$2,49,14,587	\$91,85,449	\$2,30,87,600

Running Total → DatesInPeriod, DateBetween.

Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec

10 - Day Rolling Revenue

1 2 3 4 5 6 7 8 9 10 11, 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Year	Total Revenue	YTD Revenue	Previous Month Revenue	10 Days Rolling Revenue
2015	\$64,04,934	\$64,04,934	\$58,41,172	\$1,74,027
January	\$5,85,313	\$5,85,313		\$1,77,361
1	\$8,351	\$8,351		\$8,351
2	\$14,313	\$22,665		\$22,665
3	\$28,041	\$50,706		\$50,706
4	\$17,713	\$68,419		\$68,419
5	\$7,856	\$76,275		\$76,275
6	\$21,266	\$97,541		\$97,541
7	\$8,555	\$1,06,096		\$1,06,096
8	\$25,365	\$1,31,461		\$1,31,461
9	\$14,313	\$1,45,774		\$1,45,774
10	\$14,110	\$1,59,884		\$1,59,884
11	\$31,620	\$1,91,504		\$1,83,152
12	\$25,048	\$2,16,551		\$1,93,887
13	\$7,856	\$2,24,407		\$1,73,701
14	\$31,670	\$2,56,077		\$1,87,658
15	\$21,381	\$2,77,457		\$2,01,183
16	\$24,666	\$3,02,124		\$2,04,583
17	\$25,365	\$3,27,489		\$2,21,393
18	\$15,711	\$3,43,200		\$2,11,739
19	\$18,590	\$3,61,791		\$2,16,017
20	\$21,470	\$3,83,260		\$2,23,276

```
10 Days Rolling Revenue =
CALCULATE(
    [Total Revenue],
    DATESINPERIOD(
        'Calendar'[Date],
        MAX('Calendar'[Date]),
        -10,
        DAY))
```

90 Days Rolling Profit → Homework