

## Practice DAX with Amazon Office Items Sales

### Practice DAX with Amazon Office Items Sales..

DAX

- Measure Table
- Calculated Columns
- Measures

10000  
records

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Country	City	State	Postal Code	Region	Product ID	Cat
43	CA-2016-101343	17-07-2016	22-07-2016	Standard Class	RA-19885	Ruben Ausman	Corporate	United States	Los Angeles	California	90049	West	OFF-ST-10003479	O
514	CA-2017-163405	21-12-2017	25-12-2017	Standard Class	BN-11515	Bradley Nguyen	Consumer	United States	Los Angeles	California	90049	West	OFF-AR-10003811	O
515	CA-2017-163405	21-12-2017	25-12-2017	Standard Class	BN-11515	Bradley Nguyen	Consumer	United States	Los Angeles	California	90049	West	OFF-AR-10001246	O
1606	US-2016-115819	19-04-2016	24-04-2016	Second Class	JO-15280	Jas O'Carroll	Consumer	United States	Los Angeles	California	90049	West	OFF-AR-10000823	O
1607	US-2016-115819	19-04-2016	24-04-2016	Second Class	JO-15280	Jas O'Carroll	Consumer	United States	Los Angeles	California	90049	West	OFF-AR-10004456	O
1609	US-2016-115819	19-04-2016	24-04-2016	Second Class	JO-15280	Jas O'Carroll	Consumer	United States	Los Angeles	California	90049	West	OFF-PA-10002377	O
1807	US-2016-116729	25-12-2016	28-12-2016	First Class	GK-14620	Grace Kelly	Corporate	United States	Los Angeles	California	90049	West	OFF-PA-10002005	O
2060	CA-2014-106439	31-10-2014	04-11-2014	Standard Class	GG-14650	Greg Guthrie	Corporate	United States	Los Angeles	California	90049	West	OFF-FA-10002975	O
2061	CA-2014-106439	31-10-2014	04-11-2014	Standard Class	GG-14650	Greg Guthrie	Corporate	United States	Los Angeles	California	90049	West	OFF-ST-10003996	O
2063	CA-2014-106439	31-10-2014	04-11-2014	Standard Class	GG-14650	Greg Guthrie	Corporate	United States	Los Angeles	California	90049	West	OFF-PA-10000477	O
2065	CA-2014-106439	31-10-2014	04-11-2014	Standard Class	GG-14650	Greg Guthrie	Corporate	United States	Los Angeles	California	90049	West	OFF-ST-10001963	O
2068	CA-2014-106439	31-10-2014	04-11-2014	Standard Class	GG-14650	Greg Guthrie	Corporate	United States	Los Angeles	California	90049	West	OFF-AR-10000149	O
2191	CA-2016-118913	25-06-2016	29-06-2016	Standard Class	AS-10240	Alan Shonely	Consumer	United States	Los Angeles	California	90049	West	OFF-AP-10000692	O
2492	CA-2014-113579	13-12-2014	15-12-2014	Second Class	KD-16345	Katherine Ducich	Consumer	United States	Los Angeles	California	90049	West	OFF-PA-10001457	O
2944	CA-2017-126242	19-11-2017	24-11-2017	Standard Class	MC-18100	Mick Crebaga	Consumer	United States	Los Angeles	California	90049	West	OFF-ST-10000675	O
3534	CA-2014-110849	18-04-2014	23-04-2014	Standard Class	JL-15835	John Lee	Consumer	United States	Los Angeles	California	90049	West	OFF-AR-10002375	O
3535	CA-2014-110849	18-04-2014	23-04-2014	Standard Class	JL-15835	John Lee	Consumer	United States	Los Angeles	California	90049	West	OFF-AR-10000657	O
3536	CA-2014-110849	18-04-2014	23-04-2014	Standard Class	JL-15835	John Lee	Consumer	United States	Los Angeles	California	90049	West	OFF-PA-10000134	O
3565	CA-2016-130029	03-07-2016	06-07-2016	First Class	GT-14755	Guy Thornton	Consumer	United States	Los Angeles	California	90049	West	OFF-PA-10000552	O
3566	CA-2016-130029	03-07-2016	06-07-2016	First Class	GT-14755	Guy Thornton	Consumer	United States	Los Angeles	California	90049	West	OFF-FA-10001135	O
3759	CA-2015-167745	18-09-2015	23-09-2015	Standard Class	GB-14530	George Bell	Corporate	United States	Los Angeles	California	90049	West	OFF-AR-10003602	O
3760	CA-2015-167745	18-09-2015	23-09-2015	Standard Class	GB-14530	George Bell	Corporate	United States	Los Angeles	California	90049	West	OFF-SU-10004782	O
3844	CA-2014-101931	28-10-2014	31-10-2014	First Class	TS-21370	Todd Sumrall	Corporate	United States	Los Angeles	California	90049	West	OFF-SU-10002301	O
3845	CA-2014-101931	28-10-2014	31-10-2014	First Class	TS-21370	Todd Sumrall	Corporate	United States	Los Angeles	California	90049	West	OFF-SU-10000646	O
3847	CA-2014-101931	28-10-2014	31-10-2014	First Class	TS-21370	Todd Sumrall	Corporate	United States	Los Angeles	California	90049	West	OFF-ST-10003442	O
4339	CA-2015-125234	27-11-2015	01-12-2015	Standard Class	SN-20710	Steve Nguyen	Home Office	United States	Los Angeles	California	90049	West	OFF-PA-10000482	O

Calculated Columns

High Profit Flag = "High Profit", "Low Profit"

→ Create a Column to calculate a High Profit,  
If profit > 100 , "High Profit", "Low Profit"

```
Profit Category = IF('Amazon Orders'[Profit] > 100,
                     "High Profit",
                     "Low Profit")
```

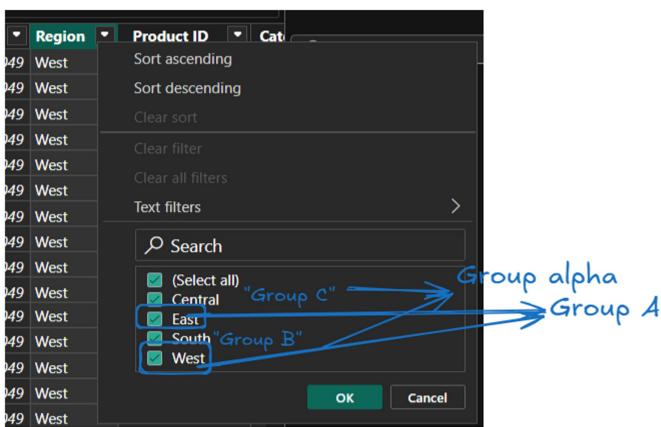
## Nested IF

- Profit > 500 , "Very High Profit",
- Profit > 100 , "High Profit",
- Profit > 0 , "Moderate"
- Else - "Loss"

```
Profit Category(Nested IF) =  
    IF('Amazon Orders'[Profit] > 500 , "Very High Profit",  
        IF('Amazon Orders'[Profit] > 100 , "High Profit",  
            IF('Amazon Orders'[Profit] > 0, "Moderate Profit" , "Loss")))
```

```
Profit Category (SWITCH) =  
    SWITCH(  
        TRUE(),  
        'Amazon Orders'[Profit] > 500 , "Very High Profit",  
        'Amazon Orders'[Profit] > 100 , "High Profit",  
        'Amazon Orders'[Profit] > 0 , "Moderate Profit",  
        "Loss")
```

```
SWITCH(Expression, Value1, Result1, ...,  
[Else])  
  
Returns different results depending on the value of  
an expression.  
  
- SWITCH(
```



Region Group =

```

1 Region Group =
2     SWITCH(
3         'Amazon Orders'[Region],
4             "East" , "Group A",
5             "West" , "Group A",
6             "South" , "Group B",
7             "Central" , "Group C",
8             "Others")

```

Flag - Discount > 30%,  
Profit < 0 , "Risk"

Sales	Quantity	Discount	Profit
\$15.224	2	80.00%	(\$38.8212)

$$15/2 = \$ 7.5 \text{ [Price of Each Item]}$$

$$= 7.5 * 80\% = 60$$

```

Flag - Risk Order =
| IF('Amazon Orders'[Discount] > 0.3 && 'Amazon Orders'[Profit] < 0 , "Risk", "Less Risk")

```

Calculating the delay in delivery based on Ship Mode.

Order Date	Ship Date	Ship Mode
17-07-2016	22-07-2016	Standard Class
21-12-2017	25-12-2017	Standard Class
21-12-2017	25-12-2017	Standard Class
19-04-2016	24-04-2016	Second Class
19-04-2016	24-04-2016	Second Class
19-04-2016	24-04-2016	Second Class
25-12-2016	28-12-2016	First Class
31-10-2014	04-11-2014	Standard Class
31-10-2014	04-11-2014	Standard Class
31-10-2014	04-11-2014	Standard Class
31-10-2014	04-11-2014	Standard Class

**Shipping Delay (Day) =**

$$\text{DATEDIFF}(\text{'Amazon Orders'}[\text{Order Date}], \text{'Amazon Orders'}[\text{Ship Date}], \text{DAY})$$

Quantity	Discount	Profit	Returned	Profit Category	Profit Category(Nested IF)	Profit Category (SWITCH)	Region Group	Flag - Risk Order	Shipping Delay (Day)
2	0.00%	\$3.894	No	Low Profit	Moderate Profit	Moderate Profit	Group A	Less Risk	5
3	0.00%	\$1.7901	No	Low Profit	Moderate Profit	Moderate Profit	Group A	Less Risk	4
2	0.00%	\$1.7052	No	Low Profit	Moderate Profit	Moderate Profit	Group A	Less Risk	4
3	0.00%	\$1.5288	No	Low Profit	Moderate Profit	Moderate Profit	Group A	Less Risk	5
5	0.00%	\$21.228	No	Low Profit	Moderate Profit	Moderate Profit	Group A	Less Risk	5
4	0.00%	\$10.224	No	Low Profit	Moderate Profit	Moderate Profit	Group A	Less Risk	5
7	0.00%	\$21.7728	No	Low Profit	Moderate Profit	Moderate Profit	Group A	Less Risk	3
3	0.00%	\$5.2164	No	Low Profit	Moderate Profit	Moderate Profit	Group A	Less Risk	4
5	0.00%	\$20.878	No	Low Profit	Moderate Profit	Moderate Profit	Group A	Less Risk	4
13	0.00%	\$30.4278	No	Low Profit	Moderate Profit	Moderate Profit	Group A	Less Risk	4

**1 Shipping Delay (Hours) = DATEDIFF('Amazon Orders'[Order Date], 'Amazon Orders'[Ship Date], HOUR)**

Profit	Returned	Profit Category	Profit Category(Nested IF)	Profit Category (SWITCH)	Region Group	Flag - Risk Order	Shipping Delay (Day)	Shipping Delay (Hours)
\$98.2722	No	Low Profit	Moderate Profit	Moderate Profit	Group B	Less Risk	4	96
\$74.8142	No	Low Profit	Moderate Profit	Moderate Profit	Group C	Less Risk	5	120
\$43.1904	No	Low Profit	Moderate Profit	Moderate Profit	Group A	Less Risk	6	144
\$94.4925	No	Low Profit	Moderate Profit	Moderate Profit	Group A	Less Risk	6	144
\$19.9746	No	Low Profit	Moderate Profit	Moderate Profit	Group A	Less Risk	4	96
\$1,228.178	No	High Profit	Very High Profit	Very High Profit	Group A	Less Risk	4	96
\$74.8142	No	Low Profit	Moderate Profit	Moderate Profit	Group A	Less Risk	5	120
\$86.25	No	Low Profit	Moderate Profit	Moderate Profit	Group A	Less Risk	5	120
\$6.6976	No	Low Profit	Moderate Profit	Moderate Profit	Group C	Less Risk	4	96
\$229.3018	No	High Profit	High Profit	High Profit	Group B	Less Risk	5	120
\$378.1674	No	High Profit	High Profit	High Profit	Group C	Less Risk	5	120
\$134.3888	No	High Profit	High Profit	High Profit	Group C	Less Risk	6	144
\$78.9516	No	Low Profit	Moderate Profit	Moderate Profit	Group A	Less Risk	7	168
\$77.7519	No	Low Profit	Moderate Profit	Moderate Profit	Group B	Less Risk	4	96
\$285.9896	No	High Profit	High Profit	High Profit	Group C	Less Risk	5	120
\$357.1911	No	High Profit	High Profit	High Profit	Group A	Less Risk	4	96
\$44.9925	No	Low Profit	Moderate Profit	Moderate Profit	Group A	Less Risk	4	96
\$181.9818	No	High Profit	High Profit	High Profit	Group B	Less Risk	6	144
\$23.4416	No	Low Profit	Moderate Profit	Moderate Profit	Group B	Less Risk	4	96
\$35.6346	No	Low Profit	Moderate Profit	Moderate Profit	Group C	Less Risk	6	144
\$236.2325	No	High Profit	High Profit	High Profit	Group C	Less Risk	4	96

## Measure Table

File Home Help Table tools

Clipboard Data Queries Relationships Calculations Security Sensitivity Share

New measure column New table Manage roles View as

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Country	City	State	Postal Code	Region
2860	CA-2017-138975	19-05-2017	23-05-2017	Standard Class	SC-20380	Shahid Collister	Consumer	United States	Atlanta	Georgia	30318	South
2783	CA-2016-139878	11-11-2016	16-11-2016	Standard Class	LD-17005	Lisa DeCherney	Consumer	United States	Detroit	Michigan	48234	Central
2739	CA-2015-115798	13-11-2015	19-11-2015	Standard Class	KL-16645	Ken Lonsdale	Consumer	United States	Newark	Delaware	19711	East
2736	CA-2015-115798	13-11-2015	19-11-2015	Standard Class	KL-16645	Ken Lonsdale	Consumer	United States	Newark	Delaware	19711	East
2733	CA-2014-107594	02-07-2014	06-07-2014	Standard Class	EH-13945	Eric Hoffmann	Consumer	United States	Plainfield	New Jersey	7060	East
2493	CA-2014-144624	19-11-2014	23-11-2014	Standard Class	JM-15865	John Murray	Consumer	United States	Jamestown	New York	14701	East
2446	CA-2016-146934	22-05-2016	27-05-2016	Standard Class	AF-10870	Art Ferguson	Consumer	United States	Passaic	New Jersey	7055	East
2441	CA-2016-146934	22-05-2016	27-05-2016	Standard Class	AF-10870	Art Ferguson	Consumer	United States	Passaic	New Jersey	7055	East

1 Measure Table = {" "}

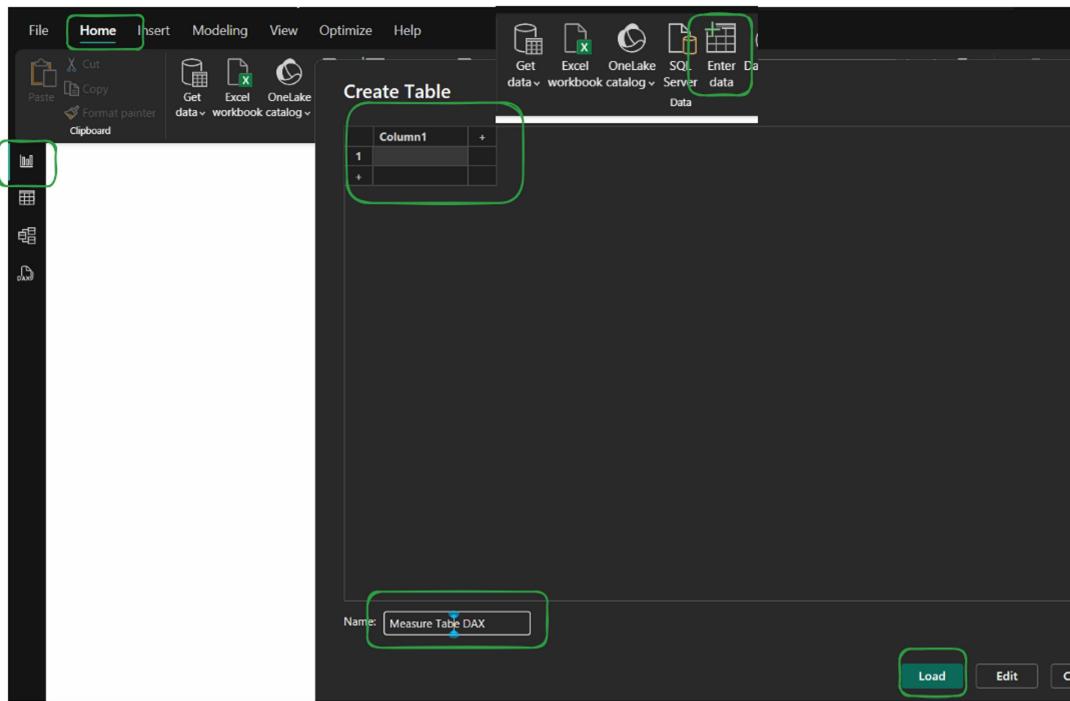
Data

Search

Amazon Orders

Measure Table

Value



Name: Total Sales

Home table: Measure Table

Structure: [Amazon Orders]

Formatting: Currency

Properties: Data category: Uncategorized

Measure Table

Total Sales

\$2.3M

Total Sales

Suggestions

On Arrange data for me

Data

Total Sales

+Add data

1 Total Sales = SUM('Amazon Orders'[Sales])

\$2.3M

Total Sales

1 Total Profit = SUM('Amazon Orders'[Profit])

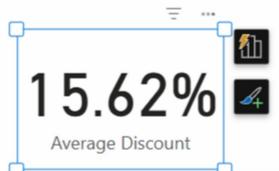
\$286.4K

Total Profit

```
Total Quantity = SUM('Amazon Orders'[Quantity])
```



```
Average Discount = AVERAGE('Amazon Orders'[Discount])
```



Profit Margin %

IFError

```
= DIVIDE(Num,Den,Alt[Resolves Error])
```

Profit Margin % =  
Total Profit / Total Sales

Measure Table

Profit Margin % = DIVIDE([Total Profit], [Total Sales], 0)

5.62%

Average Discount

12.47%

Profit Margin %