DAX Functions in Power BI - IV

Time Intelligence

TotalYTD() -> Cumulative Sum -> Year To Date

DatesYTD()

```
1 TotalYTD Revenue =
2     TOTALYTD(
3         [Revenue],
4         'Calendar Table'[Date]
5     )
```

Change the measures, to create multiple results.

Year	Revenue	TotalYTD Revenue
2012	$14,19,198.15	$14,19,198.15
2013	$21,39,088.35	$21,39,088.35
2014	$22,31,063.90	$22,31,063.90
2015	$14,30,868.61	$14,30,868.61
2016	$9,35,126.94	$9,35,126.94
2017	$1,35,540.84	$1,35,540.84
Total	**$82,90,886.79**	**$1,35,540.84**

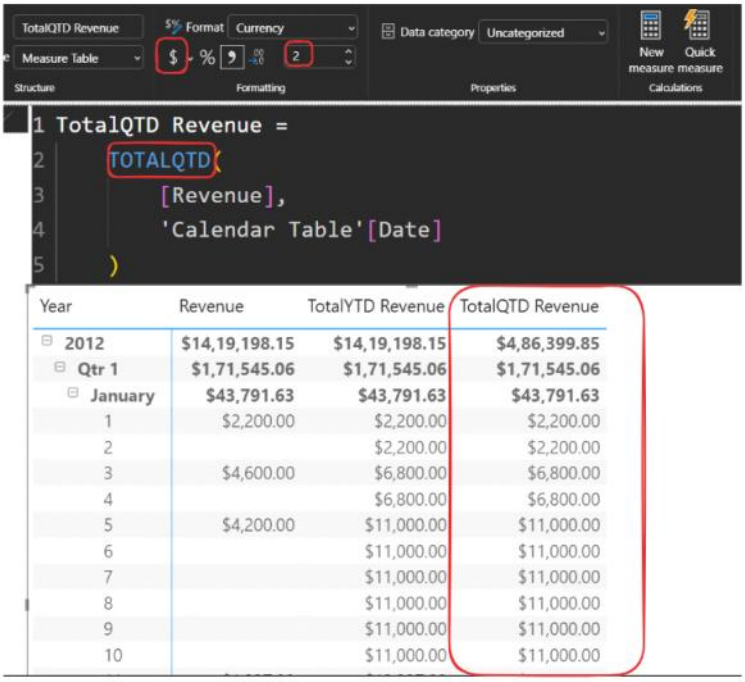
Year	Revenue	TotalYTD Revenue
2012	$14,19,198.15	$14,19,198.15
Qtr 1	$1,71,545.06	$1,71,545.06
January	$43,791.63	$43,791.63
1	$2,200.00	$2,200.00
2		$2,200.00
3	$4,600.00	$6,800.00
4		$6,800.00
5	$4,200.00	$11,000.00
6		$11,000.00
7		$11,000.00
8		$11,000.00
9		$11,000.00
10		$11,000.00
11	$1,237.88	$12,237.88
12		$12,237.88
13	$3,400.00	$15,637.88
14		$15,637.88
15	$5,400.00	$21,037.88
16	$1,958.88	$22,996.76
17		$22,996.76

Year	Revenue	TotalYTD Revenue
18		$22,996.76
19	$5,643.70	$28,640.46
20		$28,640.46
21		$28,640.46
22		$28,640.46
23	$2,700.00	$31,340.46
24		$31,340.46
25	$2,491.86	$33,832.32
26		$33,832.32
27		$33,832.32
28		$33,832.32
29	$5,859.31	$39,691.63
30		$39,691.63
31	$4,100.00	$43,791.63
February	$51,414.89	$95,206.52
1		$43,791.63
2		$43,791.63
3	$6,500.00	$50,291.63
4		$50,291.63
5	$3,000.00	$53,291.63

Year	Revenue	TotalYTD Revenue
19		$13,80,157.14
20	$2,505.61	$13,82,662.75
21	$1,808.40	$13,84,471.15
22		$13,84,471.15
23		$13,84,471.15
24	$7,902.09	$13,92,373.24
25	$1,346.40	$13,93,719.64
26	$5,479.36	$13,99,199.00
27	$6,068.30	$14,05,267.30
28		$14,05,267.30
29	$2,100.00	$14,07,367.30
30	$8,384.34	$14,15,751.64
31	$3,446.51	$14,19,198.15
2013	$21,39,088.35	$21,39,088.35
Qtr 1	$5,02,558.91	$5,02,558.91
January	$1,79,418.39	$1,79,418.39
1	$10,346.99	$10,346.99
2	$16,148.18	$26,495.17
3	$7,200.00	$33,695.17
4	$9,748.82	$43,443.99

Dec

Reset



Year	Revenue	TotalYTD Revenue	TotalQTD Revenue
2012	$14,19,198.15	$14,19,198.15	$4,86,399.85
Qtr 1	$1,71,545.06	$1,71,545.06	$1,71,545.06
January	$43,791.63	$43,791.63	$43,791.63
1	$2,200.00	$2,200.00	$2,200.00
2		$2,200.00	$2,200.00
3	$4,600.00	$6,800.00	$6,800.00
4		$6,800.00	$6,800.00
5	$4,200.00	$11,000.00	$11,000.00
6		$11,000.00	$11,000.00
7		$11,000.00	$11,000.00
8		$11,000.00	$11,000.00
9		$11,000.00	$11,000.00
10		$11,000.00	$11,000.00

Year	Revenue	TotalYTD Revenue	TotalQTD Revenue
2012	$14,19,198.15	$14,19,198.15	$4,86,399.85
Qtr 1	$1,71,545.06	$1,71,545.06	$1,71,545.06
January	$43,791.63	$43,791.63	$43,791.63
1	$2,200.00	$2,200.00	$2,200.00
2		$2,200.00	$2,200.00
3	$4,600.00	$6,800.00	$6,800.00
4		$6,800.00	$6,800.00
5	$4,200.00	$11,000.00	$11,000.00
6		$11,000.00	$11,000.00
7		$11,000.00	$11,000.00
8		$11,000.00	$11,000.00
9		$11,000.00	$11,000.00
10		$11,000.00	$11,000.00
11	$1,237.88	$12,237.88	$12,237.88
12		$12,237.88	$12,237.88
13	$3,400.00	$15,637.88	$15,637.88
14		$15,637.88	$15,637.88
15	$5,400.00	$21,037.88	$21,037.88

Year	Revenue	TotalYTD Revenue	TotalQTD Revenue
29	$5,859.31	$39,691.63	$39,691.63
30		$39,691.63	$39,691.63
31	$4,100.00	$43,791.63	$43,791.63
February	**$51,414.89**	**$95,206.52**	**$95,206.52**
1		$43,791.63	$43,791.63
2		$43,791.63	$43,791.63
3	$6,500.00	$50,291.63	$50,291.63

Year	Revenue	TotalYTD Revenue	TotalQTD Revenue
27	$7,497.60	$1,51,880.81	$1,51,880.81
28	$2,600.00	$1,54,480.81	$1,54,480.81
29	$3,600.00	$1,58,080.81	$1,58,080.81
30	$1,364.25	$1,59,445.06	$1,59,445.06
31	$12,100.00	$1,71,545.06	$1,71,545.06
Qtr 2	**$3,13,680.09**	**$4,85,225.15**	**$3,13,680.09**
April	**$77,575.37**	**$2,49,120.43**	**$77,575.37**
1	$4,068.70	$1,75,613.76	$4,068.70 QTD Reset
2		$1,75,613.76	$4,068.70
3	$8,456.69	$1,84,070.45	$12,525.39
4	$11,550.31	$1,95,620.76	$24,075.70
5	$1,864.80	$1,97,485.56	$25,940.50
6	$3,200.00	$2,00,685.56	$29,140.50
7	$2,116.50	$2,02,802.06	$31,257.00

```
1 TotalMTD Revenue =
2     TOTALMTD(
3         [Revenue],
4         'Calendar Table'[Date]
5     )
```

Year	Revenue	TotalYTD Revenue	TotalQTD Revenue	TotalMTD Revenue
2012	**$14,19,198.15**	**$14,19,198.15**	**$4,86,399.85**	**$1,43,948.47**
Qtr 1	**$1,71,545.06**	**$1,71,545.06**	**$1,71,545.06**	**$76,338.54**
January	**$43,791.63**	**$43,791.63**	**$43,791.63**	**$43,791.63**
1	$2,200.00	$2,200.00	$2,200.00	$2,200.00
2		$2,200.00	$2,200.00	$2,200.00
3	$4,600.00	$6,800.00	$6,800.00	$6,800.00
4		$6,800.00	$6,800.00	$6,800.00
5	$4,200.00	$11,000.00	$11,000.00	$11,000.00
6		$11,000.00	$11,000.00	$11,000.00
7		$11,000.00	$11,000.00	$11,000.00
8		$11,000.00	$11,000.00	$11,000.00
9		$11,000.00	$11,000.00	$11,000.00
10		$11,000.00	$11,000.00	$11,000.00

Year	Revenue	TotalYTD Revenue	TotalQTD Revenue	TotalMTD Revenue	
28		$33,832.32	$33,832.32	$33,832.32	
29	$5,859.31	$39,691.63	$39,691.63	$39,691.63	
30		$39,691.63	$39,691.63	$39,691.63	
31	$4,100.00	$43,791.63	$43,791.63	$43,791.63	1st Month
February	**$51,414.89**	**$95,206.52**	**$95,206.52**	**$51,414.89**	
1		$43,791.63	$43,791.63		
2		$43,791.63	$43,791.63		
3	$6,500.00	$50,291.63	$50,291.63	$6,500.00	MTD Reset
4		$50,291.63	$50,291.63	$6,500.00	

DATESYTD() , DATESQTD(), DATESMTD()

Calculate()

Filter Parameter

```
DATESYTD QuantitySold =
    CALCULATE(
        [Quantity Sold],
        DATESYTD('Calendar Table'[Date])
    )
```

```
DATESQTD Quantity Sold =
    CALCULATE(
        [Quantity Sold],
        DATESQTD('Calendar Table'[Date])
    )
```

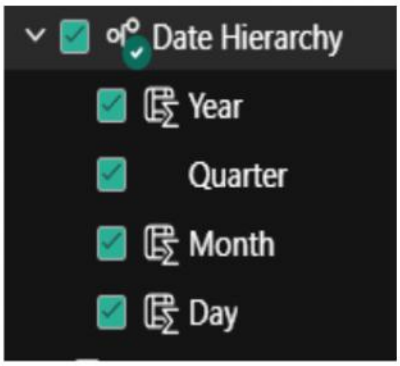
```
DATESMTD Quantity Sold =
    CALCULATE(
        [Quantity Sold],
        DATESMTD(
            'Calendar Table'[Date])
    )
```

Year	Quantity Sold	DATESYTD QuantitySold	DATESQTD Quantity Sold	DATESMTD Quantity Sold
2012	16567	16567	5732	1658
Qtr 1	1929	1929	1929	824
January	501	501	501	501
February	604	1105	1105	604
March	824	1929	1929	824
Qtr 2	3628	5557	3628	1532
April	952	2881	952	952
May	1144	4025	2096	1144
June	1532	5557	3628	1532
Qtr 3	5278	10835	5278	1853
Qtr 4	5732	16567	5732	1658
October	2024	12859	2024	2024
November	2050	14909	4074	2050
December	1658	16567	5732	1658
2013	25629	25629	7663	2699
Qtr 1	6158	6158	6158	1937
January	2216	2216	2216	2216
1	112	112	112	112
2	185	297	297	297
3	72	369	369	369
4	107	476	476	476

DATESINPERIOD() → Running Sum / Sliding Window having 3 fixed sized window

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

- Calculate the number of vehicle orders from the last 3 months




```
DATESINPERIOD(Dates, StartDate,
NumberOfIntervals, Interval)
```

Returns the dates from the given period.

```
Orders in Last 3 Months =
    CALCULATE(
        COUNTROWS('VehicleOrders'),
        DATESINPERIOD(
            'Calendar Table'[Date],
            MAX('Calendar Table'[Date]),
            -3,
            MONTH
))
```

Year	Count of ORDERNUMBER	Orders in Last 3 Months
2012	477	167
Qtr 1	55	55
January	15	15
1	1	1
2		1
3	1	2
4		2
5	1	3
6		3
7		3
8		3
9		3
10		3
11	1	4
12		4
13	1	5
14		5
15	2	7
16	1	8

Year	Count of ORDERNUMBER	Orders in Last 3 Months
2012	477	167
Qtr 1	55	55
Qtr 2	106	106
April	29	69
1	1	55
2		55
3	3	57
4	4	61
5	1	61
6	1	62
7	1	63
8	2	65
9		65
10	1	66
11		65
12		65
13	1	65
14	1	66
15		64

Calculate the last 90 days revenues using DatesinPeriod

DATESBETWEEN()

```
DATESBETWEEN(Dates, StartDate, EndDate)
```

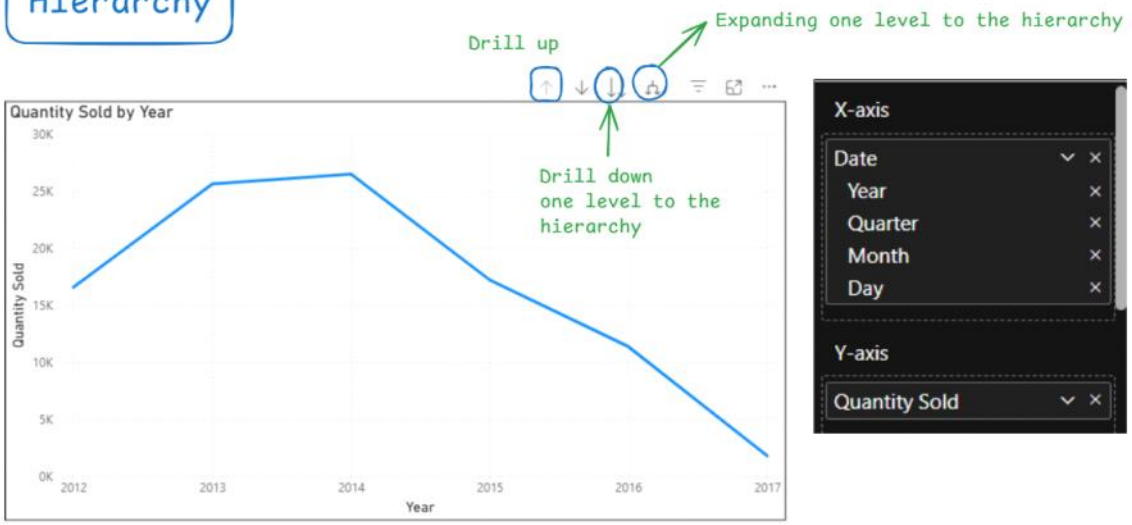
Returns the dates between two given dates.

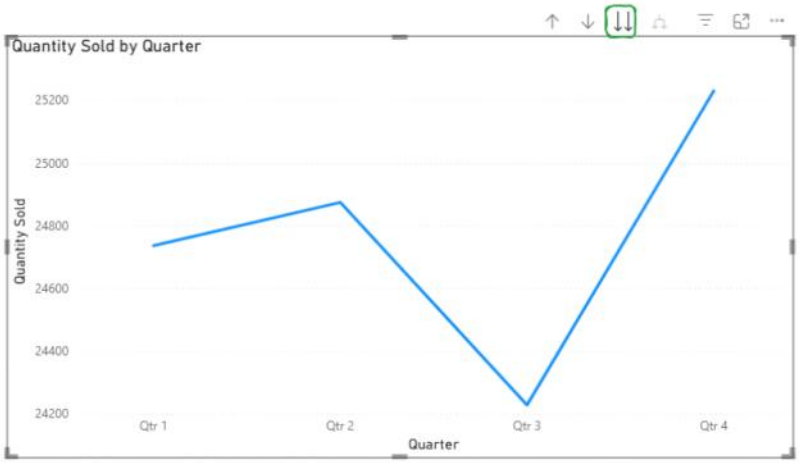
```
Total Orders on Qtr1 2012(F.Y) =
CALCULATE(
    COUNTROWS(VehicleOrders),
    DATESBETWEEN(
        'Calendar Table'[Date],
        DATE(2012,04,01),
        DATE(2012,06,30)))
```

106

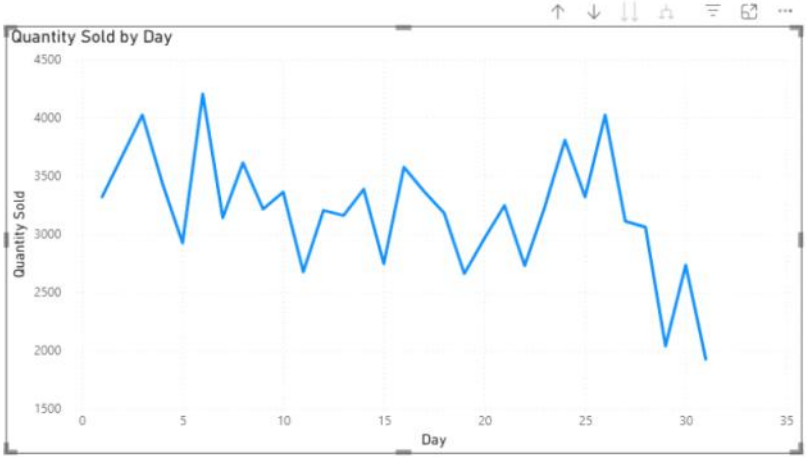
Total Orders on Qtr1 2012(F.Y)

Hierarchy

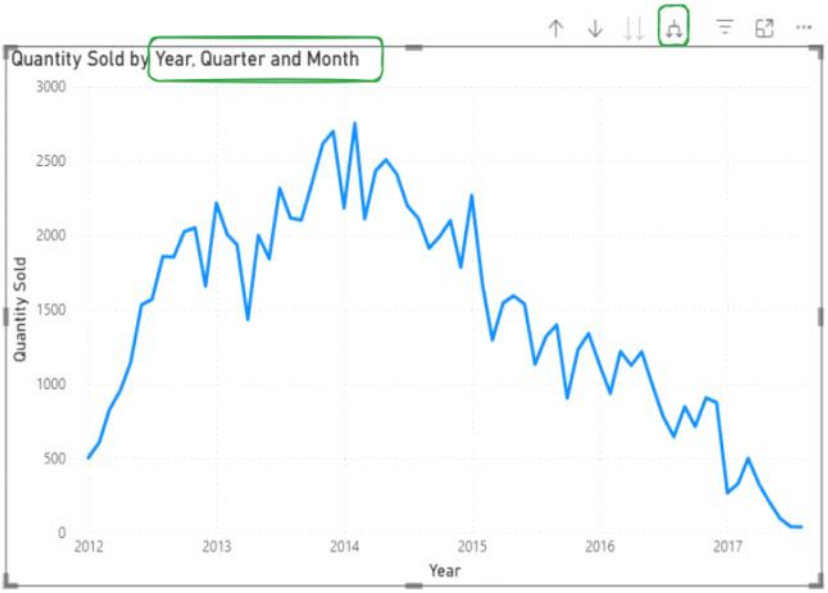

Drill up
Expanding one level to the hierarchy
Drill down one level to the hierarchy
Quantity Sold by Year
Quantity Sold
30K
25K
20K
15K
10K
5K
0K
2012
2013
2014
2015
2016
2017
Year
X-axis
Date
Year
Quarter
Month
Day
Y-axis
Quantity Sold

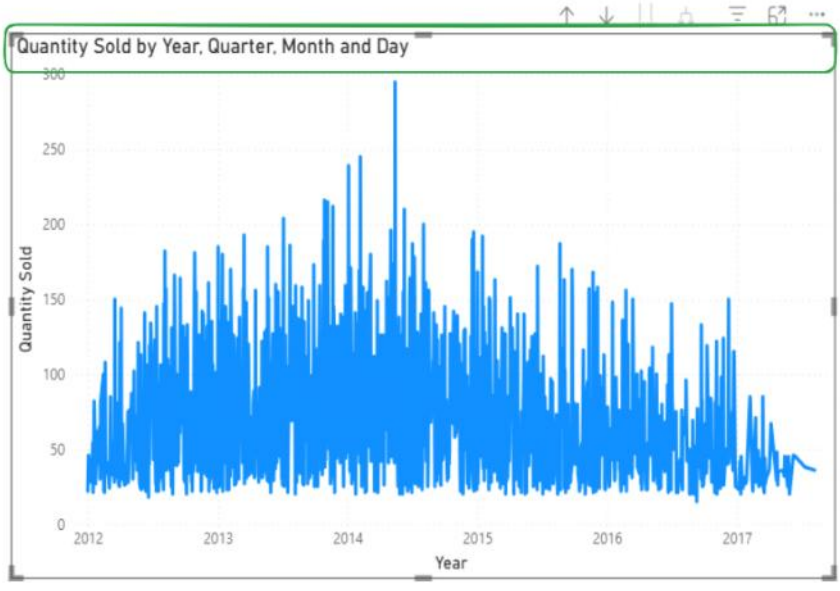

Quantity Sold by Quarter
Quantity Sold
25200
25000
24800
24600
24400
24200
Qtr 1
Qtr 2
Qtr 3
Qtr 4
Quarter

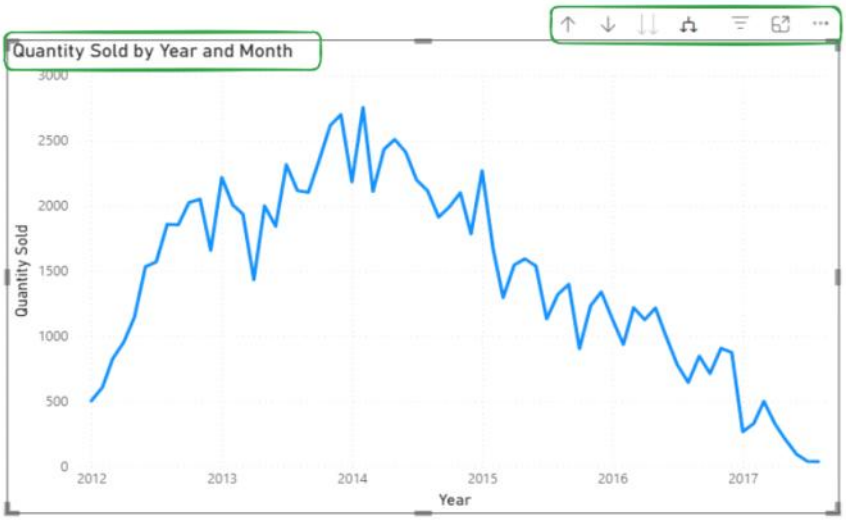
Quantity Sold by Month
Quantity Sold
8800
8600
8400
8200
8000
7800
January
February
March
April
May
June
July
August
September
October
November
December
Month

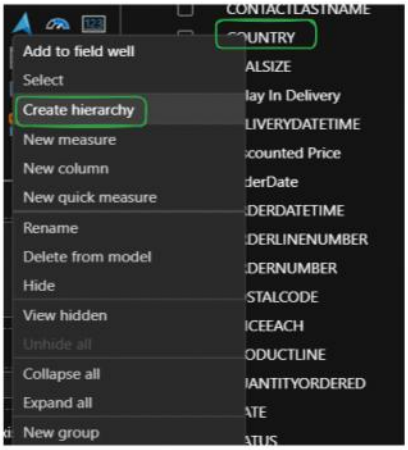

Quantity Sold by Day
Quantity Sold
4500
4000
3500
3000
2500
2000
1500
0
5
10
15
20
25
30
35
Day

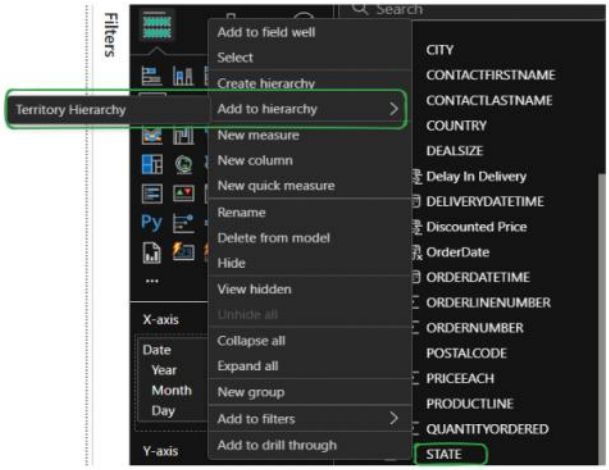
Quantity Sold by Year and Quarter
8K
6K
4K
2K
0K
Quantity Sold
2012
2013
2014
2015
2016
2017
Year


Quantity Sold by Year, Quarter and Month
3000
2500
2000
1500
1000
500
0
Quantity Sold
2012
2013
2014
2015
2016
2017
Year


Quantity Sold by Year, Quarter, Month and Day
300
250
200
150
100
50
0
Quantity Sold
2012
2013
2014
2015
2016
2017
Year

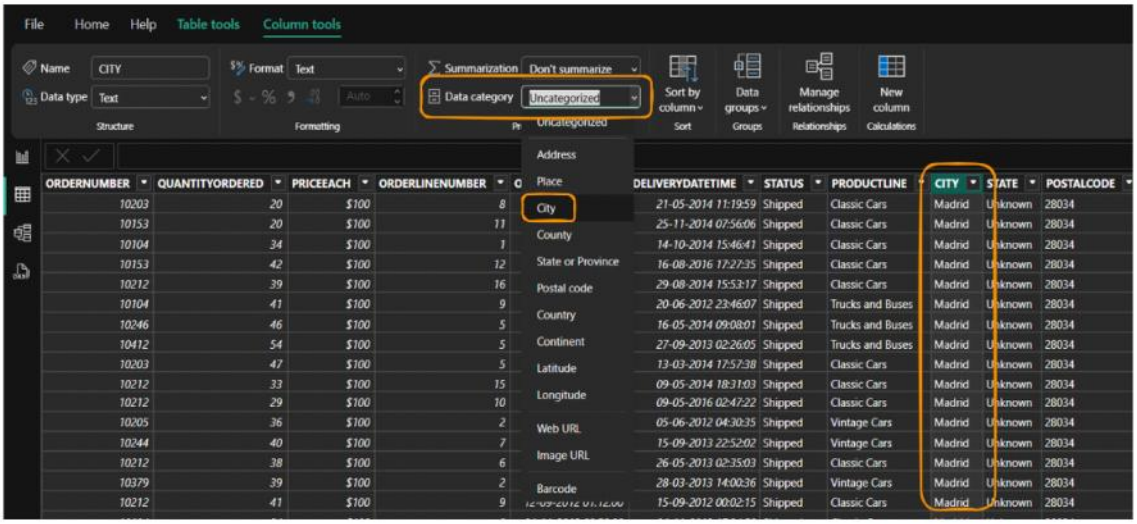


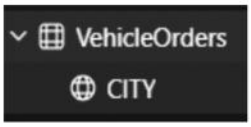


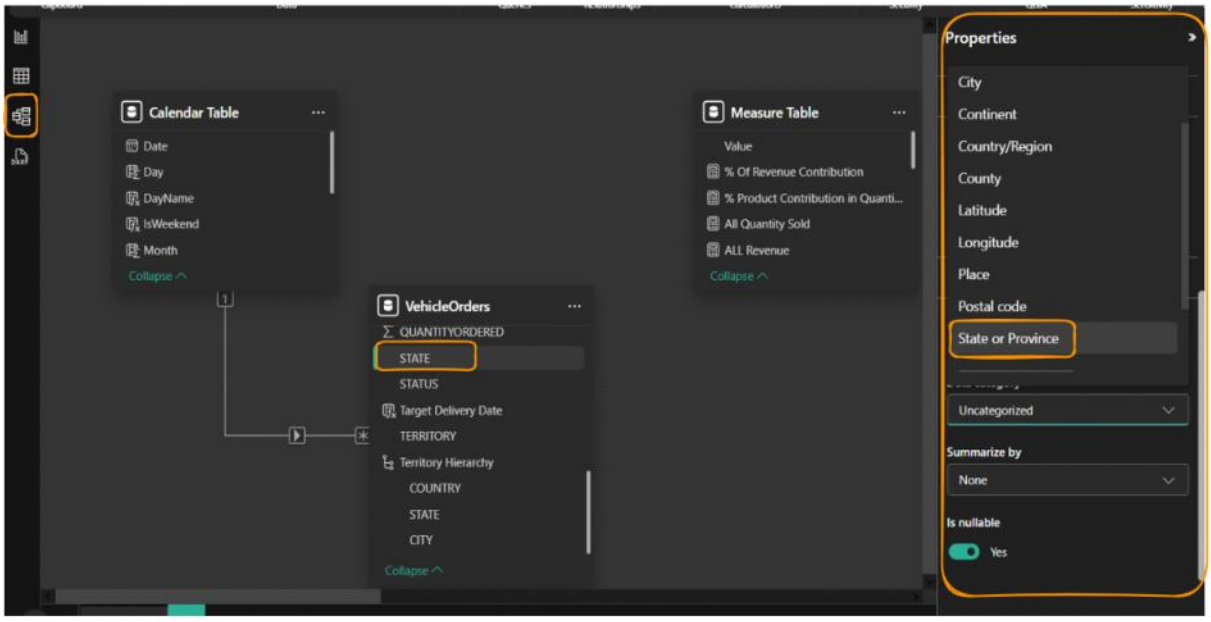


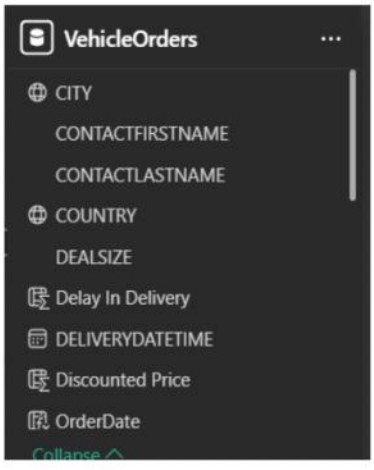
COUNTRY	Revenue	Quantity Sold
Australia	**$5,21,598.46**	**6246**
NSW	**$2,54,483.79**	**3070**
Chatswood	$1,33,223.38	1601
North Sydney	$1,21,260.41	1469
Queensland	**$46,399.18**	**545**
South Brisbane	$46,399.18	545
Victoria	**$2,20,715.49**	**2631**
Glen Waverly	$56,139.62	705
Melbourne	$1,64,575.87	1926
Austria	**$1,72,793.05**	**1974**
Unknown	**$1,72,793.05**	**1974**
Graz	$46,505.20	532
Salzburg	$1,26,287.85	1442
Belgium	**$94,528.88**	**1074**
Unknown	**$94,528.88**	**1074**
Bruxelles	$68,568.18	796
Total	**$82,90,886.79**	**99067**

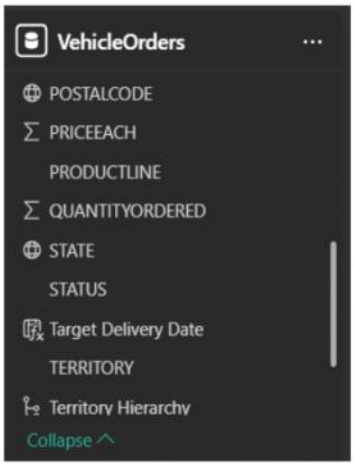
DATA Category

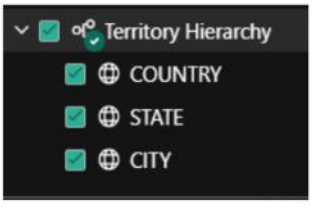




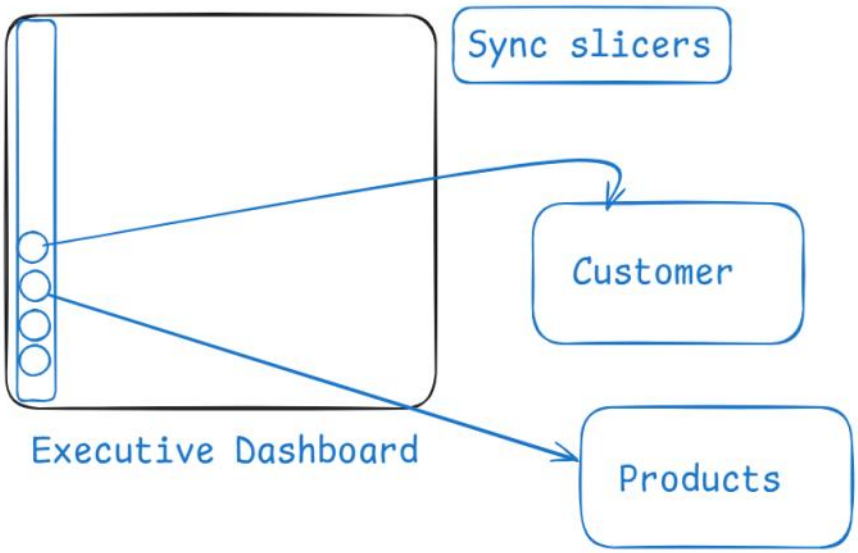
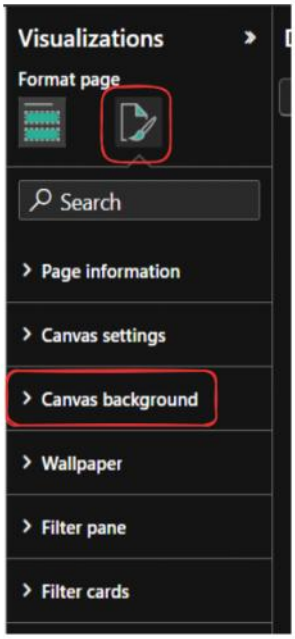








Report



1. Follow the brand theme in your dashboard.