

Creating Visualizations – Column and Line Chart (Year-Over-Year Profits %)

Report Requirements

Data and Visualizations:

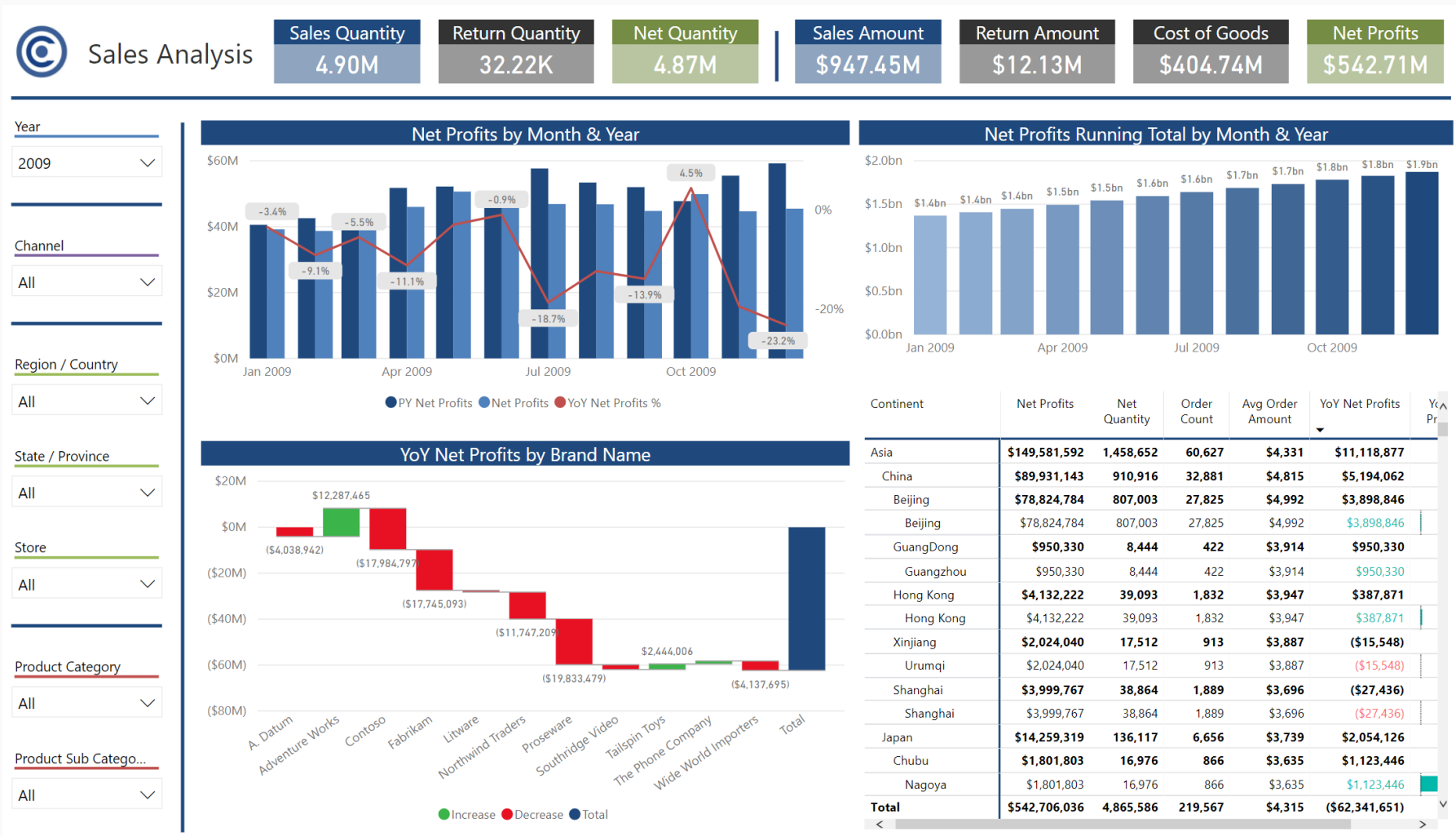
- Net Profit and Net Quantity Breakdowns
- Year-Over-Year Net Profits Comparison by Month
- Net Profit Historical Running Total
- Year-Over-Year Profits by Product Brand

Order Details Table:

- Geography Information
- Net Profits
- Net Quantity
- Order Count
- Average Order Amount
- Year-Over-Year Net Profits
- Year-Over-Year Net Profits %

Report Filters:

- Year Filter
- Channel Filter
- Geography and Store Filters
- Product Filters



Report Requirements

Data and Visualizations:

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- ➔ Year-Over-Year Net Profits Comparison by Month
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Order Details Table:

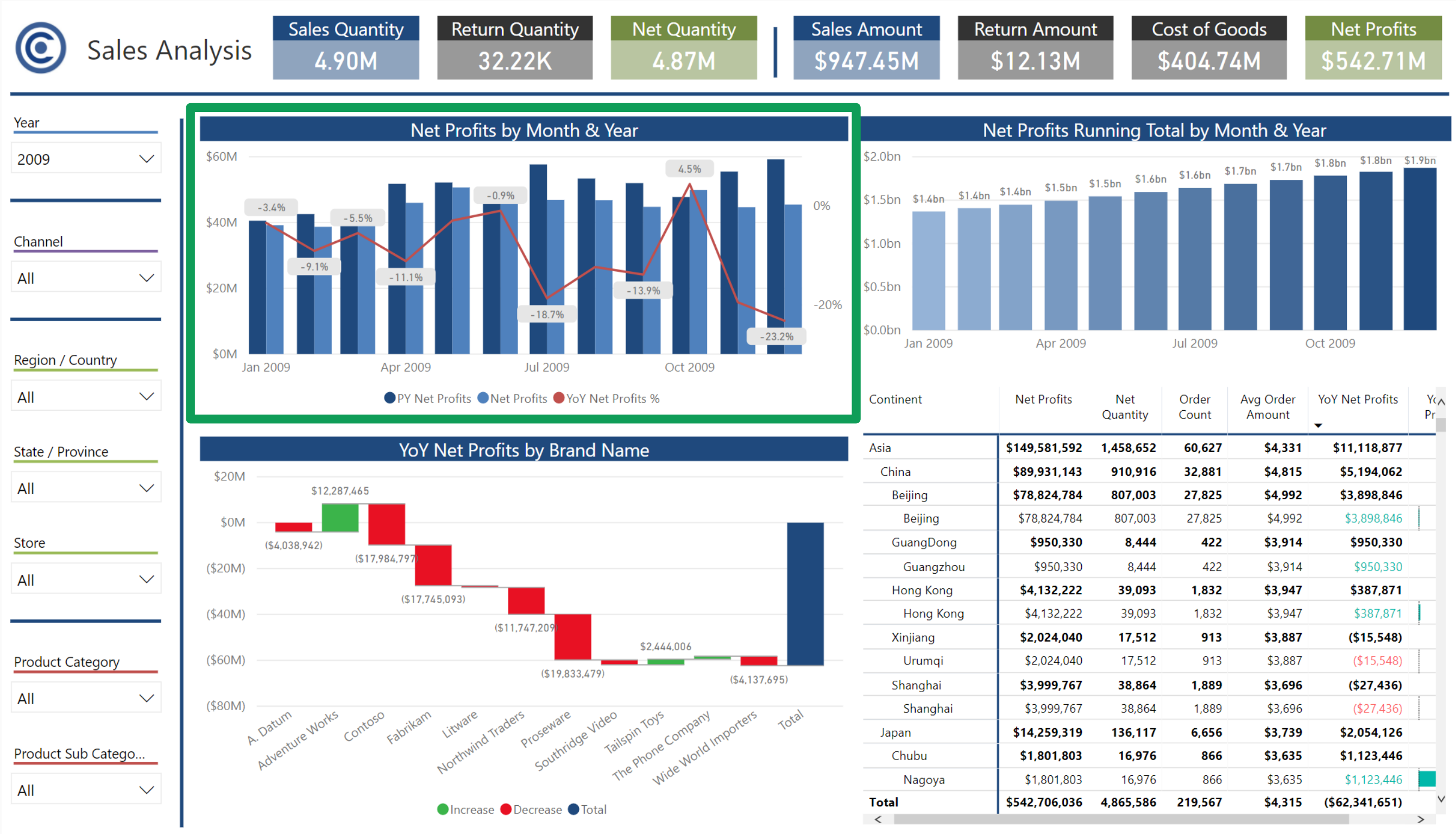
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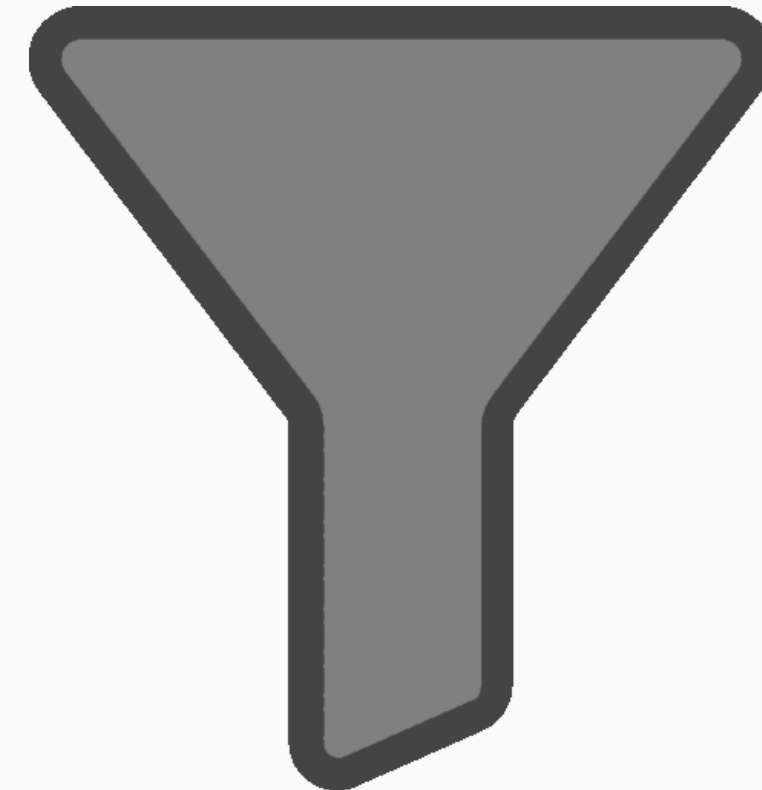
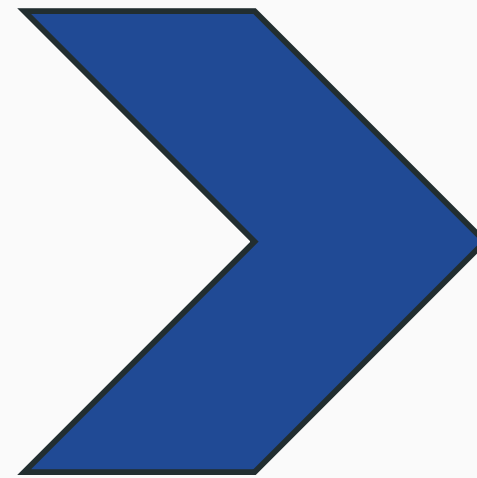
Report Requirements



CALCULATE Function in DAX

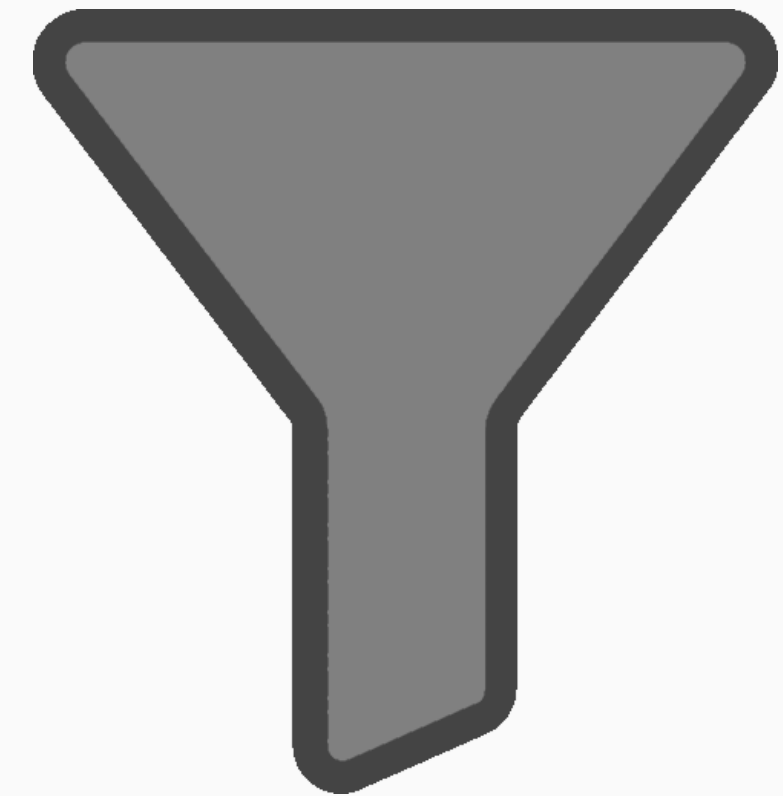


DAX
ENGINE



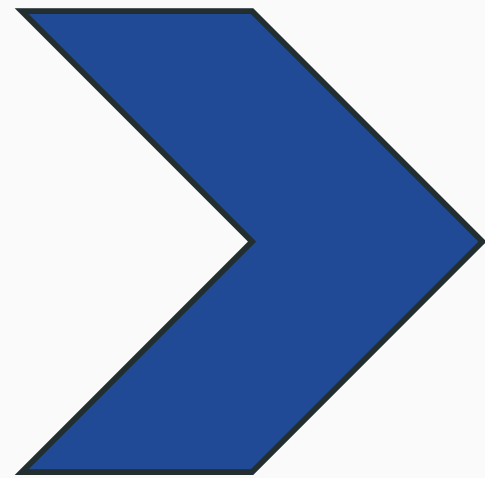
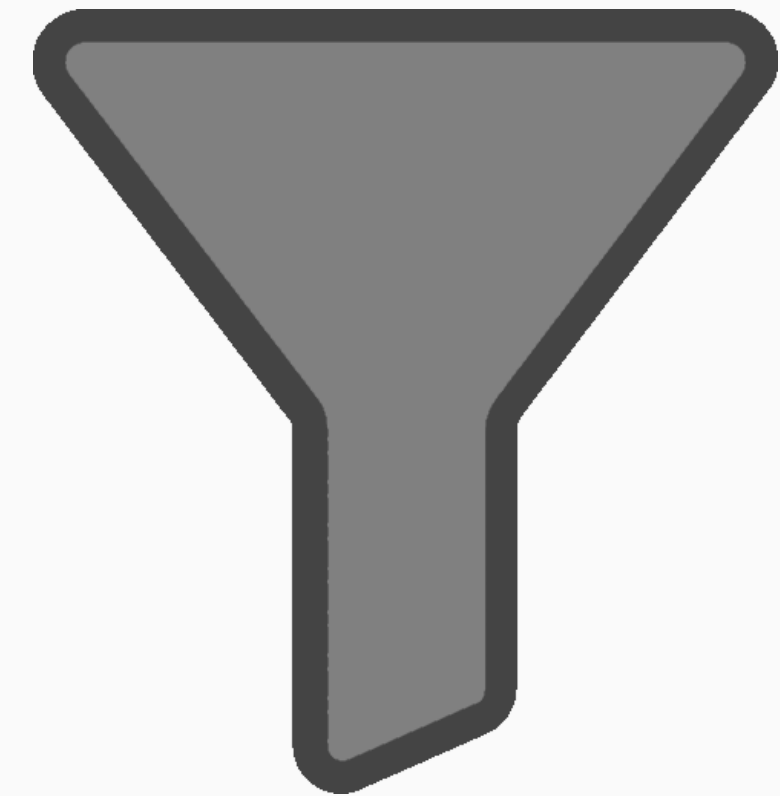
FILTER
DATA

CALCULATE Function in DAX



FILTER
DATA

CALCULATE Function in DAX

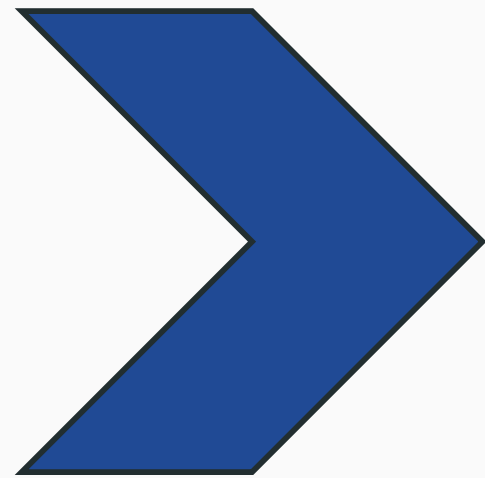
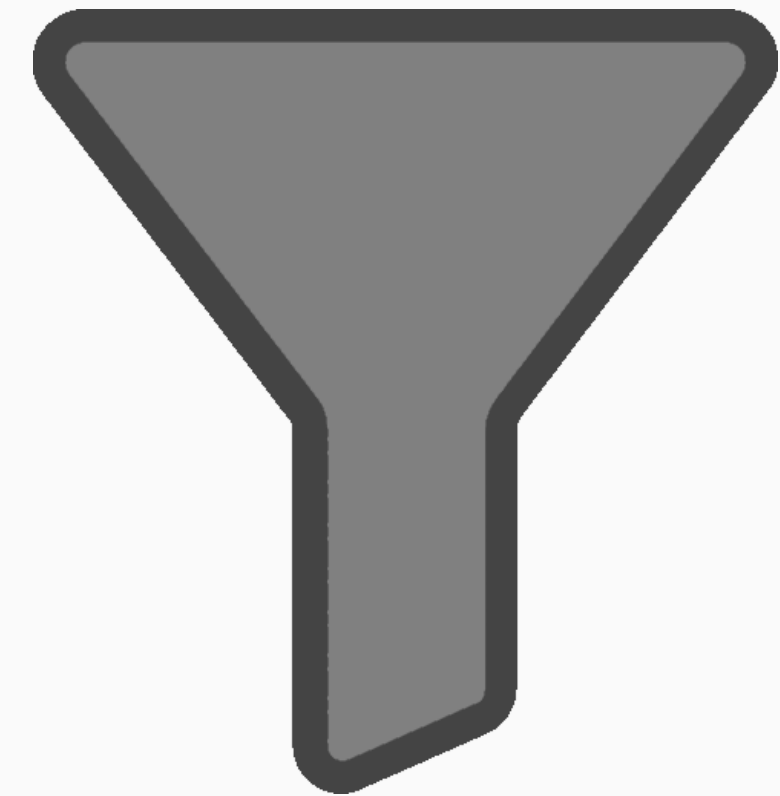


fx

FILTER
DATA

CALCULATE

CALCULATE Function in DAX

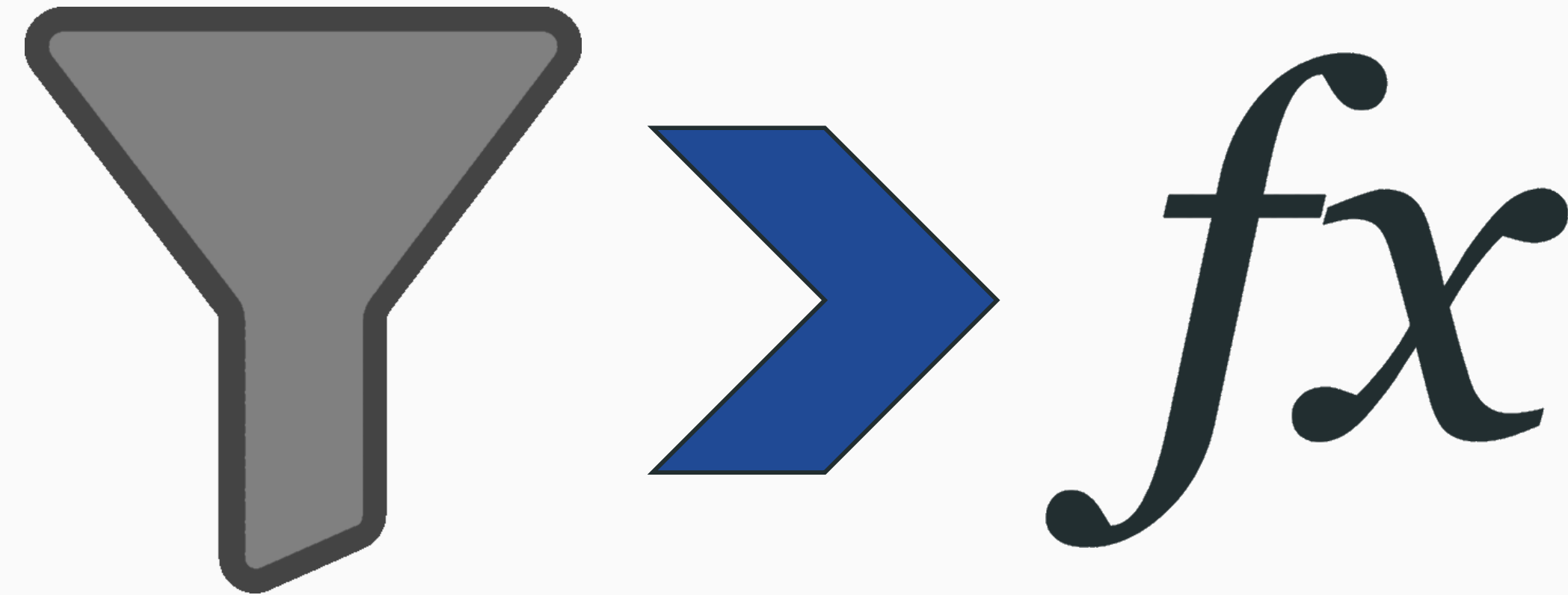


fx

FILTER
DATA

CALCULATE
(Add, Remove,
Modify Filters)

CALCULATE Function in DAX

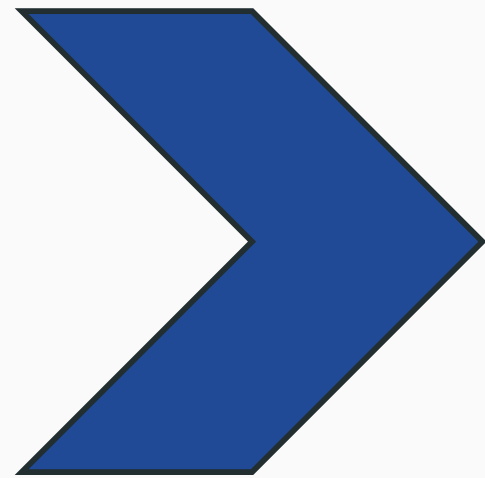
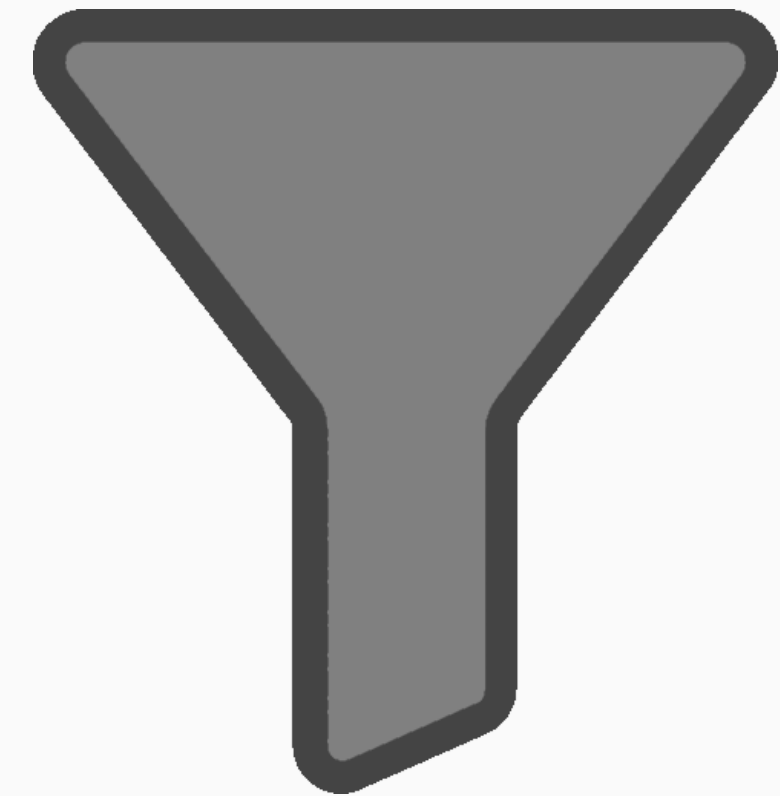


FILTER
DATA

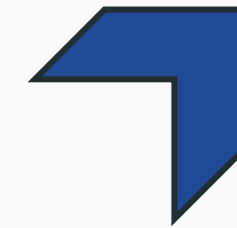
CALCULATE
(Add, Remove,
Modify Filters)

FILTER
EXAMPLES

CALCULATE Function in DAX



fx



Add Filters

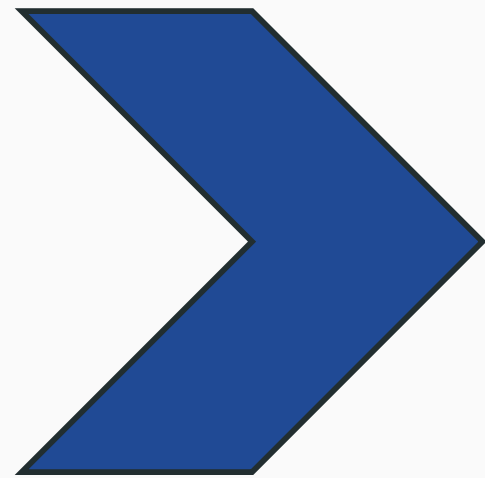
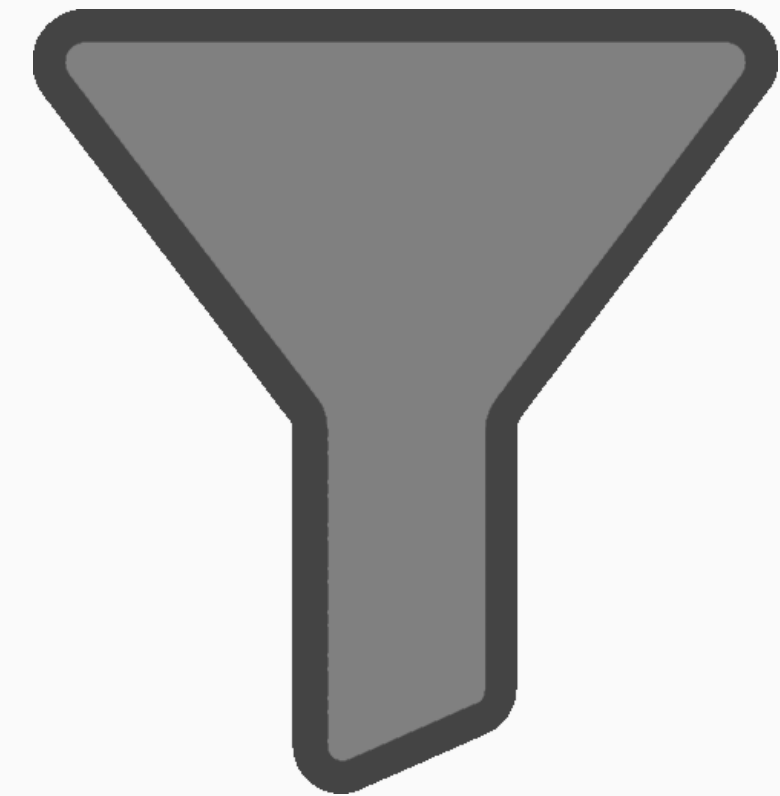
CALCULATE([Net Profits],
Product[Category] = "Audio")

FILTER
DATA

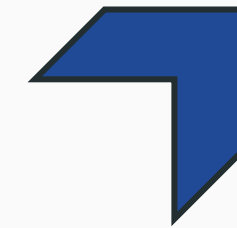
CALCULATE
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FILTER
EXAMPLES

CALCULATE Function in DAX

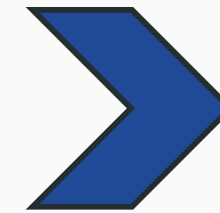


fx



Add Filters

CALCULATE([Net Profits],
Product[Category] = "Audio")



Remove Filters

CALCULATE([Net Profits],
Product[Category] <> "Audio")

FILTER
DATA

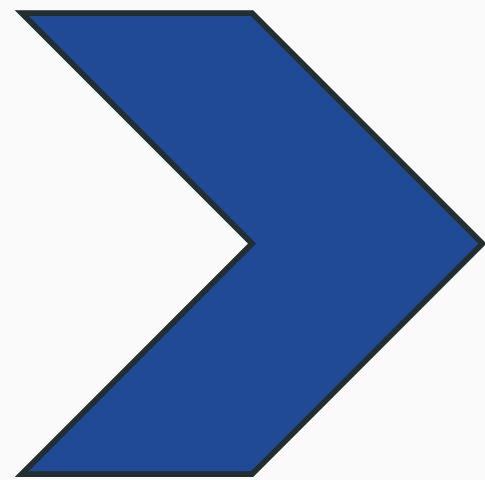
CALCULATE
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FILTER
EXAMPLES

CALCULATE Function in DAX

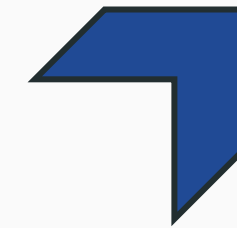


FILTER
DATA



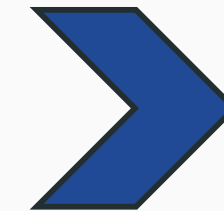
fx

CALCULATE
(Add, Remove,
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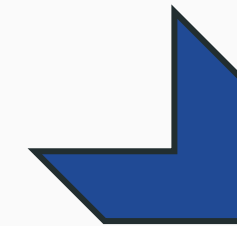
Add Filters

CALCULATE([Net Profits],
Product[Category] = "Audio")



Remove Filters

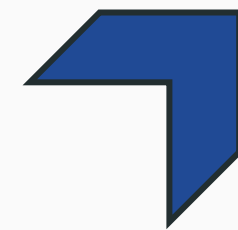
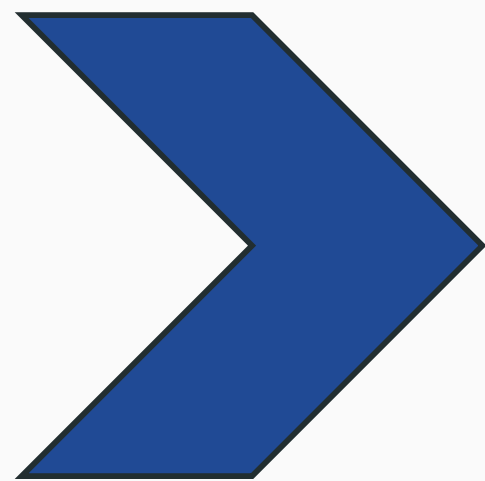
CALCULATE([Net Profits],
Product[Category] <> "Audio")



Modify Filters

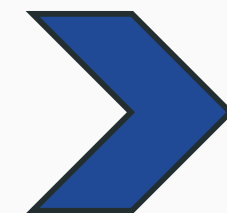
FILTER
EXAMPLES

CALCULATE Function in DAX



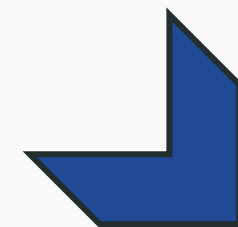
Add Filters

`CALCULATE([Net Profits],
Product[Category] = "Audio")`



Remove Filters

`CALCULATE([Net Profits],
Product[Category] <> "Audio")`



Modify Filters

`CALCULATE([Net Profits],
DATEADD(Calendar[Date], -1, YEAR))`

FILTER
DATA

CALCULATE
(Add, Remove,
Modify Filters)

FILTER
EXAMPLES

CALCULATE Function in DAX

Add Filters

```
CALCULATE([Net Profits],  
Product[Category] = "Audio")
```

Remove Filters

```
CALCULATE([Net Profits],  
Product[Category] <> "Audio")
```

Modify Filters

```
CALCULATE([Net Profits],  
DATEADD(Calendar[Date], -1, YEAR ) )
```

FILTER EXAMPLES

CALCULATE Function in DAX

Add Filters

CALCULATE([Net Profits],
Product[Category] = "Audio")

Remove Filters

CALCULATE([Net Profits],
Product[Category] <> "Audio")

Modify Filters

CALCULATE([Net Profits],
DATEADD(Calendar[Date], -1, YEAR))

FILTER EXAMPLES

Net Profits by Month & Year				
Month & Year	Net Profits	Audio Profits	Non-Audio Profits	PY Profits
▲				
January 2008	\$40,554,761	\$296,808	\$40,257,953	\$47,962,217
February 2008	\$42,571,957	\$349,071	\$42,222,885	\$51,169,624
March 2008	\$41,861,004	\$363,872	\$41,497,132	\$47,682,826
April 2008	\$51,772,335	\$390,557	\$51,381,778	\$63,757,387
May 2008	\$52,185,632	\$443,691	\$51,741,940	\$68,504,776
June 2008	\$50,572,166	\$629,126	\$49,943,040	\$65,556,587
July 2008	\$57,670,765	\$756,168	\$56,914,597	\$62,155,707
August 2008	\$53,399,636	\$837,575	\$52,562,061	\$60,273,776
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October 2008	\$47,748,373	\$799,927	\$46,948,445	\$64,465,249
November 2008	\$55,485,353	\$949,310	\$54,536,043	\$67,986,862
December 2008	\$59,228,853	\$889,873	\$58,338,980	\$66,555,882
January 2009	\$39,177,500	\$661,236	\$38,516,264	\$40,554,761
Total	\$644,225,187	\$8,253,293	\$635,971,895	\$765,430,037

CALCULATE Function in DAX

Add Filters

```
CALCULATE([Net Profits],  
Product[Category] = "Audio")
```

Remove Filters

```
CALCULATE([Net Profits],  
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```

Modify Filters

```
CALCULATE([Net Profits],  
DATEADD(Calendar[Date], -1, YEAR ) )
```

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DATEADD(Calendar[Date], -1, YEAR))

FILTER EXAMPLES

Net Profits by Month & Year				
Month & Year	Net Profits	Audio Profits	Non-Audio Profits	PY Profits
January 2008	\$40,554,761	\$296,808	\$40,257,953	\$47,962,217
February 2008	\$42,571,957	\$349,071	\$42,222,885	\$51,169,624
March 2008	\$41,861,004	\$363,872	\$41,497,132	\$47,682,826
April 2008	\$51,772,335	\$390,557	\$51,381,778	\$63,757,387
May 2008	\$52,185,632	\$443,691	\$51,741,940	\$68,504,776
June 2008	\$50,572,166	\$629,126	\$49,943,040	\$65,556,587
July 2008	\$57,670,765	\$756,168	\$56,914,597	\$62,155,707
August 2008	\$53,399,636	\$837,575	\$52,562,061	\$60,273,776
September 2008	\$51,996,855	\$886,078	\$51,110,777	\$58,804,385
October 2008	\$47,748,373	\$799,927	\$46,948,445	\$64,465,249
November 2008	\$55,485,353	\$949,310	\$54,536,043	\$67,986,862
December 2008	\$59,228,853	\$889,873	\$58,338,980	\$66,555,882
January 2009	\$39,177,500	\$661,236	\$38,516,264	\$40,554,761
Total	\$644,225,187	\$8,253,293	\$635,971,895	\$765,430,037

Creating Visualizations – Conditional Formatting and Waterfall Charts

Next Video