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LEARNING TRACK :Data Analytics collaboration with IBM Cognos
Branch :- VIT-AP(Amaravati)

Assignment-4

Challenges: -

Create any calculation expressions like basic and lod from tableau. Here we are using Global Superstore table.

Using Basic Calculations:

1)

Pages

Filters

Marks

Automatic

Color

Size

Text

Detail

Tooltip

AGG(Profitable...)

SUM(Profit)

Columns

YEAR(Order Date)

Rows

Category

Sub-Category

basic calculations

		Order Date			
		2014	2015	2016	2017
Furniture	Bookcases	-346	-2,755	212	-584
	Chairs	6,955	6,228	5,763	7,644
	Furnishings	1,973	3,052	3,935	4,099
	Tables	-3,124	-3,510	-2,951	-8,141
Office Supplies	Appliances	2,459	2,512	5,301	7,865
	Art	1,407	1,485	1,414	2,222
	Binders	4,740	7,597	10,216	7,670
	Envelopes	1,495	1,960	2,067	1,442
	Fasteners	179	172	294	305
	Labels	1,286	1,323	1,193	1,745
	Paper	6,371	6,570	9,072	12,041
	Storage	4,166	3,505	6,204	7,403
	Supplies	490	-25	-699	-955
Technology	Accessories	6,403	10,197	9,664	15,672
	Copiers	2,913	9,930	17,743	25,032
	Machines	369	2,977	2,907	-2,869
	Phones	11,808	10,399	9,460	12,849

Profitable or not

×

```
IF SUM([Profit])>5000
THEN 'Profitable'
ELSE 'Not Profitable'
END
```

The calculation is valid. 1 Dependency

Apply

OK

All

Search

ABS

ACOS

AND

AREA

ASCII

ASIN

ATAN

ATAN2

ATTR

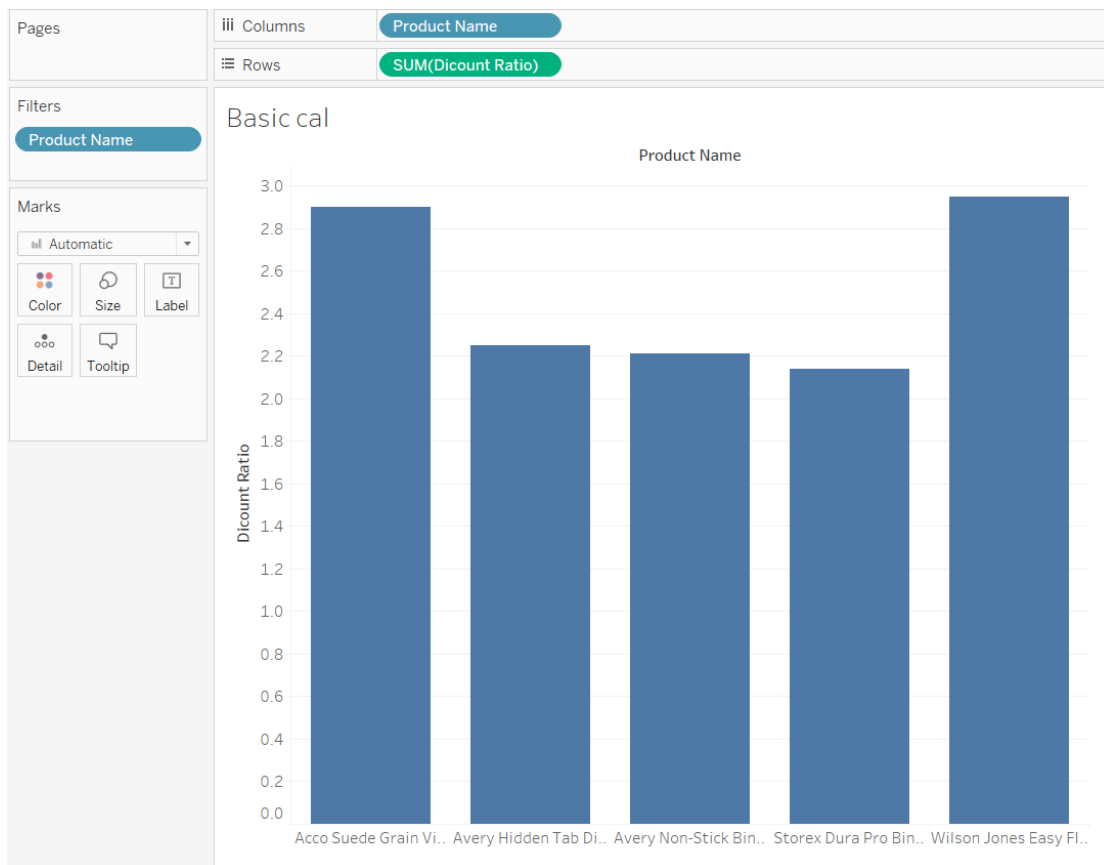
AVG

ABS (number)

Returns the absolute value of the given number.

Example: $ABS(-7) = 7$

2)



Dicount Ratio

`IIF([Sales] != 0, [Discount] / [Sales], 0)`

The calculation is valid. 2 Dependencies

Apply OK

All

Search

ABS
ACOS
AND
AREA
ASCII
ASIN
ATAN
ATAN2
ATTR
AVG

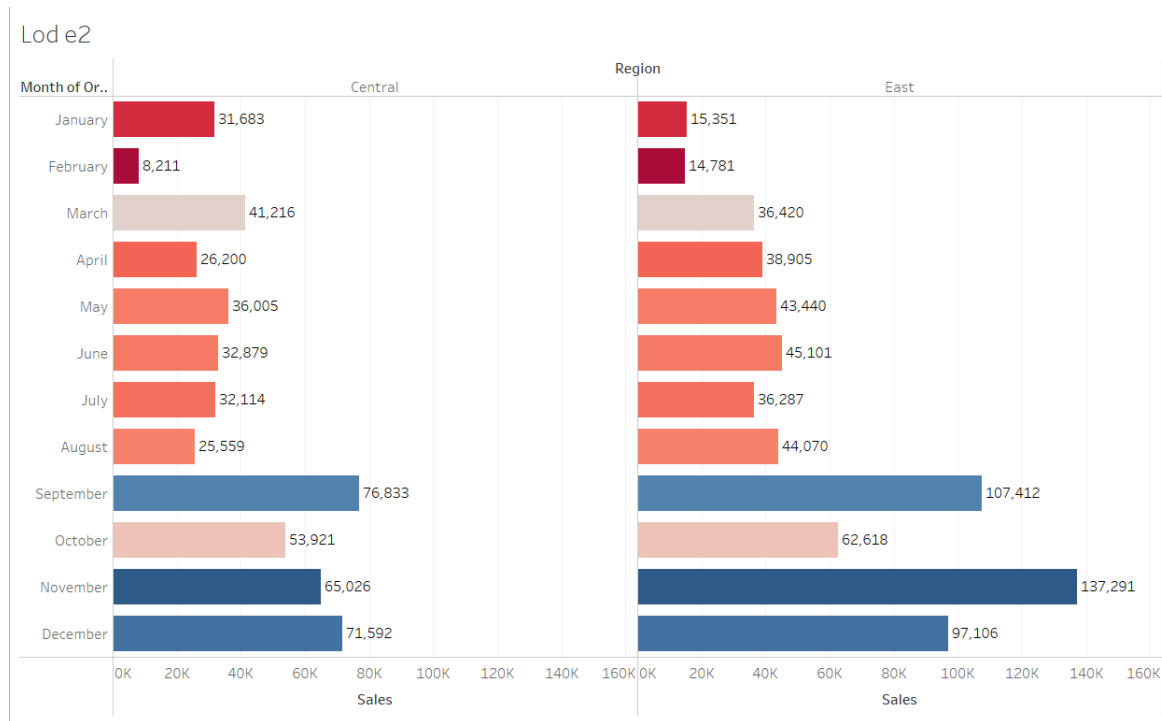
ABS(number)

Returns the absolute value of the given number.

Example: $ABS(-7) = 7$

Using LOD Expressions:

1)



Exclude123

```
{EXCLUDE [Order Date (Month / Year)]:  
AVG({ FIXED [Order Date (Month / Year)]:SUM([Sales])
```

The calculation is valid. 3 Dependencies ▾ Apply OK

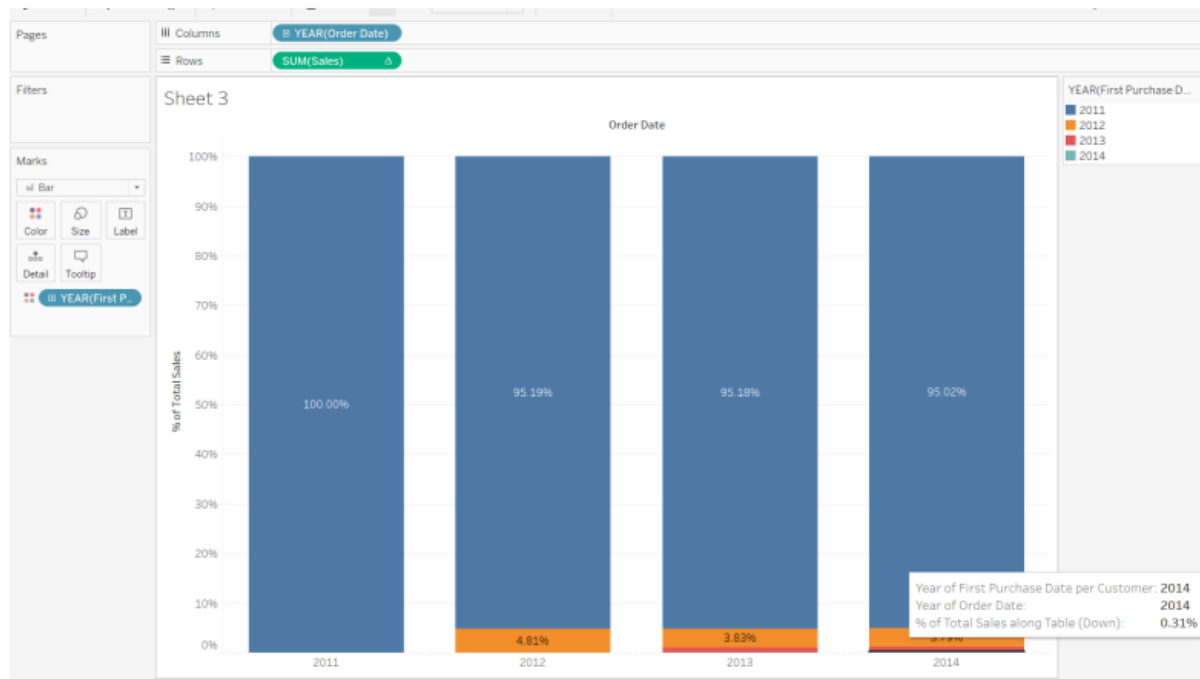
All ▾

Search

ABS
ACOS
AND
AREA
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AVG

ABS (number)
Returns the absolute value of the given number.
Example: ABS(-7) = 7

2)



JSTOMER Acqation date

{FIXED [Customer ID]:MIN([Order Date])}

The calculation is valid. 1 Dependency

Apply OK

All

Search

ABS
ACOS
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AREA
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ABS (number)

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Example: $ABS(-7) = 7$