

DT/NT : DATA SCIENCE
LESSON : TABLEAU
**SUBJECT: DATA AGGREGATION
& CALCULATION**

BATCH: 223

25.09.2023



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Tableau - 4

Data Aggregation ve Calculated Fields

Color Psychology in Marketing

Renkelrin Psikolojik etkileri Makale

Tableau sayfasından bir makale

Akademik makale

Storytelling with Color

Tableau Public Dashboard Örnekleri - 1

Tableau Public Dashboard Örnekleri - 2

Data Setleri

Andy Kribel Data Setleri

Data Setleri Makale -1

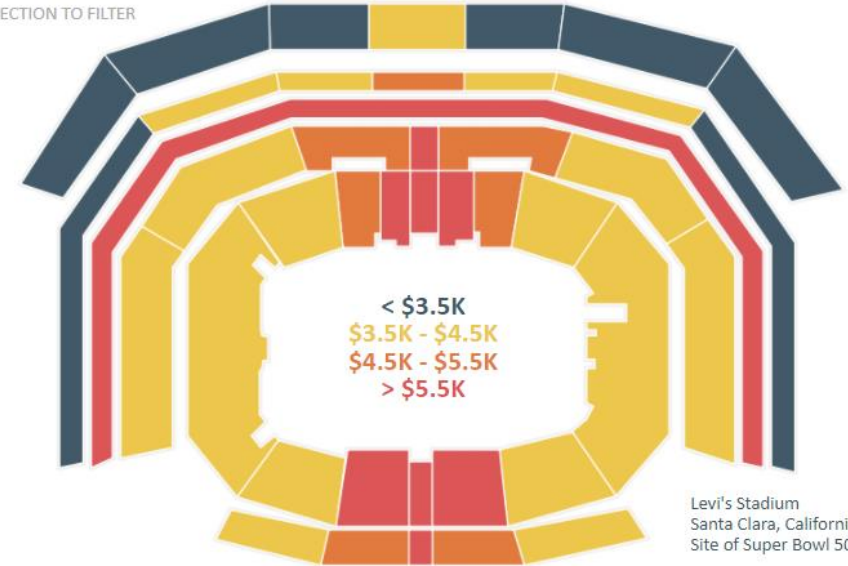
Data Setleri Makale -2

The Cost of Attending Super Bowl 50

A visualization of the lowest ticket price per section

Data Source: StubHub.com
Data Designer: RyanSleeper.com

CLICK A SECTION TO FILTER

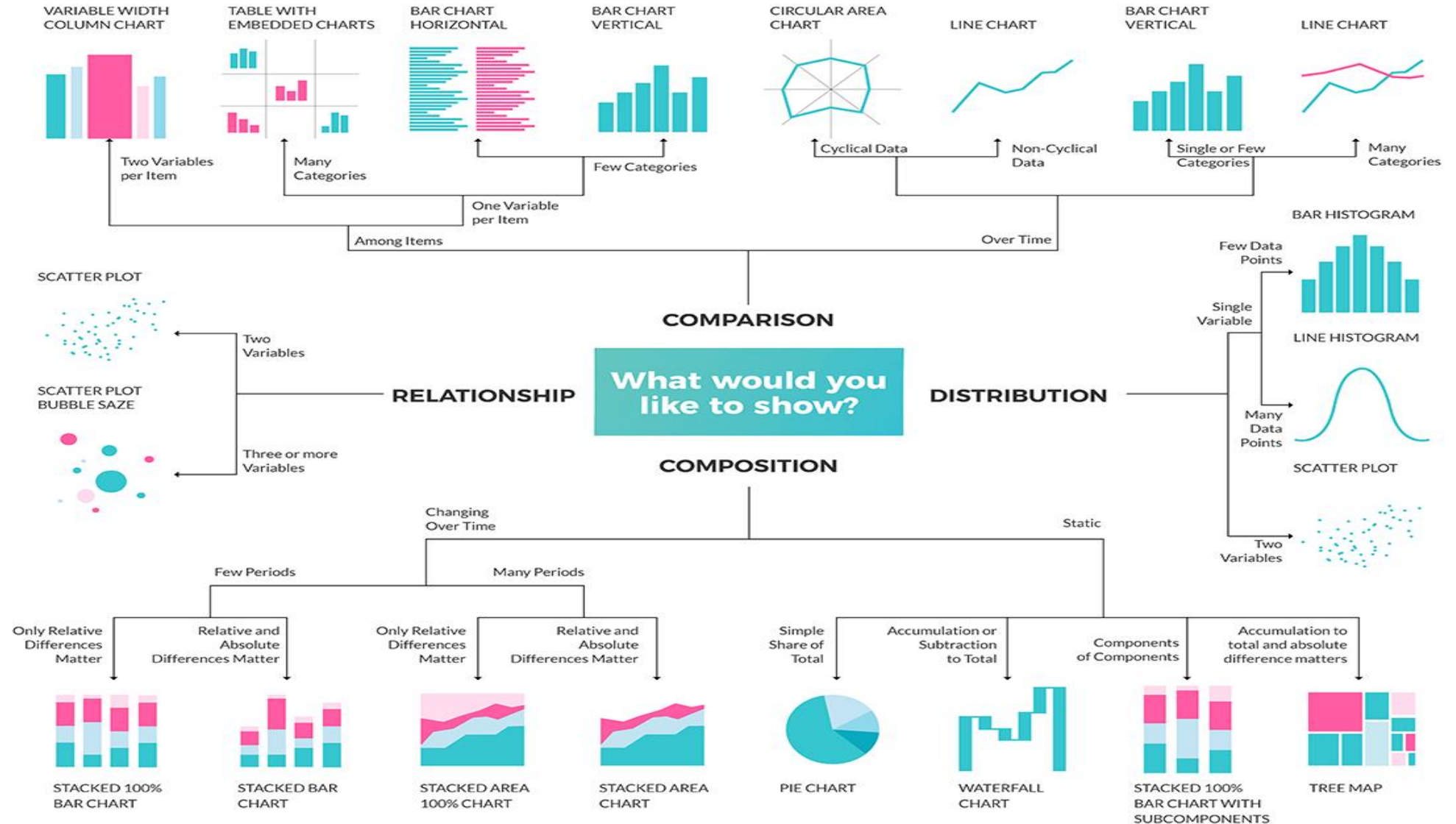


14-Day 'Get In' Price Trend: Upper End Zone

HOVER OVER A POINT FOR MORE INFORMATION



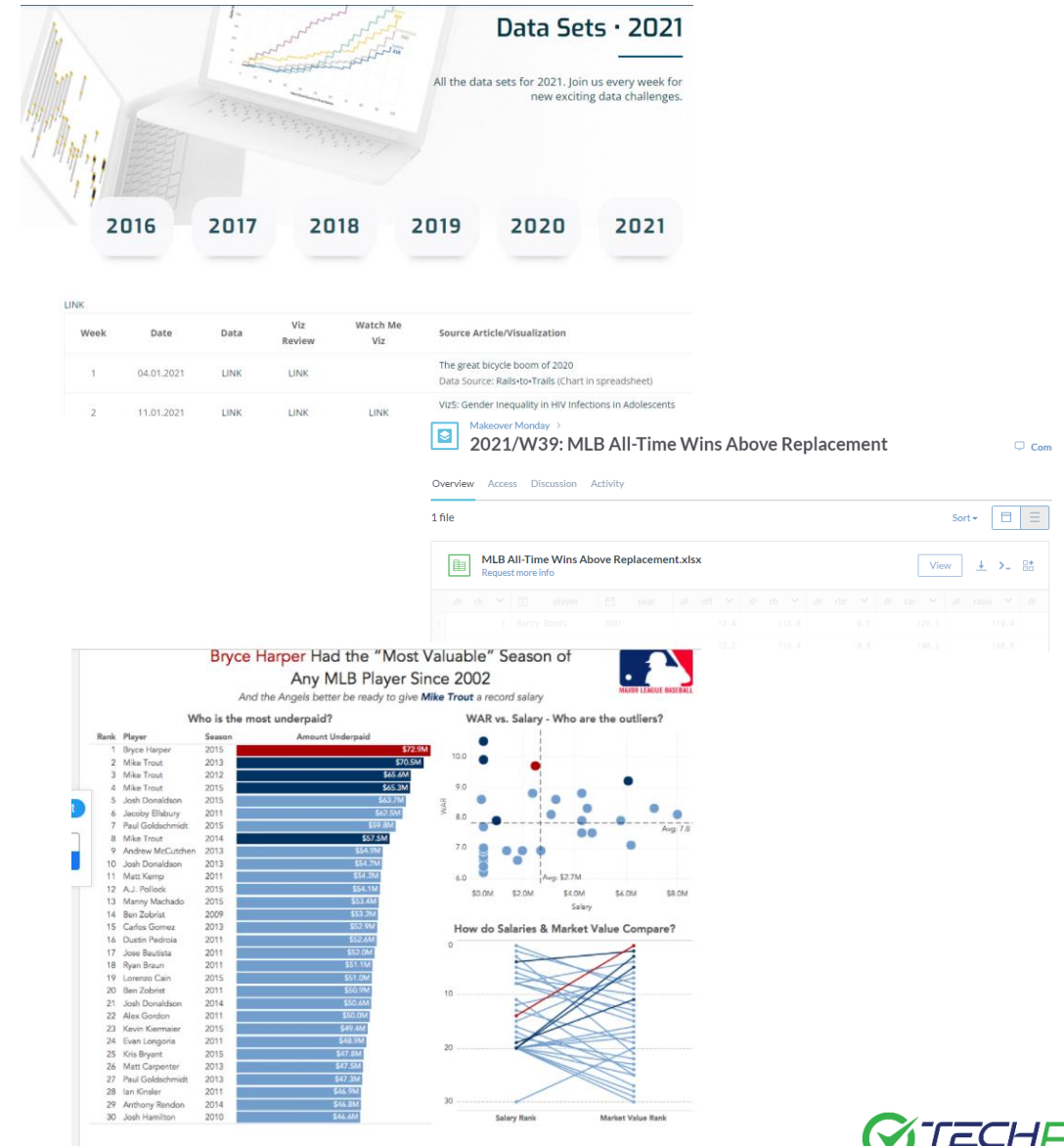
Context Types



MakeoverMonday hakkında..

MakeoverMonday Platformu

- MakeoverMonday Site
- Twitter adresi
- Welcome to MakeoverMonday Video



Data Set Reorganizing

Connections: Data, Microsoft Excel

Sheets: Data

New Union

Go to Worksheet

Data Source: Sheet1

Table Details

Metric	Date	Count
Nintendo Switch Platform	3/2017	60
Nintendo Switch hardware/J...	3/2018	378
Nintendo Switch hardware/T...	3/2019	385
Nintendo Switch hardware/E...	3/2020	521
Nintendo Switch hardware/O...	3/2017	120
Nintendo Switch software/Ja...	3/2018	594
Nintendo Switch software/T...	3/2019	688
Nintendo Switch software/E...	3/2020	811
Nintendo Switch software/OT...	3/2017	76
	3/2018	379
	3/2019	455
	3/2020	534
	3/2017	18
	3/2018	154
	3/2019	169
	3/2020	237
	3/2017	89
	3/2018	1,226
	3/2019	2,148
	3/2020	3,256
	3/2017	286
	3/2018	2,752
	3/2019	5,394
	3/2020	7,428
	3/2017	142
	3/2018	1,917
	3/2019	3,516
	3/2020	5,017
	3/2017	29
	3/2018	456
	3/2019	797
	3/2020	1,171

Context Menu Options:

- Rename
- Reset Name
- Copy Values
- Hide
- Aliases...
- Create Calculated Field...
- Create Group...
- Split
- Custom Split...
- Remove Pivot
- Describe...

Context Menu Options:

- Rename
- Copy Values
- Hide
- Create Calculated Field...
- Pivot
- Merge Mismatched Fields

Custom Split Dialog:

How should this data be split?

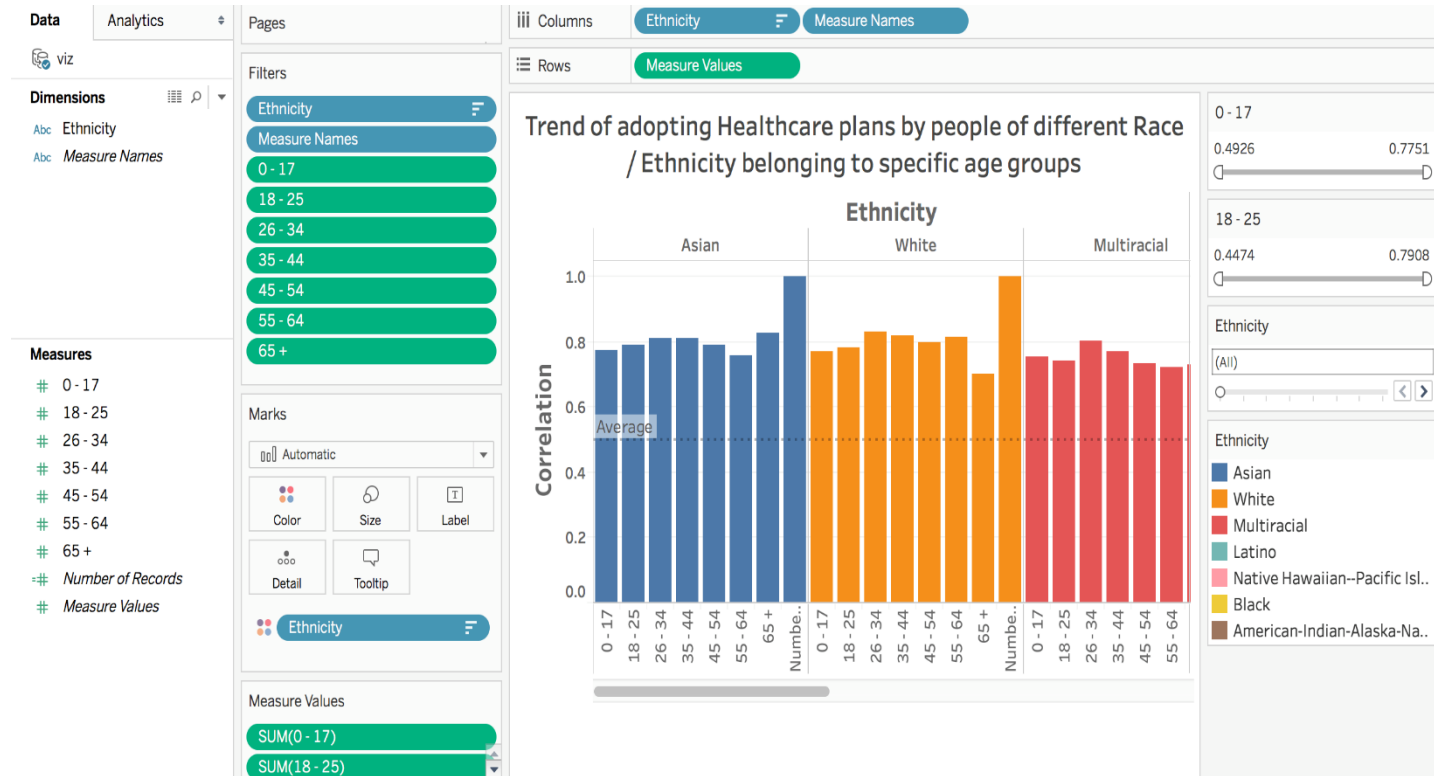
Use the separator: |,;... :

Split off: First 1 columns

Buttons: OK, Cancel

Content

- Working with Dates
- Data Aggregation
- Calculated Fields
- Quick Table Calculations





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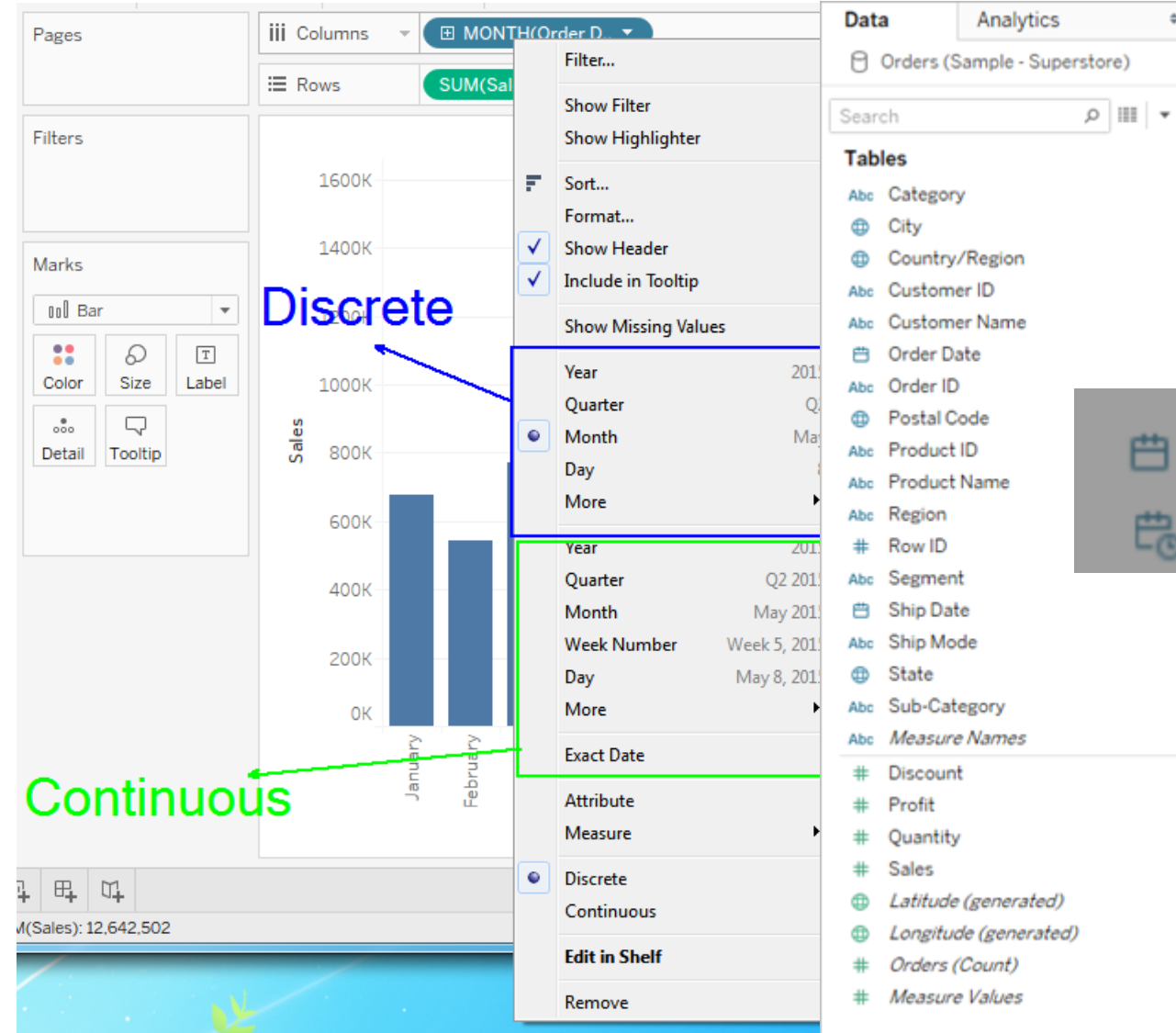
WORKING WITH DATES

Working with Dates



► Discrete vs. Continuous

- Tarihler Dimensions bölümünde yer alırlar.
- Verinin Dimension bölümünde yer alması bu verinin discrete olduğu anlamına gelmez.

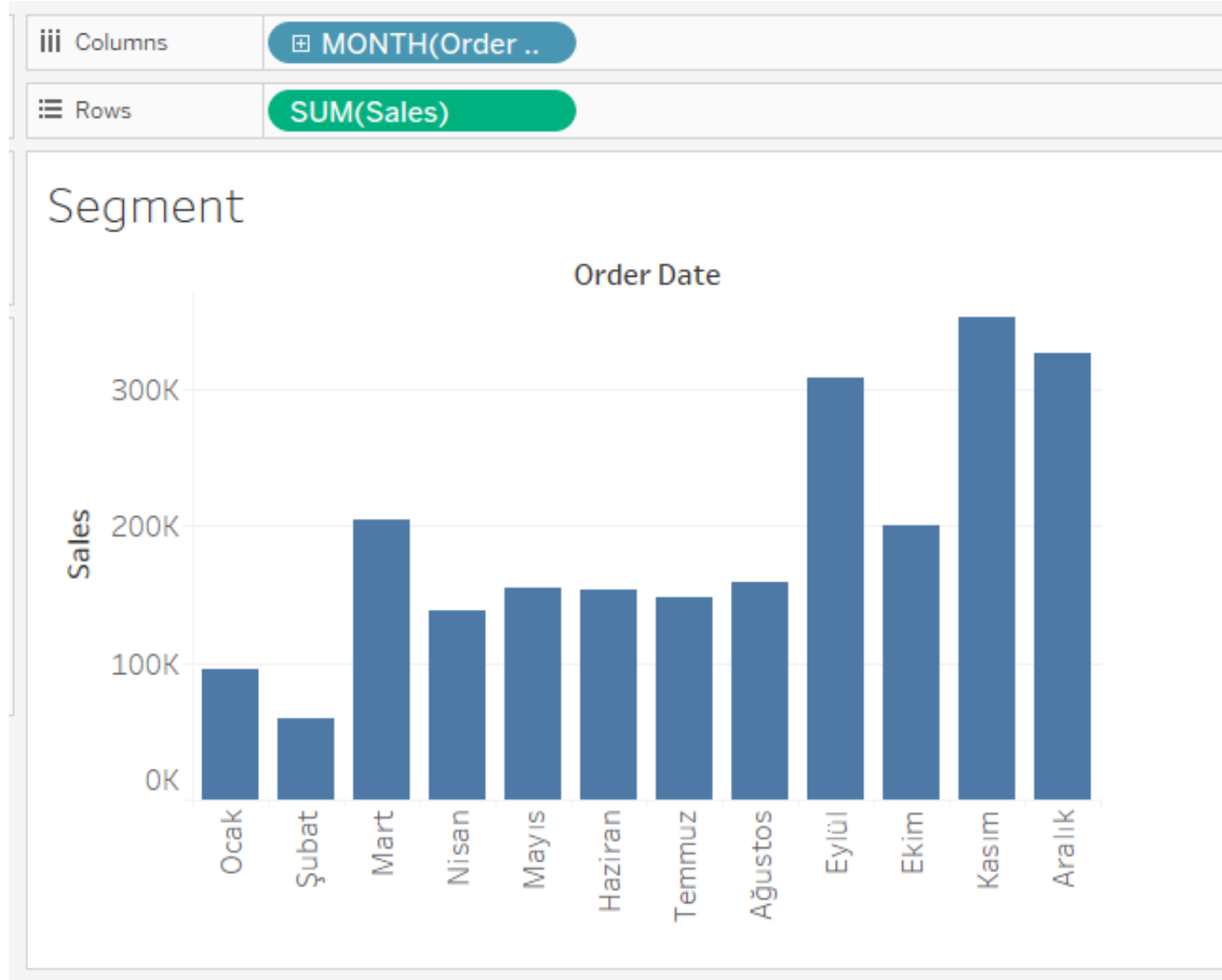


Working with Dates

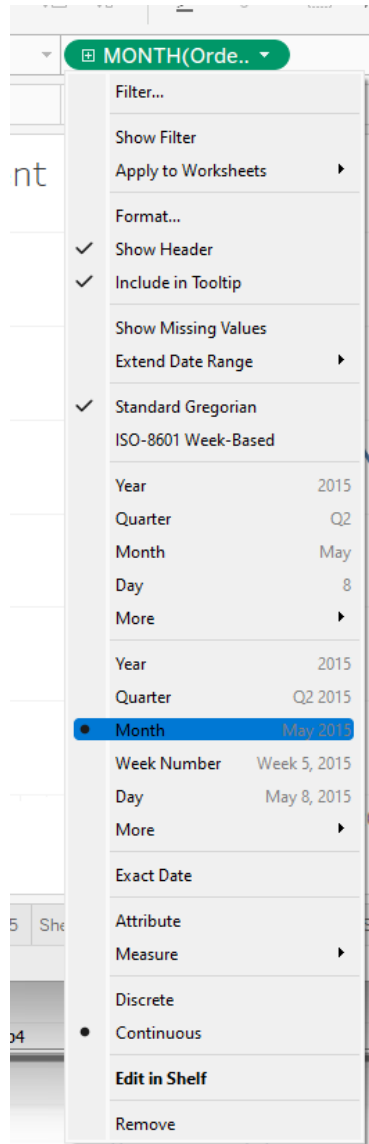


Dimensions

- Customer
 - Customer Name
 - Segment
- Order
 - Order Date
 - Order ID
 - Ship Date
 - Ship Mode
- Location
 - Country
 - Region
 - State
 - City
 - Postal Code
- Order Profitable?
- Product
 - Category
 - Sub-Category
 - Product Name

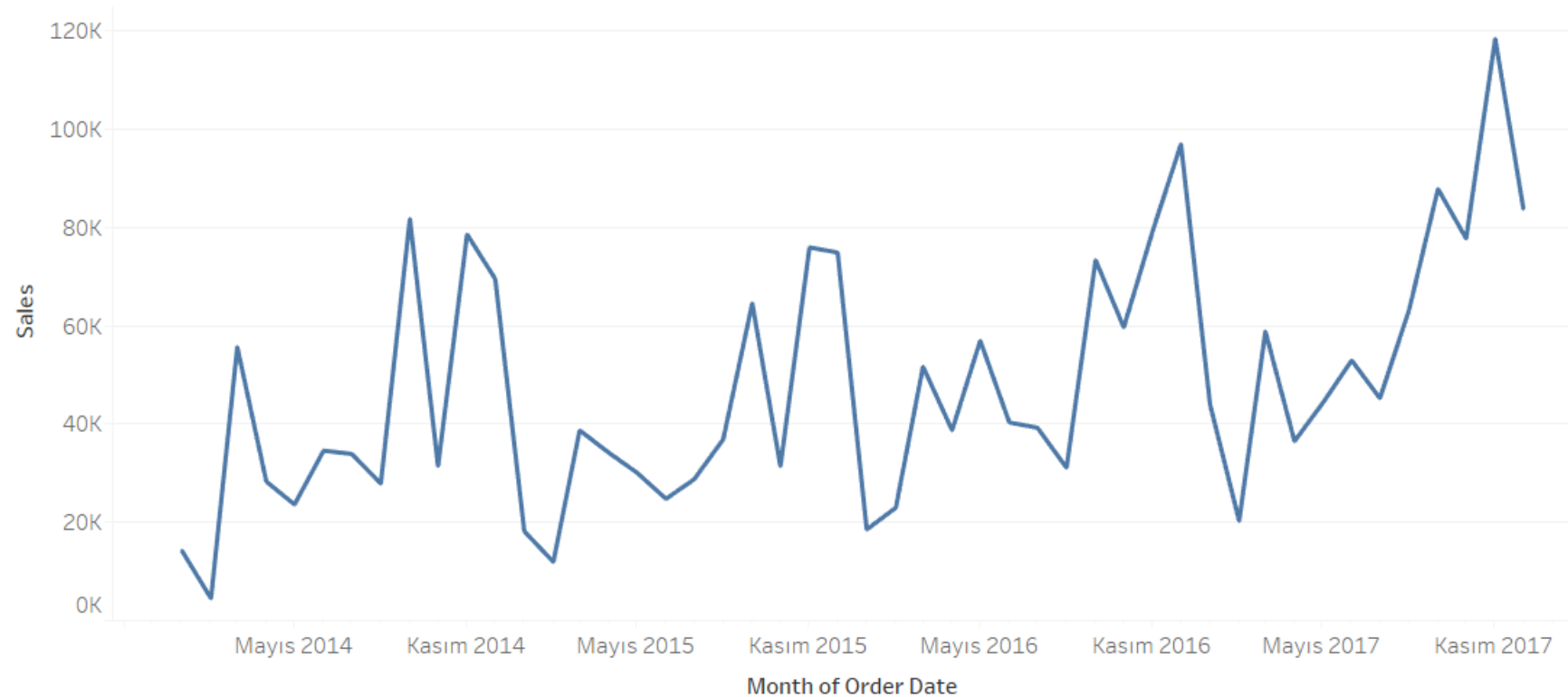


Working with Dates



Columns	MONTH(Order ..
Rows	SUM(Sales)

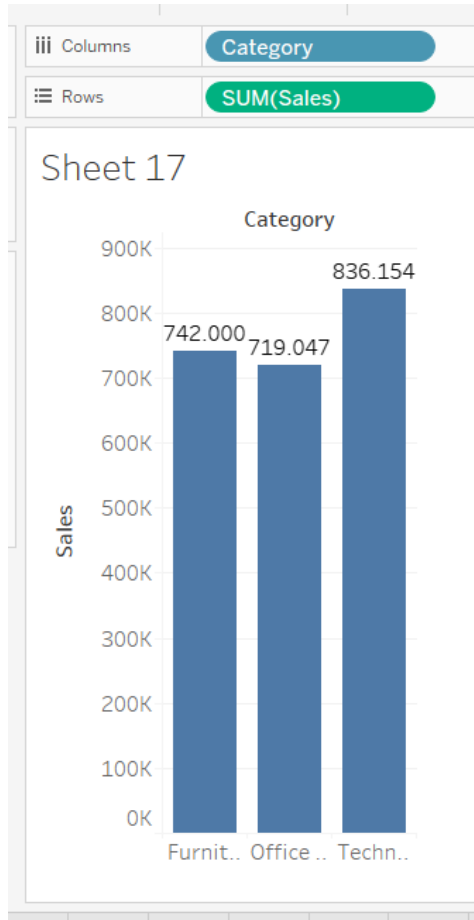
Segment



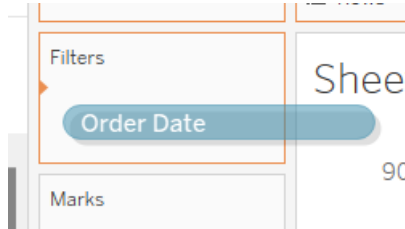
Working with Dates



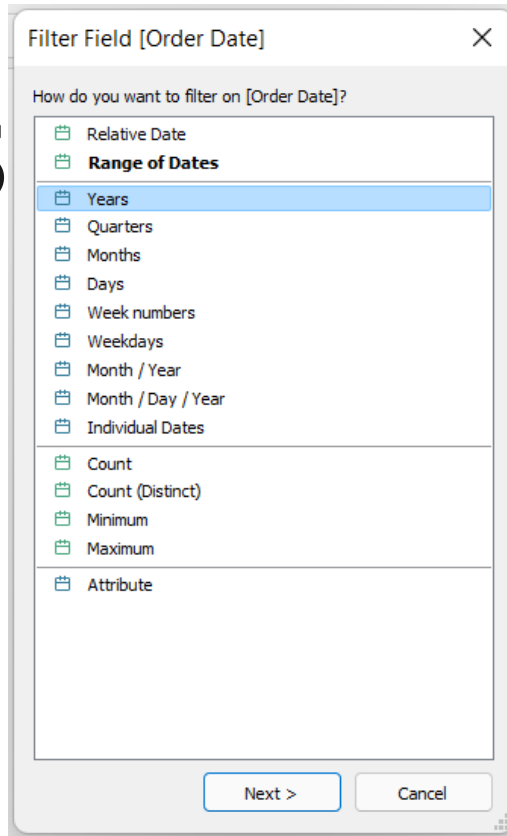
1



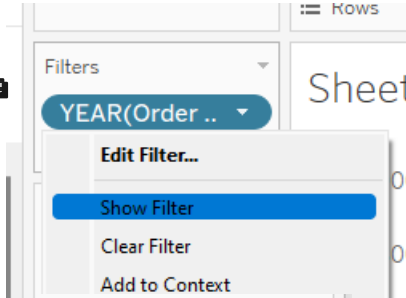
2



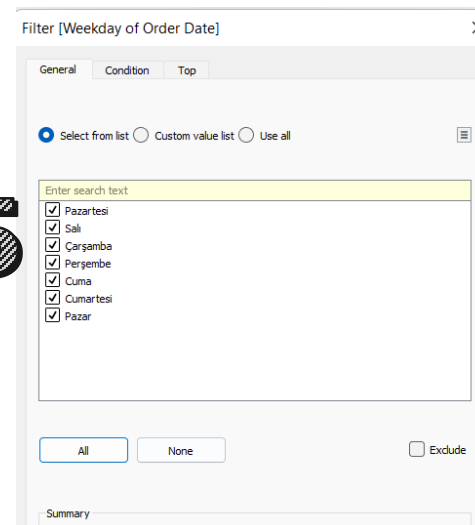
3



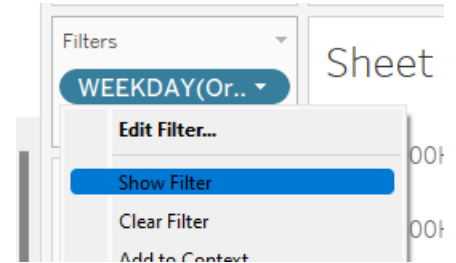
4



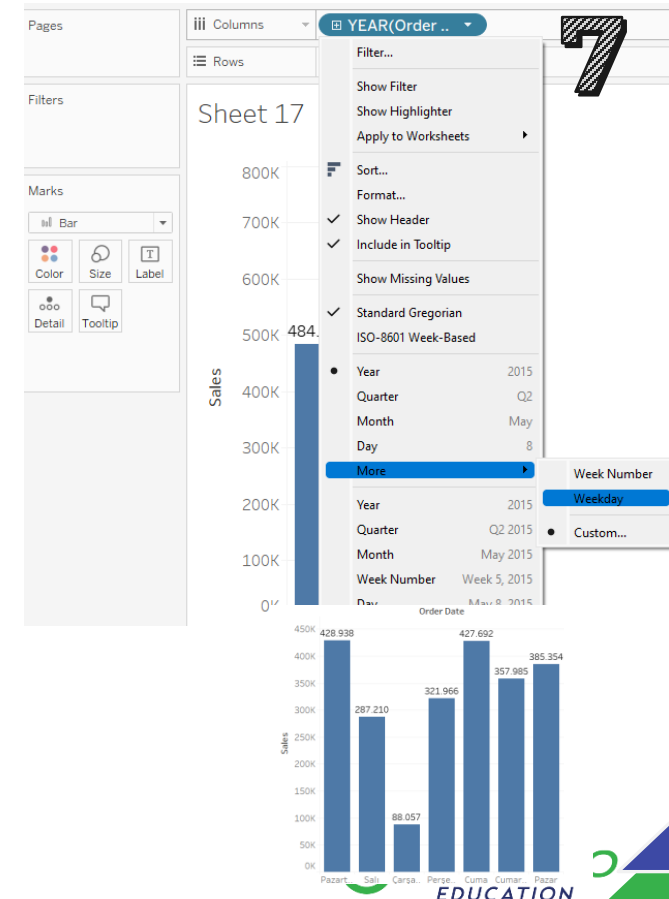
5



6



7





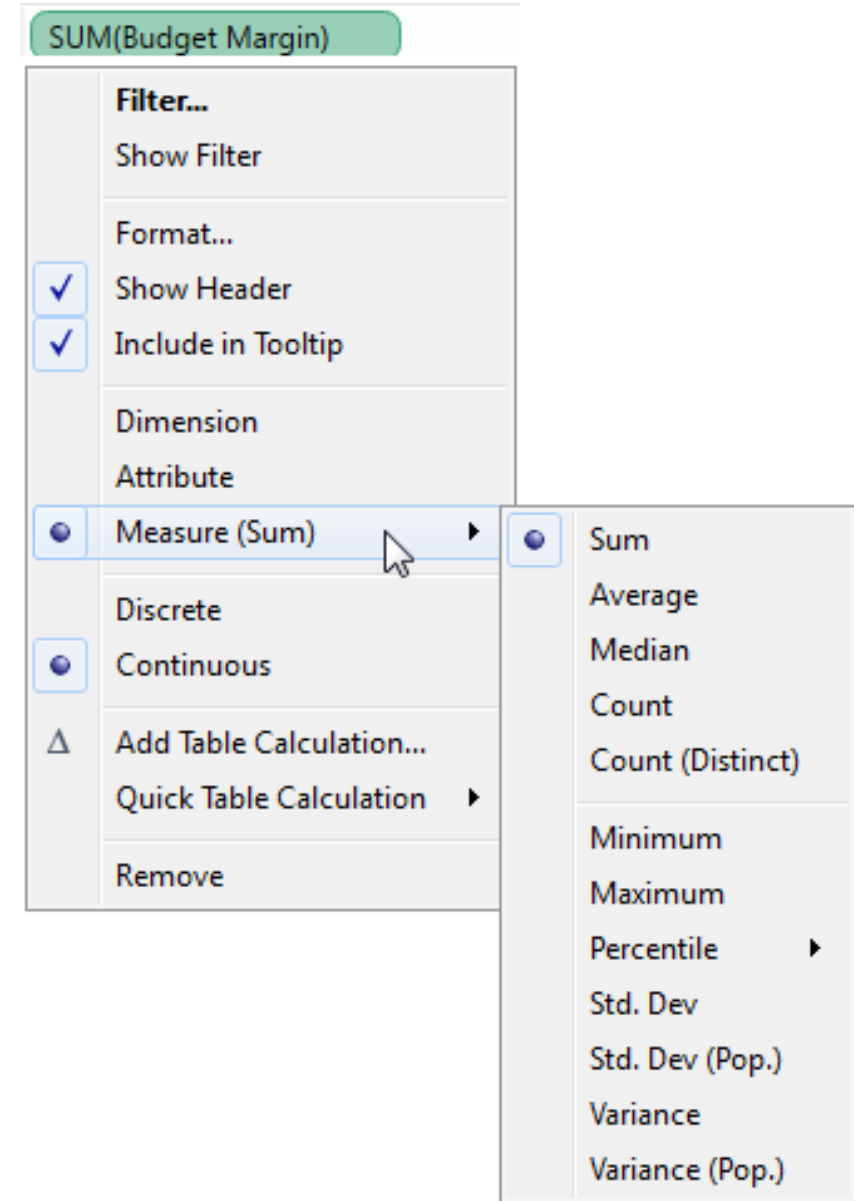
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DATA AGGREGATION

Data Aggregation

► Veri Toplama

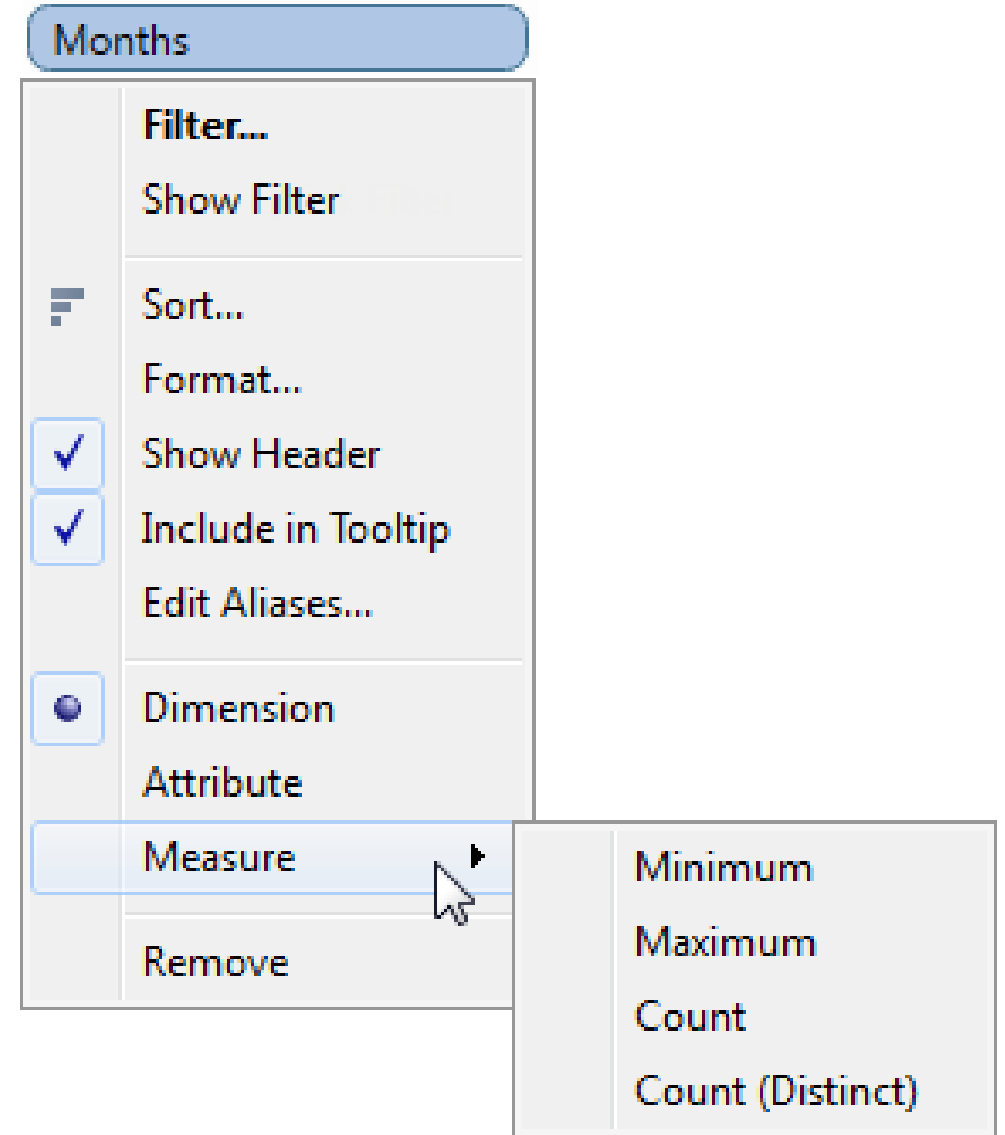
- Görünüme bir calculation eklediğinizde, Tableau değerlerini otomatik olarak toplar. Toplam, ortalama ve medyan ortak toplamalardır.



Data Aggregation

► Aggregating Dimensions

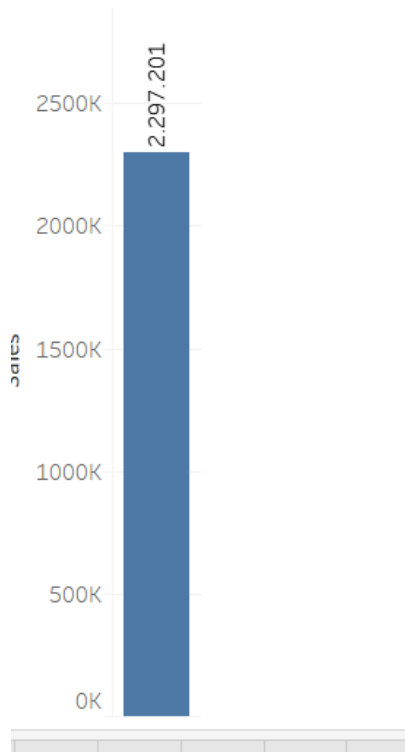
- Görünümdeki bir boyutu **Minimum, Maximum, Count, or Count (Distinct)** olarak toplayabilirsiniz.



1

Columns	
Rows	SUM(Sales)

Sheet 17



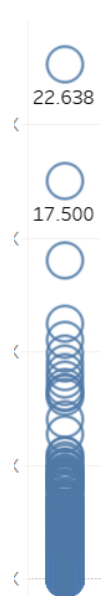
2

Analysis	Map	Format	Server	Window	Help
<input checked="" type="checkbox"/> Show Mark Labels					
<input checked="" type="checkbox"/> Aggregate Measures					
Stack Marks					

3

Columns	
Rows	Sales

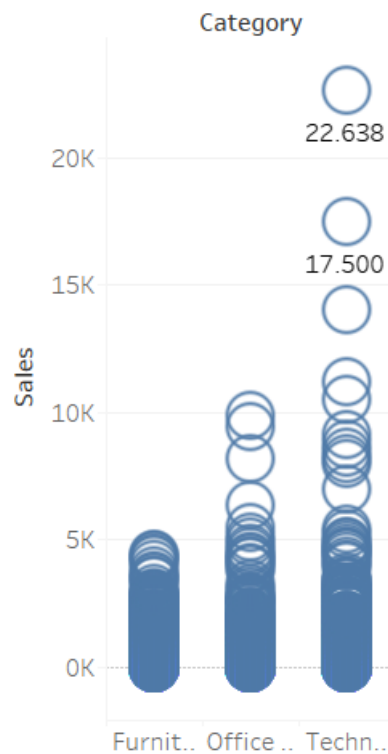
Sheet 17



4

Columns	Category
Rows	Sales

Sheet 17



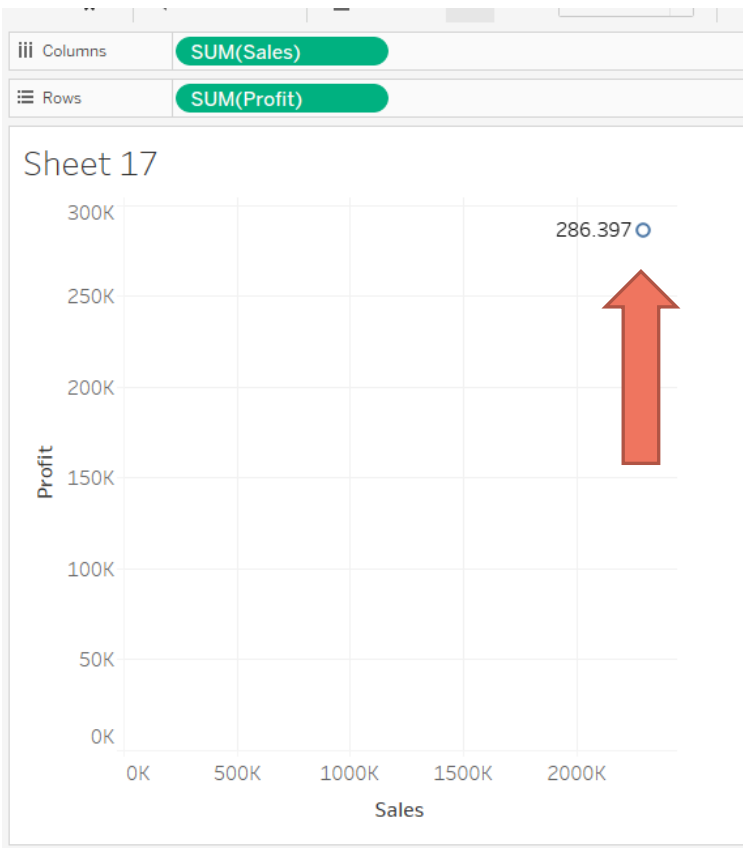
5

Columns	Category
Rows	SUM(Sales)

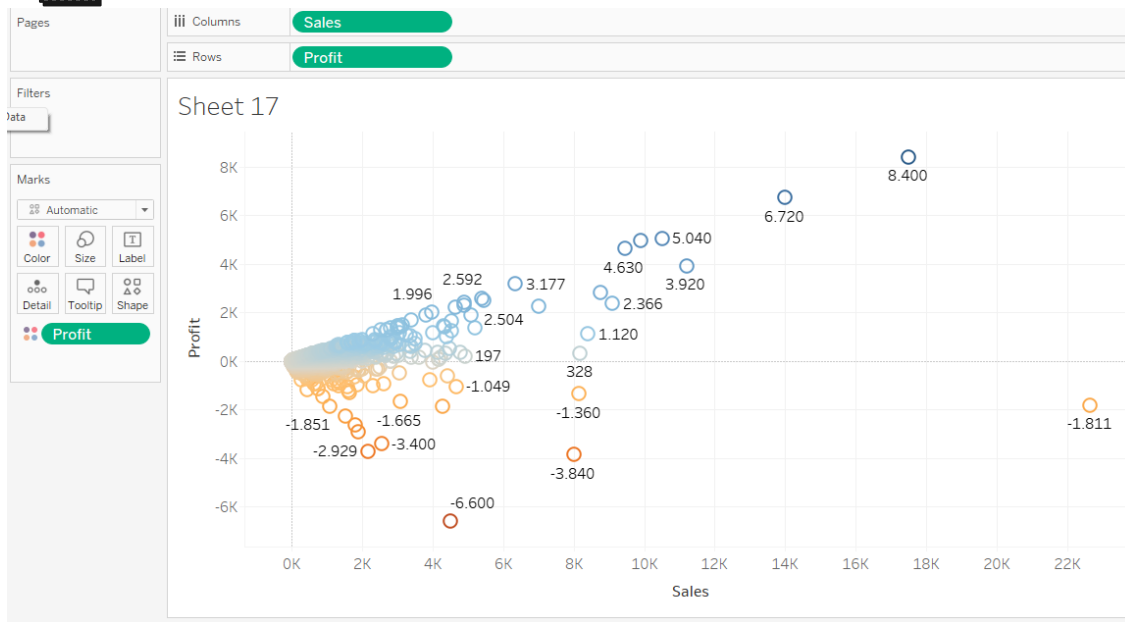
Filter...
Show Filter
Apply to Worksheets
Format...
☒ Show Header
☒ Include in Tooltip
Dimension
Attribute
● Measure (Sum) ▶
Discrete
● Continuous
Edit in Shelf
Add Table Calculation...

Sum
Average
Median
Count
Count (Distinct)
Minimum

1



2



3

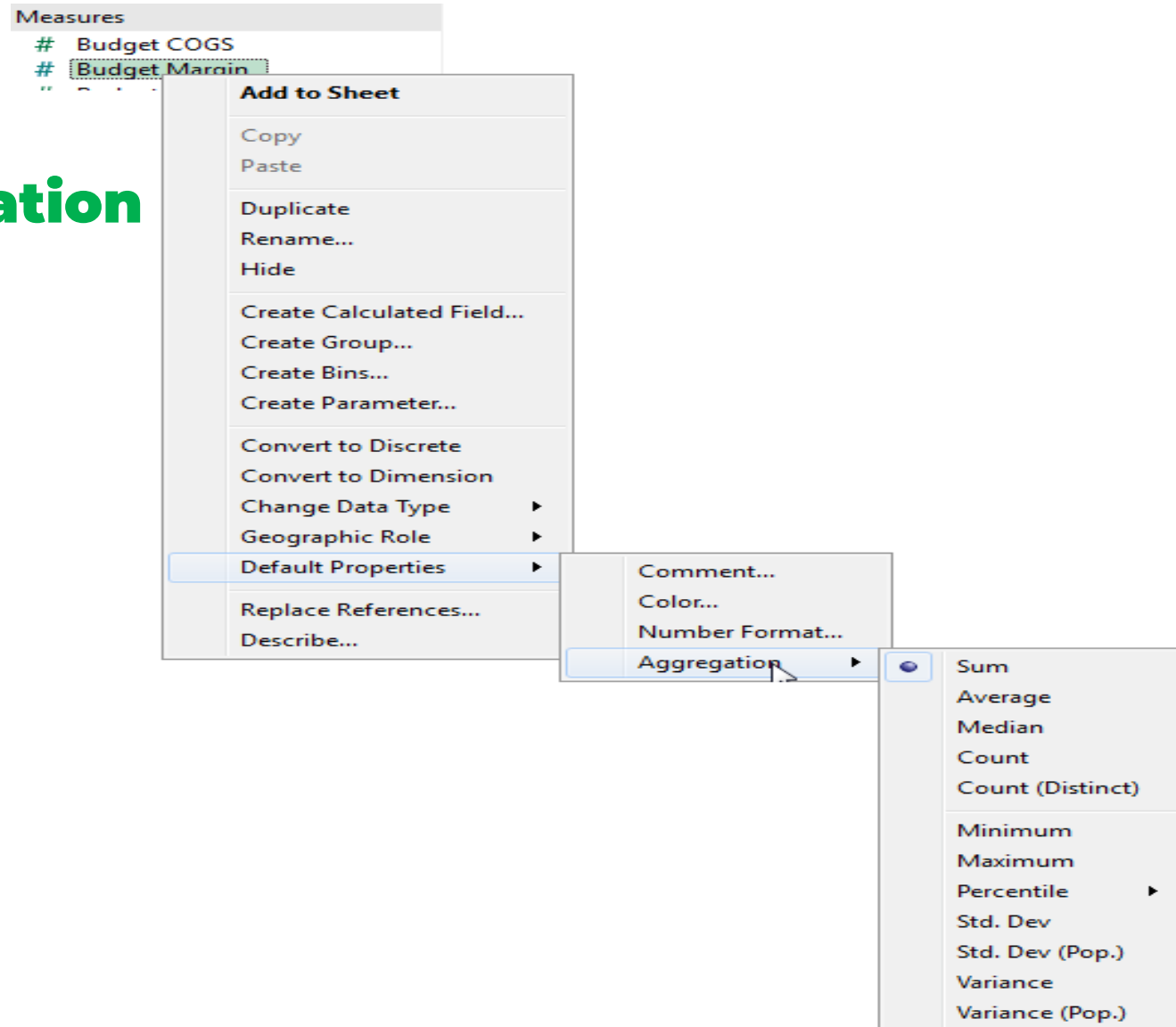
Data Aggregation

Columns		Measure Names		
Rows		Market	Market Size	State
Market	Market Size	State	Sales	% of Total Sales along State
Central	Major Market	Colorado	\$48,179	31.58%
		Illinois	\$69,883	45.80%
		Ohio	\$34,517	22.62%
	Small Market	Iowa	\$54,750	48.68%
		Missouri	\$24,647	21.92%
		Wisconsin	\$33,069	29.40%
East	Major Market	Florida	\$37,443	27.08%
		Massachusetts	\$29,965	21.67%
		New York	\$70,852	51.25%
	Small Market	Connecticut	\$25,429	63.07%
		New Hampshire	\$14,887	36.93%
South	Major Market	Texas	\$37,410	100.00%
	Small Market	Louisiana	\$23,161	34.82%
		New Mexico	\$15,892	23.89%

Data Aggregation

► Change the default aggregation

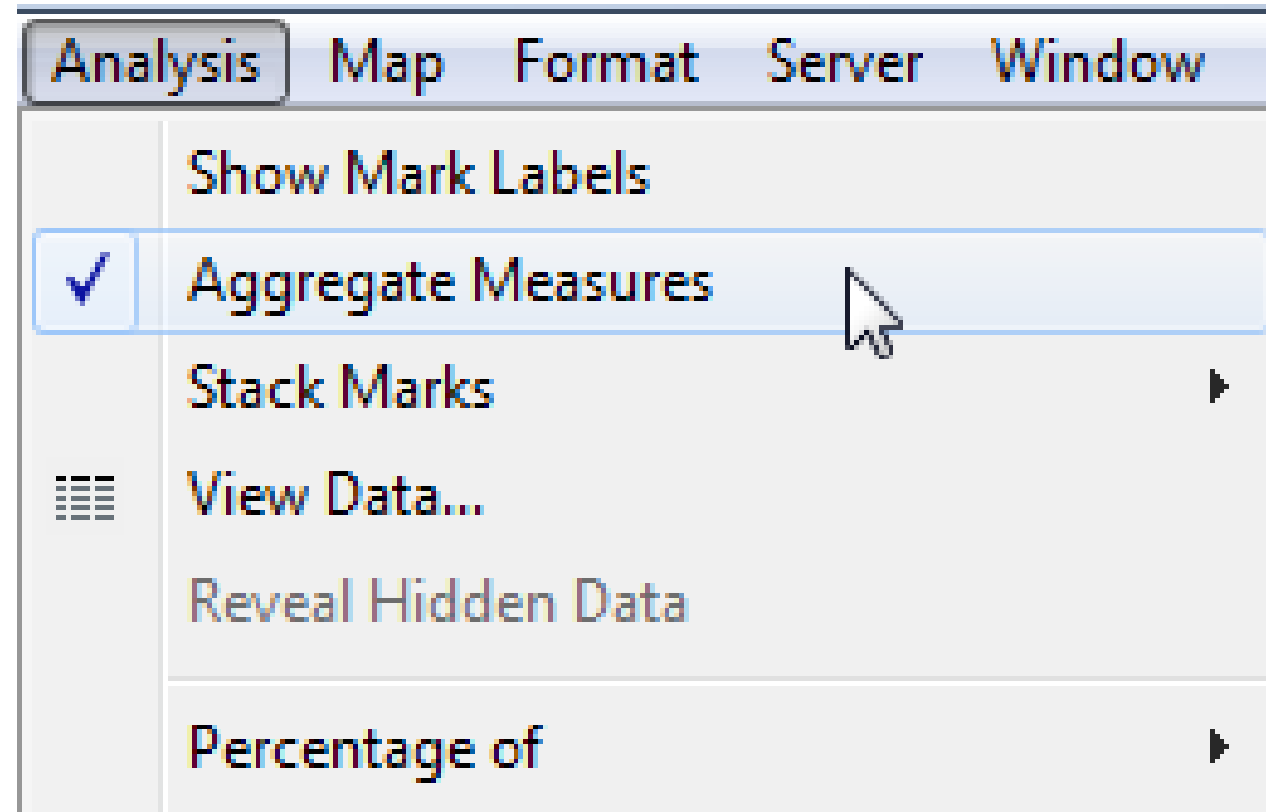
- Right-click (control-click on Mac) a measure in the Data pane and select **Default Properties > Aggregation**, and then select one of the aggregation options.



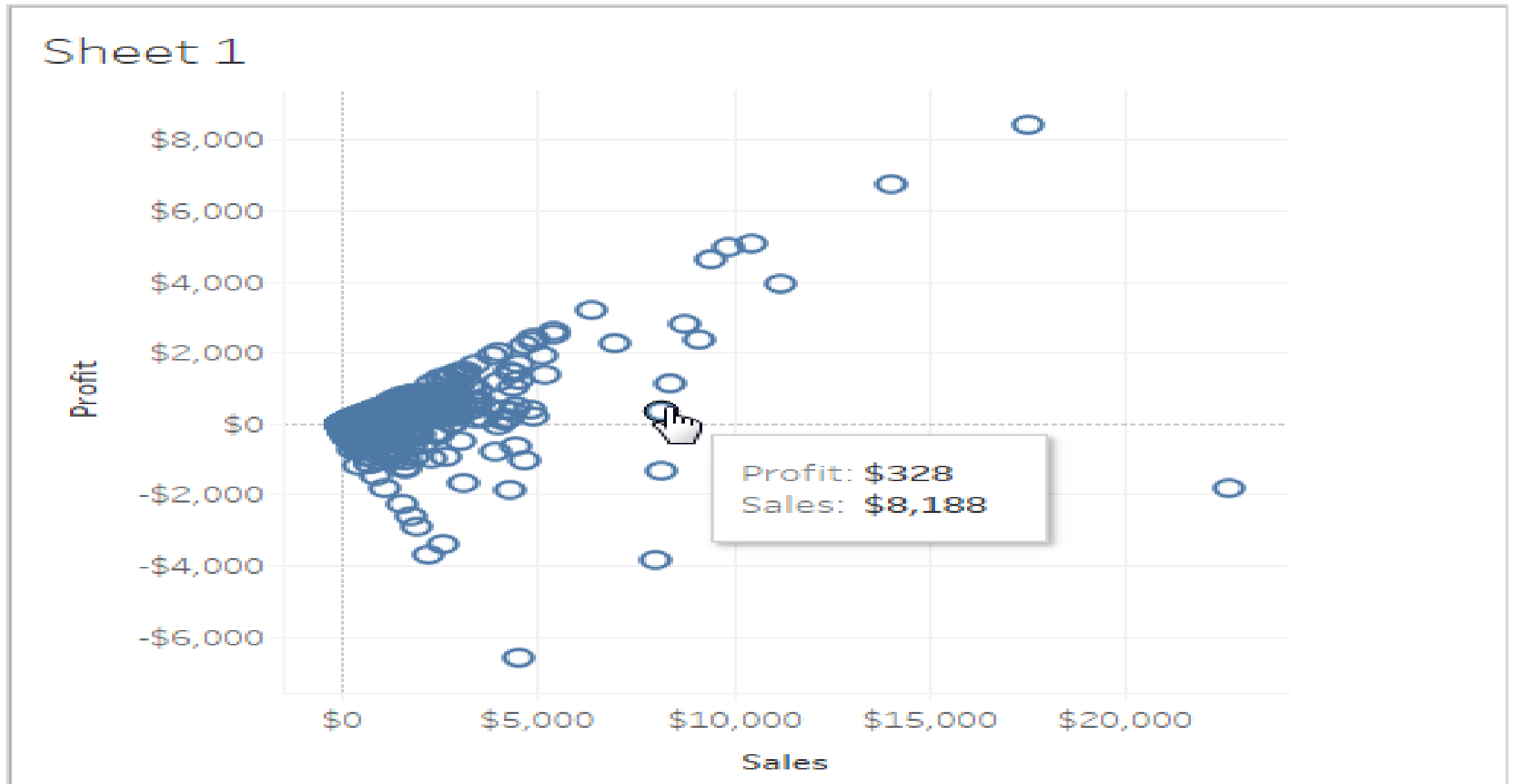
Data Aggregation

► How to Disaggregate Data

- Verilerinizi ayrıştırmak, Tableau'nun veri kaynağınızın her satırındaki her veri değeri için ayrı bir işaret göstereceği anlamına gelir.



Data Aggregation





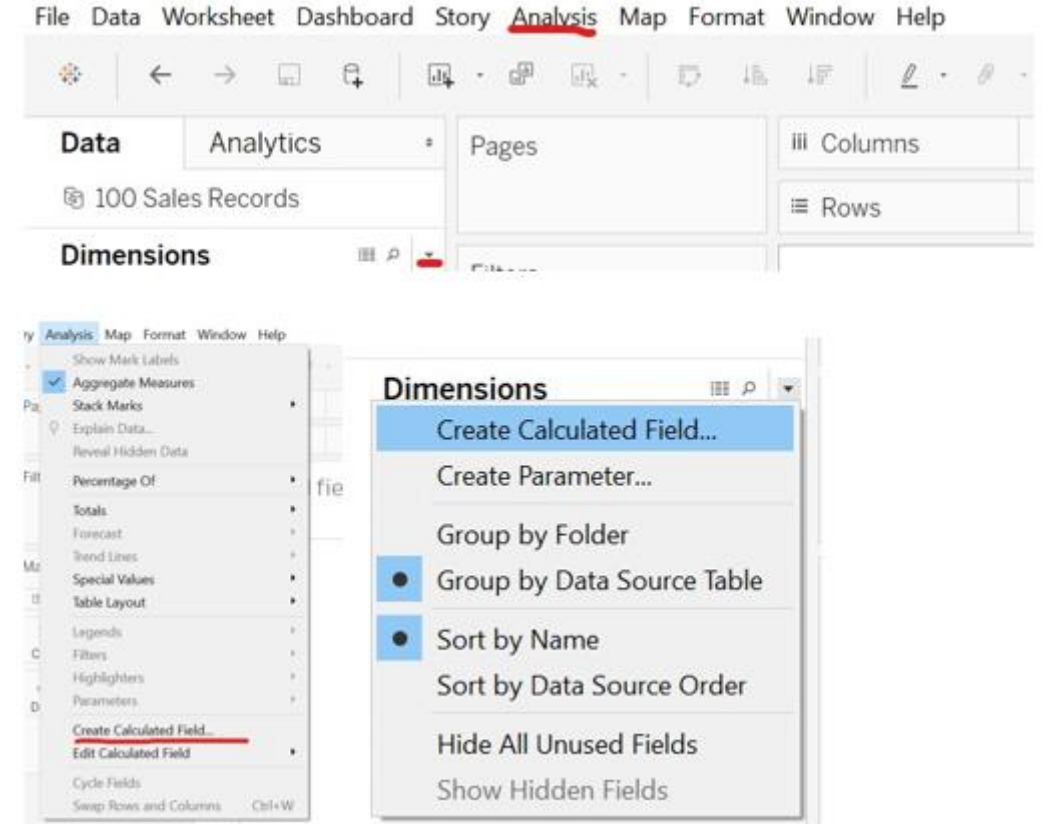
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CALCULATED FIELDS

Calculated Fields

► What is calculated field?

- Hesaplanan alanlar, veri kaynağınızda zaten mevcut olan verilerden yeni veriler oluşturmanıza olanak tanır. Hesaplanan bir alan oluşturduğunuzda, esasen veri kaynağınızda, değerleri veya üyeleri sizin kontrol ettiğiniz bir hesaplama tarafından belirlenen yeni bir alan (veya sütun) oluşturursunuz.

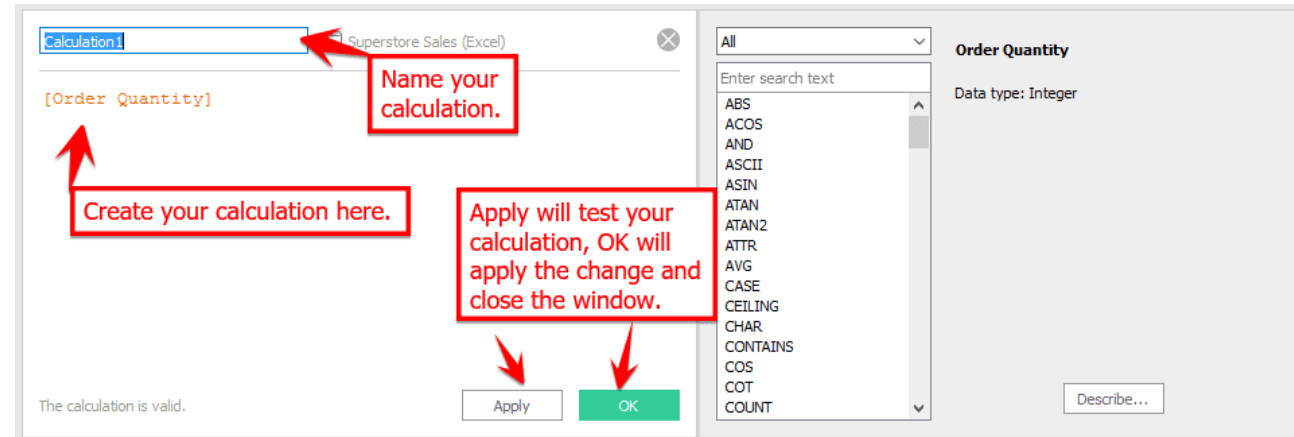
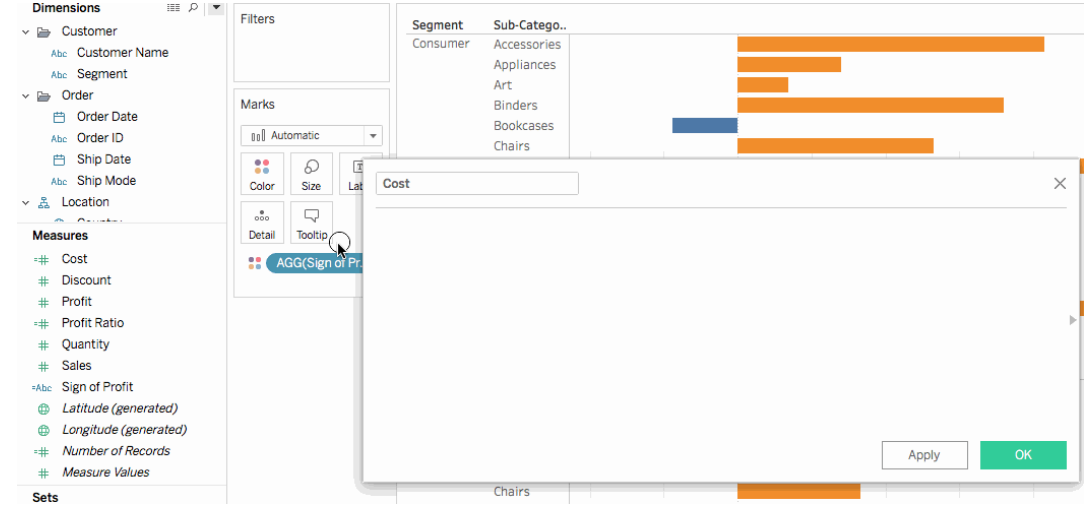


Calculated Fields



► Ne için Kullanılır?

- Verileri segmentlere ayırmak için
- Bir stringi tarihe dönüştürmek gibi bir alanın veri türünü dönüştürmek üzere
- Verileri aggregate (toplamak) için
- Sonuçları filtrelemek için
- Ratio hesaplamak için



Calculated Fields

► Calculated Alan Oluřturma

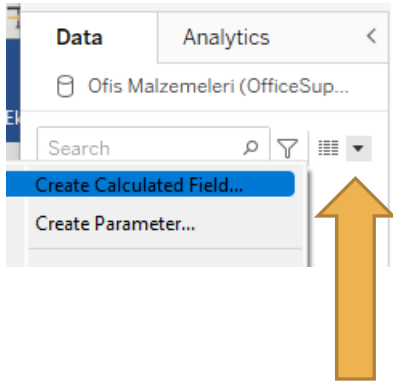
- Hesaplanan alanlar, veri kaynađınızda zaten var olan verilerden yeni veriler oluřturmanıza olanak tanır

The screenshot shows the Tableau interface. On the left, the 'Columns' shelf contains 'Region' and the 'Rows' shelf contains 'Product Category' and 'Product Sub-Category'. The 'Marks' shelf is set to 'Automatic'. The main view displays 'Sheet 1' with a pivot table. The table has columns for 'Product Category', 'Product Sub-Category', and 'Region' (with sub-columns for Central, East, South, and West). The data is organized into three main categories: Furniture, Office Supplies, and Technology, each with its own sub-categories and corresponding values (all represented as 'Abc').

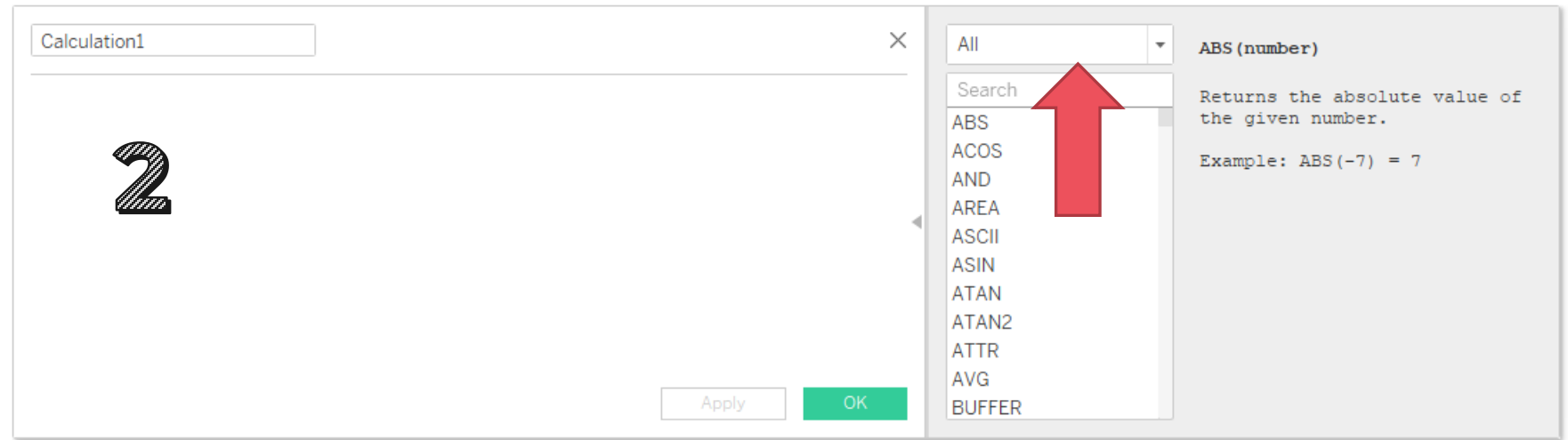
		Region			
Product Category	Product Sub-Category	Central	East	South	West
Furniture	Bookcases	Abc	Abc	Abc	Abc
	Chairs & Chairmats	Abc	Abc	Abc	Abc
	Office Furnishings	Abc	Abc	Abc	Abc
	Tables	Abc	Abc	Abc	Abc
Office Supplies	Appliances	Abc	Abc	Abc	Abc
	Binders and Binder Acces..	Abc	Abc	Abc	Abc
	Envelopes	Abc	Abc	Abc	Abc
	Labels	Abc	Abc	Abc	Abc
	Paper	Abc	Abc	Abc	Abc
	Pens & Art Supplies	Abc	Abc	Abc	Abc
	Rubber Bands	Abc	Abc	Abc	Abc
	Scissors, Rulers and Trim..	Abc	Abc	Abc	Abc
	Storage & Organization	Abc	Abc	Abc	Abc
Technology	Computer Peripherals	Abc	Abc	Abc	Abc
	Copiers and Fax	Abc	Abc	Abc	Abc
	Office Machines	Abc	Abc	Abc	Abc
	Telephones and Communi..	Abc	Abc	Abc	Abc

Calculated Fields

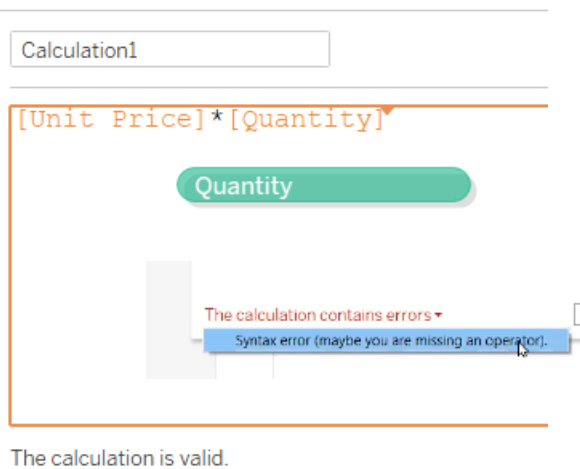
1



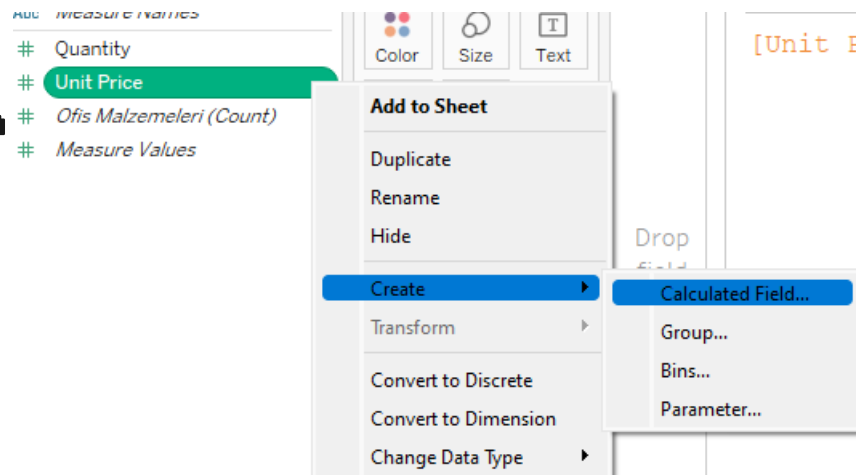
2



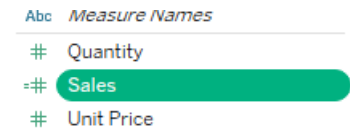
3



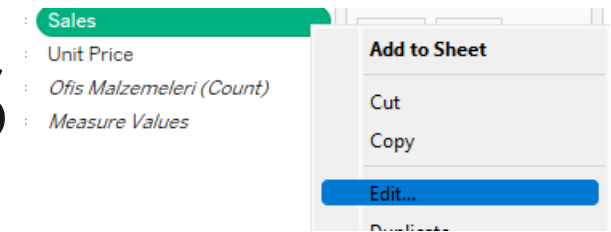
4



5



6



Calculated Fields

1

Ofis malzemeleri 7 fields 43 rows

Order Date	Region	Rep	Item	Quantity	Unit Price	Calculation Sales
17.11.2016	Central	Alex	Binder	11	5,000	55,00
4.12.2016	Central	Alex	Binder	94	20,000	1.880,00
9.02.2017	Central	Alex	Pencil	36	5,000	180,00
24.03.2017	Central	Alex	Pen Set	50	5,000	250,00
5.05.2017	Central	Alex	Pencil	90	5,000	450,00
10.09.2016	Central	Bill	Pencil	7	1,300	9,10
15.01.2017	Central	Bill	Binder	46	9,000	414,00
26.02.2017	Central	Bill	Pen	27	20,000	540,00
14.05.2017	Central	Bill	Pencil	53	1,300	68,90

3

Bill 1.752

Sales_v2

`SUM([Unit Price]) * SUM([Quantity])`

4

Measure Values

SUM(Sales)

Filter...

Show Filter

Format...

✓ Include in Tooltip

5

Axis Pane

Default

Numbers: 123.456

6

Numbers: 123.456,00

region rep
Central Alex

Automatic
Number (Standard)
Number (Custom)
Currency (Standard)
Currency (Custom)
Scientific
Percentage
Custom

Number (Custom)
Decimal places:
2
Negative values:
-1234
Display Units:
None
Prefix / Suffix:

☒ Include thousands separators

2

Pages

Filters

Marks

Automatic

Color Size Text

Detail Tooltip

SUM(Sales)

Columns

Rows

Region Rep

Sheet 1

Region	Rep	
Central	Alex	2.815
	Bill	1.752
	Matthew	3.113
	Morgan	1.390
	Rachel	440
	Smith	1.642
East	Nick	538
	Richard	2.367
	Susan	3.104
West	James	1.285
	Thomas	1.204

Calculated Fields

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Standard

Sample - Superstore

Dimensions

- Ship Mode
- Location
 - Country
 - State
 - City
 - Postal Code
- Product
 - Category
 - Sub-Category
 - Manufacturer
 - Product Name
- Profit (bin)
- Region
- Measure Names

Measures

- Discount
- Profit
- Quantity

Sets

- Top Customers by Profit

Parameters

- Profit Bin Size
- Top Customers

Columns: Region

Rows: Category, Sub-Category

Filters

Marks: Automatic

Color, Size, Text, Detail, Tooltip

Sheet 1

		Region			
Category	Sub-Catego..	Central	East	South	West
Furniture	Bookcases	Abc	Abc	Abc	Abc
	Chairs	Abc	Abc	Abc	Abc
	Furnishings	Abc	Abc	Abc	Abc
	Tables	Abc	Abc	Abc	Abc
Office Supplies	Appliances	Abc	Abc	Abc	Abc
	Art	Abc	Abc	Abc	Abc
	Binders	Abc	Abc	Abc	Abc
	Envelopes	Abc	Abc	Abc	Abc
	Fasteners	Abc	Abc	Abc	Abc
	Labels	Abc	Abc	Abc	Abc
	Paper	Abc	Abc	Abc	Abc
	Storage	Abc	Abc	Abc	Abc
	Supplies	Abc	Abc	Abc	Abc
Technology	Accessories	Abc	Abc	Abc	Abc
	Copiers	Abc	Abc	Abc	Abc
	Machines	Abc	Abc	Abc	Abc
	Phones	Abc	Abc	Abc	Abc

Data Source Sheet 1

Calculated Fields Hands-On

Profit_margin

```
IF [Profit]/[Sales] >0.20 THEN "HIGH PROFIT"  
ELSEIF [Profit]/[Sales] >0 THEN "LOW PROFIT"  
ELSE "LOSS"  
END
```

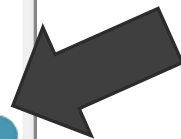
The calculation is valid.

Apply

OK

Tables

Abc Category
City
Country
Abc Customer ID
Abc Customer Name
Order Date
Abc Order ID
Postal Code
Abc Product ID
Abc Product Name
-Abc Profit_margin
Abc Region
Row ID



Pages		Measure Names		
Columns		Measure Names		
Rows		Order ID	Product ID	Profit_margin
Filters		Measure Names		
Marks		Measure Names		
Measure Values		Measure Values		
		SUM(Profit)		
		SUM(Sales)		
		Profit Margin		
		Order ID	Product ID	Profit_mar..
		Profit	Sales	
		CA-2014-100006	TEC-PH-10002075	HIGH PROFIT
		110	378	
		CA-2014-100090	FUR-TA-10003715	LOSS
		-88	502	
			OFF-BI-10001597	HIGH PROFIT
		69	197	
		CA-2014-100293	OFF-PA-10000176	HIGH PROFIT
		32	91	
		CA-2014-100328	OFF-BI-10000343	HIGH PROFIT
		1	4	
		CA-2014-100363	OFF-FA-10000611	HIGH PROFIT
		1	2	
			OFF-PA-10004733	HIGH PROFIT
		7	19	
		CA-2014-100391	OFF-PA-10001471	HIGH PROFIT
		7	15	
		CA-2014-100678	FUR-CH-10002602	LOSS
		-18	317	
			OFF-AR-10001868	HIGH PROFIT
		1	3	
			OFF-EN-10000056	HIGH PROFIT
		50	149	
			TEC-AC-10000474	LOW PROFIT
		28	228	
		CA-2014-100706	FUR-FU-10002268	HIGH PROFIT
		10	29	
			TEC-AC-10001314	LOW PROFIT
		8	100	
		CA-2014-100762	OFF-AR-10000380	HIGH PROFIT
		46	152	
			OFF-LA-10003930	HIGH PROFIT
		96	197	
			OFF-PA-10001815	HIGH PROFIT
		69	144	
			OFF-PA-10004082	HIGH PROFIT
		8	16	
		CA-2014-100860	OFF-LA-10001982	HIGH PROFIT
		9	19	
		CA-2014-100867	TEC-PH-10004922	LOW PROFIT
		20	322	
		CA-2014-100881	TEC-PH-10003273	LOW PROFIT
		23	302	
		CA-2014-100895	OFF-AR-10004511	HIGH PROFIT
		3	9	
			OFF-ST-10001490	HIGH PROFIT
		107	357	
			TEC-PH-10001425	HIGH PROFIT
		67	240	
		CA-2014-100916	FUR-TA-10004607	LOW PROFIT
		112	591	
			OFF-AR-10001022	HIGH PROFIT
		1	3	
			OFF-ST-10003479	LOW PROFIT
		10	195	
		CA-2014-100972	OFF-PA-10000357	HIGH PROFIT
		80	166	
		CA-2014-101147	OFF-AP-10004249	LOSS
		-6	2	
		CA-2014-101175	OFF-ST-10004950	LOSS
		-1	101	
		CA-2014-101266	OFF-PA-10002986	HIGH PROFIT
		6	13	

Calculated Fields Hands-On

Product ID
Product Name
Profit_margin
Region
Row ID
Segment
Ship Date
Ship Mode
State

Add to Sheet
Show Filter
Duplicate
Rename
Hide
Aliases...
Create
Transform

3M Polarizing Task
3M Replacement F
6" Cubicle Wall Clo
9-3/4 Diameter Ro
12 Colored Short P
12-1/2 Diameter R
14-7/8 x 11 Blue Ba
24 Capacity Maxi D
24-Hour Round Wa
36X48 HARDFLOOR

Calculated Field...

Pages

Columns: Product Name, Print_query

Filters

Marks

☐ Automatic

Color Size Label

Detail Tooltip

Print_query

Sheet 19

Product Name	Print_qu..	
1.7 Cubic Foot Compact "Cube" Office Refrigerators	False	■
1/4 Fold Party Design Invitations & White Envelopes, 24 8-1/2" X 11" Cards, 25 ..	False	■
3-ring staple pack	False	■
3.6 Cubic Foot Counter Height Office Refrigerator	False	■
3D Systems Cube Printer, 2nd Generation, Magenta	True	■
3D Systems Cube Printer, 2nd Generation, White	True	■
3M Hangers With Command Adhesive	False	■
3M Office Air Cleaner	False	■
3M Organizer Strips	False	■
3M Polarizing Light Filter Sleeves	False	■
3M Polarizing Task Lamp with Clamp Arm, Light Gray	False	■
3M Replacement Filter for Office Air Cleaner for 20' x 33' Room	False	■
6" Cubicle Wall Clock, Black	False	■
9-3/4 Diameter Round Wall Clock	False	■
12 Colored Short Pencils	False	■
12-1/2 Diameter Round Wall Clock	False	■
14-7/8 x 11 Blue Bar Computer Printout Paper	False	■
24 Capacity Maxi Data Binder Racks, Pearl	False	■
24-Hour Round Wall Clock	False	■
36X48 HARDFLOOR CHAIRMAT	False	■
50 Colored Long Pencils	False	■
2300 Heavy-Duty Transfer File Systems by Perma	False	■
4009 Highlighters	False	■

3D Systems Cube Printer, 2nd Generation, white

Print_query

CONTAINS([Product Name], 'Printer')

Postal Code

Print_query

Calculation ve Filter ve ChatGPT

Tablo'da "Customer Name" alanı için isminin ilk harfi A, B veya C ile başlayanları getirmek için aşağıdaki hesaplama alanını kullanabilirsiniz:

Adım 1: Calculation Field Oluşturma

- Sağ tıklayın ve "Create Calculated Field" seçeneğini seçin.
- Aşağıdaki formülü kullanarak yeni bir hesaplama alanı oluşturun:

```
IF LEFT([Customer Name], 1) = "A" OR LEFT([Customer Name], 1) = "B" OR LEFT([Customer Name], 1) = "C" THEN [Customer Name] END
```

3. Hesaplama alanına bir isim verin, örneğin "ABC Customers".

Adım 2: Hesaplama Alanını Kullanma

- Yeni oluşturduğunuz hesaplama alanını sürükleyip raporunuzun sütunlar veya filtreler bölümüne yerleştirin.
- Hesaplama alanını filtre olarak kullanarak sadece A, B veya C ile başlayan müşteri isimlerini görmek istediğinizde filtreleri ayarlayın.

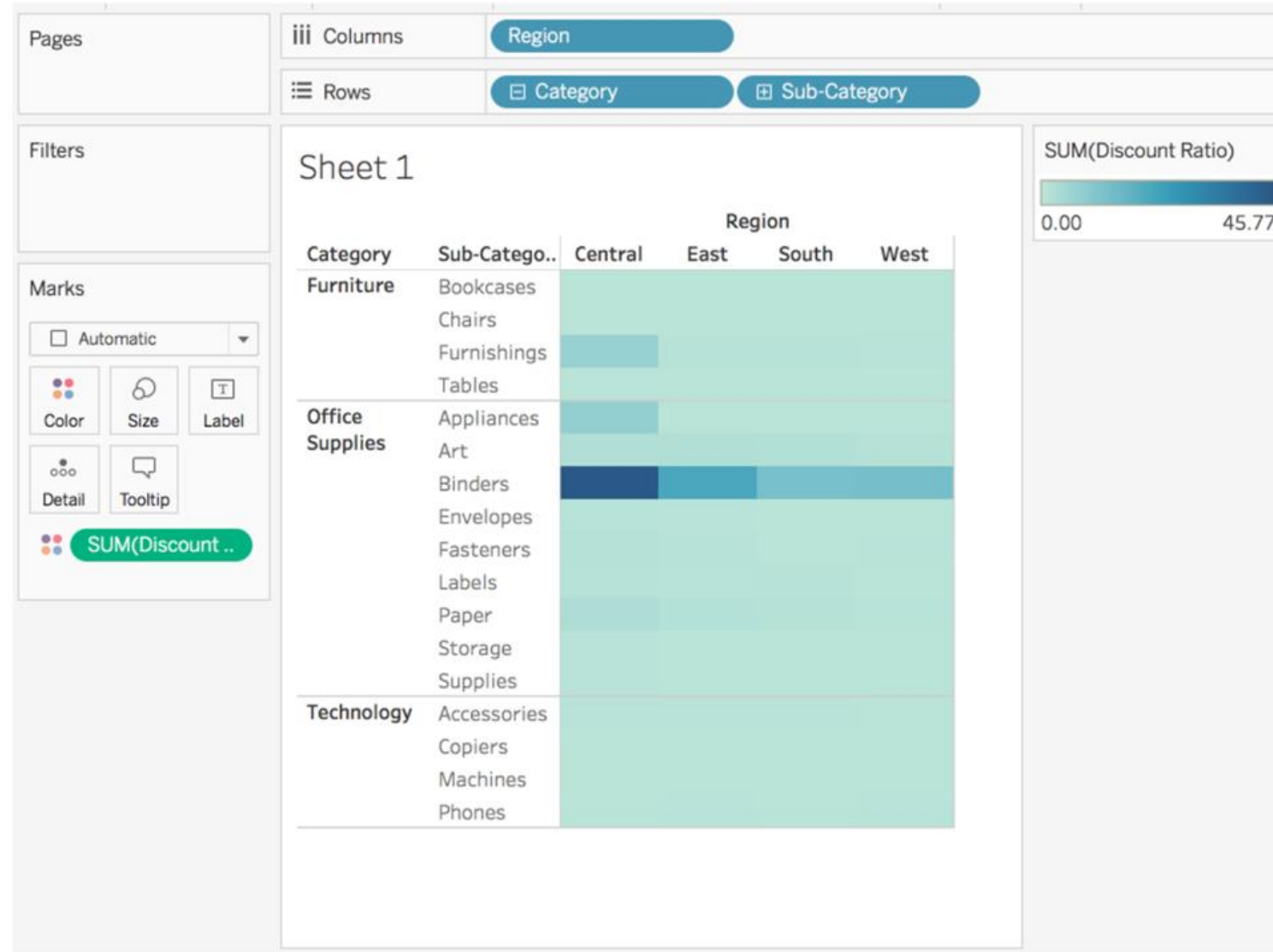
Bu şekilde hesaplama alanını kullanarak sadece A, B veya C ile başlayan müşteri isimlerini filtreleyebilirsiniz.

ABC Customers

```
IF LEFT([Customer Name], 1) = "A" OR  
LEFT([Customer Name], 1) = "B" OR  
LEFT([Customer Name], 1) = "C"  
THEN [Customer Name] END
```

Columns	
Rows	ABC Customers
Sheet 21	
ABC Customers	
Null	Abc
Aaron Bergman	Abc
Aaron Hawkins	Abc
Aaron Smayling	Abc
Adam Bellavance	Abc
Adam Hart	Abc
Adam Shillingsburg	Abc
Adrian Barton	Abc
Adrian Hane	Abc
Adrian Shami	Abc
Aimee Bixby	Abc
Alan Barnes	Abc
Alan Dominguez	Abc
Alan Haines	Abc
Alan Hwang	Abc
Alan Schoenberger	Abc
Alan Shonely	Abc
Alejandro Ballentine	Abc
Alejandro Grove	Abc
Alejandro Savely	Abc
Aleksandra Gannaway	Abc
Alex Avila	Abc
Alex Grayson	Abc
Alex Russell	Abc
Alice McCarthy	Abc

Calculated Fields

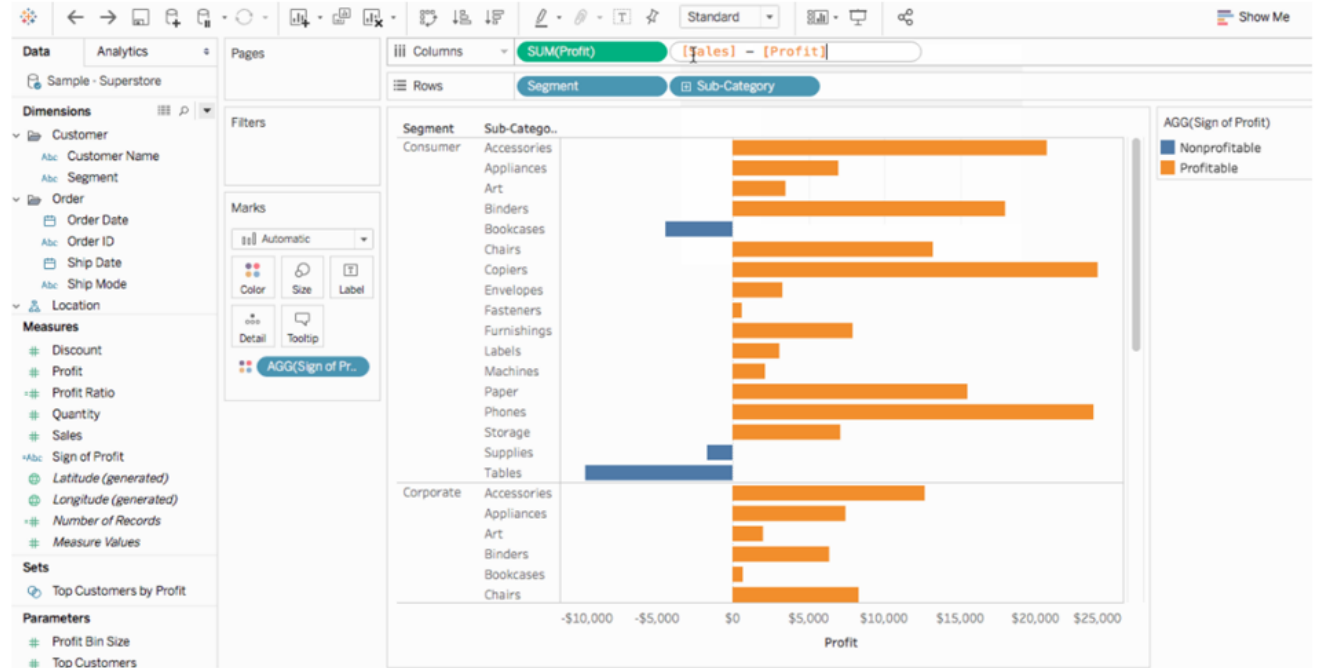


Calculated Fields



Hesapları Anlama

- Hesaplamalar, veri kaynağınızda zaten var olan verilerden yeni veriler oluşturmanıza ve ayrıca verileriniz üzerinde hesaplamalar yapmanıza olanak tanır



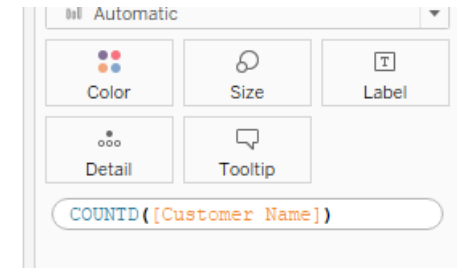
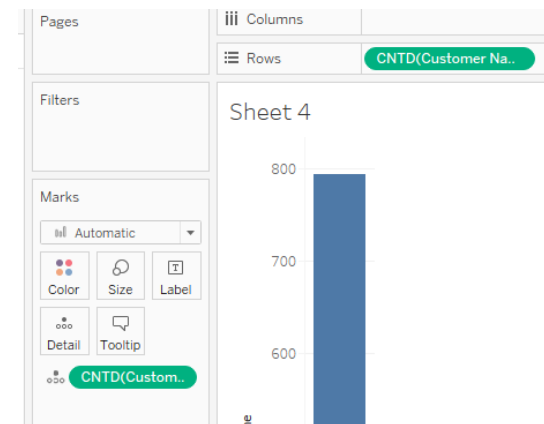
IFNULL

Profit Updated

```
IFNULL([Profit], 0)  
IFNULL(expr1, expr2)
```

Customer Name Updated

```
IFNULL([Customer Name], 'Unknown')  
IFNULL(expr1, expr2)
```



Calculation - Boolean

Columns: Sub-Category

Rows: Sub-Category

Sheet 7

Sub-Catego..	
Accessories	167.380
Appliances	107.532
Art	27.119
Binders	203.413
Bookcases	114.880
Chairs	328.449
Copiers	149.528
Envelopes	16.476
Fasteners	3.024
Furnishings	91.705
Labels	12.486
Machines	189.239
Paper	78.479
Phones	330.007
Storage	223.844
Supplies	46.674
Tables	206.966

Labels: 12.486

Filters: Sales_V3

Calculation: $\text{Sum}([\text{Sales}]) > 50000$

Filters: AGG(Sales_V3): True

Sheet 7

Sub-Catego..	
Accessories	167.380
Appliances	107.532
Binders	203.413
Bookcases	114.880
Chairs	328.449
Copiers	149.528
Furnishings	91.705
Machines	189.239
Paper	78.479
Phones	330.007
Storage	223.844
Tables	206.966

Filter [Sales_V3]

General

☒ Select from list ☐ Custom value list ☐ Use all

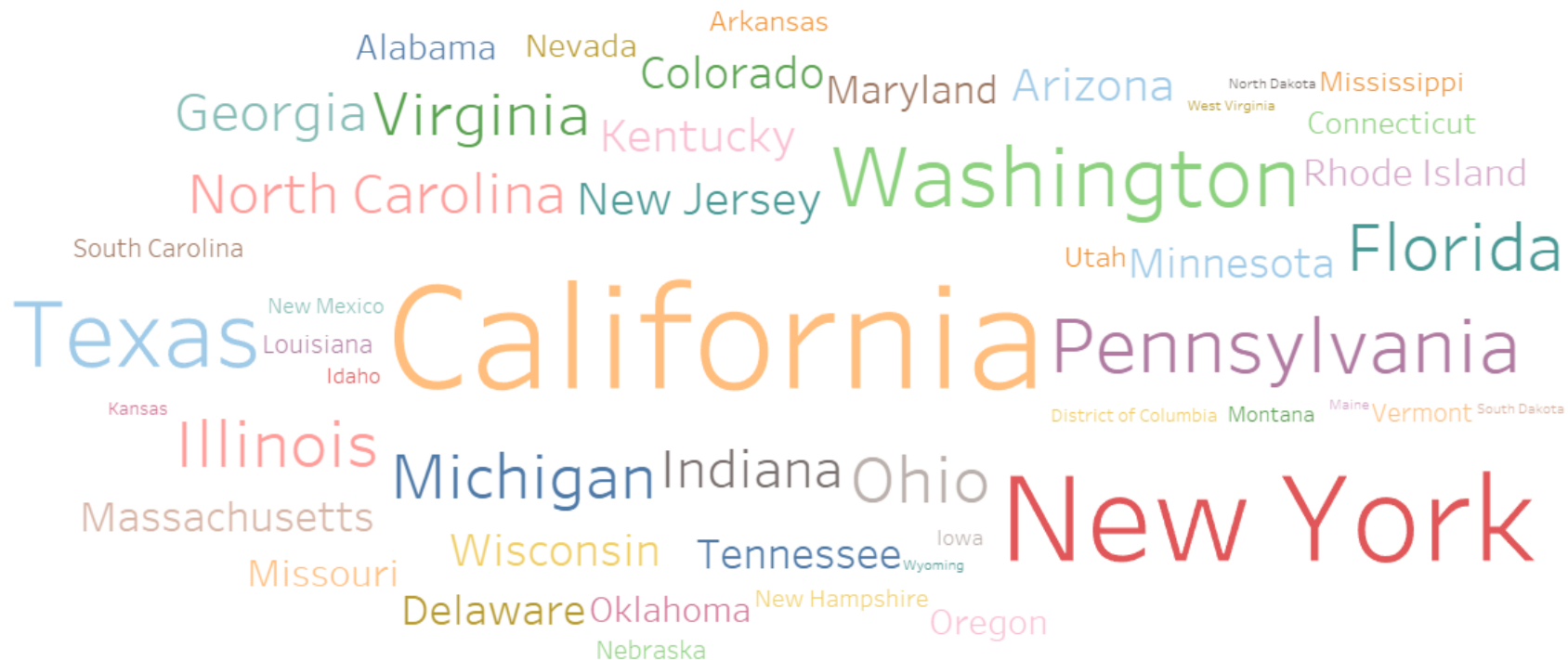
Enter search text

☐ False

☒ True

Word Cloud – Tree Map Oluşturma

Sheet 1



State	
Alabama	
Arizona	
Arkansas	
California	
Colorado	
Connecticut	
Delaware	
District of Columbia	
Florida	
Georgia	
Idaho	
Illinois	
Indiana	
Iowa	
Kansas	
Kentucky	
Louisiana	
Maine	
Maryland	
Massachusetts	
Michigan	
Minnesota	
Mississippi	
Missouri	
Montana	
Nebraska	
Nevada	
New Hampshire	
New Jersey	
New Mexico	
New York	
North Carolina	
North Dakota	
Ohio	
Oklahoma	



+ a b | e a u

QUICK TABLE CALCULATION

Quick Table Calculations

► Hızlı Tablo Hesaplamaları

- Hızlı tablo hesaplamaları, bu hesaplama türü için en tipik ayarları kullanarak görselleştirmenize ortak bir tablo hesaplamasını hızla uygulamanıza olanak tanır.

- Running total
- Difference
- Percent difference
- Percent of total
- Rank
- Percentile
- Moving average
- YTD total
- Compound growth rate
- Year of year growth
- YTD growth

Quick Table Calculations

1

Data Analytics Pages

Ofis Malzemeleri (OfficeSup...)

Search

Tables

- Item
- Order Date
- Region
- Rep
- Measure Names
- Quantity
- Sales
- Sales_v2
- Unit Price
- Ofis Malzemeleri (Count)
- Measure Values

Columns

Region Rep

Rows

Region Rep

Sheet 1

Region	Rep	
Central	Alex	2.815,00
	Bill	1.752,00
	Matthew	3.113,00
	Morgan	1.389,50
	Rachel	440,20
East	Smith	1.642,10
	Nick	538,00
	Richard	2.367,00
West	Susan	3.104,00
	James	1.285,00
	Thomas	1.204,00

Marks

Automatic

Color Size Text

Detail Tooltip

SUM(Sales)

4

iii Columns

Item

Rows

RegionRep

Sheet 1

Region	Rep	Item				
		Binder	Desk	Pen	Pen Set	Pencil
Central	Alex	1.935,00			250,00	630,00
	Bill	1.134,00		540,00		78,00
	Matthew	1.000,00	625,00		1.488,00	
	Morgan	252,00			687,50	450,00
	Rachel	140,00				300,20
	Smith	1.305,00	250,00			87,10
	Total	5.766,00	875,00	540,00	2.425,50	1.545,30
East	Nick	58,00		480,00		
	Richard	860,00		576,00	566,00	365,00
	Susan	1.620,00		300,00	1.184,00	
	Total	2.538,00		1.356,00	1.750,00	365,00
West	James	140,00	825,00	152,00		168,00
	Thomas	1.140,00				64,00
	Total	1.280,00	825,00	152,00		232,00

2

Analysis Map Format Server Window Help

Show Mark Labels

Aggregate Measures

Stack Marks

View Data...

Explain Data

Reveal Hidden Data

Percentage Of

Totals

- Forecast
- Trend Lines
- Special Values
- Table Layout
- Legends

Show Row Grand Totals

Show Column Grand Totals

Row Totals to Left

Column Totals to Top

Add All Subtotals

Remove All Subtotals

3

Sheet 1

Region	Rep	
Central	Alex	2.815,00
	Bill	1.752,00
	Matthew	3.113,00
	Morgan	1.389,50
	Rachel	440,20
East	Smith	1.642,10
	Total	11.151,80
	Nick	538,00
West	Richard	2.367,00
	Susan	3.104,00
	Total	6.009,00
West	James	1.285,00
	Thomas	1.204,00
	Total	2.489,00

5

Analysis Map Format Server Window Help

Show Mark Labels

Aggregate Measures

Stack Marks

View Data...

Explain Data

Reveal Hidden Data

Percentage Of

Totals

- Forecast
- Trend Lines
- Special Values
- Table Layout
- Legends
- Filters
- Highlighters
- Parameters
- Create Calculated Field...
- Edit Calculated Field
- Infer Properties from Missing Values
- Cycle Fields

Show Row Grand Totals

Show Column Grand Totals

Row Totals to Left

Column Totals to Top

Add All Subtotals

Remove All Subtotals

Total All Using

Item

Pen	Pen Set	Pencil	Grand To..
40,00	250,00	630,00	2.815,00
	78,00		1.752,00
	1.488,00		3.113,00
	687,50	450,00	1.389,50
		300,20	440,20
		87,10	1.642,10
40,00	2.425,50	1.545,30	11.151,80
58,00			538,00
860,00	576,00	566,00	365,00
1.620,00	300,00	1.184,00	3.104,00
2.538,00	1.356,00	1.750,00	365,00
140,00	825,00	152,00	168,00
1.140,00			64,00
1.280,00	825,00	152,00	232,00
			2.489,00

Quick Table Calculations

1

Columns: Item
Rows: Region Rep

Sheet 1

Region	Rep	Binder	Desk	Pen	Pen Set	Pencil	Grand To..
Central	Alex	1.935,00			250,00	630,00	2.815,00
	Bill	1.134,00		540,00		78,00	1.752,00
	Matthew	1.000,00	625,00		1.488,00		3.113,00
	Morgan	252,00			687,50	450,00	1.389,50
	Rachel	140,00				300,20	440,20
	Smith	1.305,00	250,00			87,10	1.642,10
	Total	5.766,00	875,00	540,00	2.425,50	1.545,30	11.151,80
East	Nick	58,00		480,00			538,00
	Richard	860,00		576,00	566,00	365,00	2.367,00
	Susan	1.620,00		300,00	1.184,00		3.104,00
	Total	2.538,00		1.356,00	1.750,00	365,00	6.009,00
West	James	140,00	825,00	152,00		168,00	1.285,00
	Thomas	1.140,00				64,00	1.204,00
	Total	1.280,00	825,00	152,00		232,00	2.489,00
Grand Total		9.584,00	1.700,00	2.048,00	4.175,50	2.142,30	19.649,80

SUM(Sales)

2

Analysis Map Format Server Window Help

Aggregate Measures

Percentage Of

- None
- Table
- Column
- Row
- Pane
- Row in Pane
- Column in Pane
- Cell

	Desk	Pen	Pen Set	Pencil	Grand To..
			1,27%	3,21%	14,33%
	2,75%			0,40%	8,92%
			7,57%		15,84%
			3,50%	2,29%	7,07%
				1,53%	2,24%
	29,34%	4,45%	2,75%	7,86%	56,75%
	0,30%		2,44%		2,74%
	4,38%		2,93%	1,86%	12,05%
	8,24%		1,53%	6,03%	15,80%
	12,92%		6,90%	8,91%	30,58%
	0,71%	4,20%	0,77%	0,85%	6,54%
	5,80%			0,33%	6,13%
	6,51%	4,20%	0,77%	1,18%	12,67%
	48,77%	8,65%	10,42%	21,25%	100,00%

Quick Table Calculations

Pages

Columns: Item

Rows: Region Rep

Filters

Sheet 1

Marks: Automatic

Region	Rep	Binder	Desk	Pen	Pen Set	Pencil	Grand To..
Central	Alex	9,85%			1,27%	3,21%	14,33%
	Bill	5,77%		2,75%		0,40%	8,92%
	Matthew	5,09%	3,18%		7,57%		15,84%
	Morgan	1,28%			3,50%	2,29%	7,07%
	Rachel	0,71%				1,53%	2,24%
	Smith	6,64%	1,27%			0,44%	8,36%
	Total	29,34%	4,45%	2,75%	12,34%	7,86%	56,75%
East	Nick	0,30%		2,44%			2,74%
	Richard	4,38%		2,93%	2,88%	1,86%	12,05%
	Susan	8,24%		1,53%	6,03%		15,80%
	Total	12,92%		6,90%	8,91%	1,86%	30,58%
West	James	0,71%	4,20%	0,77%		0,85%	6,54%
	Thomas	5,80%				0,33%	6,13%
	Total	6,51%	4,20%	0,77%		1,18%	12,67%
Grand Total		48,77%	8,65%	10,42%	21,25%	10,90%	100,00%

Pages

Columns: Item

Rows: Region Rep

Filters

Sheet 1

Marks: Square

Region	Rep	Binder	Desk	Pen	Pen Set	Pencil	Grand To..
Central	Alex	9,85%			1,27%	3,21%	14,33%
	Bill	5,77%		2,75%		0,40%	8,92%
	Matthew	5,09%	3,18%		7,57%		15,84%
	Morgan	1,28%			3,50%	2,29%	7,07%
	Rachel	0,71%				1,53%	2,24%
	Smith	6,64%	1,27%			0,44%	8,36%
	Total	29,34%	4,45%	2,75%	12,34%	7,86%	56,75%
East	Nick	0,30%		2,44%			2,74%
	Richard	4,38%		2,93%	2,88%	1,86%	12,05%
	Susan	8,24%		1,53%	6,03%		15,80%
	Total	12,92%		6,90%	8,91%	1,86%	30,58%
West	James	0,71%	4,20%	0,77%		0,85%	6,54%
	Thomas	5,80%				0,33%	6,13%
	Total	6,51%	4,20%	0,77%		1,18%	12,67%
Grand Total		48,77%	8,65%	10,42%	21,25%	10,90%	100,00%

Quick Table Calculations

- ❑ Yalnızca görünümdeki ölçüler üzerinde hızlı tablo hesaplamaları yapabilirsiniz.
- ❑ Bu önceden tanımlanmış hesaplamalar, sonuçları yalnızca görünümdeki sayıları içeren sanal bir tabloya dayalı olarak hesapladıkları için tablo hesaplamaları olarak adlandırılır.
- ❑ Alana hızlı tablo hesaplamalarının uygulandığını belirtmek için alanda bir delta sembolü görünür
- ❑ Tablo hesaplamaları, gelecekte kullanılmak üzere hesaplanmış bir alan olarak kaydedilebilir



FINISH..

Do you have any question...?