

DT/NT : DATA SCIENCE
LESSON : TABLEAU
SUBJECT: SHARE – FILTERS
GROUP - HIERARCHY

BATCH: 223

22.09.2023



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Tableau - 3

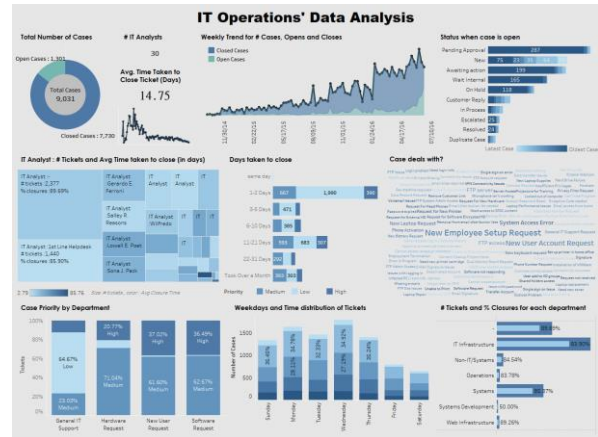


Analyze Data and Dashboard



Content

- Analyze Data
- Share your work
- Filters
- Sorting Data
- Creating Groups and Hierarchies



Analyze Data



Basic Workflow of Tableau

- Sharing metotları
 - Dashboard
 - .twbx dosyaları
 - Tableau Public Cloud hesabı
 - Tableau Reader

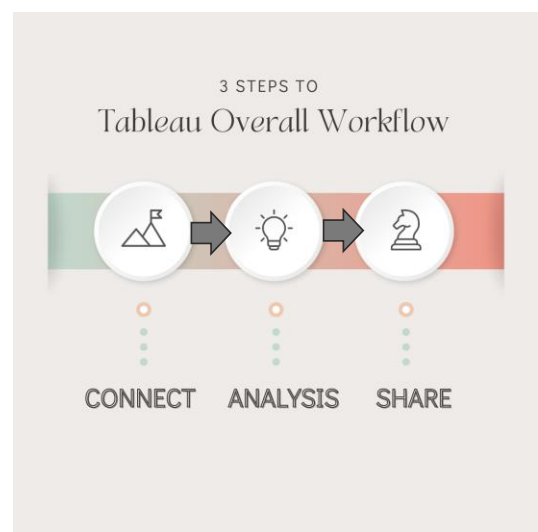
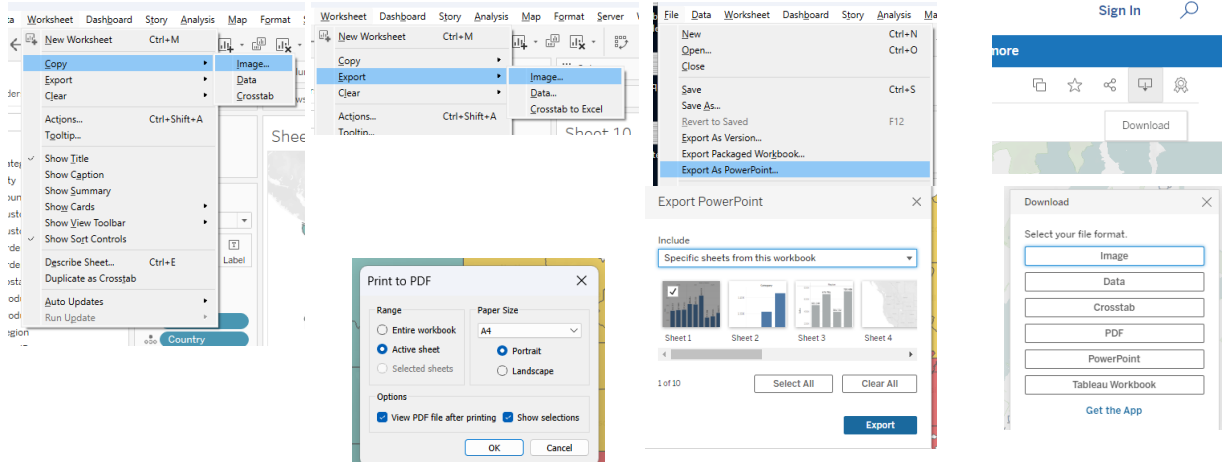


Image Save and Export

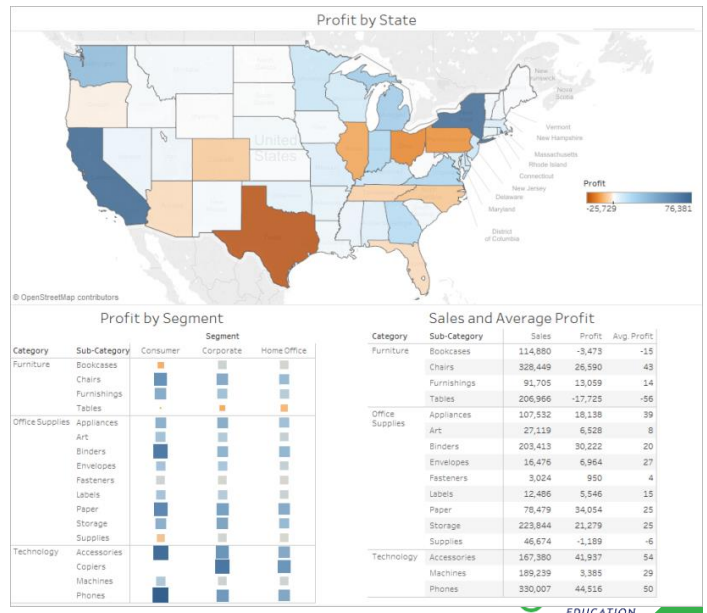


What is Dashboard?

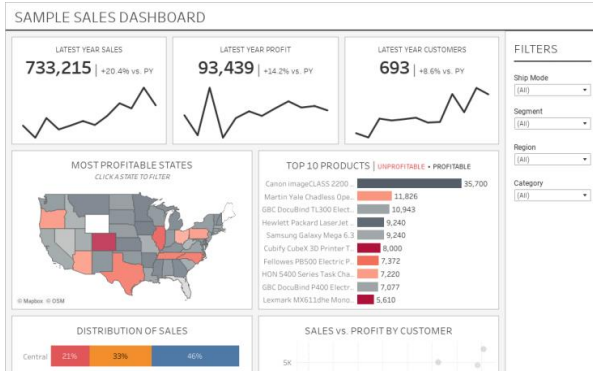


► Dashboard

- worksheet'lerin ve ilgili bilgilerin tek bir görsel alanda birleştirilmiş görüntüsü
- Verileri aynı anda karşılaştırma ve izleme imkanı



Dashboard samples



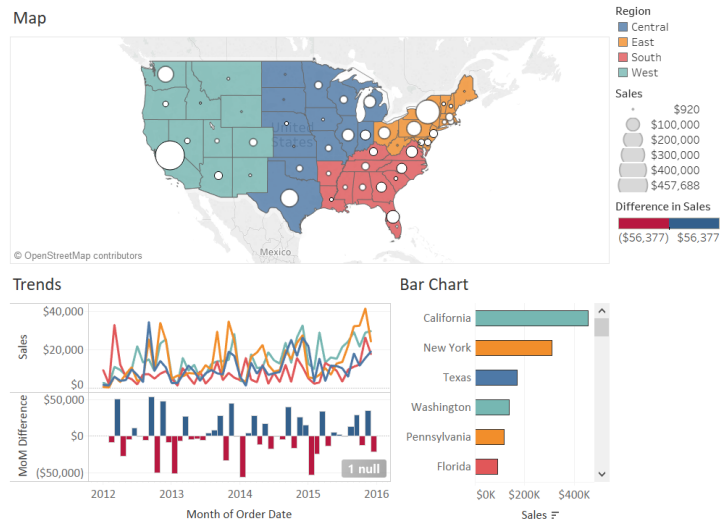
What is Dashboard



Dashboard hakkında

- Bir tür grafik kullanıcı arabirimidir
- Progress Report veya Report

Tableau 201 Dashboard



Dashbord Hands-on

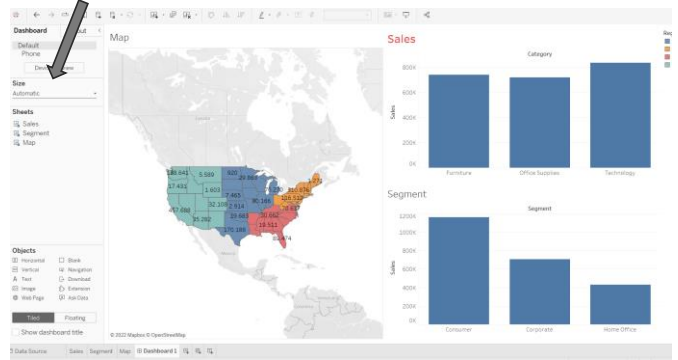
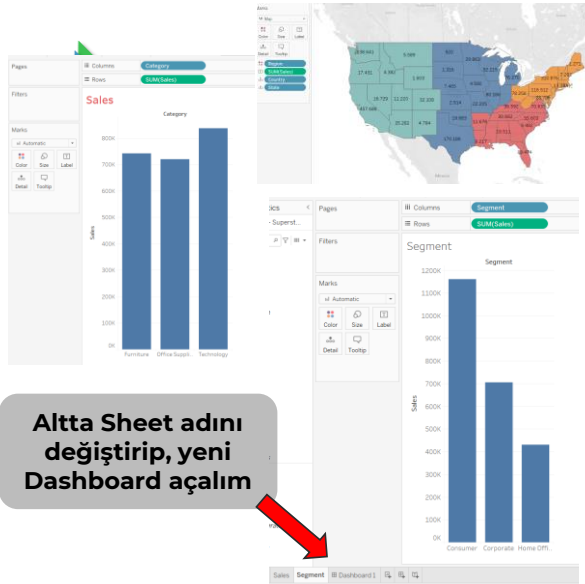


Tableau Public Cloud



Share

- Local'de olmayacak dosyalar için kullanılabilir
- Tableau Public, dünyadaki en büyük veri görselleştirme deposudur.

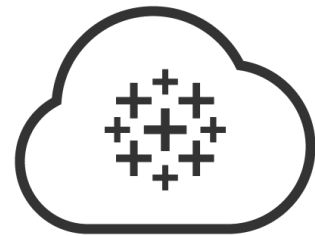
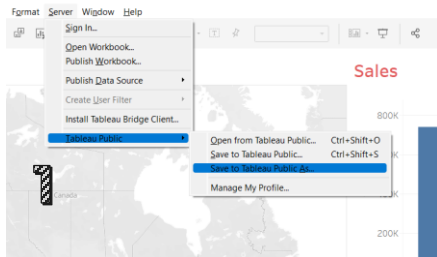


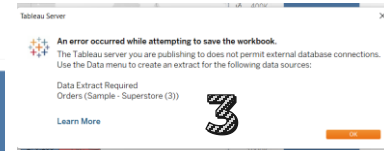
TABLEAU
PUBLIC



Publish Process



2



4

Connection
☒ Live ☐ Extract

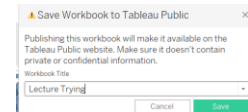
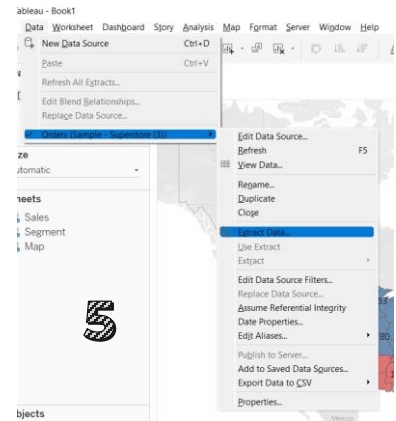
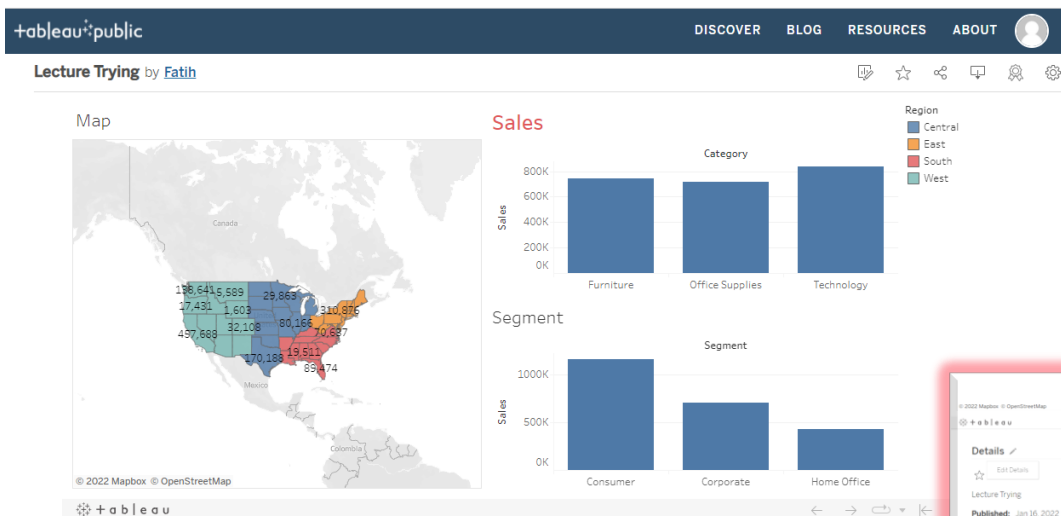
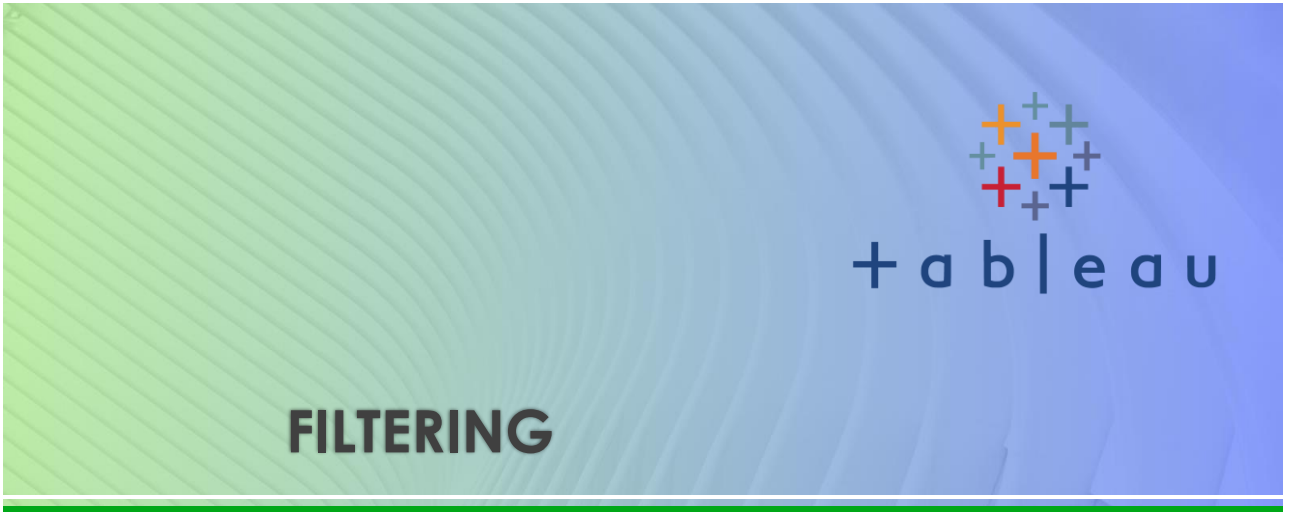
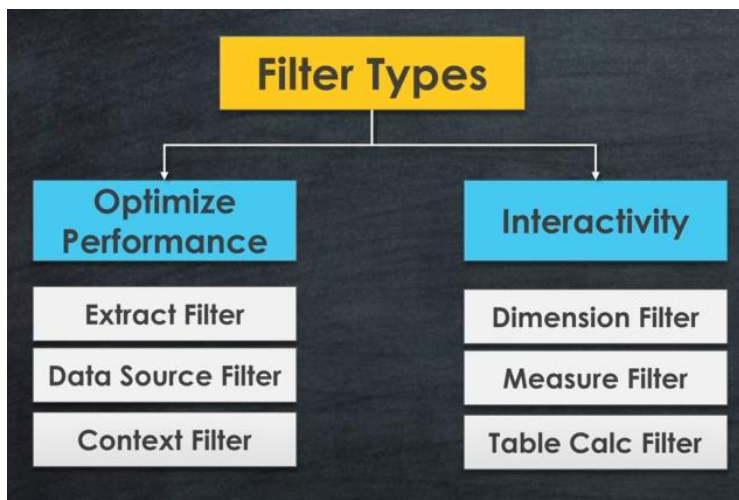


Tableau Public

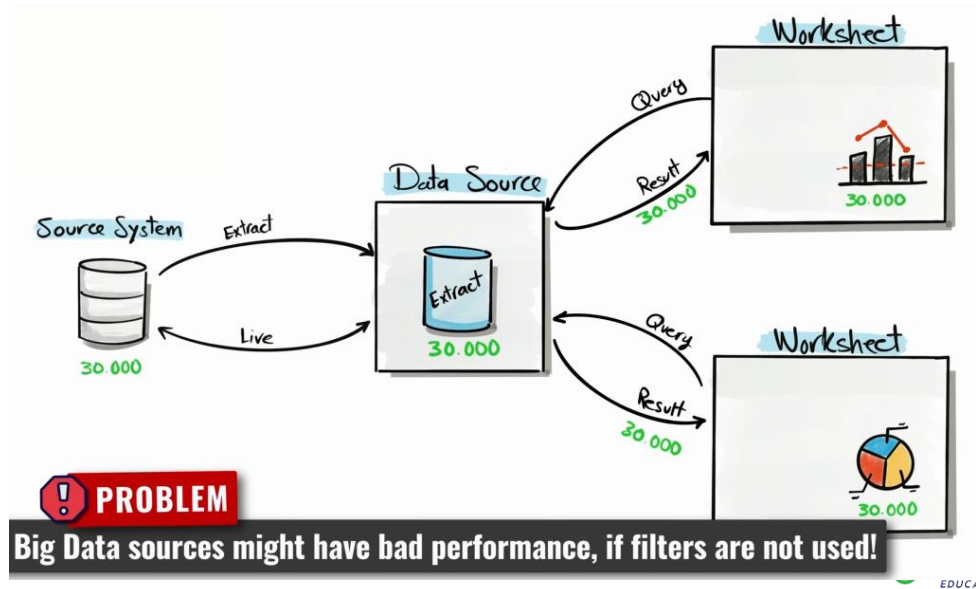




Amaçlarına göre Filtreleme tipleri



Why filtering

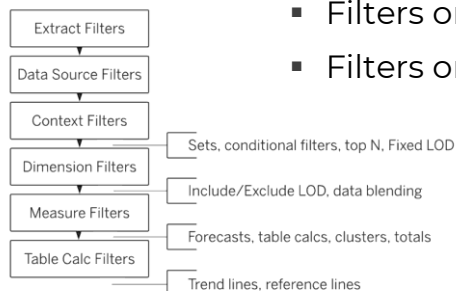


Filtering



Filtre Türleri

- Extract filter
- Data source filters
- Context filters
- Filters on dimensions
- Filters on measures



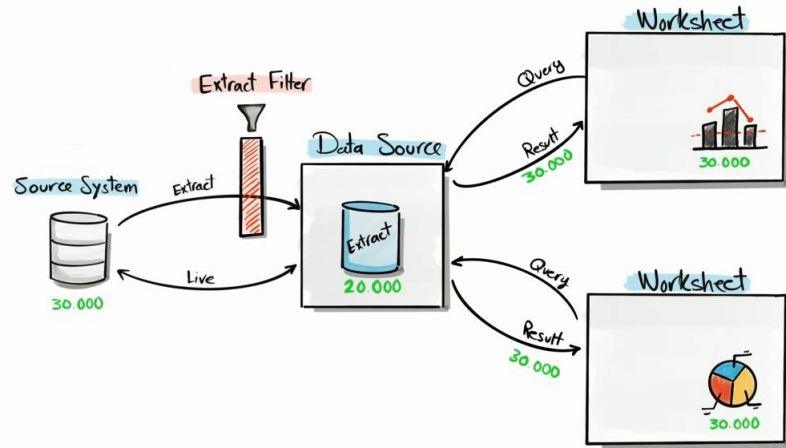
Operation Sırası

- Extract filter
- Data source filters
- Context filters
- Filters on dimensions
- Filters on measures

Amaçlarına göre Filtreleme tipleri

Extract Filter

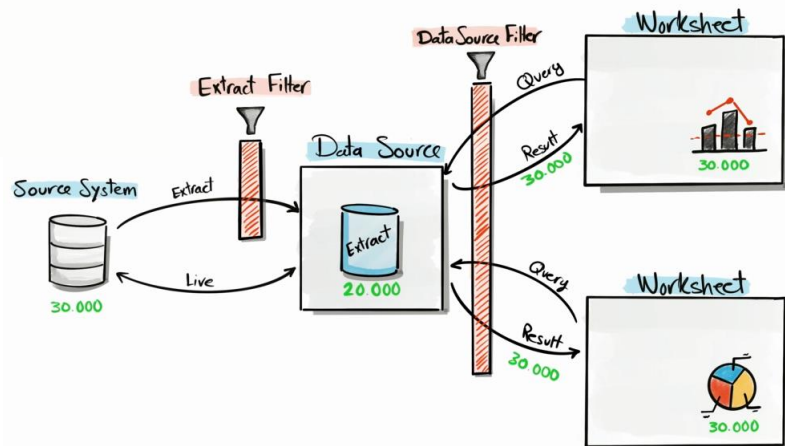
Used to filter data before it even enters Tableau



Amaçlarına göre Filtreleme tipleri

Data Source Filter

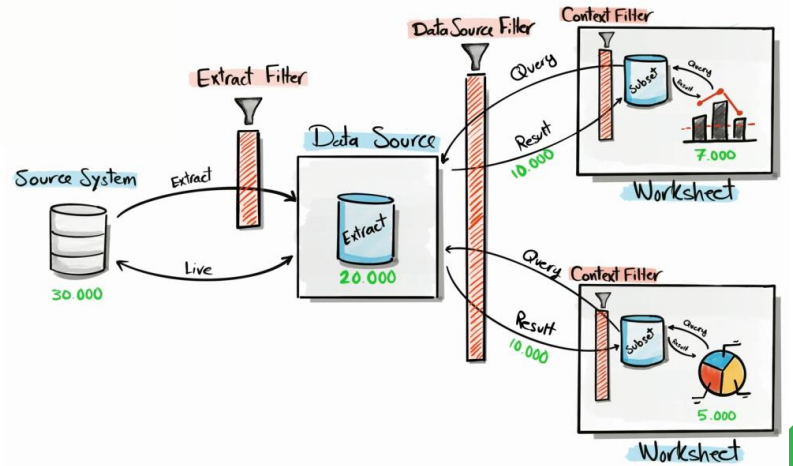
Filter data between data source and worksheets



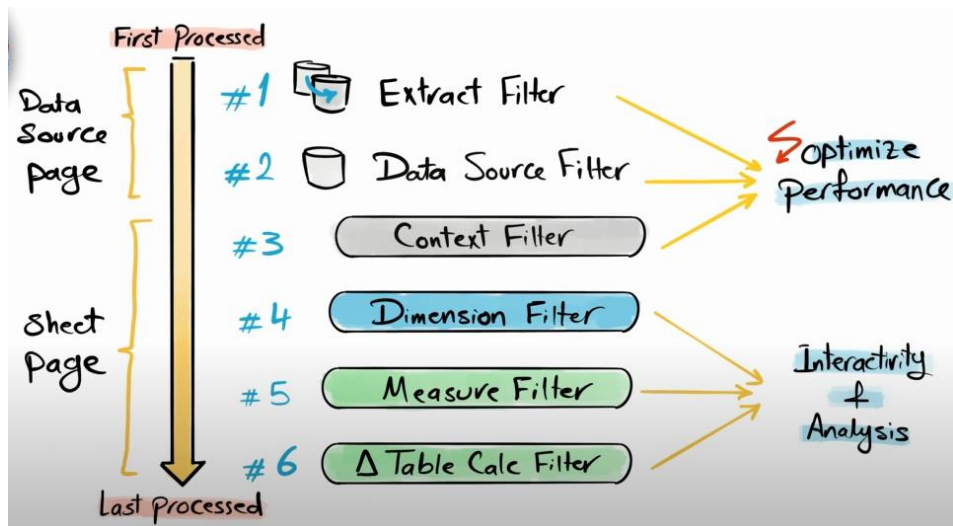
Amaçlarına göre Filtreleme tipleri

Context Filter

Creates temporal filtered subset of data in worksheets



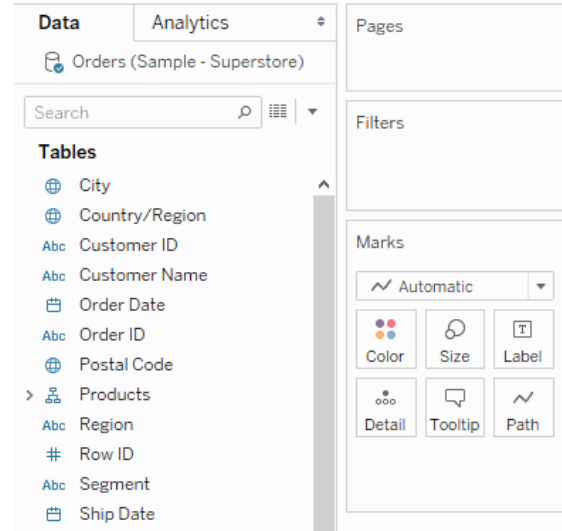
Filtre Sıralaması



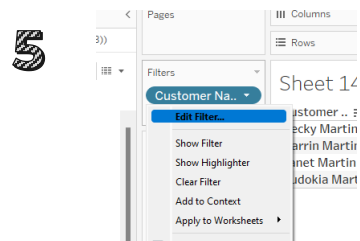
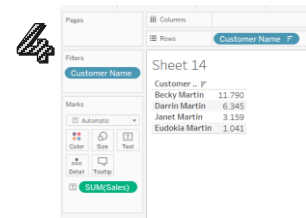
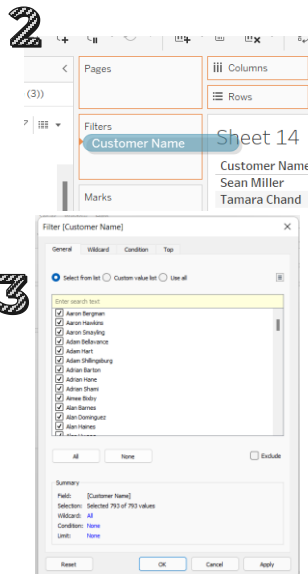
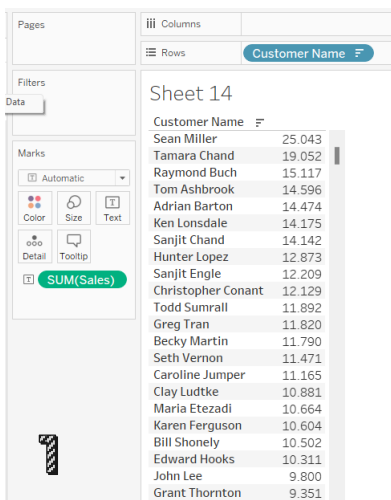
Filtering



- Daha hızlı işleme için genel veri sıklığını azaltmak üzere
- Filtre iletişim kutusu, kategorik verileri (dimension), nicel verileri (measures) veya tarih alanlarını filtrelemenize bağlı olarak farklılık gösterir.



Filters



Filters

1 Filter (Customer Name)

General Wildcard Condition Top

☐ None

☒ By field:

Sales Sum

> 10.000

Range of Values

Min: Load

Max: Load

☐ By formula:

2

Sheet 14

Customer Name	F
Sean Miller	25.043
Tamara Chand	19.052
Raymond Buch	15.117
Tom Ashbrook	14.596
Adrian Barton	14.474
Ken Lonsdale	14.175
Sanjit Chand	14.142
Hunter Lopez	12.873
Sanjit Engle	12.209
Christopher Conant	12.129
Todd Sumrall	11.892
Greg Tran	11.820
Becky Martin	11.790
Seth Vernon	11.471
Caroline Jumper	11.165
Clay Ludtke	10.881
Maria Etezadi	10.664
Karen Ferguson	10.604
Bill Shonely	10.502
Edward Hooks	10.311

3 Filter (Customer Name)

General Wildcard Condition Top

☐ None

☒ By field:

Top 20 by

Sales Sum

Top 10 by

4

Customer Name F

Sean Miller	25.043
Tamara Chand	19.052
Raymond Buch	15.117
Tom Ashbrook	14.596
Adrian Barton	14.474
Ken Lonsdale	14.175
Sanjit Chand	14.142
Hunter Lopez	12.873
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Clay Ludtke	10.881
Maria Etezadi	10.664
Karen Ferguson	10.604
Bill Shonely	10.502
Edward Hooks	10.311

5

Customer Name

Edit Filter...

Show Filter

Show Highlighter

Clear Filter

Add to Context

Apply to Worksheets

Sort...

Create Set...

Dimension

Attribute

Measure

Remove



Filters

1 Filter (Customer Name)

General Wildcard Condition Top

☐ Exclude

Match values:

si

☒ Contains

☒ Starts with

☐ Ends with

☐ Exactly matches

☒ Include all values when empty

2

Filter (Customer Name)

General Wildcard Condition Top

☐ None

☒ By field:

Sales Sum

> 3.000

Range of Values

Min: Load

Max: Load

☐ By formula:

3

Columns

Customer Name

Sheet 14

Customer Name	F
Sean Miller	25.043
Sanjit Chand	14.142
Sanjit Engle	12.209
Seth Vernon	11.471
Sean Branton	8.058
Sarah Brown	6.421
Shirley Daniels	6.122
Shahid Callister	5.993
Suzanne McNeil	5.563
Stefania Perrino	5.440
Steven Cartwright	5.226
Sue Ann Reed	4.762
Sample Company A	4.625
Stewart Carmichael	4.493
Scott Conan	4.372
Steven Roelle	4.346
Sung Pak	4.283
Stewart Vlinsky	4.105
Susan Pitsek	3.991
Sean Christensen	3.979

4

Filter Field (Sales)

How do you want to filter on (Sales)?

All values

- Sum
- Average
- Median
- Count
- Count (Distinct)
- Minimum
- Maximum
- Standard deviation
- Standard deviation (Population)
- Variance
- Variance (Population)
- Attribute

5

Filter (Sales)

Range of values

Range of values

4,833 25.043,05

4,833 25.043,05

Show: Only Relevant Values

☐ Include Null Values

Reset OK Cancel Apply

6

Filters

SUM(Sales)

Customer Name

Customer Sean M

7

Sheet 14

Customer Name	F
Sean Miller	25.043
Sanjit Chand	14.142
Sanjit Engle	12.209
Seth Vernon	11.471

Filter (Customer Name)

General Wildcard Condition Top

☐ None

☒ Starts with

☐ Ends with

☒ Include all values when empty

Filters

1. Initial state: The chart shows data for all sub-categories. The 'Filters' pane on the left shows 'Sub-Category' as the active filter.

2. Clicking the 'Sub-Category' filter button in the 'Filters' pane.

3. The 'Filters' pane is expanded, showing options like 'Edit Filter...', 'Show Filter', 'Show Highlighter', 'Clear Filter', 'Add to Context', 'Apply to Worksheets', 'Sort...', and 'Create Set...'.

4. The 'Edit Filter...' dialog is open, showing the 'Sub-Category' filter is selected.

5. The 'Edit Filter...' dialog is open, showing the 'Sub-Category' filter is selected.

6. The 'Edit Filter...' dialog is open, showing the 'Sub-Category' filter is selected.

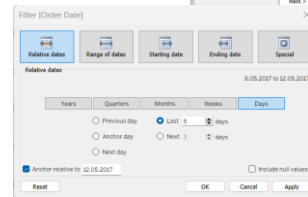
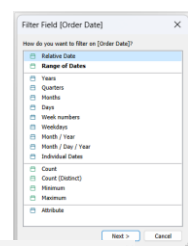
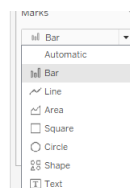
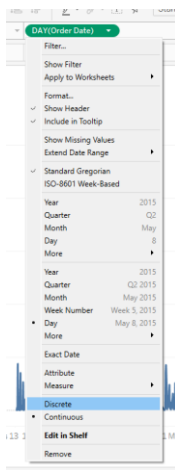
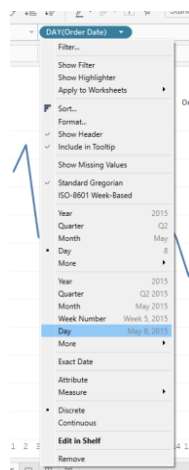
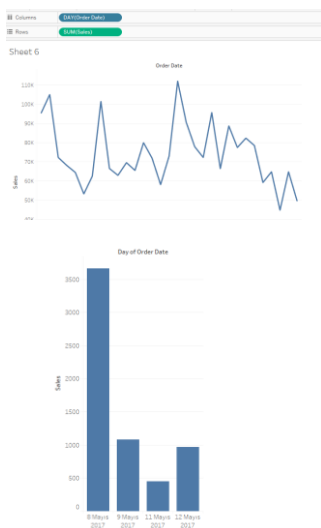
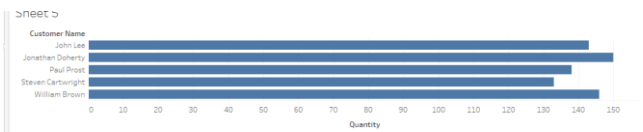
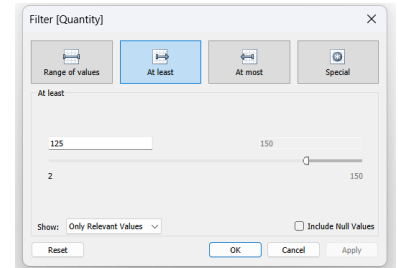
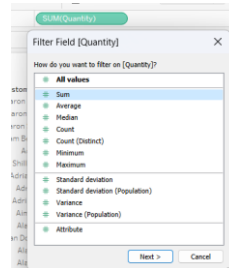
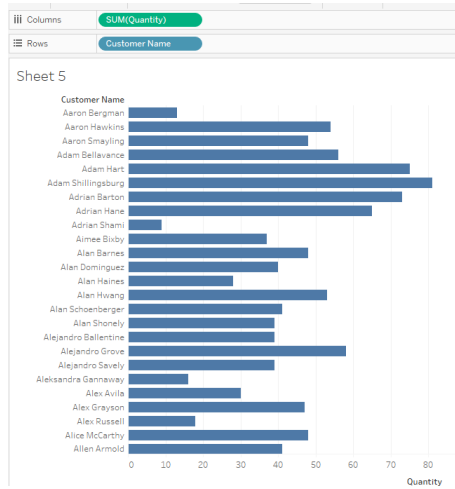
7. The 'Edit Filter...' dialog is open, showing the 'Sub-Category' filter is selected.

Filter simplicity

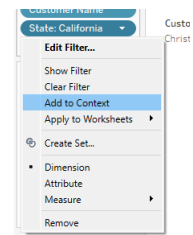
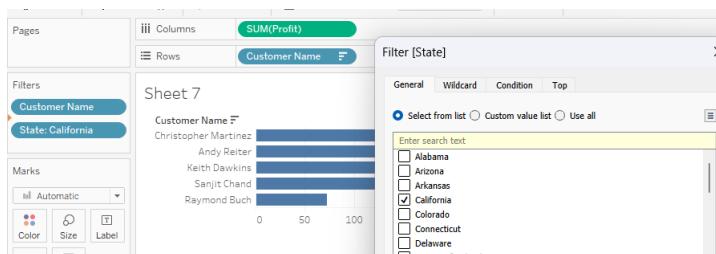
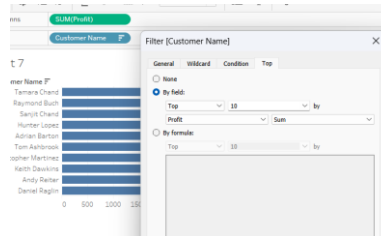
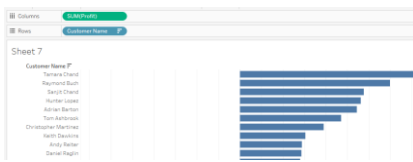
Sheet 2: Sub-C. F. The chart shows data for all sub-categories. The 'Filters' pane on the left shows 'Sub-Category' as the active filter.

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Filters örnek



Filter örnek



SORTING DATA

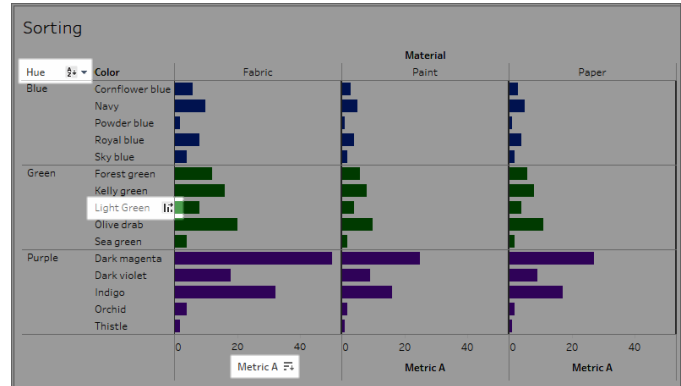


SORTING DATA

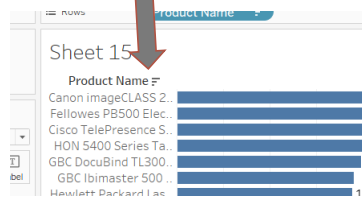
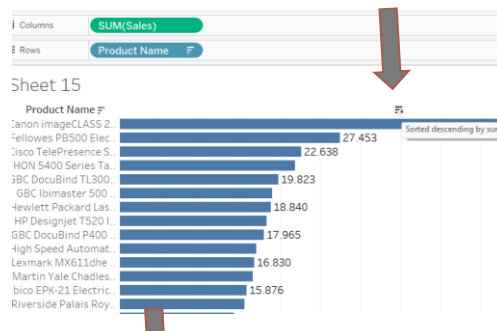
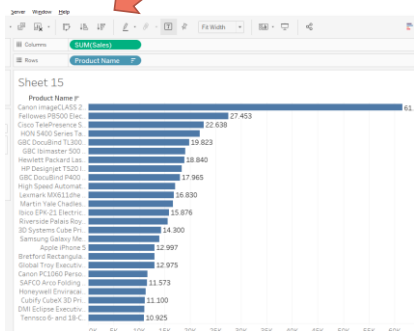


Veri Sıralama

- Numerik veriler için büyükten küçüğe, string verilerde alfabetik olarak sıralamak
- Veriler, artan, azalan düzen gibi veri kaynağına göre sıralanabilir veya herhangi bir ölçülen değere bağlı olabilir.

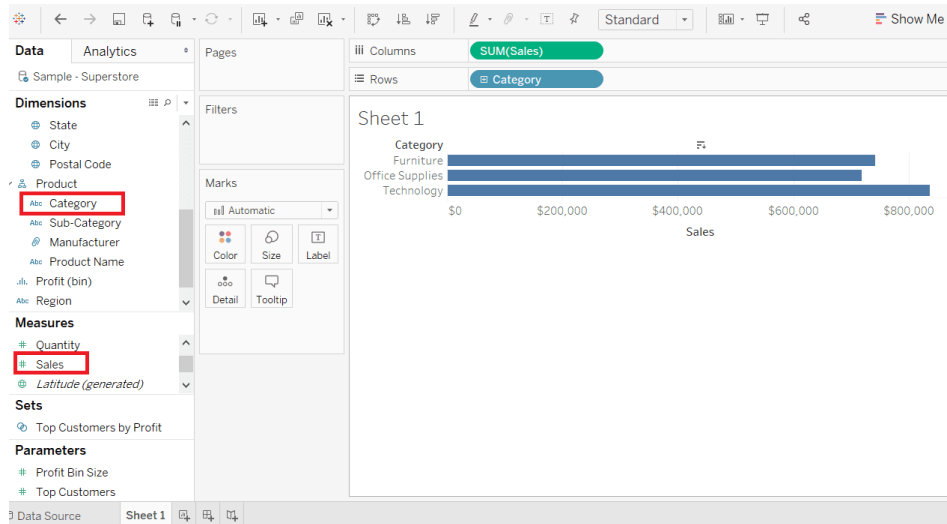


SORTING DATA

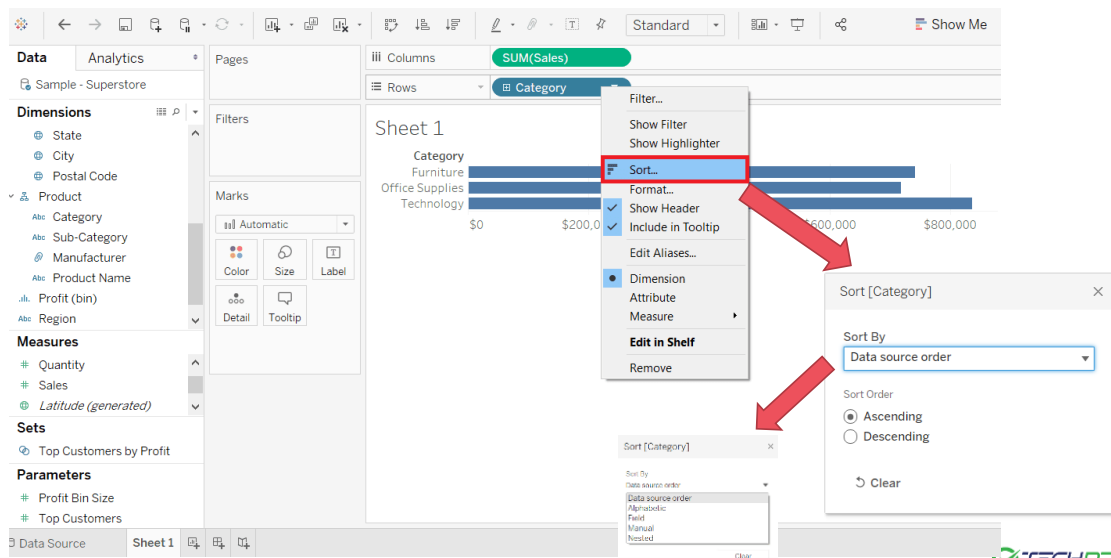




SORTING DATA



SORTING DATA





Sorting Data



SORTING DATA



Sheet 1

Category: Office Supplies, Furniture, Technology

Sort [Category]

Sort By: Field ①

Sort Order: ☒ Ascending, ☐ Descending

Field Name: Sales ②

Aggregation: Sum ③

Clear ④

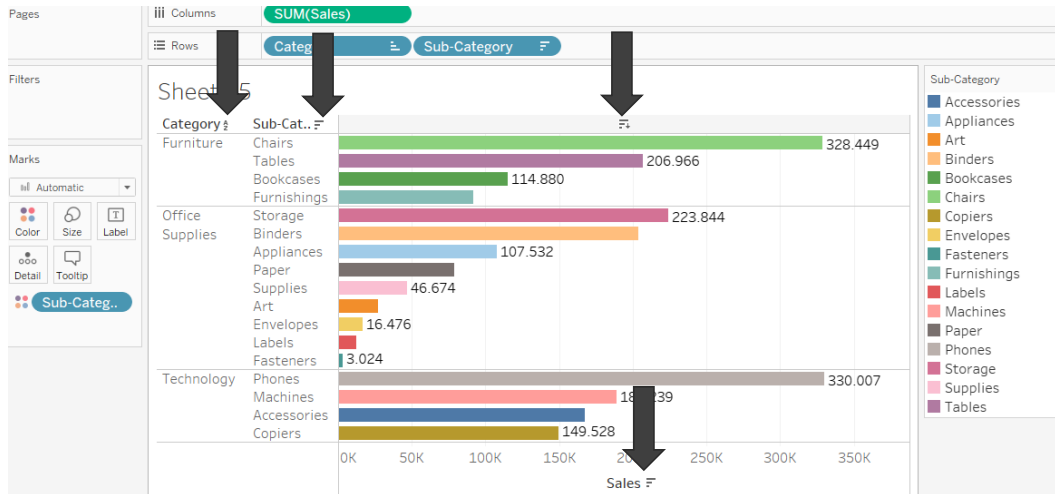




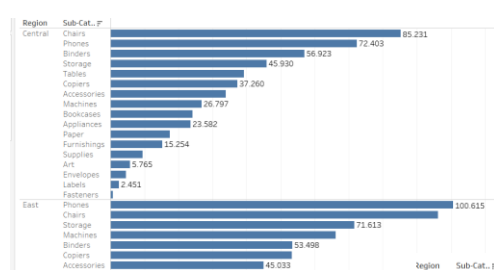
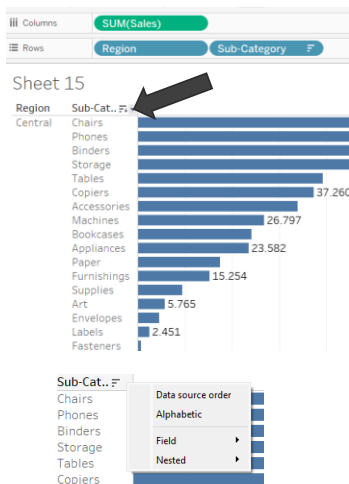
SORTING DATA



Sort on the basis of an Axis:

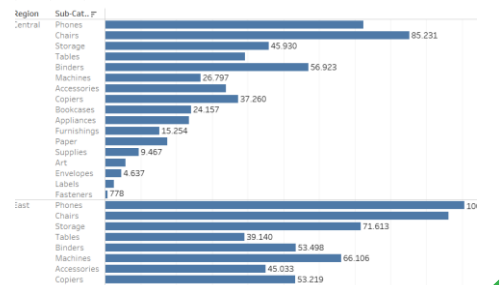


SORTING DATA



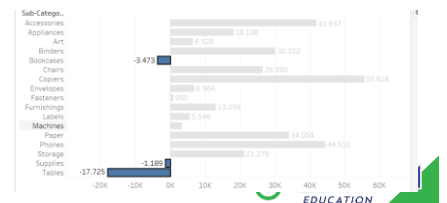
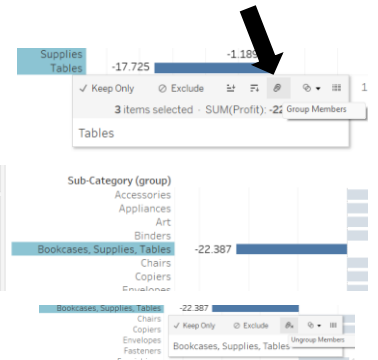
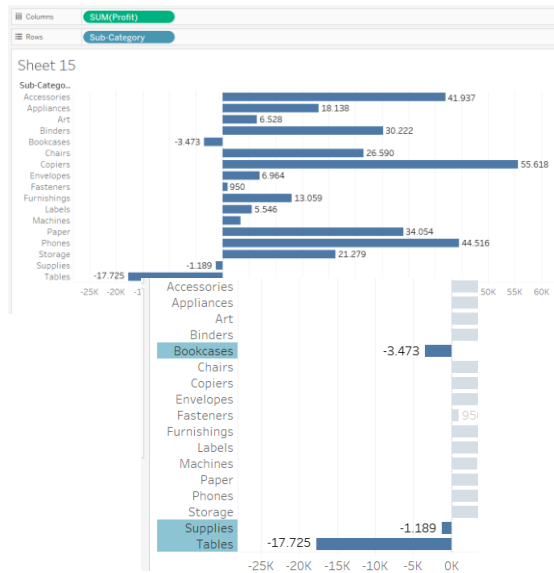
Nested

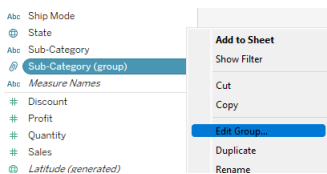
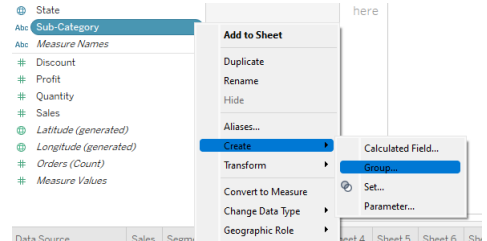
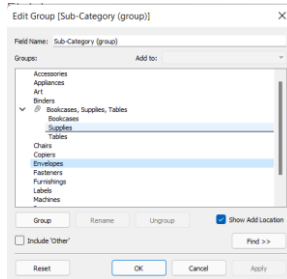
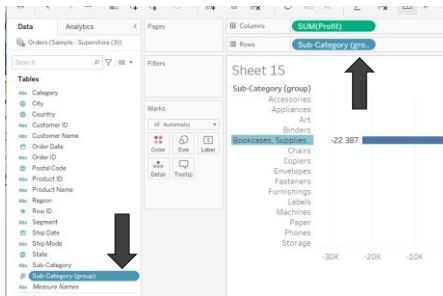
Field



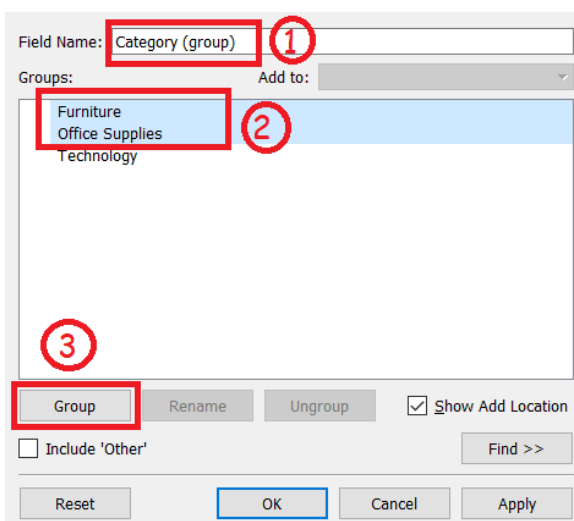


Gruplar, bir alanda bulunan ilgili üyeleri birleştirmek için kullanılır.

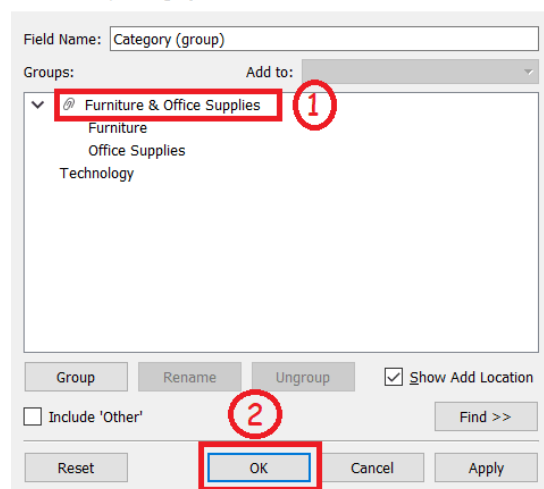




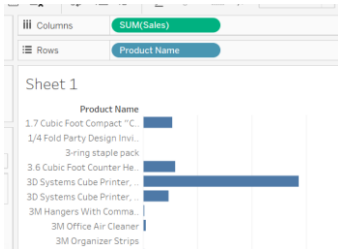
Create Group [Category]



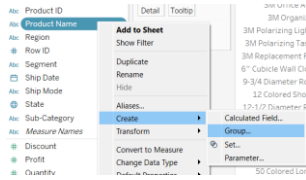
Create Group [Category]



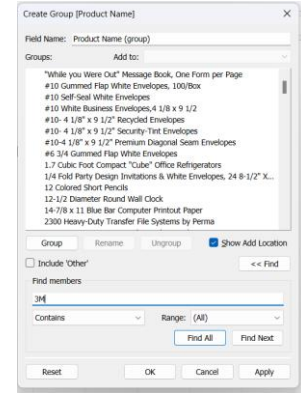
Group örnek



3D Systems Cube Printer, 2nd Generation, Magenta
 3D Systems Cube Printer, 2nd Generation, White
 3M Hangers With Command Adhesive
 3M Office Air Cleaner
 3M Organizer Strips
 3M Polarizing Light Filter Sleeves
 3M Polarizing Task Lamp with Clamp Arm, Light Gray
 3M Replacement Filter for Office Air Cleaner for 20' x 33' Room
 4009 Highlighters
 4009 Highlighters



3D Systems Cube Printer, 2nd Generation, White
 3M
 3M Hangers With Command Adhesive
 3M Office Air Cleaner
 3M Organizer Strips
 3M Polarizing Light Filter Sleeves
 3M Polarizing Task Lamp with Clamp Arm, Light Gray
 3M Replacement Filter for Office Air Cleaner for 20' x 33' Room
 4009 Highlighters



CREATING HIERARCHIES

Creating Hierarchies

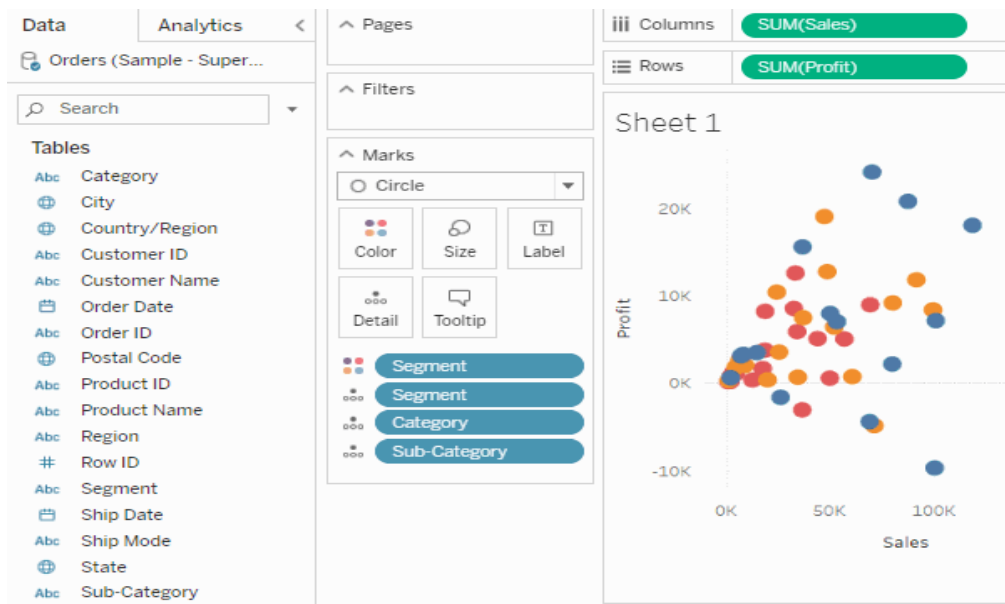


Bir veri kaynağına bağlandığınızda, Tableau tarih alanlarını otomatik olarak hiyerarşilere ayırır, böylece görseli kolayca parçalayabilirsiniz

Hierarchy in Tableau



Creating Hierarchies





Creating Hierarchies



Sheet 15

Category	Segment	
Furniture	Consumer	Abc
	Corporate	Abc
	Home Office	Abc
Office Supplies	Consumer	Abc
	Corporate	Abc
	Home Office	Abc
Technology	Consumer	Abc
	Corporate	Abc
	Home Office	Abc

Tables

Abc	Category	
	Sub-Category	
	Country	
Abc	Customer ID	

Furniture	Bookcases	Abc
	Chairs	Abc
	Furnishings	Abc
	Tables	Abc

Create Hierarchy

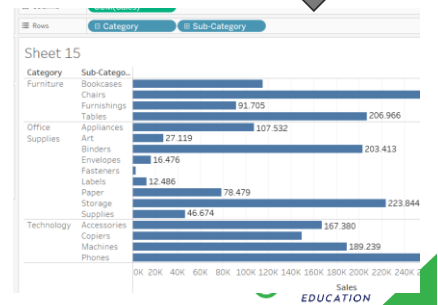
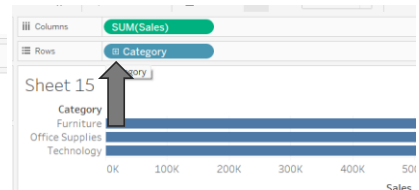
Name: Category, Sub-Category

OK Cancel

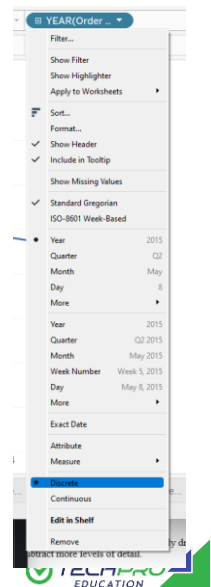
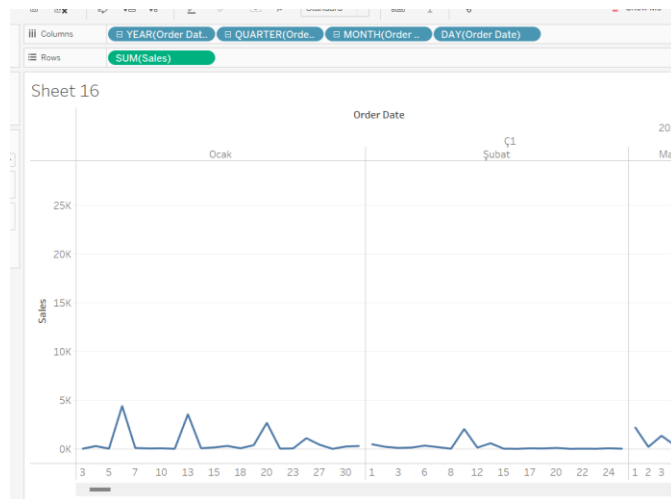
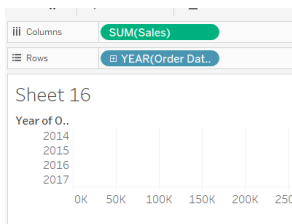
Technology	Storage	Abc
	Supplies	Abc
	Accessories	Abc
	Copiers	Abc
	Machines	Abc
	Phones	Abc

Tables

- Category
 - Sub-Category
 - City

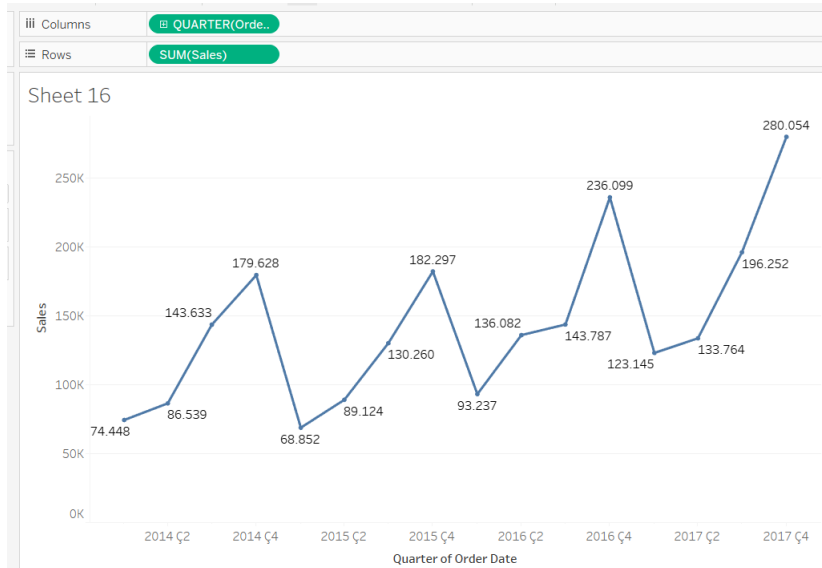


Creating Hierarchies

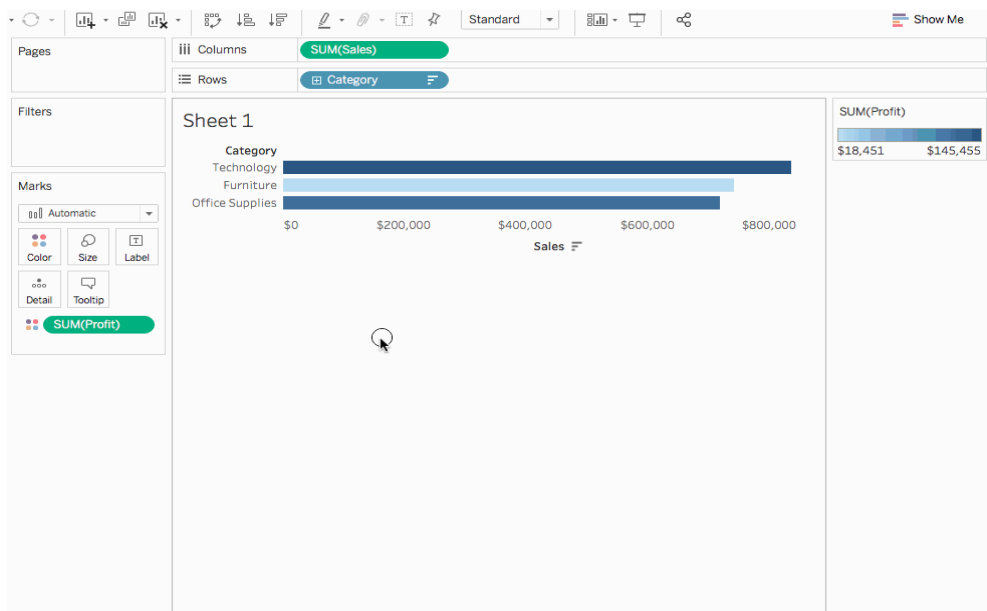




Creating Hierarchies



Creating Hierarchies





Creating Hierarchies

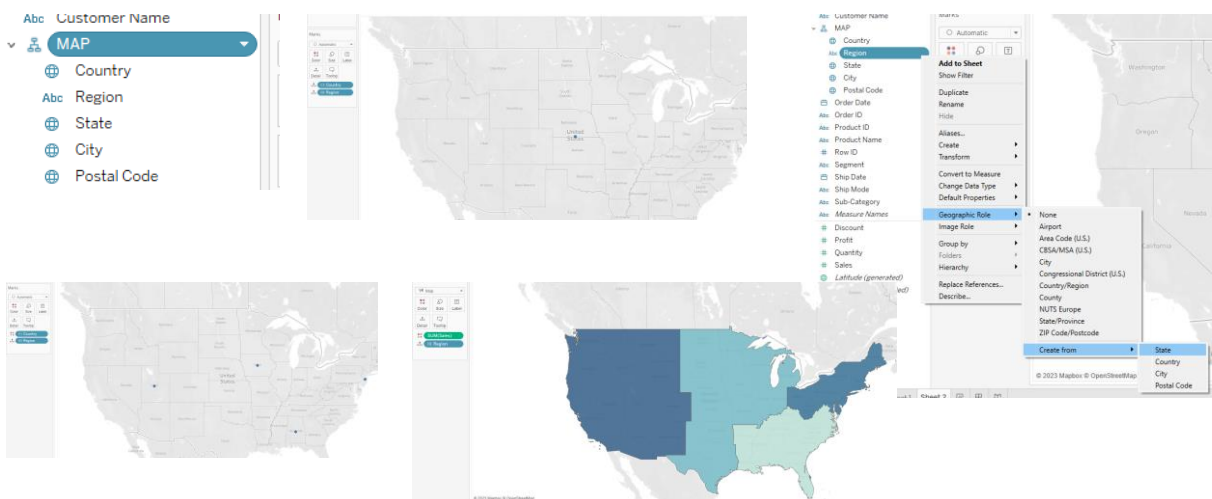


Sales by Product Category

		Jan	Feb	Mar	Apr
Furniture	2011	\$5,952	\$2,130	\$14,574	\$7,945
	2012	\$11,740	\$3,319	\$12,315	\$10,476
	2013	\$7,623	\$3,926	\$12,473	\$13,406
	2014	\$5,964	\$6,866	\$10,597	\$9,053
Office Supplies	2011	\$4,851	\$1,072	\$8,606	\$11,155
	2012	\$1,809	\$5,427	\$15,824	\$12,559
	2013	\$5,300	\$6,683	\$17,458	\$10,640
	2014	\$21,704	\$7,390	\$14,317	\$14,922
Technology	2011	\$3,143	\$1,609	\$32,511	\$9,195



Hierarchy örnek





FINISH..

Do you have any question...?