: 04.05.2024 DATE

DT/NT : NT

LESSON: POWER BI

SUBJECT: POWER QUERY

BATCH: 247-253



















# Power Bl



#### **POWER BI – Power Query**

Data Science Program **Session-2** 











#### Power BI Lesson Content





# Bugün ne öğreneceğiz?

#### **Data Import & Power Query**

- Import from Web
- Refresh
- ETL Process (Extract-Transform-Load)
- M Formula Language
- Split Column
- Add Column
- Pivot / Unpivot Column
- GroupBy
- Statistics-Standart Calculated
- Combine Files-Append, Merge
- Power Query View



#### Power Query



**Power Query;** bir veri dönüştürme ve veri hazırlama altyapısıdır.

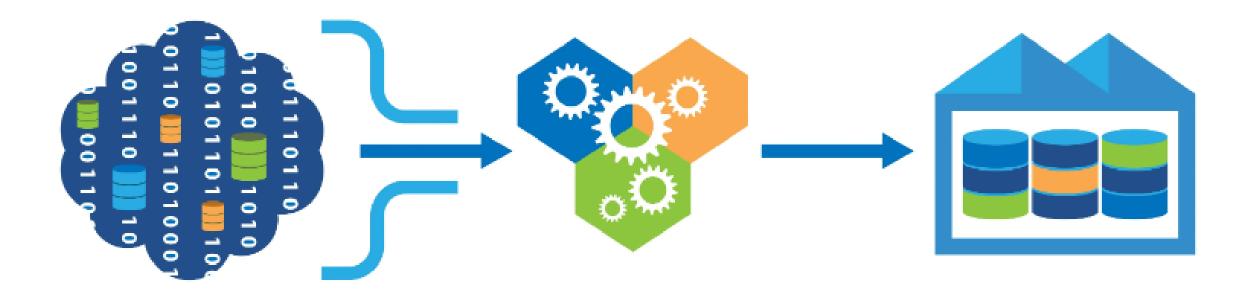
- O Birçok farklı kaynaktan veri alıp bu veriler üzerinde düzenleme işlemi gerçekleştirmenizi sağlayan BI aracıdır.
- O Power Query kullanarak;
- 1. Extract
- 2. Transform
- Load
  işlemlerini gerçekleştirebilirsiniz.

(ETL)









EXTRACT TRANSFORM

LOAD



#### Power Query M Formula Language



O M dili, Power Query veri dönüştürme formül dili.

O Power Query M, veri kaynaklarından veri alma, veri temizleme, dönüştürme ve birleştirme gibi işlemleri gerçekleştirmek için kullanılır.

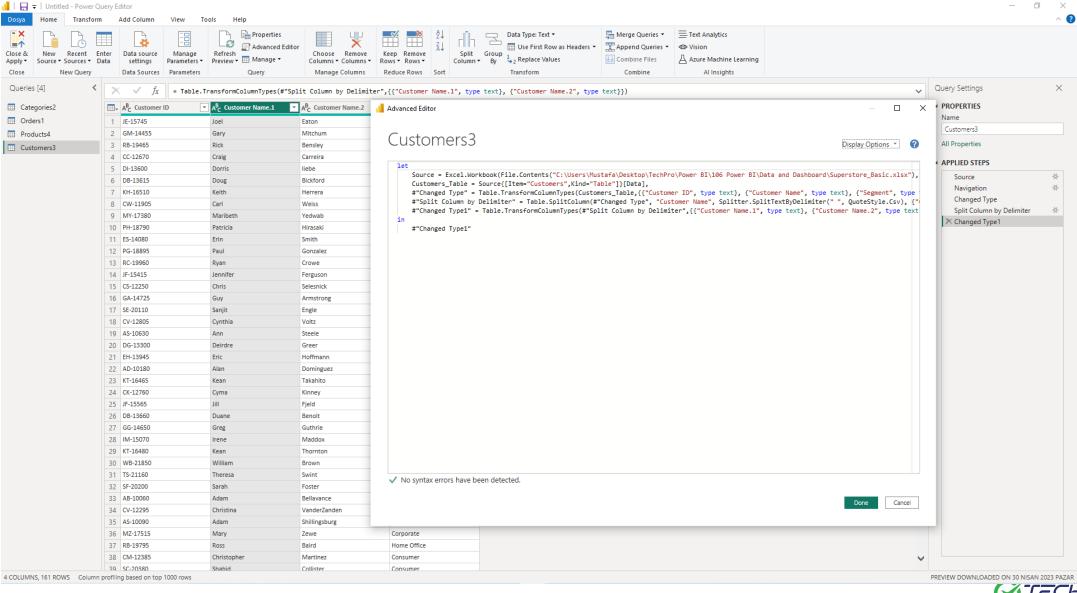
O Power Query, Microsoft Power BI, Excel ve diğer veri analizi araçlarında bulunan bir bileşendir.



#### Power Query M Formula Language

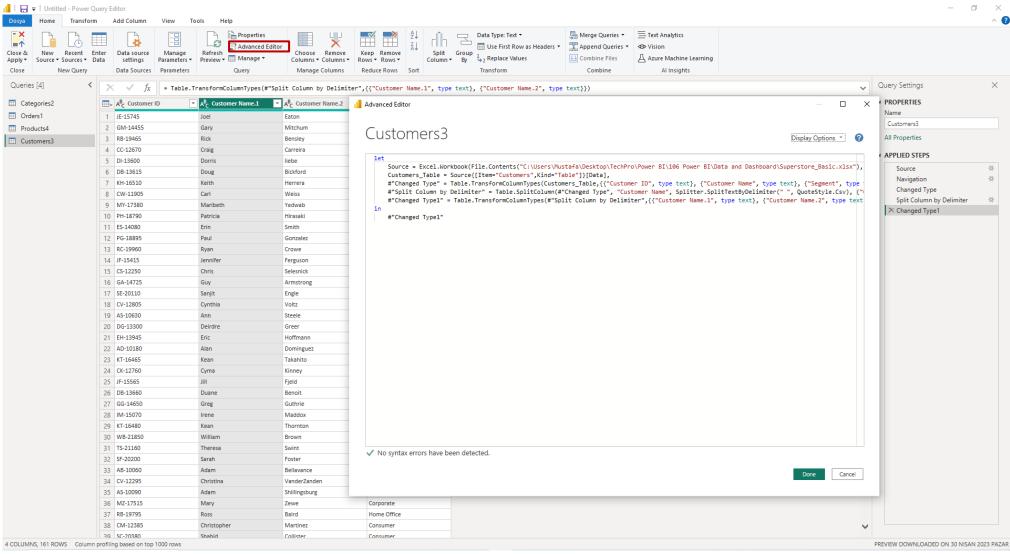


EDUCATION



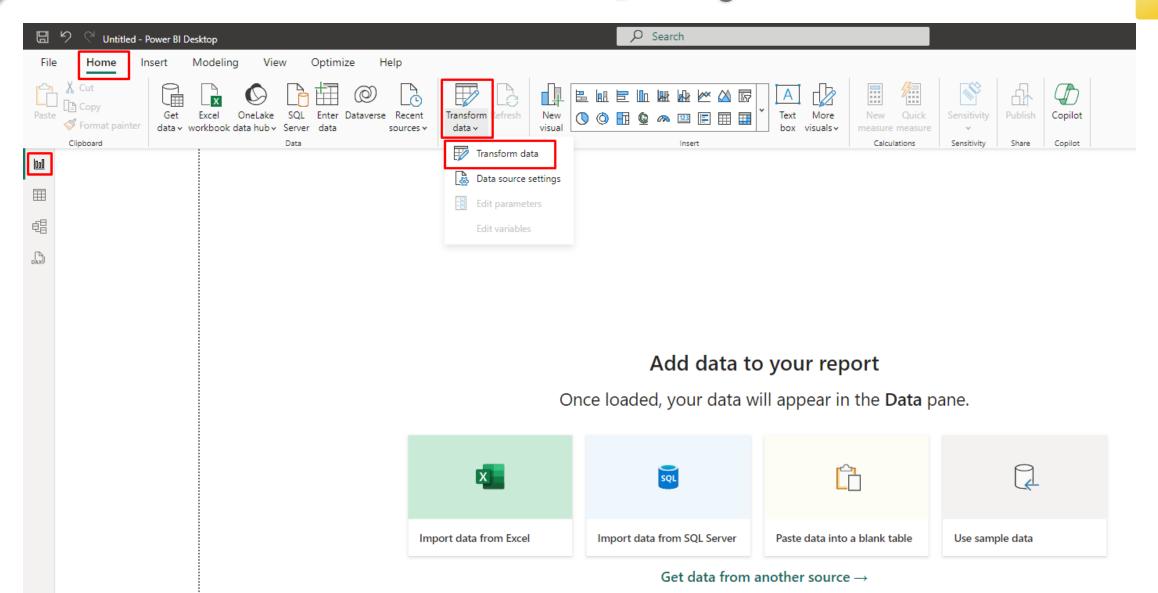
#### Power Query M Formula Language



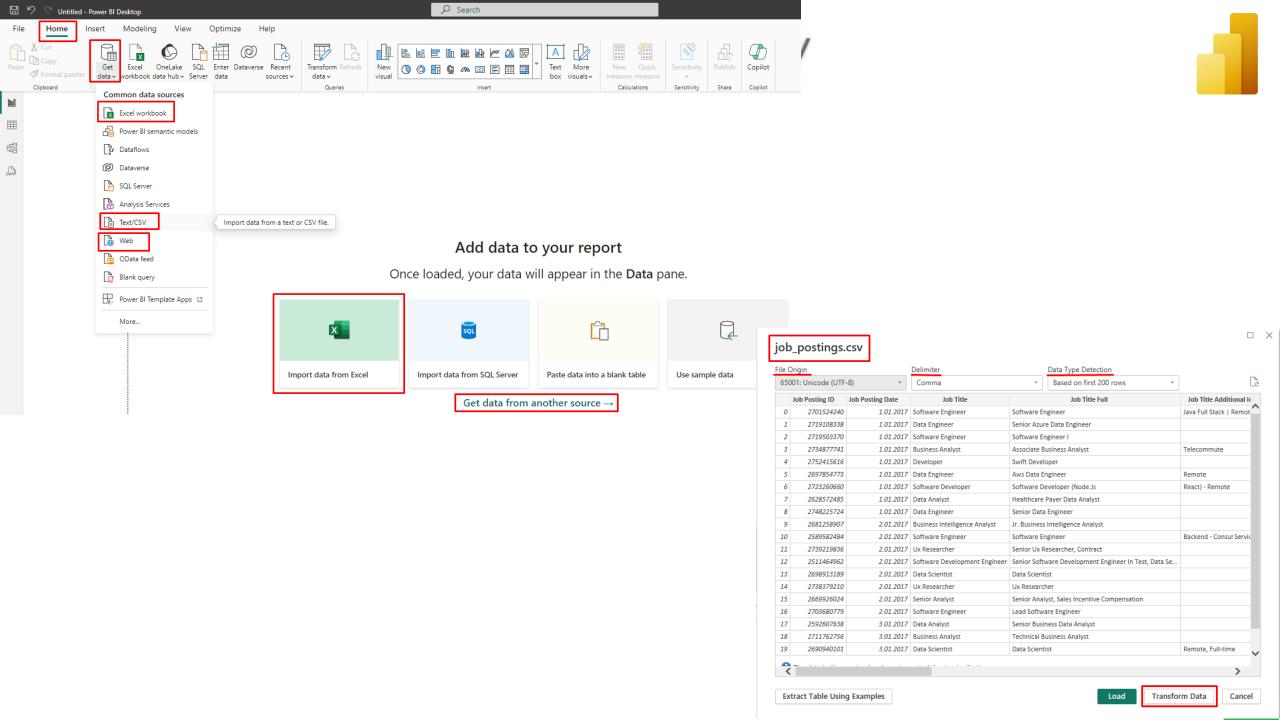


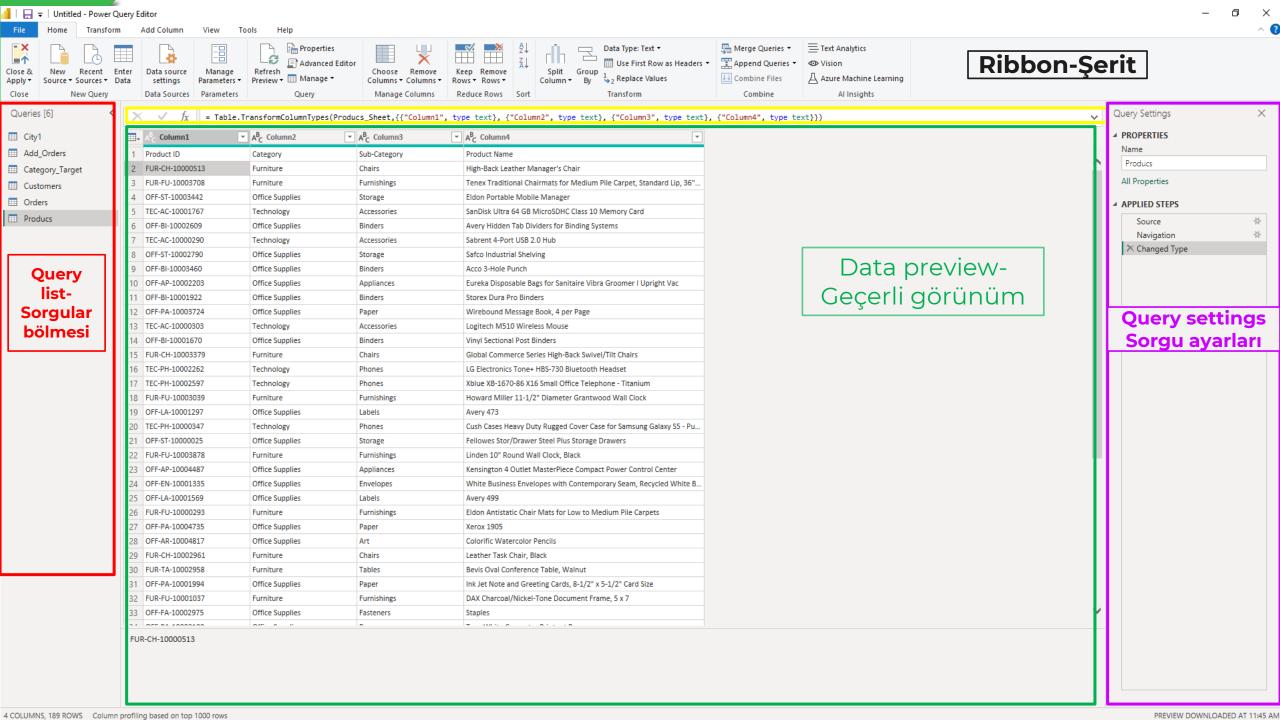


#### Power BI to Power Query





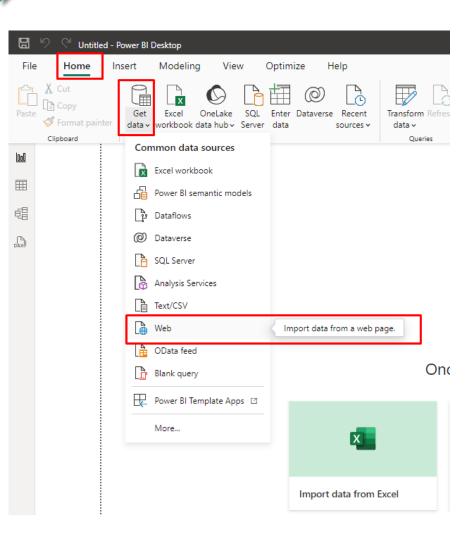


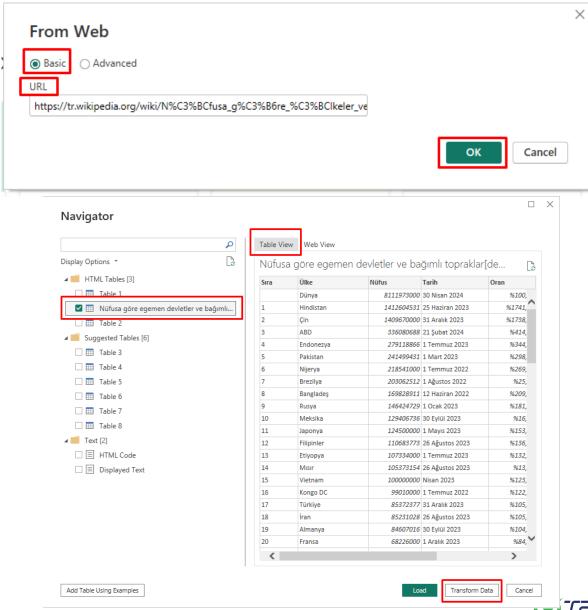


#### Import from Web



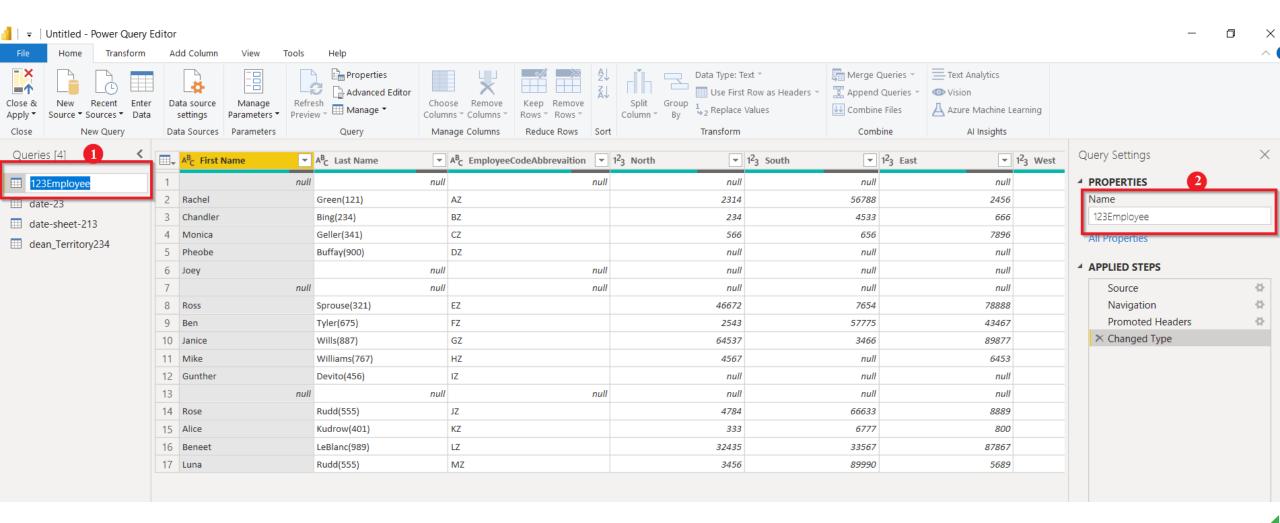
EDUCATION





#### Change Table Name

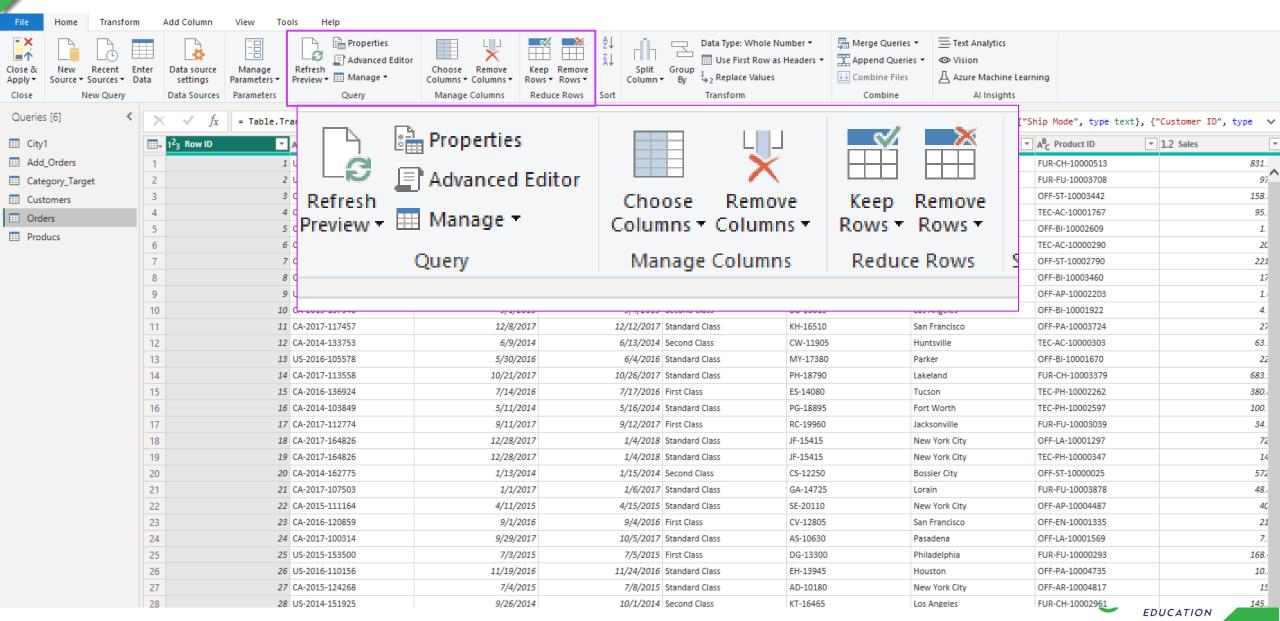






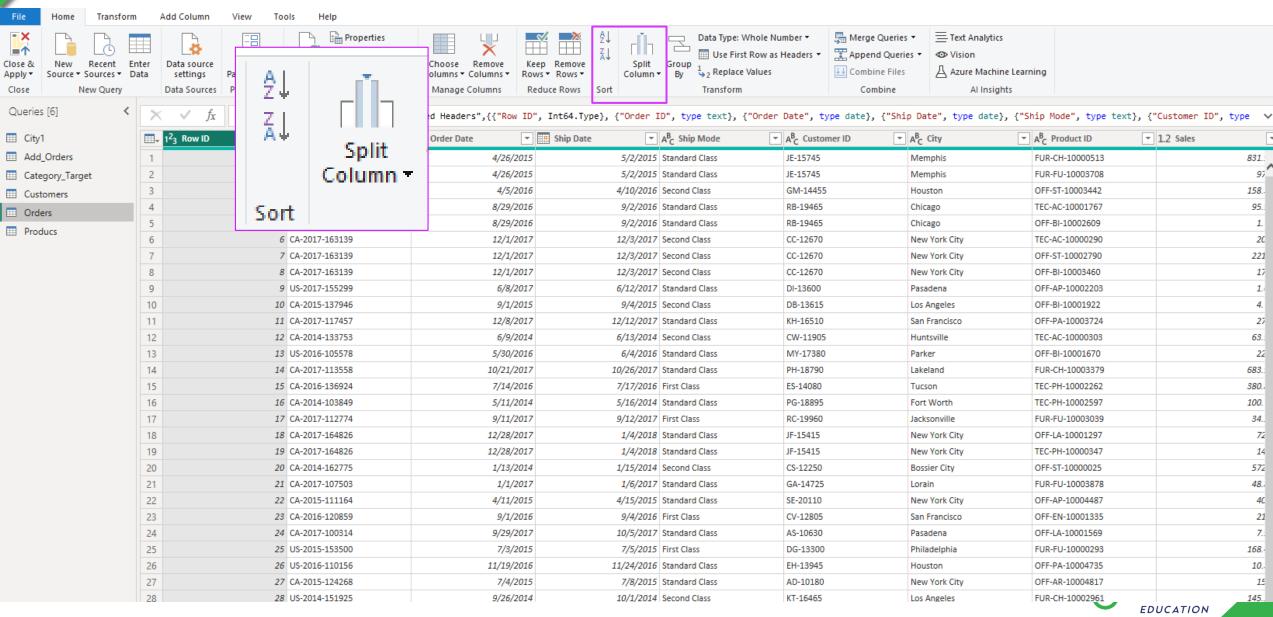
#### Delete-Keep





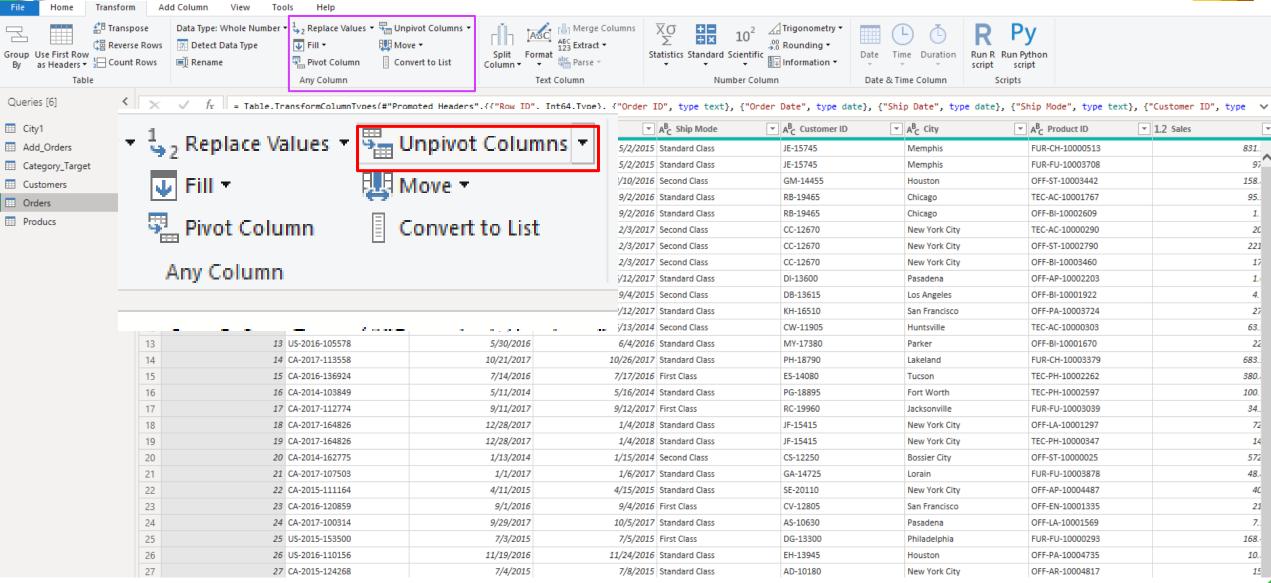
### Split Column





#### Transform / Unpivot Column







## Transform / Unpivot Column

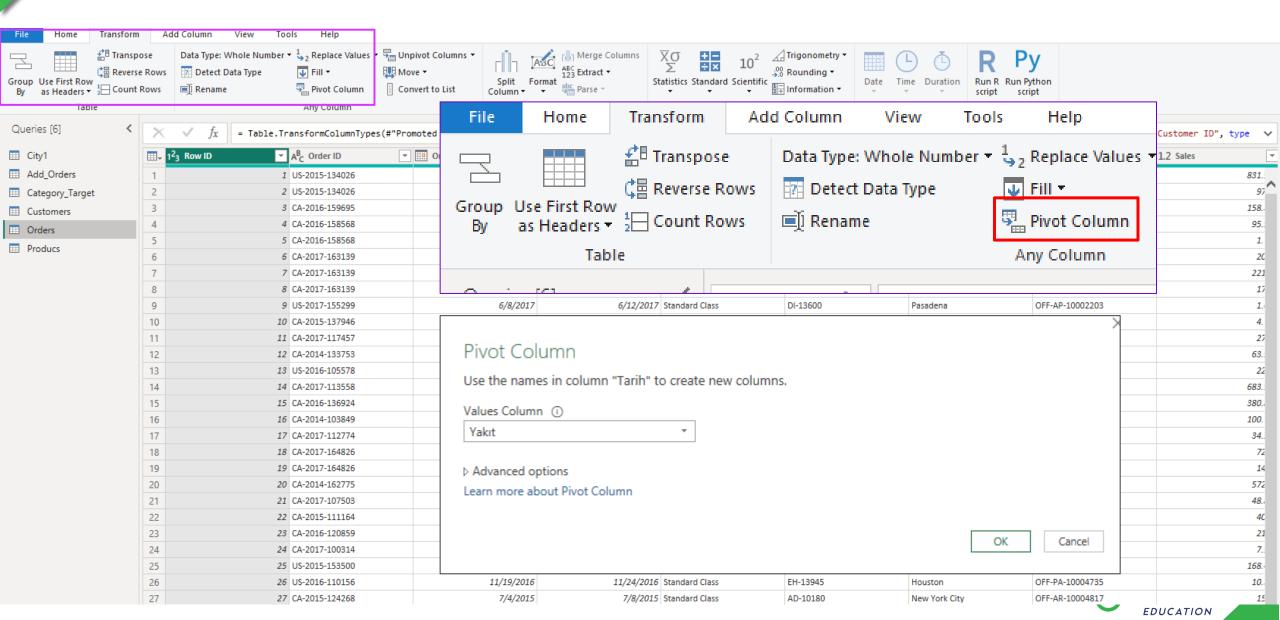
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	ı	

	A <sup>B</sup> C Ürün Adı / Bölge	1 <sup>2</sup> 3 İstanbul	1 <sup>2</sup> 3 Ankara	1 <sup>2</sup> 3 Antalya	1 <sup>2</sup> <sub>3</sub> İzmir ▼
1	Buji Takımı	63	22	80	59
2	Trigger Seti	20	35	20	70
3	Debiyaj Seti	87	66	29	25
4	Fren Disk	70	36	81	21
5	Rot Başı	48	23	72	73
6	Rot Kolu	72	46	61	78
7	Fren Balatası	46	36	75	66
8	Yağ Filtresi	42	86	77	39
9	Viraj Lastiği	54	57	50	31
10	Amörtisör	90	26	38	47
11	Ateşleme Bobini	34	34	29	53
12	Silecek	87	68	63	90

<b>□</b> +	A <sup>B</sup> C Ürün Adı / Bölge	A <sup>B</sup> <sub>C</sub> Attribute	1 <sup>2</sup> 3 Value
1	Buji Takımı	İstanbul	63
2	Buji Takımı	Ankara	22
3	Buji Takımı	Antalya	80
4	Buji Takımı	İzmir	59
5	Trigger Seti	İstanbul	20
6	Trigger Seti	Ankara	35
7	Trigger Seti	Antalya	20
8	Trigger Seti	İzmir	70
9	Debiyaj Seti	İstanbul	87
10	Debiyaj Seti	Ankara	66
11	Debiyaj Seti	Antalya	29
12	Debiyaj Seti	İzmir	25

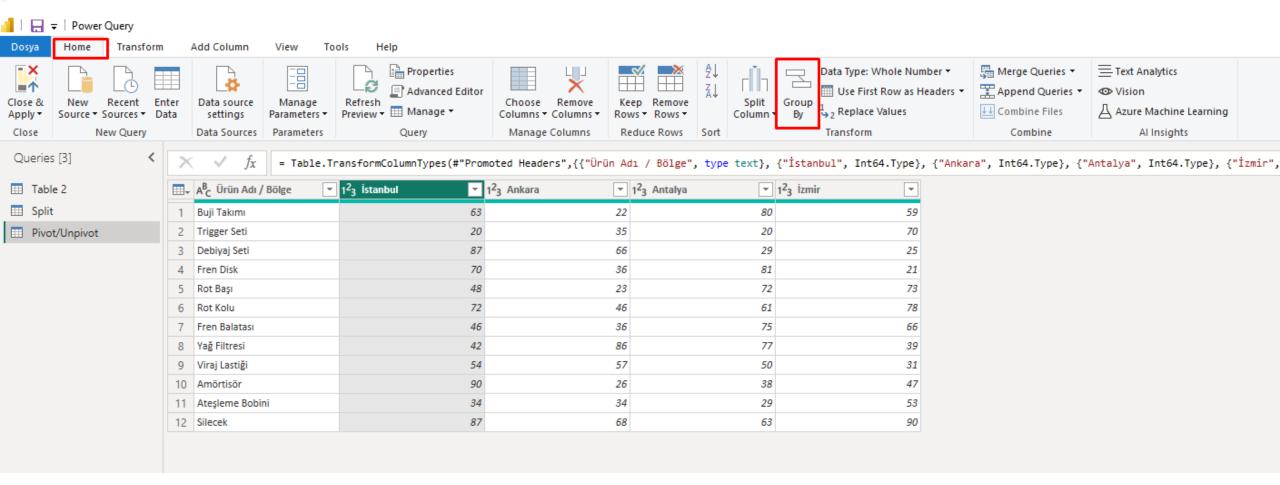
#### Transform / Pivot Column





#### Home / Group By

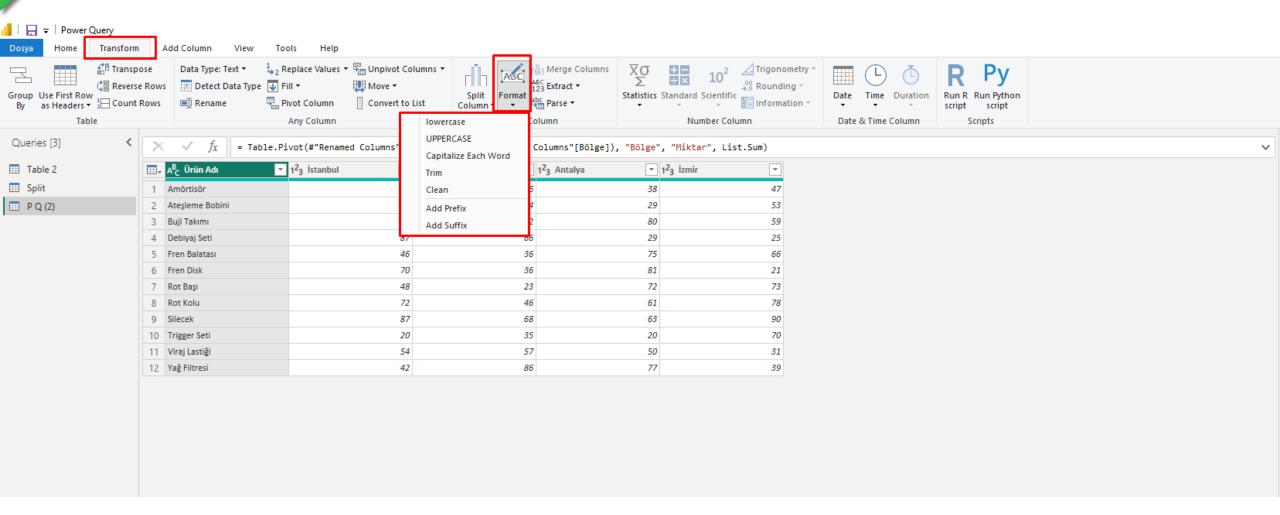






#### Format

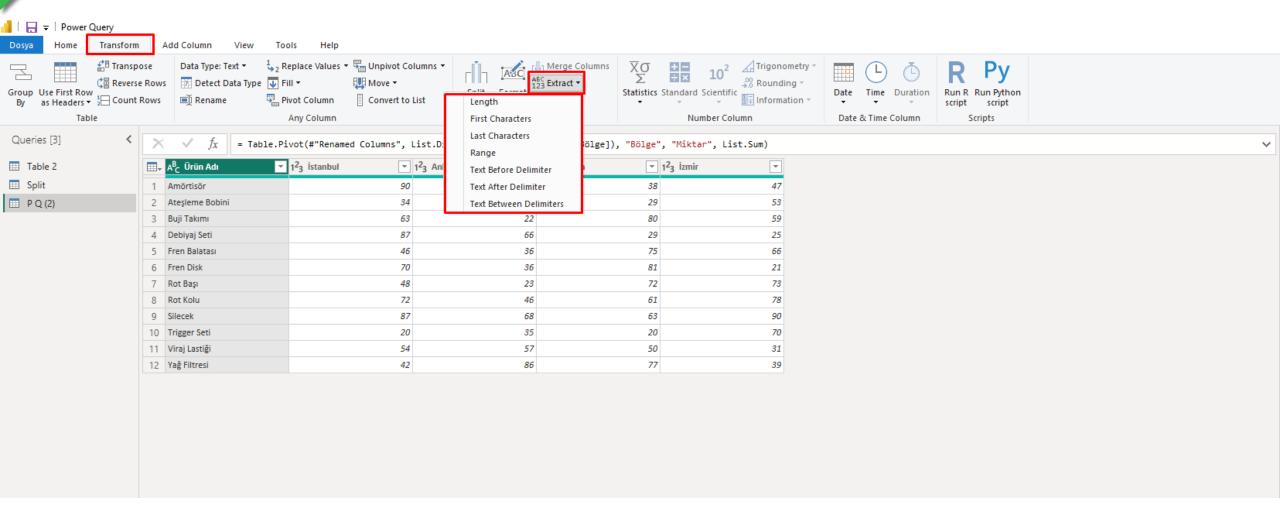






#### Transform / Extract

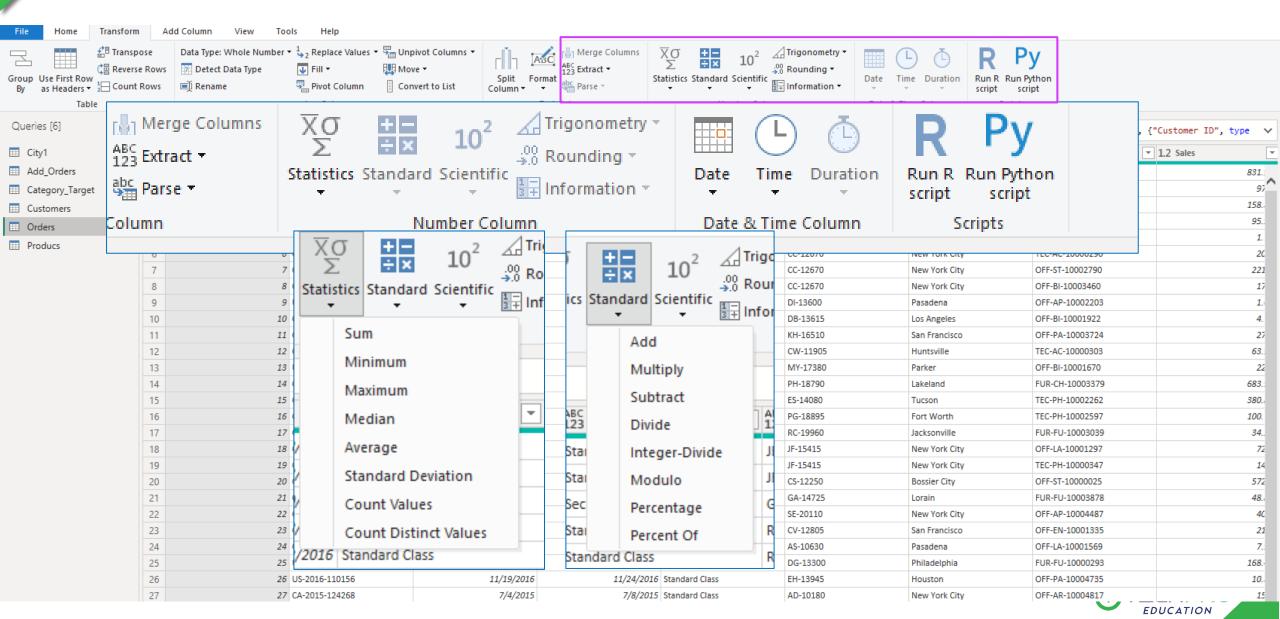






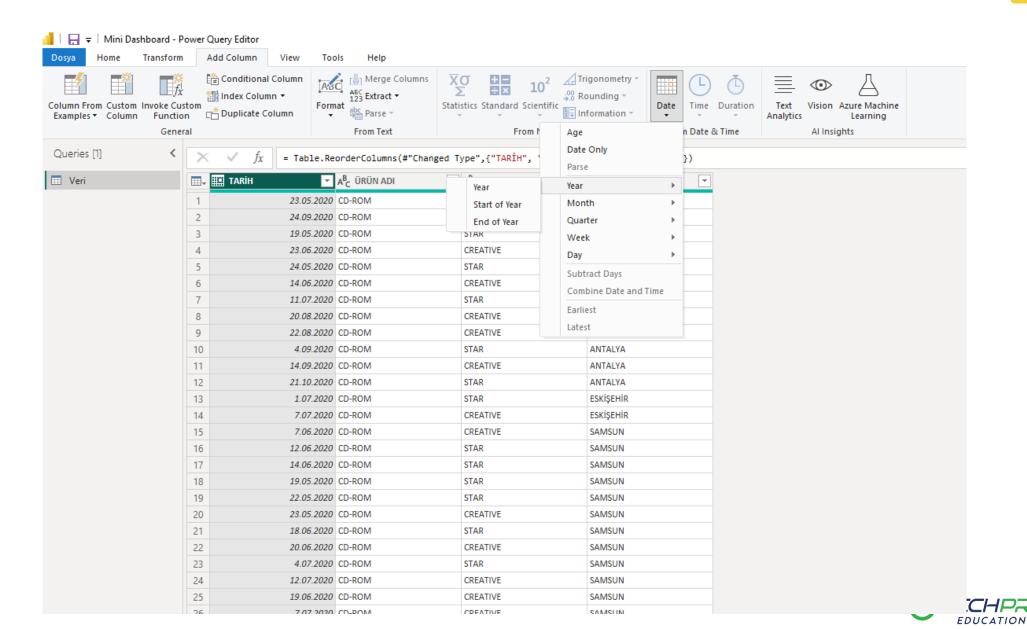
#### Transform / Statistics-Standart Calculated





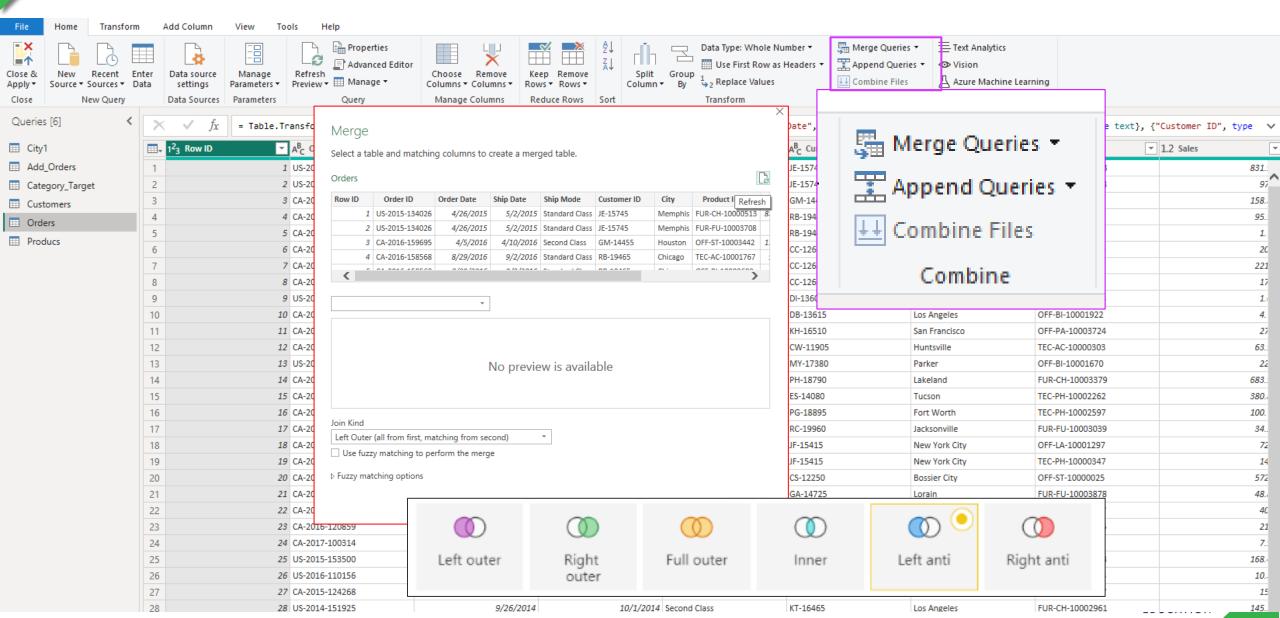
#### DATE





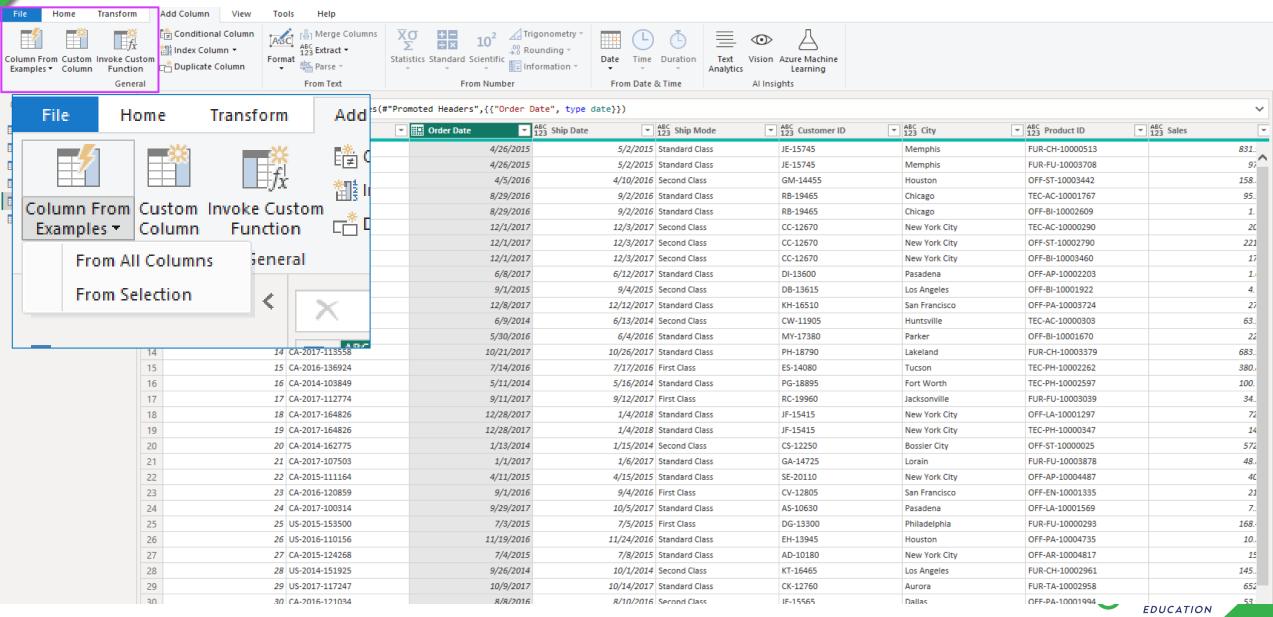
#### Combine Files-Append, Merge





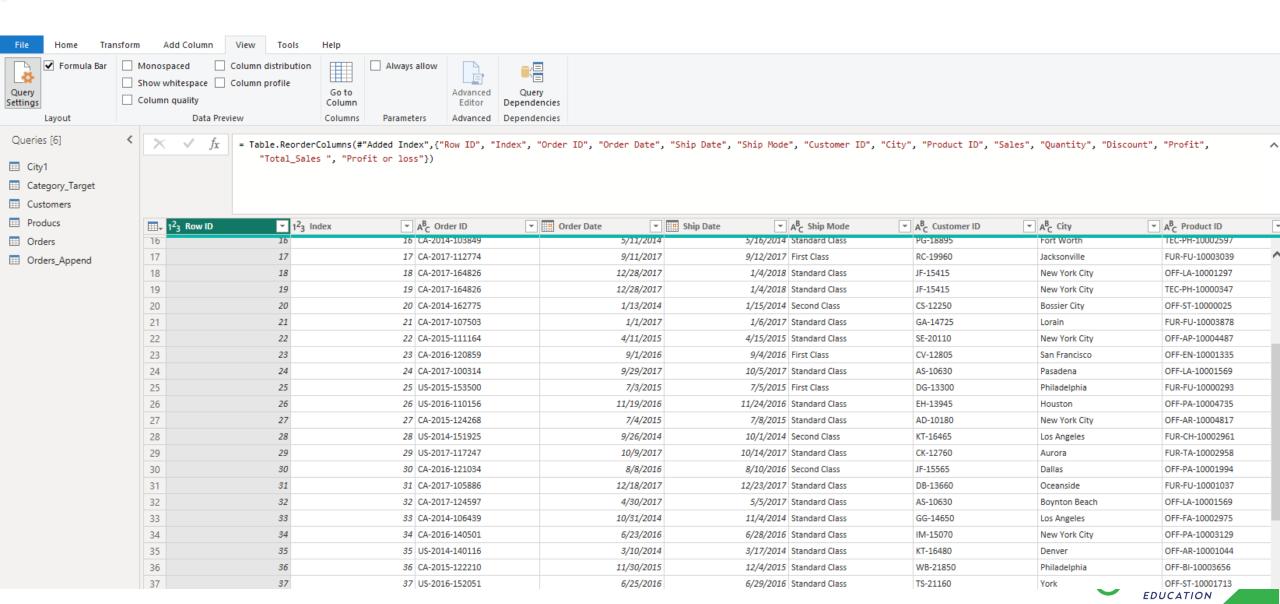
#### Add Column





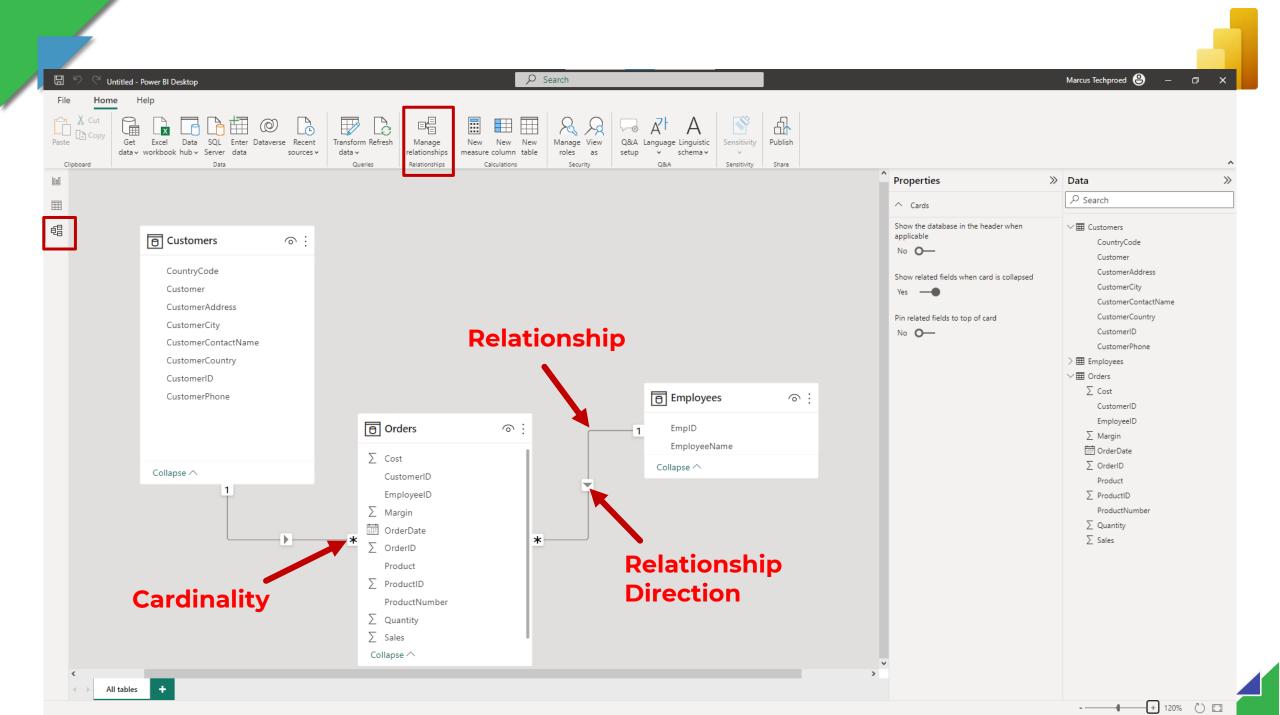
#### View

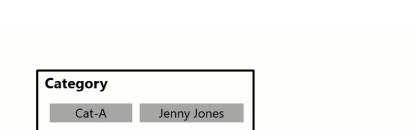




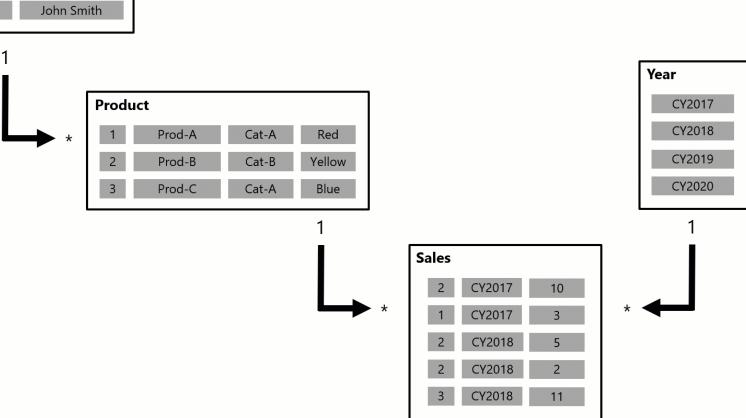
# DATA MODEL







Cat-B





#### Power BI Lesson Content





# Sonraki derste ne öğreneceğiz?

#### **Power BI**

- Visualization Types
- Formatting
- Focus Mode
- Drill down
- Edit Interactions
- Text boxes, Images, Shapes
- Visual-page-report level filters
- Advanced filtering
- Sort Visuals
- Small multiples
- Bookmarks
- Selection pane



Tea break... 00:00