



# Group By in Power BI

# What is Group By

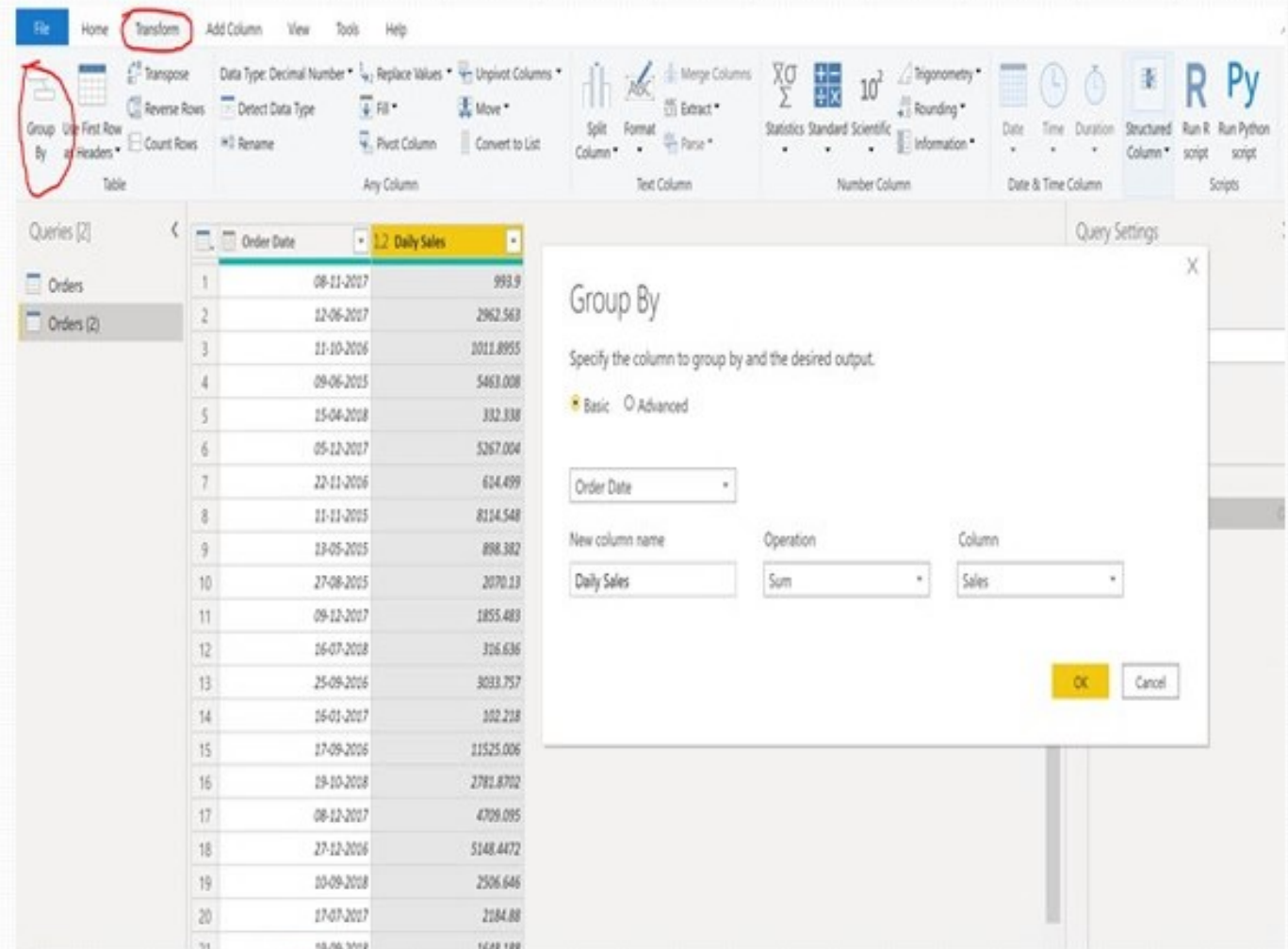
- This is similar to the Group By clause in SQL.
- So, when you want to group the rows of a Column to see an aggregated value then, we use Group By function in Power BI.
- There are 2 ways of doing this :
  - a) From the Query Editor and this will result in a new table if we reference the original table.
  - b) DAX query





# Basic Group By in Query Editor

- The user wants to see the Daily Sales made in Superstore data.
- Go to Transform Data and Reference the Table. Go to Transform tab and you will find Group By Option. In the Basic Option follow the screenshot to achieve Just 2 Column – Unique Date and the Sales on that Date.



The screenshot shows the Tableau Query Editor interface. The 'Transform' tab is selected in the top menu. The 'Group By' dialog box is open, showing the 'Basic' tab. The 'Order Date' column is selected for grouping, and the 'Daily Sales' column is selected for the 'Sum' operation. The 'New column name' is 'Daily Sales' and the 'Column' is 'Sales'.

Order Date	Daily Sales
08-11-2017	993.9
12-06-2017	2962.563
11-10-2016	1011.8955
09-06-2015	5463.008
15-04-2018	332.338
05-12-2017	5267.004
22-11-2016	614.499
11-11-2015	8114.548
13-05-2015	898.382
27-08-2015	2070.13
09-12-2017	1855.483
16-07-2018	316.636
25-09-2016	3033.757
16-01-2017	102.218
17-09-2016	11525.006
19-10-2018	2781.8702
08-12-2017	4709.095
27-12-2016	5148.4472
10-09-2018	2506.646
17-07-2017	2184.88
18-06-2018	1428.188

# Advance Group By in Query Editor

- The user wants to see the Daily Sales made by a Customer in Superstore data.
- Go to Transform Data and Reference the Table. Go to Transform tab and you will find Group By Option. In the Advance Option you get an option to aggregate the values as per multiple Columns.
- For our scenario we want to Group by Order Date, Customer ID & Customer Name to get Total Sales.

The screenshot shows the Tableau Query Editor interface. The 'Transform' tab is selected in the top menu. The 'Group By' dialog box is open, showing the 'Advanced' tab. The 'Add grouping' button is circled in blue. The background table shows sales data with columns: Order Date, Customer ID, Customer Name, and Daily Sales per Customer.

Order Date	Customer ID	Customer Name	Daily Sales per Customer
08-12-2017	CG-52520	Claire Gule	496.95
12-06-2017	DV-13045	Darrin Van Huff	14.62
21-10-2016	SO-20335	Sean O'Donnell	489.97275
09-06-2015	BH-11710		
15-04-2018	AA-10480		
05-12-2017	IM-15070		
22-12-2016	HP-14815		
21-12-2015	PN-19075		
18-05-2015	AG-30370		
27-08-2015	2D-21925		
09-12-2017	KB-16585		
16-07-2018	SF-20065		
25-09-2016	EB-13870		
16-01-2017	EH-13945		
17-09-2016	TB-21520		
19-10-2018	MA-17560		
08-12-2017	GM-14485		
27-12-2016	SN-20710		
10-09-2018	UC-06930		
17-07-2017	RA-19885		
19-09-2018	ES-14080		
11-03-2017	GN-18715		
20-10-2015	PO-58865		
20-06-2017	UH-16900		
18-04-2016	DP-13000		
21-12-2017	JA-05265		
17-06-2017	TB-21055		
24-12-2016	XM-06720	Kunst Miller	66.5735
30-04-2016	PS-08970	Paul Stevenson	213.115

You can Add Multiple Column by Clicking on Add Grouping



# DAX Group By

- While writing a Group By Dax, remember it comes with an additional function called CurrentGroup().
- Here you can add multiple columns for the Group By function.
- This Function returns a Table. So, the Dax that you will right will be in New Table Option.
- Create the below DAX in the Superstore data:

```
1 Group By per State & Sales = GROUPBY(Orders,  
2 Orders[State], Orders[Category],  
3 "Total Sales",  
4 SUMX(CURRENTGROUP(),Orders[Sales]))
```

The result of the above dax formula, will be a new table in the Superstore data, like below. Notice that on the right side (Fields pane) the Group by table has only the columns we decided in Dax.

1 Group By per State & Sales = GROUPBY(Orders,  
2 Orders[State], Orders[Category],  
3 "Total Sales",  
4 SUMX(CURRENTGROUP(),Orders[Sales]))

Orders_State	Orders_Category	Total Sales
California	Office Supplies	142351.948
California	Technology	159271.082
California	Furniture	156064.6015
Utah	Furniture	4822.35
Washington	Furniture	48020.152
Michigan	Furniture	22321.1
Missouri	Furniture	2936.45
Virginia	Furniture	25321.95
Georgia	Furniture	8321.48
Nevada	Furniture	4635.172
Oklahoma	Furniture	8284.1
Mississippi	Furniture	4317.85
Wisconsin	Furniture	17256.61
Alabama	Furniture	6332.48
Idaho	Furniture	2595.482
Kentucky	Furniture	12126.84
Indiana	Furniture	11496.71
Arkansas	Furniture	3187.55
Minnesota	Furniture	7611.35
Iowa	Furniture	2642.31
Louisiana	Furniture	2963.03
Connecticut	Furniture	5174.987
Washington	Technology	50536.71
New York	Technology	127483.5
Montana	Technology	3662.934
District of Columbia	Technology	1379.92
Michigan	Technology	16224.755
Alabama	Technology	8969.08

Fields

Search

Group By per Stat...

- Orders\_Category
- Orders\_State
- Total Sales

Orders

- Category
- City
- Country
- Customer ID
- Customer Name
- Discount
- Order Date
- Order ID
- Postal Code
- Product ID
- Product Name
- Profit
- Quantity
- Region
- Row ID
- Sales
- Segment
- Ship Date
- Ship Mode

TABLE: Group By per State & Sales (142 rows)