

1. What is the purpose of the "Applied Steps" pane in Power Query?

Applied Steps demonstrates every changes which we made in Power Query Editor and we can delete the step(s) if we want, because we can't directly come back the steps with ctrl + z.

2. How do you remove duplicate rows in Power Query?

We can remove duplicate rows in several ways:

1. Clicking table icon on the top-left side of table→remove duplicates
2. In home, clicking remove rows in reduce rows section, and choose remove duplicates command

3. What does the "Filter" icon do in Power Query?

Filter icon gives chance to filter data in different ways including ascending, descending, or just drop data and keep others, and etc.

4. How would you rename a column from "CustID" to "CustomerID"?

We can rename by just clicking two times column name and write new column name, or clicking right side of mouse and choose rename command.

5. What happens if you click "Close & Apply" in Power Query?

Power Query is closed and transformed data is loaded.

6. Remove all rows where Quantity is less than 2.

fx = Table.SelectRows(#"Changed Type", each [Quantity] >= 2)

	i ² ₃ CustID	A ^B _C Name	OrderDate	A ^B _C Product	i ² ₃ Quantity	i ² ₃ Price
	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>
1	102	Bob	15/01/2023	Mouse	3	25
2	101	Alice	20/01/2023	Keyboard	2	80

7. Split the OrderDate column into separate "Year," "Month," and "Day" columns.

	i ² ₃ CustID	A ^B _C Name	OrderDate	i ² ₃ Year	i ² ₃ Month	i ² ₃ Day
	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>
1	102	Bob	15/01/2023	2023	1	15
2	101	Alice	20/01/2023	2023	1	20

8. Replace all "Mouse" entries in the Product column with "Computer Mouse."

fx = Table.ReplaceValue(#"Reordered Columns1", "Mouse", "Computer Mouse", Replacer.ReplaceText, {"Product"})

	i ² ₃ Year	i ² ₃ Month	i ² ₃ Day	A ^B _C Product	i ² ₃ Quantity	i ² ₃ Price
	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>
1	15/01/2023	2023	1	15 Computer Mouse	3	25
2	20/01/2023	2023	1	20 Keyboard	2	80

9. Sort the table by OrderDate (newest first).

`= Table.Sort("#Replaced Value",{"OrderDate", Order.Descending})`

	CustID	Name	OrderDate	Year	Month	Day	Product
1	102	Bob	15/01/2023	2023	1	15	Computer Mouse
2	101	Alice	20/01/2023	2023	1	20	Keyboard

10. How would you handle null values in the Price column?

It usually depends on data and its type. For example, I change null values in text data with unknown, if it is number data type, I change usually with 0. And also there are many options average, median, or fill up and fill down, etc

11. Write custom M-code to add a column calculating TotalSpent = Quantity * Price.

`Table.AddColumn("#Filtered Rows", "TotalSpent", each [Quantity] * [Price])`

`= Table.AddColumn("#Filtered Rows", "TotalSpent", each [Quantity] * [Price])`

	Month	Day	Product	Quantity	Price	TotalSpent
1	2023	1	15 Computer Mouse	3	25	75
2	2023	1	20 Keyboard	2	80	160

12. Group the table by CustID to show total spending per customer.

Formula Bar: `= Table.Group("#Added Custom", {"CustID"}, {"TotalSpentPerCustomer", each List.Sum([TotalSpend]), type number})`

	CustID	TotalSpentPerCustomer
1	102	75
2	101	160

13. Fix inconsistent date formats (e.g., 01/10/2023 vs. 2023-01-10) in OrderDate.

Formula Bar: `= Table.TransformColumns(#"Filtered Rows", {"OrderDate", each Date.ToText(_, "yyyy-MM-dd"), type text})`

	CustID	Name	OrderDate	Year	Month	Day	Product
1	102	Bob	2023-01-15	2023	1	15	Computer Mouse
2	101	Alice	2023-01-20	2023	1	20	Keyboard

14. Create a conditional column: Label orders as "High Value" if Price > 100.

Formula Bar: `= Table.AddColumn("#Added Custom", "Price Level", each if [Price] > 100 then "High Value" else "Normal Value")`

	Month	Day	Product	Quantity	Price	Price Level
1	2023	1	Laptop	10	1200	High Value
2	2023	1	Computer Mouse	3	25	Normal Value
3	2023	1	Keyboard	2	80	Normal Value
4	2023	1	Monitor	1	300	High Value

15. Optimize the query to reduce refresh time (e.g., remove unused columns early).

I removed Name column to optimize, because I have already customers name in other table

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fx

= Table.RemoveColumns("#Added Conditional Column",{ "Name"})

	123 CustID	A0c OrderDate	123 Year	123 Month	123 Day	A0c Product
	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>
1		101 2023-01-10		2023	1	10 Laptop
2		102 2023-01-15		2023	1	15 Computer Mouse
3		101 2023-01-20		2023	1	20 Keyboard
4		103 2023-01-25		2023	1	25 Monitor