

## ✓ What is the purpose of the "Applied Steps" pane in Power Query?

The **"Applied Steps" pane** tracks every change you make while cleaning or shaping your data—like filtering, renaming columns, or adding calculations. Think of it as a recipe list for your data transformation process. You can review, delete, or modify steps at any time.

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## ✓ How do you remove duplicate rows in Power Query?

1. Select the columns you want to check for duplicates (or none to use all).
  2. Go to the **Home** tab → click **Remove Rows** → choose **Remove Duplicates**.  
Power Query keeps the first instance and deletes the rest.
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## ✓ What does the "Filter" icon do in Power Query?

The **Filter icon** (next to each column header) allows you to:

- Select specific values to include or exclude.
  - Filter by text, number, or date conditions.
  - Quickly remove or keep null values.
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## ✓ How would you rename a column from "CustID" to "CustomerID"?

Right-click the column header **CustID** → select **Rename** → type **CustomerID**.

Or in the formula bar:

```
m
КопироватьРедактировать
Table.RenameColumns(Source, {"CustID", "CustomerID"})
```

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## ✓ What happens if you click "Close & Apply" in Power Query?

It applies all your transformations and **loads the final result** into Power BI's data model so you can use it in visuals, measures, and dashboards.

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## ✓ Remove all rows where Quantity is less than 2

1. Select the **Quantity** column.
2. Go to **Home** tab → **Keep Rows** → **Keep Rows Where...**
3. Condition: `Quantity >= 2`

Or in M-code:

m

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```
Table.SelectRows(Source, each [Quantity] >= 2)
```

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## ✓ Split the OrderDate column into separate "Year," "Month," and "Day" columns

1. Select **OrderDate**.
2. Go to **Add Column** tab → **Date** → select **Year, Month, Day**.

M-code example:

m

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```
= Table.AddColumn(Source, "Year", each Date.Year([OrderDate]))
= Table.AddColumn(Source, "Month", each Date.Month([OrderDate]))
= Table.AddColumn(Source, "Day", each Date.Day([OrderDate]))
```

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## ✓ Replace all "Mouse" entries in the Product column with "Computer Mouse"

1. Select the **Product** column.
2. Go to **Transform** → **Replace Values**.
3. Replace "Mouse" with "Computer Mouse".

M-code:

m

Копировать Редактировать

```
Table.ReplaceValue(Source, "Mouse", "Computer Mouse", Replacer.ReplaceText,
{"Product"})
```

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## ✓ Sort the table by OrderDate (newest first)

1. Click on the **OrderDate** column header.
2. Use the **Sort Descending** button in the toolbar.

M-code:

m

Копировать Редактировать

```
Table.Sort(Source, {"OrderDate", Order.Descending})
```

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## ✓ How would you handle null values in the Price column?

- Replace them with a default value like 0:  
Select **Price** → **Transform** → **Replace Values** → Replace null with 0.

M-code:

m

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```
Table.ReplaceValue(Source, null, 0, Replacer.ReplaceValue, {"Price"})
```

- Or filter them out:

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```
Table.SelectRows(Source, each [Price] <> null)
```

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### Write custom M-code to add a column calculating **TotalSpent = Quantity \* Price**

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```
Table.AddColumn(Source, "TotalSpent", each [Quantity] * [Price], type number)
```

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### Group the table by **CustID** to show total spending per customer

1. Go to **Transform** tab → click **Group By**.
2. Group by: **CustID**
3. New column name: **TotalSpent** → Operation: **Sum** → Column: **TotalSpent**

M-code:

m

Копировать Редактировать

```
Table.Group(Source, {"CustID"}, {"TotalSpent", each List.Sum([TotalSpent]), type number}))
```

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### Fix inconsistent date formats in **OrderDate**

Power Query handles this automatically if the column data type is set to **Date**:

- Select **OrderDate** → go to **Transform** → set Data Type to **Date**.  
It will interpret both 01/10/2023 and 2023-01-10 correctly.
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### Create a conditional column: Label orders as **"High Value"** if **Price > 100**

1. Go to **Add Column** → **Conditional Column**.
2. Name: **OrderValue**  
If **Price > 100** → then **"High Value"** → else **"Normal"**

M-code:

m

Копировать Редактировать

```
Table.AddColumn(Source, "OrderValue", each if [Price] > 100 then "High Value" else "Normal")
```

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## ✓ Optimize the query to reduce refresh time

- **Remove unused columns early:**  
Right after loading the source, remove columns you won't use.

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```
Table.SelectColumns(Source, {"CustID", "OrderDate", "Quantity", "Price",  
"Product"})
```

- **Avoid unnecessary steps** (e.g., multiple sorts or type changes).
- **Filter early** to reduce data volume.
- **Use staging queries** for reuse and clarity.