

1. Purpose of the “Applied Steps” pane

The **Applied Steps** pane (on the right side of Power Query Editor) shows each transformation you’ve made — like filtering, renaming, removing columns, etc.

☒ Purpose:

- Tracks your data transformation history.
 - Allows you to **edit**, **reorder**, or **delete** steps.
 - Each step corresponds to a line in the M-code behind the query.
-

2. Remove duplicate rows

Go to:

Home tab → Remove Rows → Remove Duplicates

You can also right-click a column header → **Remove Duplicates** (removes duplicates based on that column).

M-code example:

```
= Table.Distinct(Source)
```

or (based on columns)

```
= Table.Distinct(Source, {"CustID", "OrderDate"})
```

3. Filter icon function

The **Filter icon** (on a column header) lets you include or exclude specific values or set conditions (like greater than, equals, contains).

☒ Used to filter rows just like Excel’s filter but recorded as a transformation step.

4. Rename a column

Right-click the column → **Rename** → Type CustomerID

M-code:

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

5. What “Close & Apply” does

Clicking **Close & Apply**:

- **Applies** all transformations in Power Query.
- **Loads** the cleaned data back into Power BI’s data model (or Excel, depending on context).

- **Closes the Power Query Editor.**
-

6. Remove all rows where Quantity < 2

Filter the column:

Click the filter icon → “Number Filters” → “Greater than or equal to” → 2.

M-code:

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

7. Split OrderDate into Year, Month, Day

Select **OrderDate** column → **Add Column** tab → **Date** → **Year/Month/Day** → **Year/Month/Day**

M-code example:

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

8. Replace “Mouse” with “Computer Mouse”

Select the **Product** column → **Transform** tab → **Replace Values**

Old value: Mouse, New value: Computer Mouse.

M-code:

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

9. Sort by OrderDate (newest first)

Click the **OrderDate** column header → **Sort Descending**.

M-code:

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

10. Handle null values in Price

Options:

- **Replace nulls:** e.g., replace with 0 →
Transform → Replace Values → null → 0

- **Remove null rows:**

Home → Remove Rows → Remove Blank Rows

M-code (replace nulls):

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



11. Custom M-code for TotalSpent = Quantity * Price

Add Column → Custom Column →

```
= [Quantity] * [Price]
```

M-code:

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



12. Group by CustID (total spending per customer)

Home → Group By

- Group by: CustID
- New column: TotalSpent
- Operation: Sum of [TotalSpent]

M-code:

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



13. Fix inconsistent date formats

Use **Transform → Data Type → Date**.

Power Query automatically parses different formats into a consistent date type.

If not, use:

```
= Table.TransformColumns(Source, {"OrderDate", each  
Date.FromText(Text.From(_)), type date})
```



14. Conditional column: “High Value” if Price > 100

Add Column → Conditional Column

Condition: if [Price] > 100 then "High Value" else "Normal"

M-code:

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

⚡ 15. Optimize query for refresh performance

☑ Tips:

- **Remove unused columns early** (Home → Choose Columns → select only needed ones).
- **Filter data early** to reduce row count.
- **Avoid complex custom columns** unless necessary.
- **Disable load** for intermediate queries (right-click → “Enable load” off).
- **Use Table.Buffer** sparingly to cache data for multiple uses.

Example:

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