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

The Applied Steps pane lists all the transformations you've applied to your dataset. It helps you track, edit, or remove each step, allowing for repeatable and transparent data transformation processes.

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

Select one or more columns, then go to the Home tab > Remove Rows > Remove Duplicates. This removes all but the first occurrence of each duplicate.

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

The filter icon lets you narrow down rows in your dataset based on criteria. You can filter values, set conditions (e.g., Quantity > 1), or exclude blanks.

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

Right-click the column header and choose "Rename", or select the column and click Transform > Rename. Then type the new name: CustomerID.

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

All applied transformations are saved and pushed into Power BI. It exits Power Query and loads the transformed data into the Power BI data model.

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

Click the filter icon on Quantity > Number Filters > Greater than or equal to > 2.

M-code:

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

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

Select OrderDate, then go to Add Column > Date > Year, Month, and Day respectively. Alternatively: Transform > Date > Year/Month/Day.

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

Right-click Product > Replace Values > Find: Mouse, Replace with: Computer Mouse.

M-code:

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

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

Click on the OrderDate column, then use the "Sort Descending" button on the toolbar.

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

Either filter them out (Remove Rows > Remove Blank Rows) or replace them (Transform > Replace Values > Replace null with 0).

M-code example:

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

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

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

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

Select CustID > Transform > Group By > Sum TotalSpent.

M-code:

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

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

Select OrderDate > Transform > Data Type > Date.

If Power Query misinterprets, use Transform > Using Locale to specify the expected format.

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

Add Column > Conditional Column

If Price > 100 then "High Value", else "Standard"

M-code:

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

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

Remove unnecessary columns as the first step using Table.SelectColumns.

M-code example:

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

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