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

It shows the sequence of transformations applied to the data (like a history of steps). Each step can be edited, reordered, or removed.

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

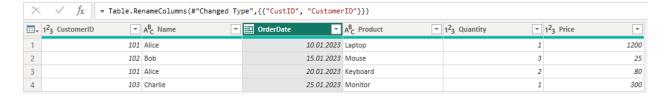
• Select the relevant columns \rightarrow Right-click \rightarrow Remove Duplicates.

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

It allows you to filter rows by values, conditions, or ranges (similar to Excel filters).

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

• Right-click the column header → Rename → type CustomerID

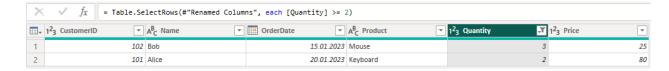


5. What happens if you click "Close & Apply" in Power Query?

The transformed data is **loaded into Power BI Desktop's data model** and Power Query closes.

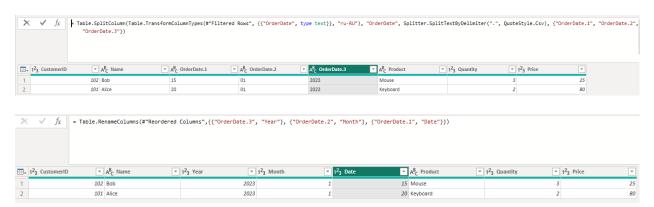
6. Remove all rows where Quantity is less than 2.

Filter the Quantity column \rightarrow Number Filters \rightarrow Greater Than or Equal To 2.



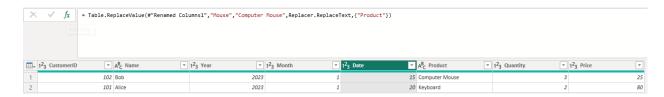
7. Split the OrderDate column into separate "Year," "Month," and "Day" columns.

• Select OrderDate \rightarrow Split Column \rightarrow By Date \rightarrow Year/Month/Day.



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

• Right-click Product column → Replace Values → find "Mouse", replace with "Computer Mouse".



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

• Click the dropdown on OrderDate \rightarrow **Sort Descending**.



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

- Replace nulls with a default (e.g., 0).
- Remove rows containing nulls.
- Fill down/up if appropriate.

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

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



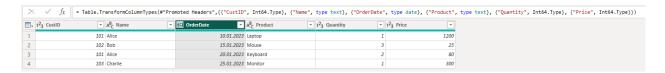
12. Group the table by CustID to show total spending per customer.

• Home \rightarrow **Group By** \rightarrow Group by CustID \rightarrow Operation: Sum of TotalSpent.



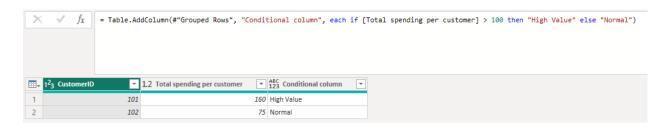
13. Fix inconsistent date formats (e.g., 01/10/2023 vs. 2023-01-10) in OrderDate.

• Change data type of OrderDate column to **Date** → Power Query automatically standardizes formats.



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

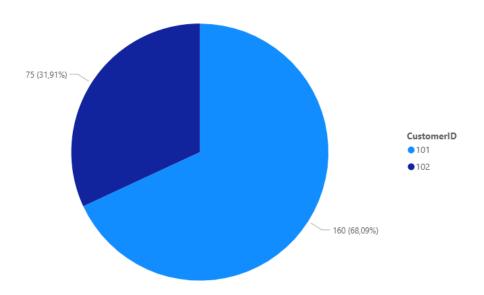
• Add Column \rightarrow Conditional Column \rightarrow If Price > 100 then "High Value" else "Normal".



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

- Remove unnecessary columns as early as possible.
- Apply filters before joins/merges.
- Disable loading intermediate queries.
- Avoid steps that keep unneeded data in memory.

Total income by CustomerID



High Value

101 ${\sf CustomerID}$

Normal

102 CustomerID

160,00

Sum of Total spending per customer

75,00

Sum of Total spending per customer