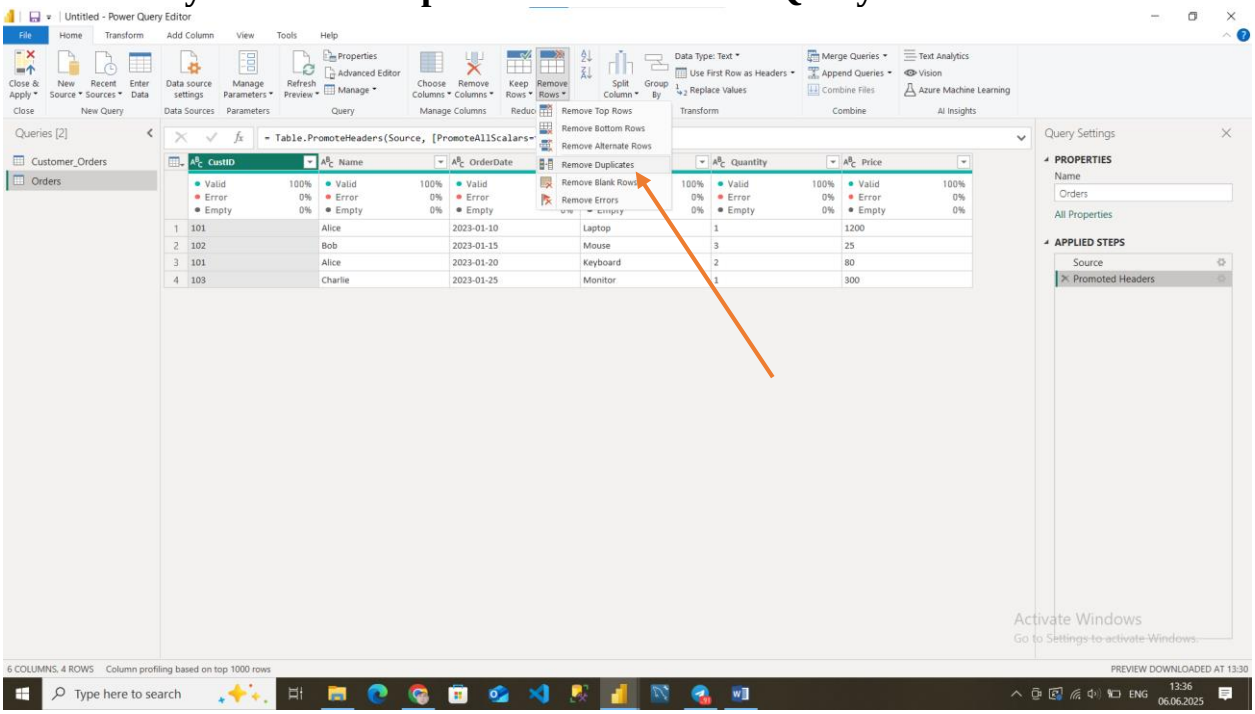
1. **What is the purpose of the "Applied Steps" pane in Power Query?**

Answer:

The "**Applied Steps**" pane tracks every transformation you make to your data in order. It allows you to:

- Review each step of your query.
- Edit, reorder, or delete specific steps.
- Debug errors by seeing where something went wrong.
- Ensure transformations are performed in the correct sequence.

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



Go to the **Home** tab.

- Select the columns you want to check for duplicates (or no selection to consider entire rows).
- Click **Remove Rows → Remove Duplicates**.

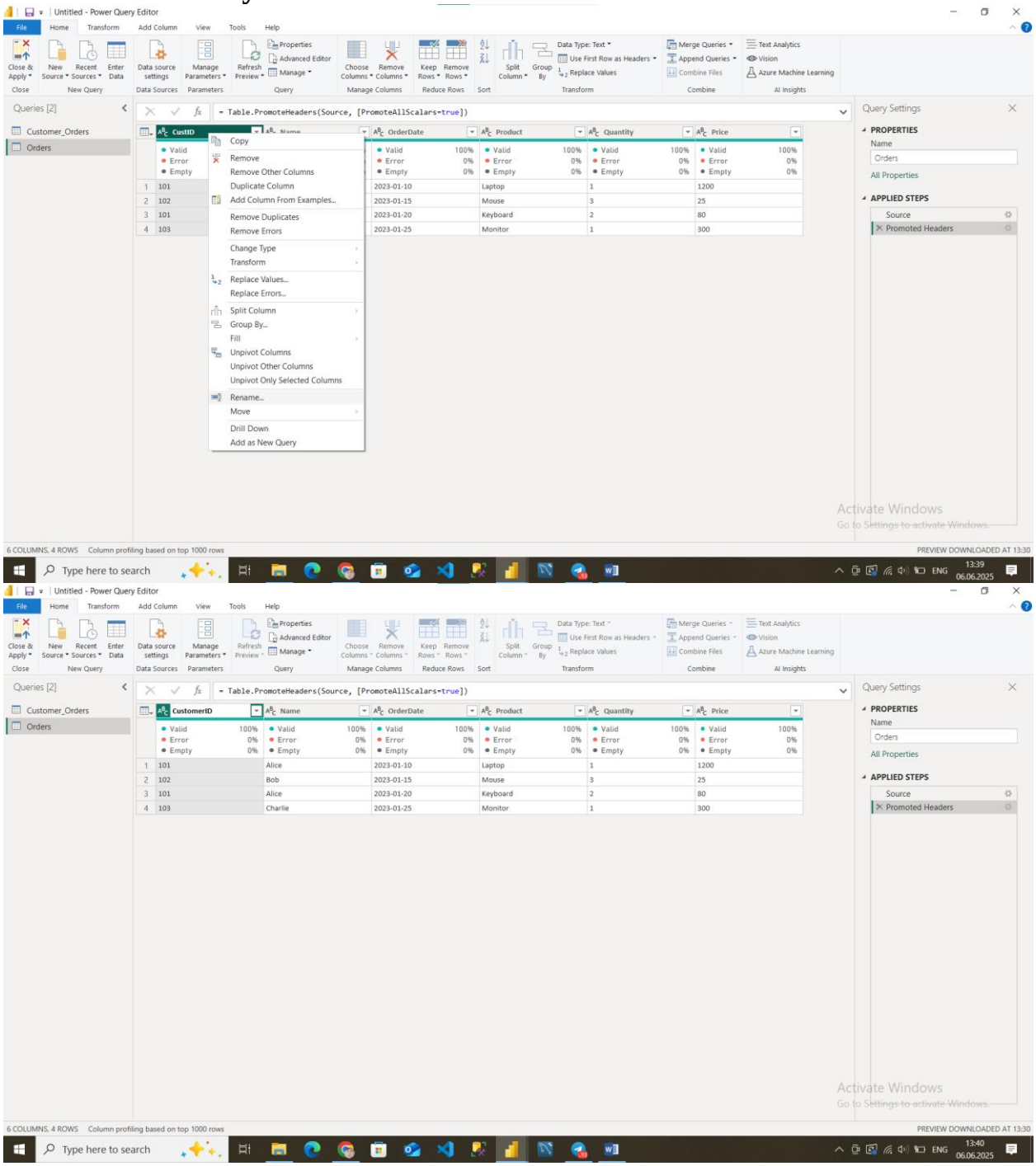
3. **What does the Filter icon do in Power Query?**

Answer:

The **Filter** icon (a little funnel) next to a column header lets you:

- Select or deselect specific values.
- Apply number/date/text filters.
- Keep or exclude nulls or blanks.

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

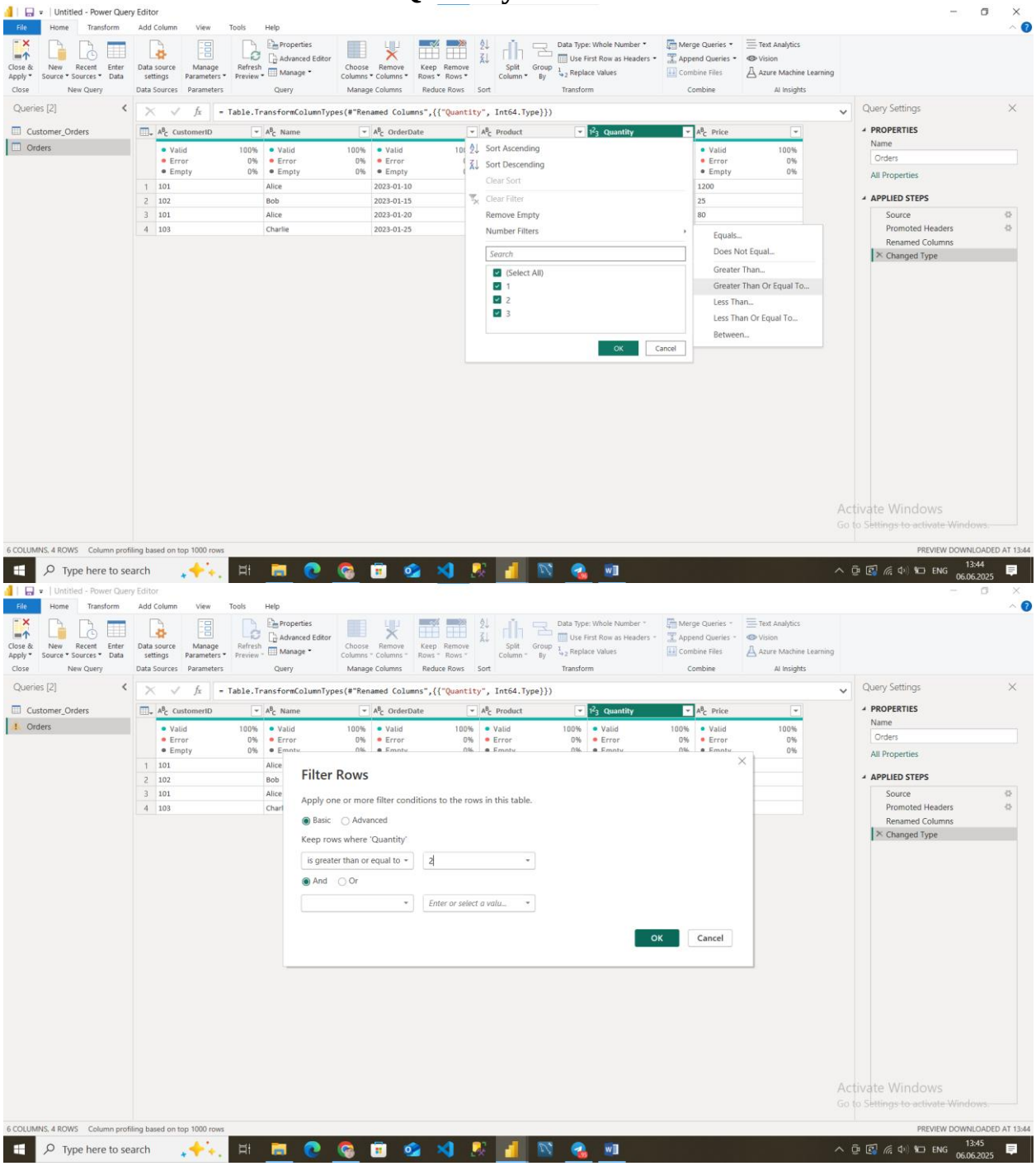


- Right-click the CustID column header.
- Choose **Rename**.
- Type CustomerID and press Enter.

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

- The query editor closes.
- All applied transformations are saved.
- The modified data is loaded into the Power BI data model

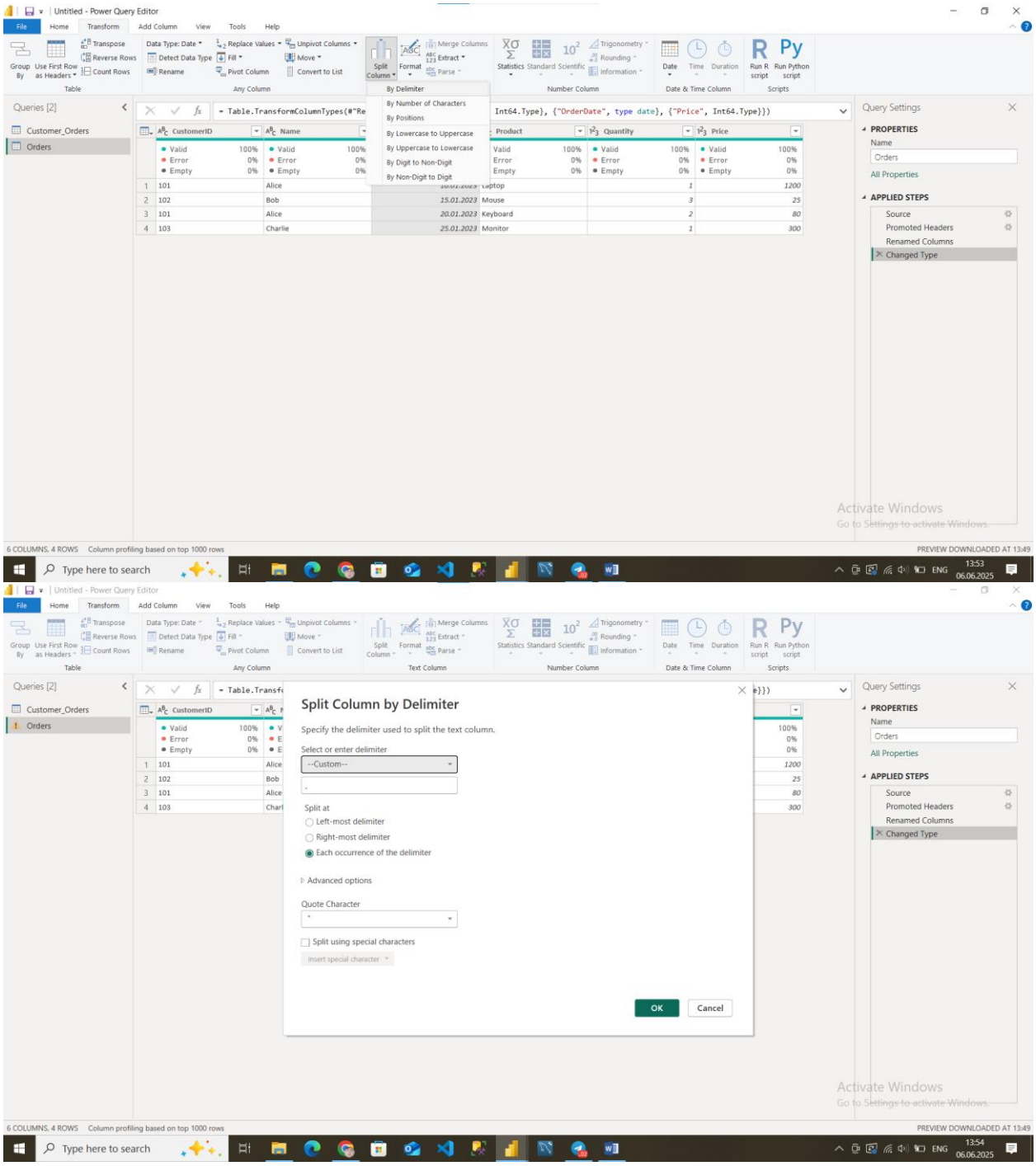
6. **Remove all rows where Quantity is less than 2.**



- Click the drop-down next to **Quantity**.
- Choose **Number Filters → Greater Than or Equal To** → enter 2.
- Click **OK**.

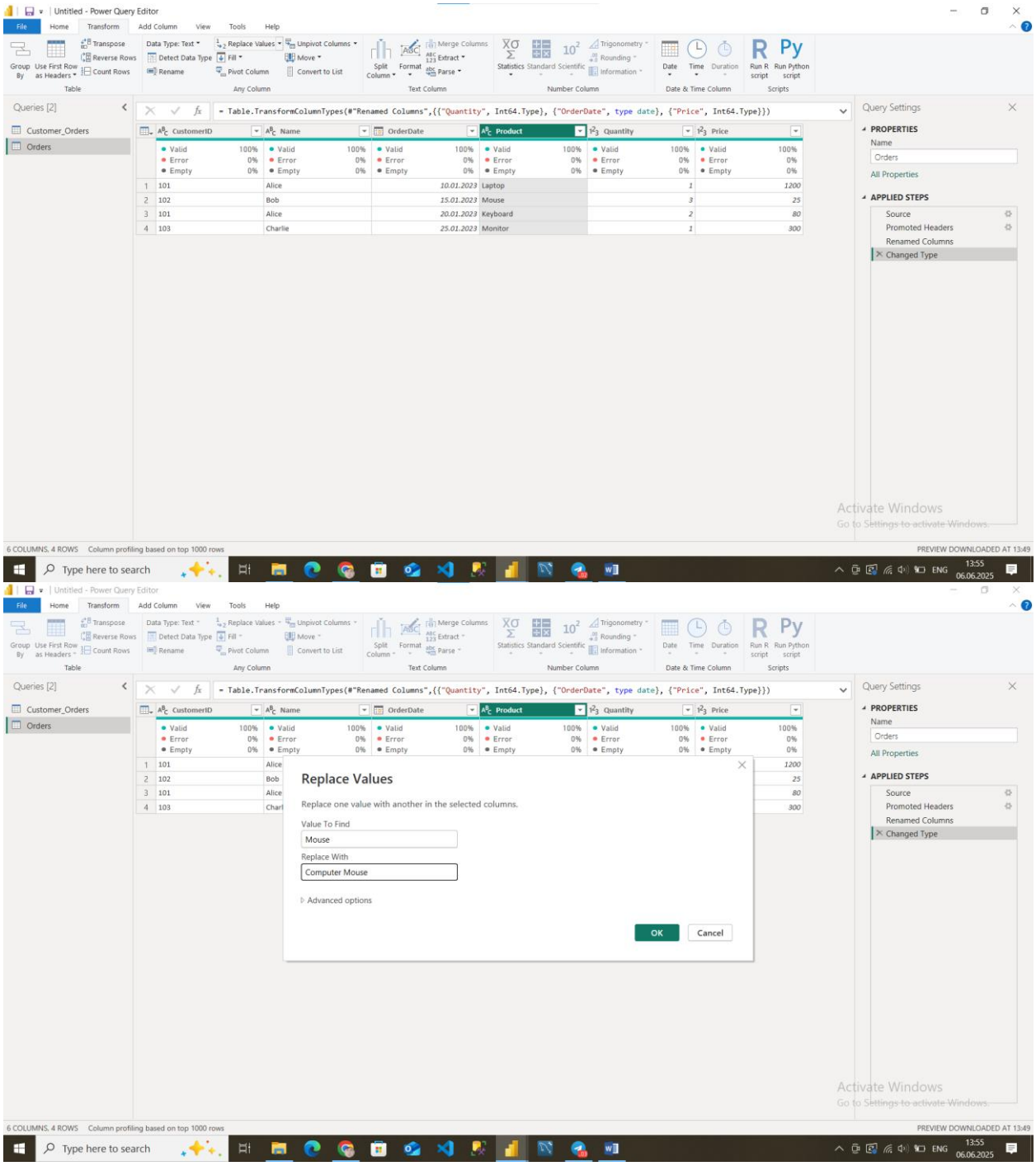
7. **Split the OrderDate column into separate Year, Month, and Day columns.**

- Select OrderDate.
- Go to **Transform → Split Column → By delimeter**→ OK



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

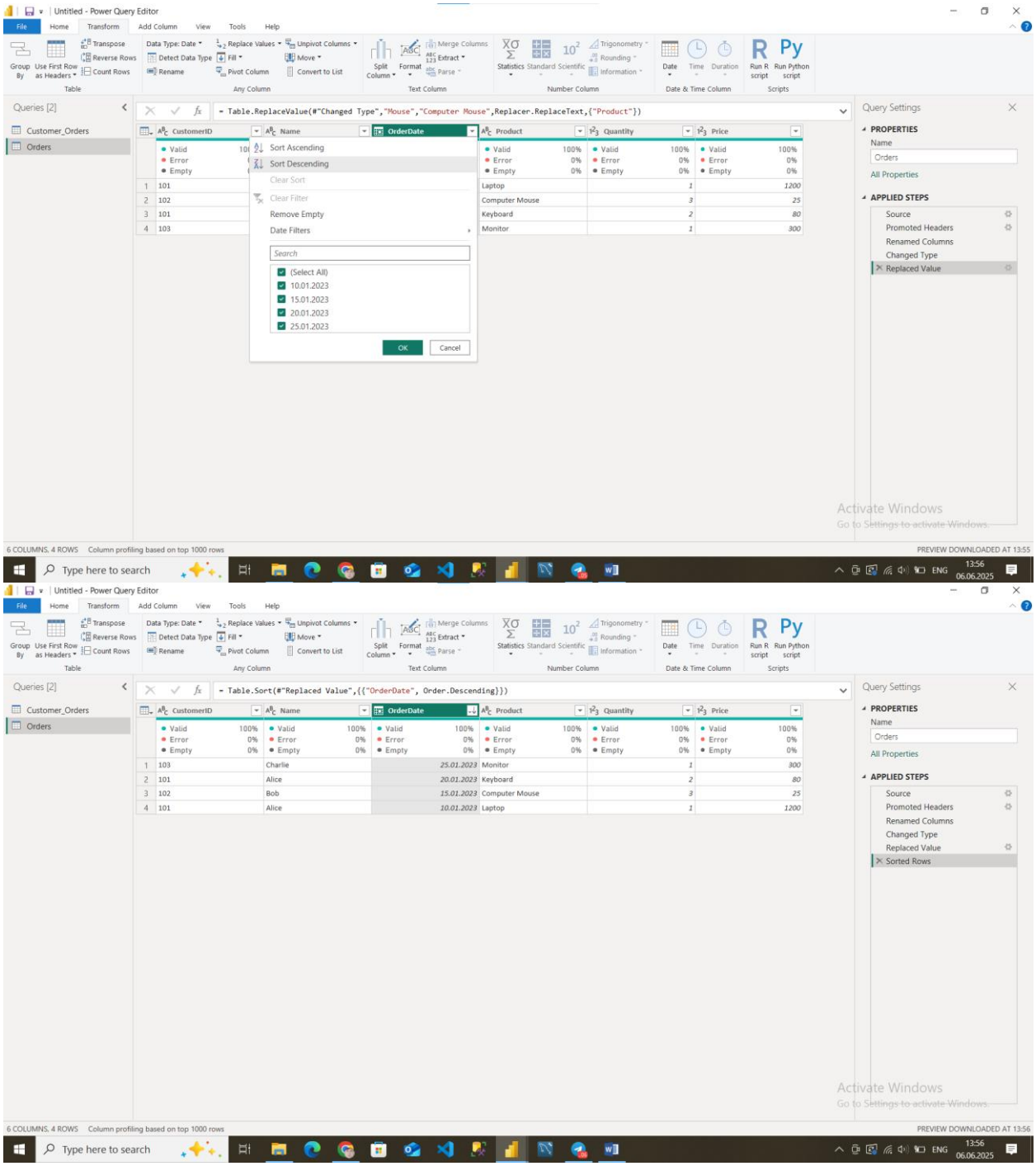
- Select Product column.
- Go to **Transform** tab → **Replace Values**.
- Find: Mouse
- Replace with: Computer Mouse
- Click **OK**.



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

Answer:

- Click the drop-down next to **OrderDate**.
- Choose **Sort Descending** (↓).

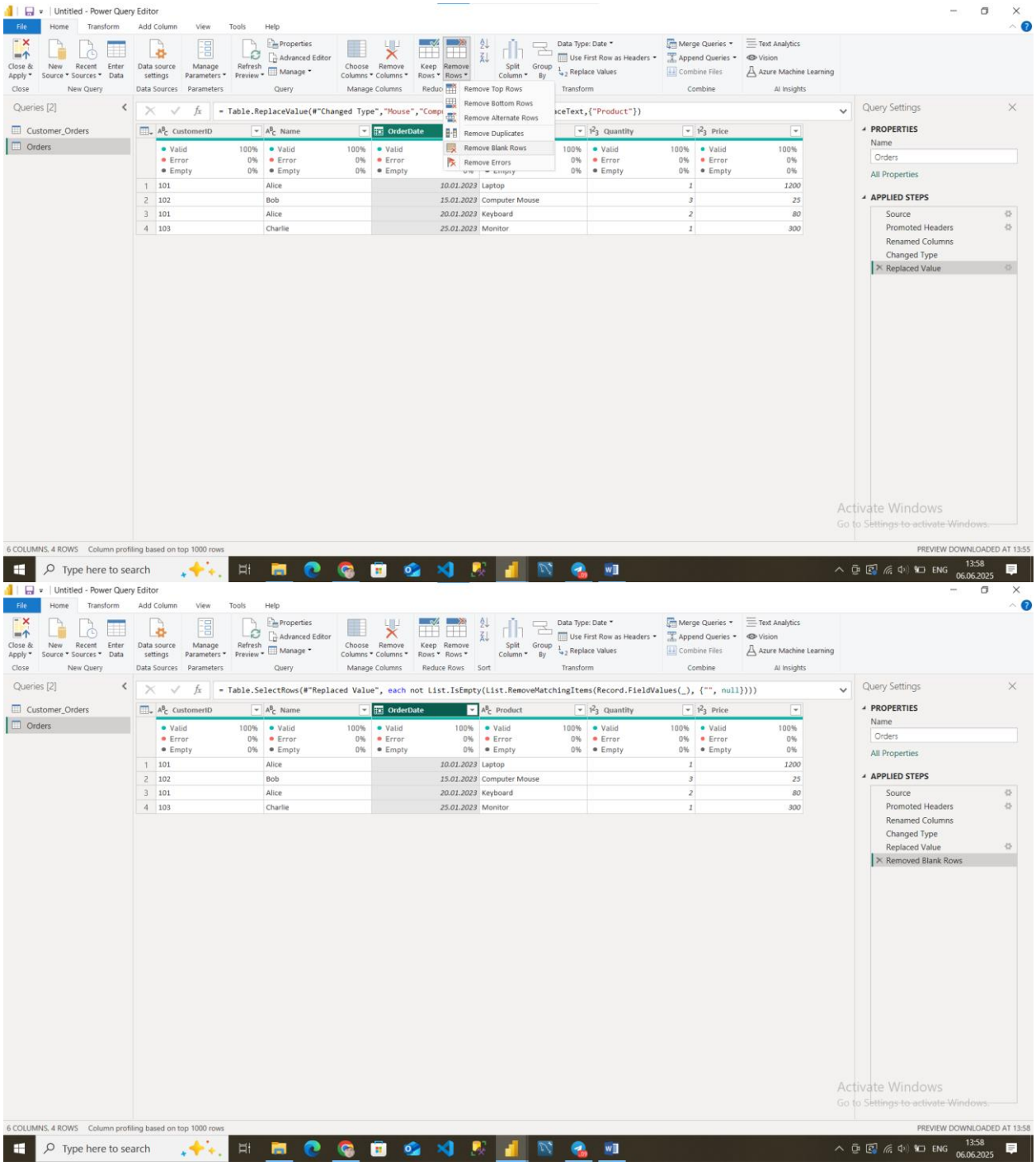


10.How would you handle null values in the Price column?

Answer:

Options:

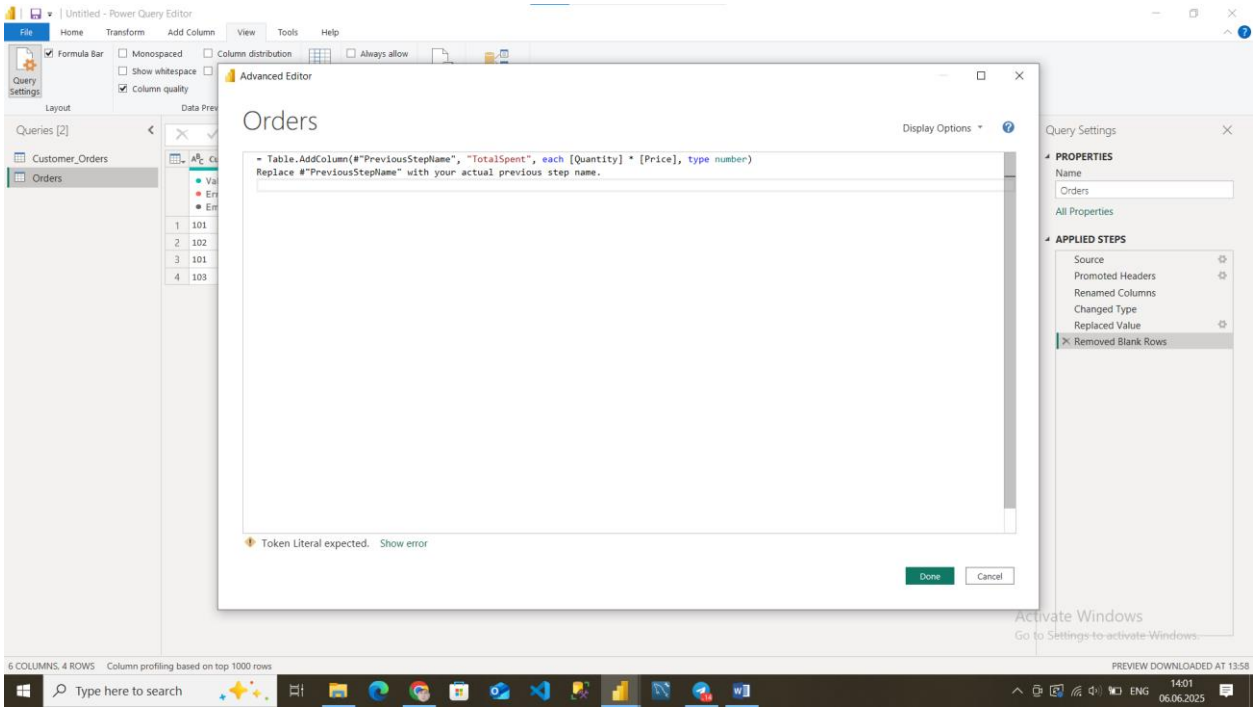
- Or, remove rows with nulls:
  - **Home → Remove Rows → Remove Blank Rows**.
  - Or use filter to exclude null values.



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

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

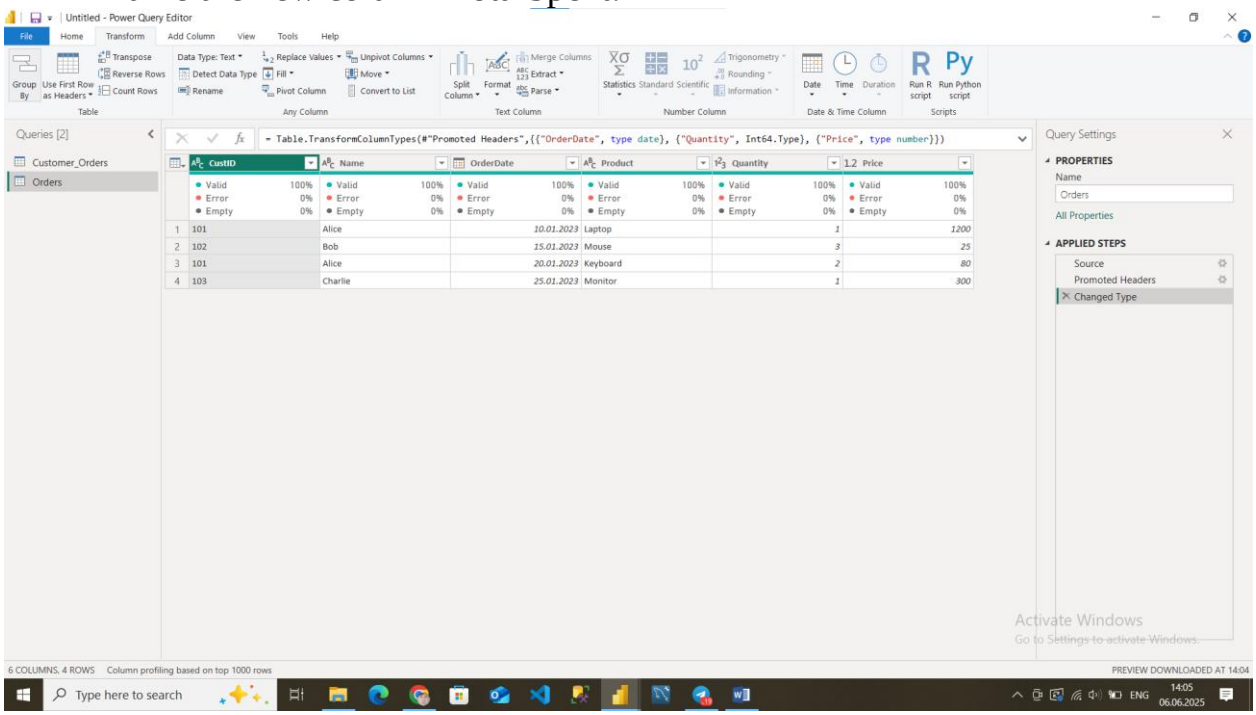
Replace #"PreviousStepName" with your actual previous step name.

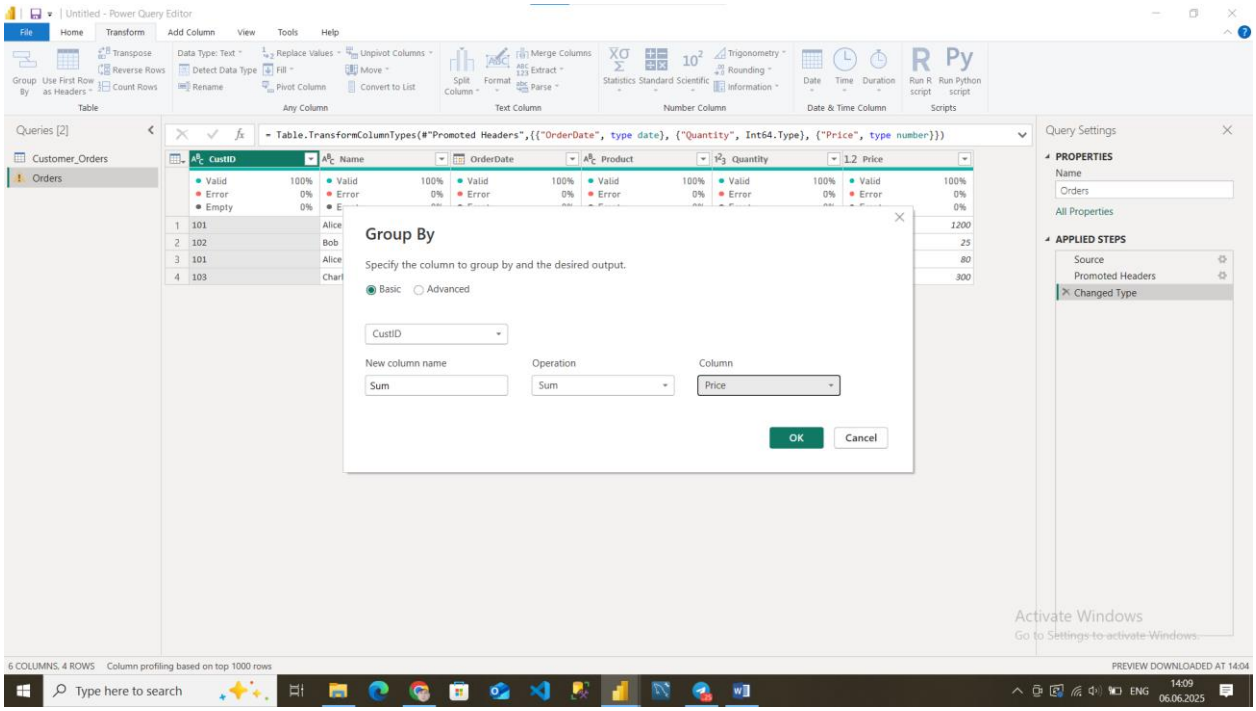


12.Group the table by CustID to show total spending per customer.

Answer:

- Select CustID column.
- **Transform → Group By**.
- Group By: CustID.
- Operation: **Sum** on TotalSpent (or Quantity × Price if not yet calculated).
- Name the new column TotalSpent.

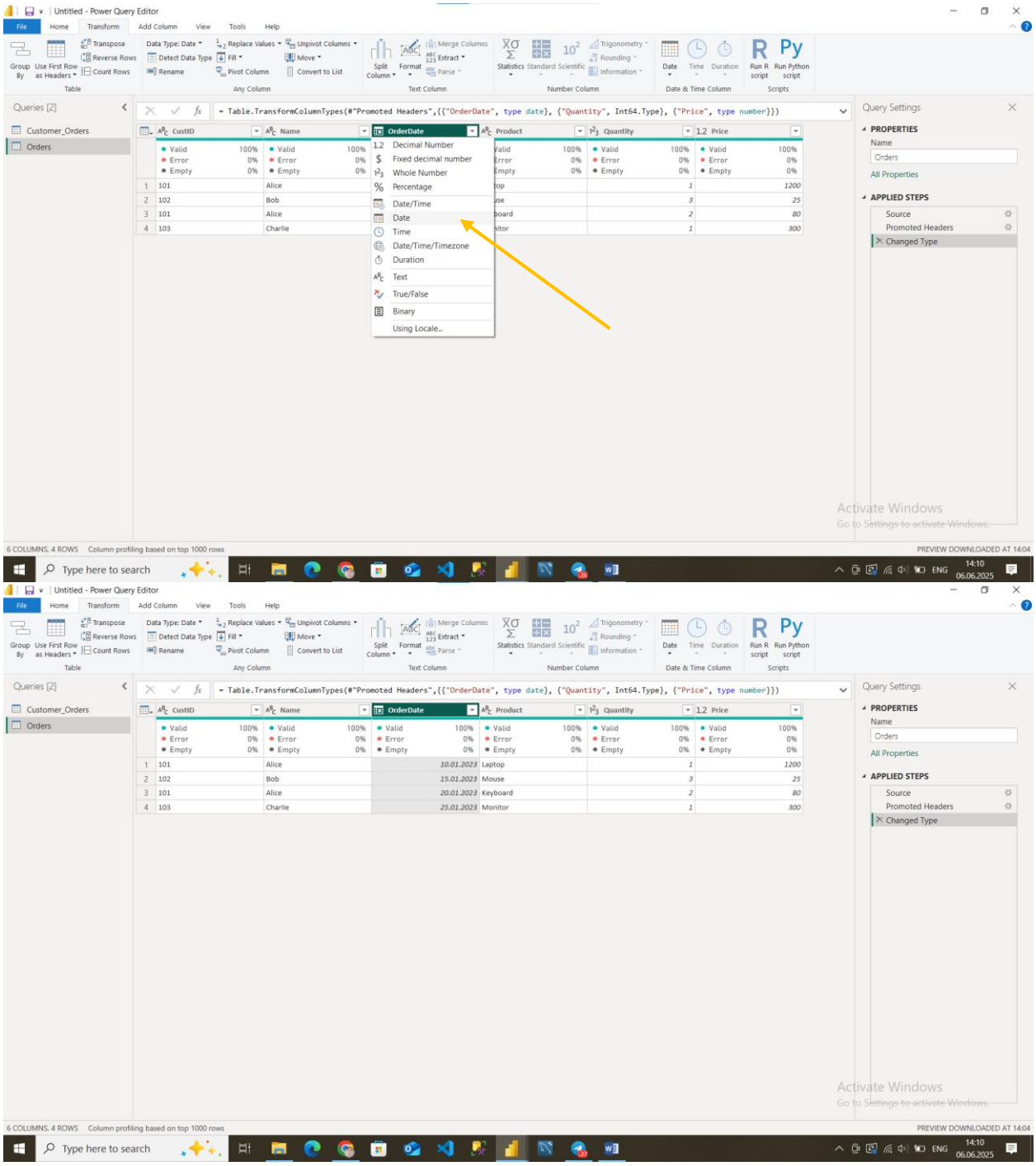




13. **Fix inconsistent date formats (e.g., 01/10/2023 vs. 2023-01-10) in OrderDate.**

Answer:

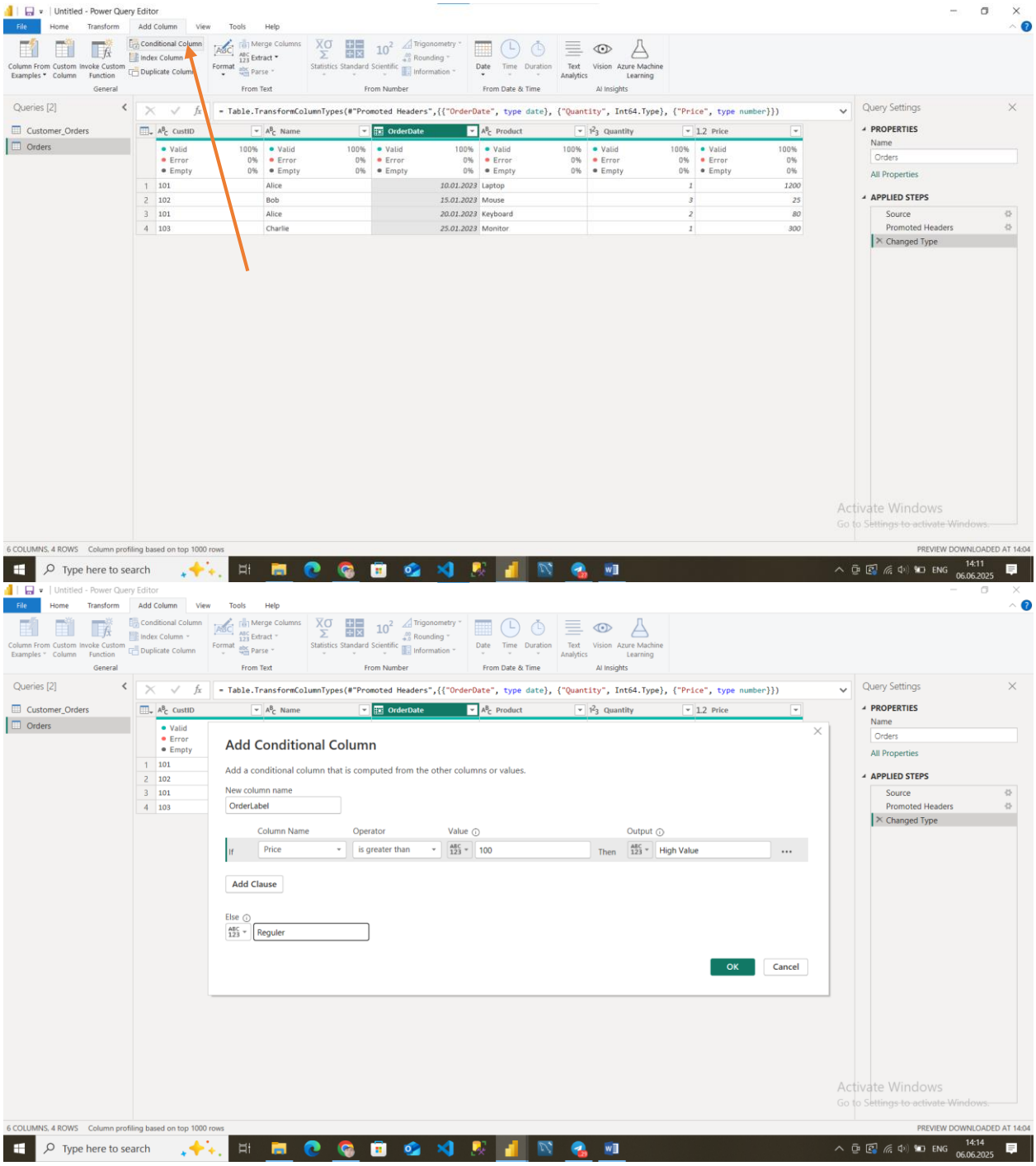
- Select OrderDate.
- **Transform → Data Type → Date**.
  Power Query automatically parses various date formats into a consistent internal date type.



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

Answer:

- **Add Column → Conditional Column**.
- Column Name: OrderLabel.
- If Price **is greater than** 100, then "High Value", else "Regular".



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

Answer:

- At the start of your query steps:
  - **Home → Choose Columns** → keep only necessary columns.
- Avoid redundant steps.
- Merge queries where possible.
- Limit the number of transformations.
- Prefer filtering data early in the query.