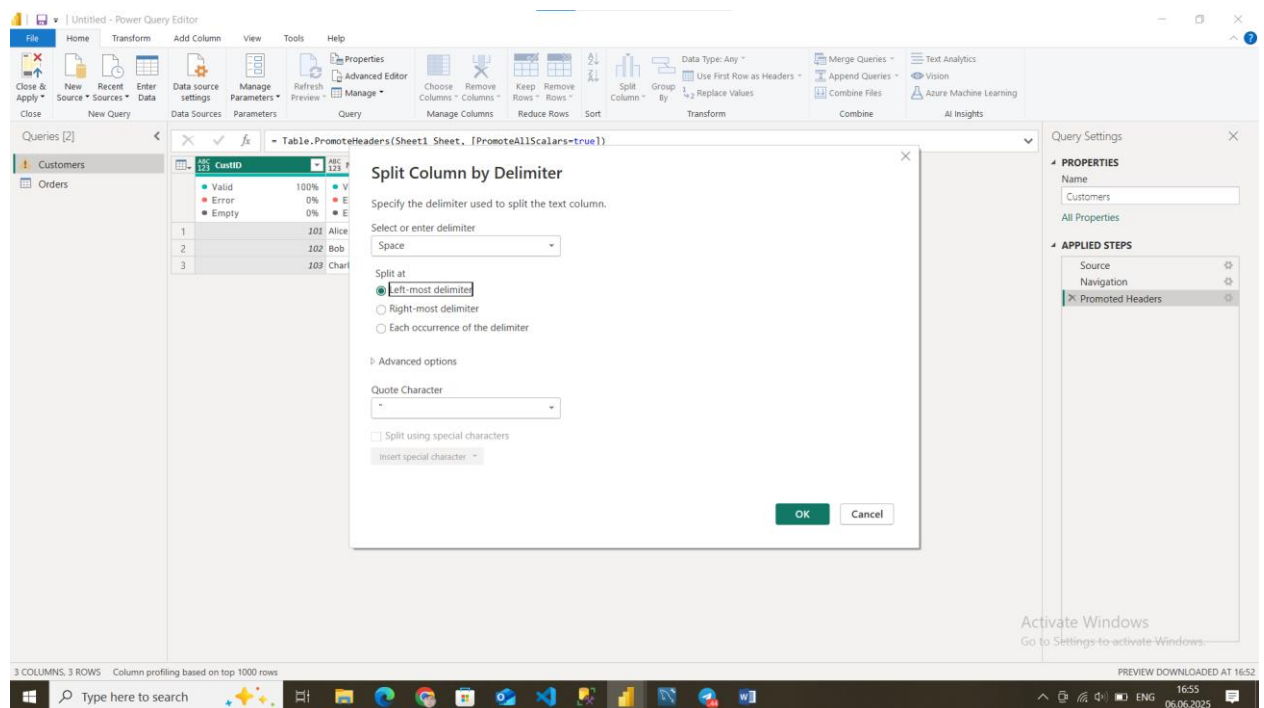
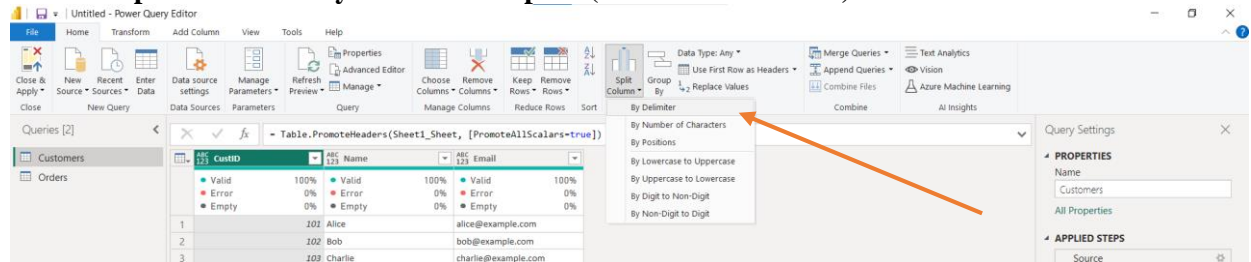


### 1. What's the difference between Merge and Append in Power Query?

- **Merge:** Joins two tables based on a common key (like SQL joins: inner, left, right, etc.)
- **Append:** Stacks two or more tables vertically — rows from one table are added to the end of another.

### 2. How to split a "Full Name" column into "First Name" and "Last Name"?

Home > Split Column > By Delimiter > Space (Left-most delimiter)



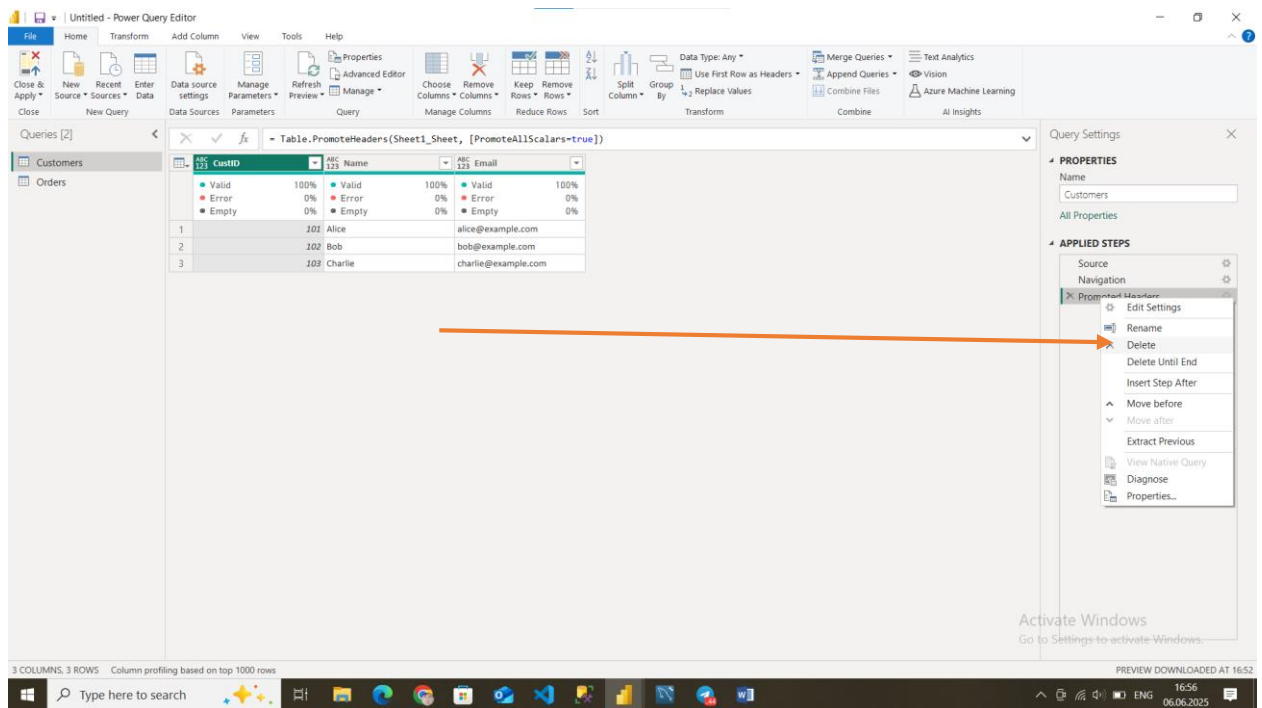
### 3. What is "Pivot Columns" used for?

Transforms rows into columns or vice versa.

### 4. How to undo a step in Power Query?

In the **Applied Steps** pane (right-hand side):

- Right-click the step → **Delete**
- Or click the **X** icon beside the step.



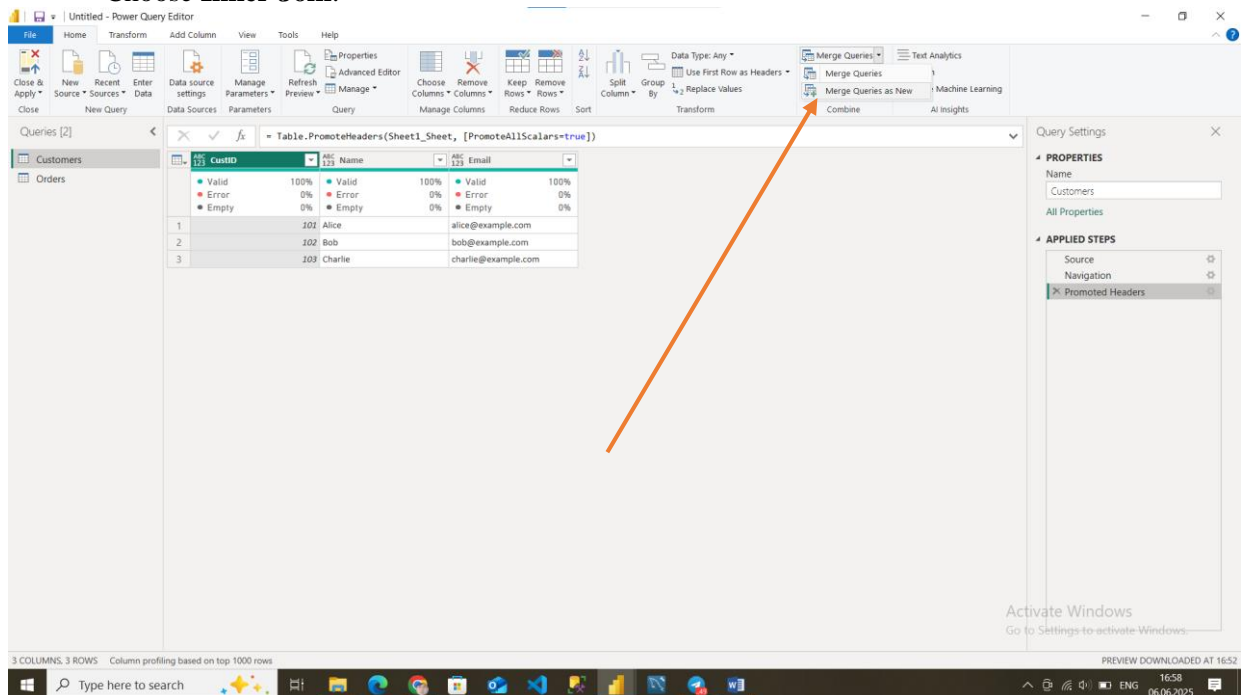
## 5. Purpose of Reference vs. Duplicate in queries?

- **Duplicate:** Makes a full **copy** of the query and its applied steps.
- **Reference:** Creates a **linked query** that starts with the output of the original query but lets you add new transformations on top.

## 6. Merge Orders.csv and Customers.xlsx on CustID (inner join)

Home > Merge Queries > Merge Queries as New

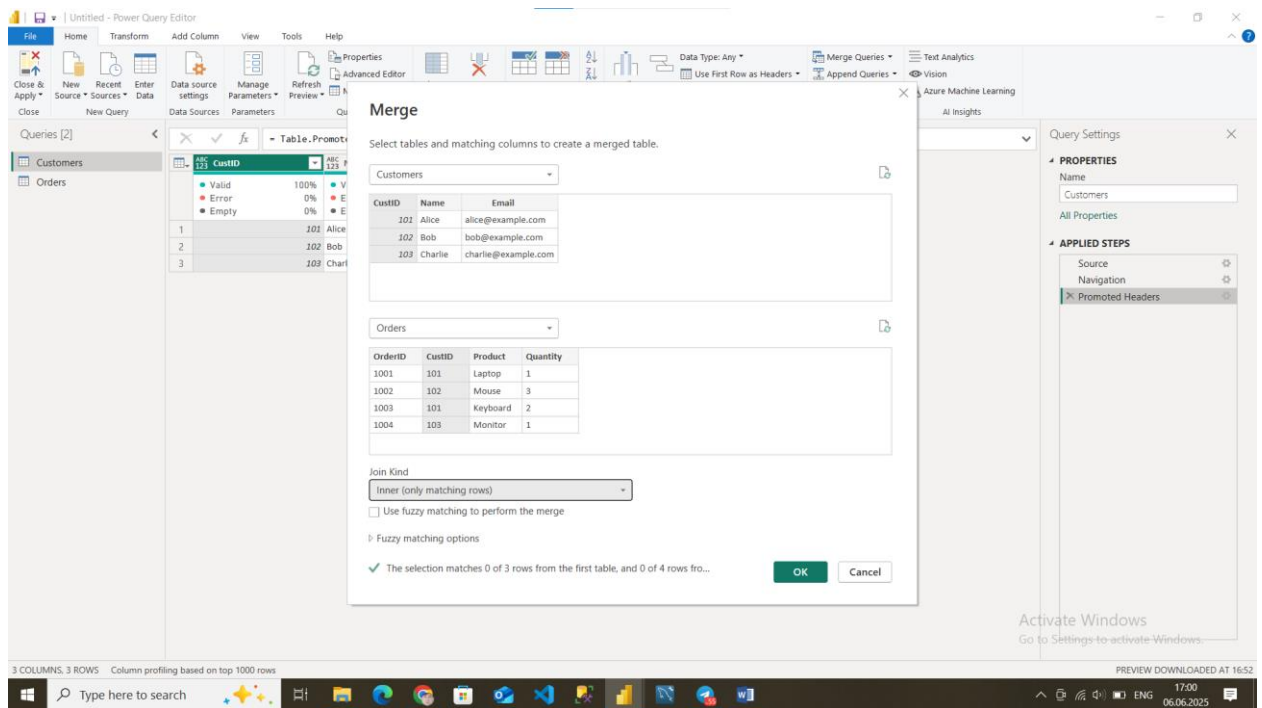
- Select **CustID** in both tables.
- Choose **Inner Join**.



7. Pivot the Product column to show total Quantity per product

Transform > Pivot Column

- Values Column: Quantity
- Aggregate Function: Sum



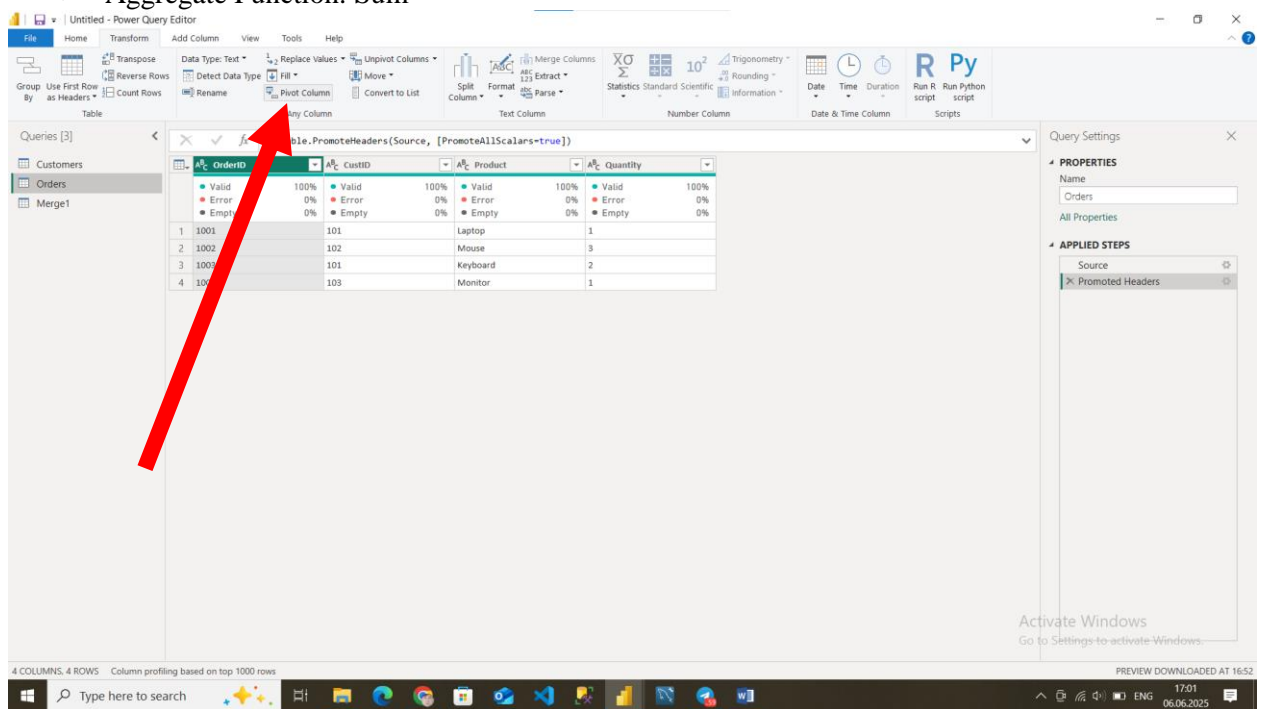
3 COLUMNS, 3 ROWS Column profiling based on top 1000 rows

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## 7. Pivot the Product column to show total Quantity per product

### Transform > Pivot Column

- Values Column: Quantity
- Aggregate Function: Sum



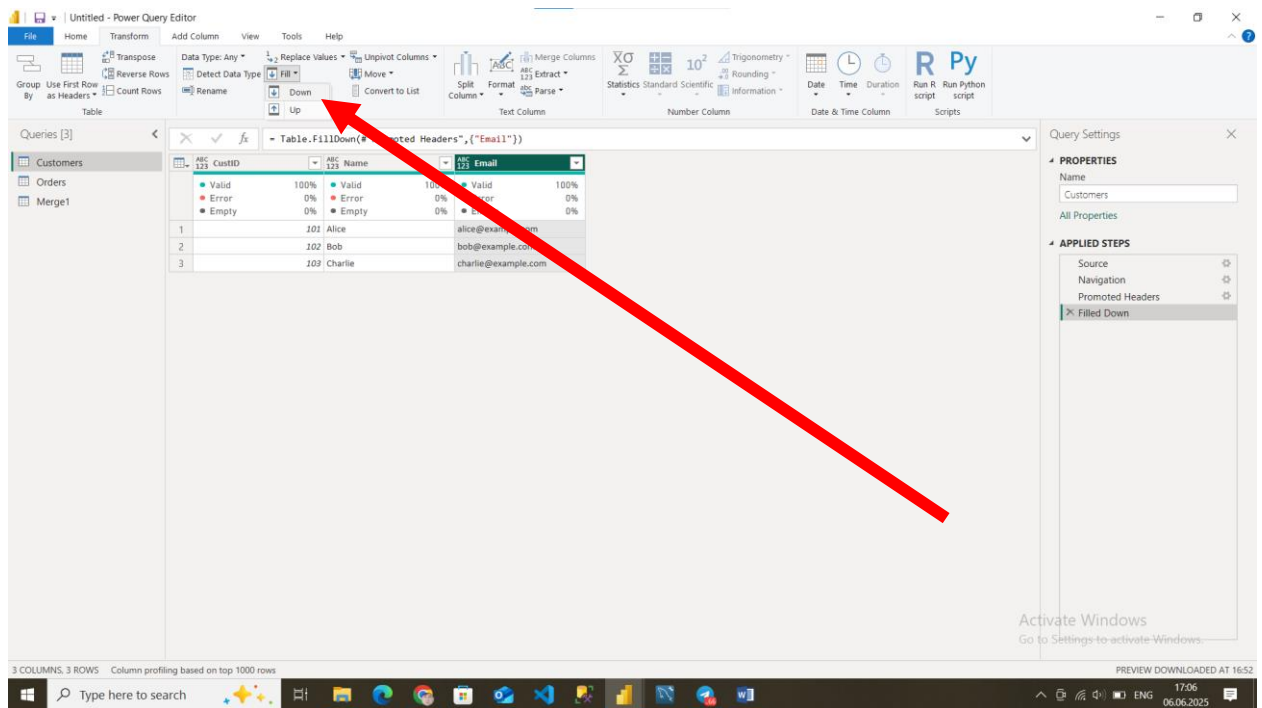
4 COLUMNS, 4 ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 16:52

**8. Append two tables with identical columns (Orders\_Jan + Orders\_Feb)**  
**Home > Append Queries > Append Queries as New**

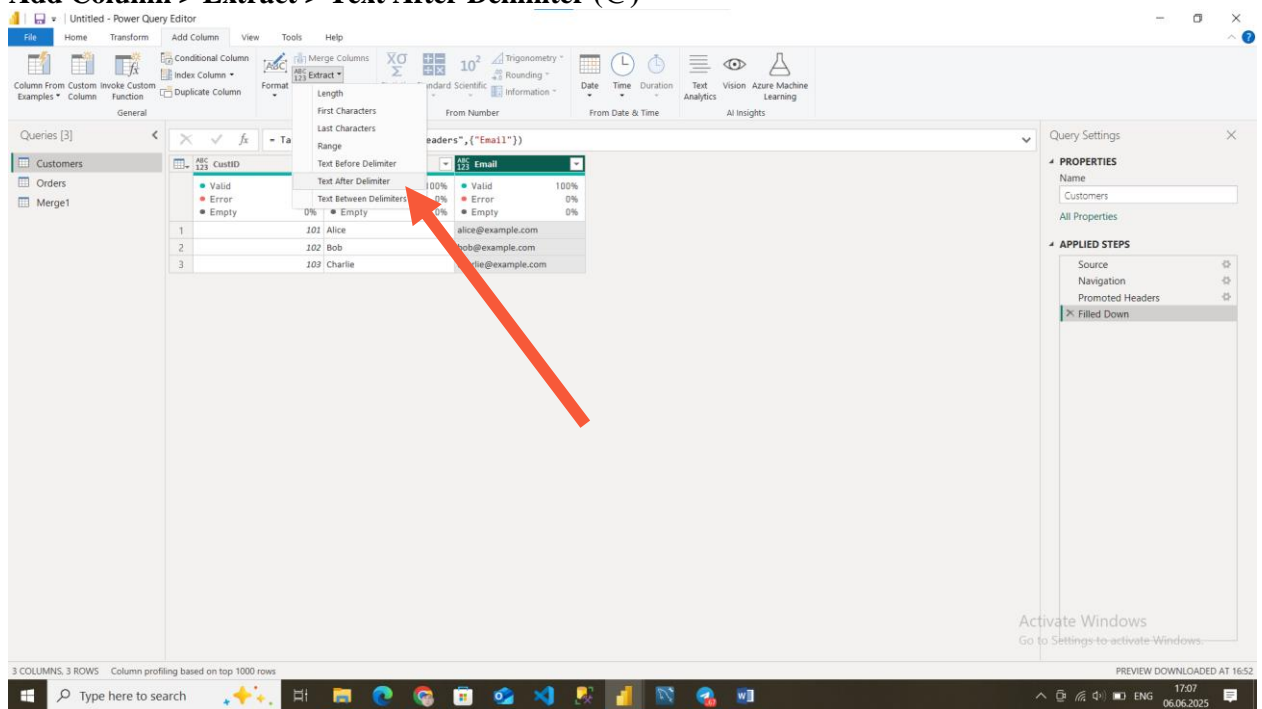
- Select both tables.

**9. Use Fill Down to replace nulls in the Email column with the previous value**  
**Transform > Fill > Down** on the Email column.



## 10. Extract the domain (e.g., example.com) from the Email column

Add Column > Extract > Text After Delimiter (@)



The first screenshot shows the Power Query Editor with a table containing columns: CustID, Name, and Email. A dialog box titled 'Text After Delimiter' is open, prompting the user to enter a delimiter. The delimiter '@' is entered in the text box.

The second screenshot shows the same table after the transformation. A new column, 'Text After Delimiter', has been added, containing the domain part of the email addresses (e.g., 'example.com'). The formula bar shows the M-code: `Table.AddColumn(#"Filled Down", "Text After Delimiter", each Text.AfterDelimiter([Email], "@", type text))`.

**11. M-code to merge queries dynamically based on a parameter (JoinType = "Inner")**  
 = Table.NestedJoin(Orders, {"CustID"}, Customers, {"CustID"}, "NewColumn",  
 JoinKind.FromText(JoinTypeParam))

**12. Unpivot a table with columns like "Jan\_Sales," "Feb\_Sales"**  
 Transform > Unpivot Columns

**13. Handle errors in a custom column (e.g., division by zero)**  
 Use try...otherwise  
**M code:**  
 = Table.AddColumn("#Previous Step", "SafeDivision", each try [Value] / [Divisor] otherwise null)

**14. Create a function in Power Query to clean phone numbers (remove dashes)**  
**Function Definition:**  
 let CleanPhoneNumber = (Phone as text) as text =>

```
Text.Select(Phone, {"0".."9"})  
in CleanPhoneNumber
```

```
= Table.AddColumn("#Previous Step", "CleanPhone", each CleanPhoneNumber([Phone]))
```

### 15. Optimize a query with 10+ steps — identify bottlenecks and simplify

#### Tips:

- Disable **Load to worksheet** for intermediate queries.
- Merge transformations (combine filtering/sorting steps).
- Remove redundant or unused steps.
- Use **Reference** instead of **Duplicate** when branching.
- Minimize using **Column profiling** options for large data.
- Consolidate multiple AddColumn steps into a single one where possible.