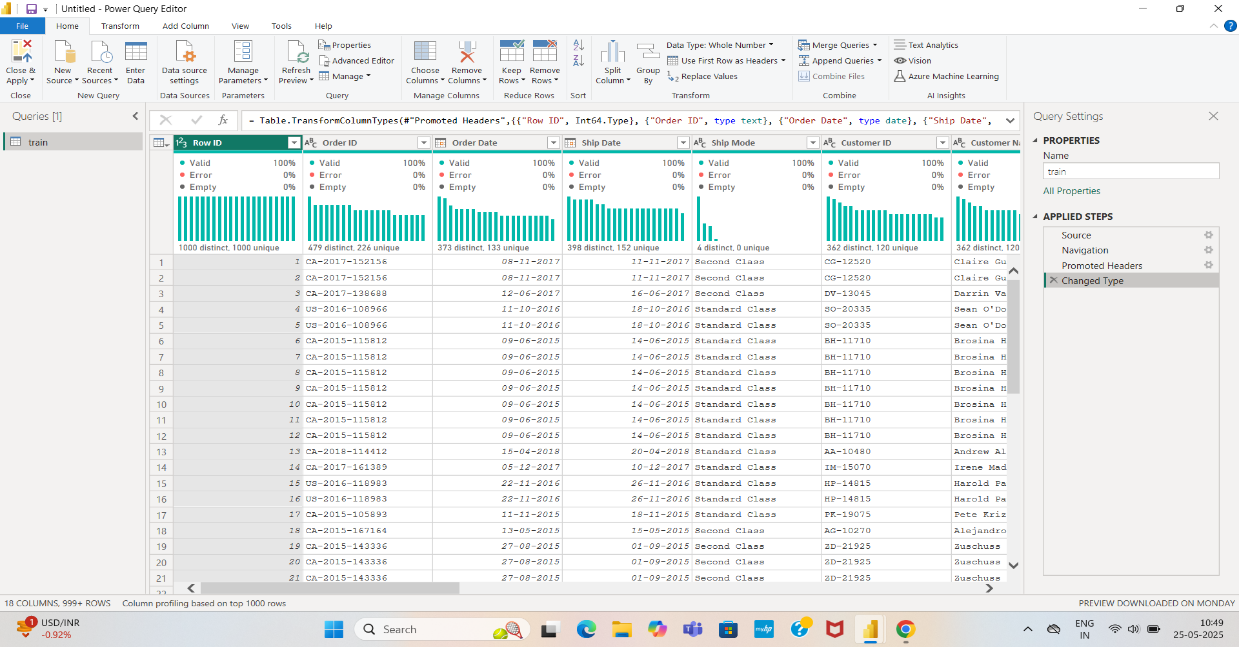
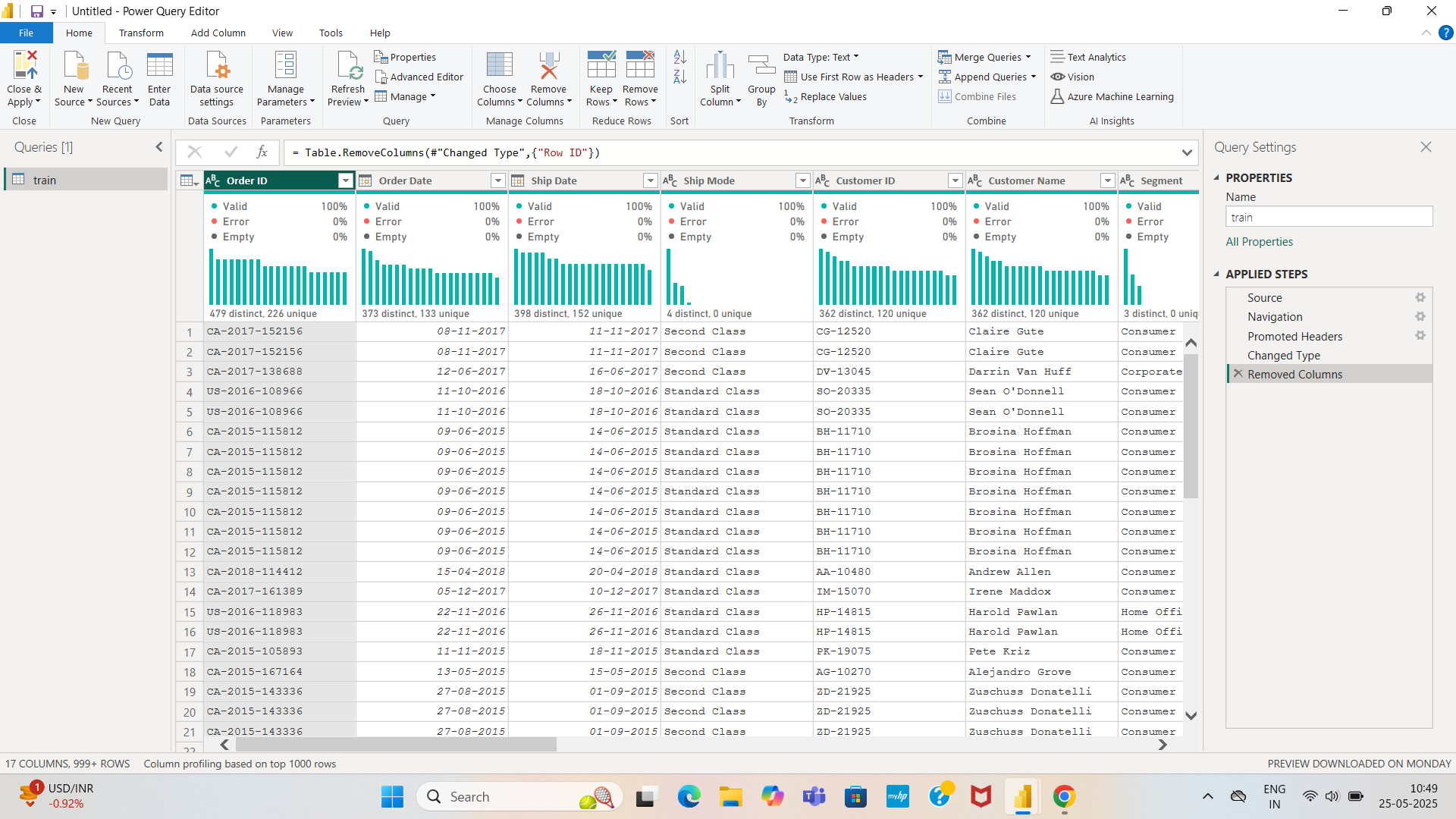
**Power Query Editor Assignment**

### **1. Remove Unnecessary Columns**

**Question: Remove the Row ID column from the dataset.**

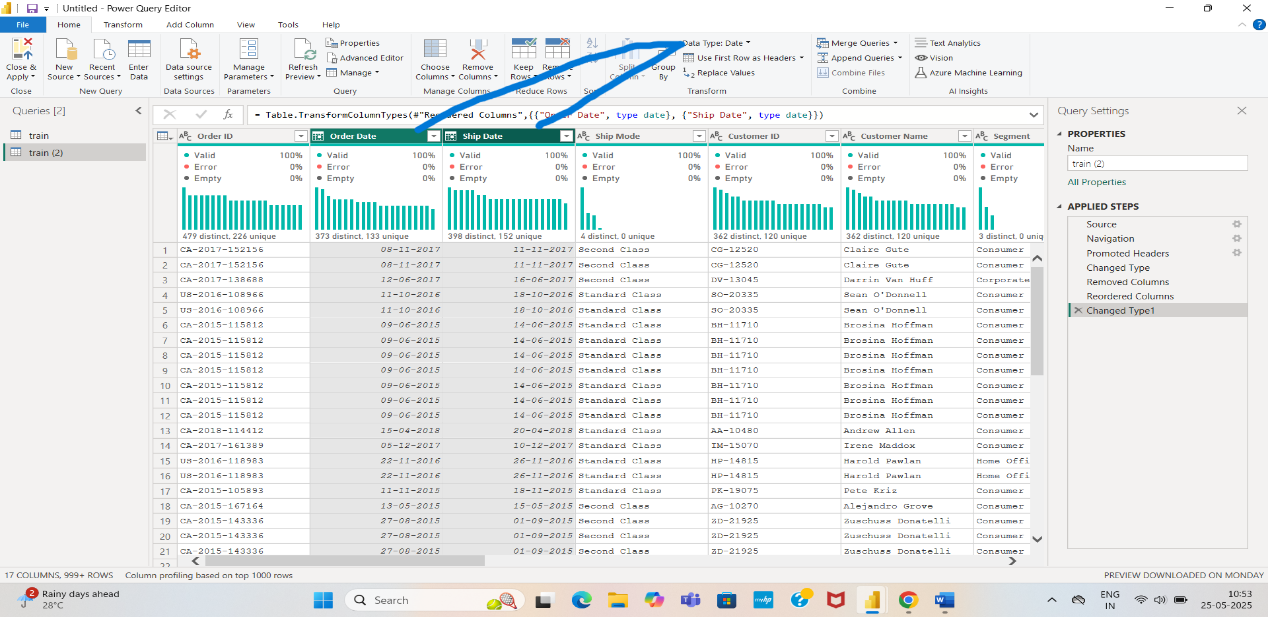
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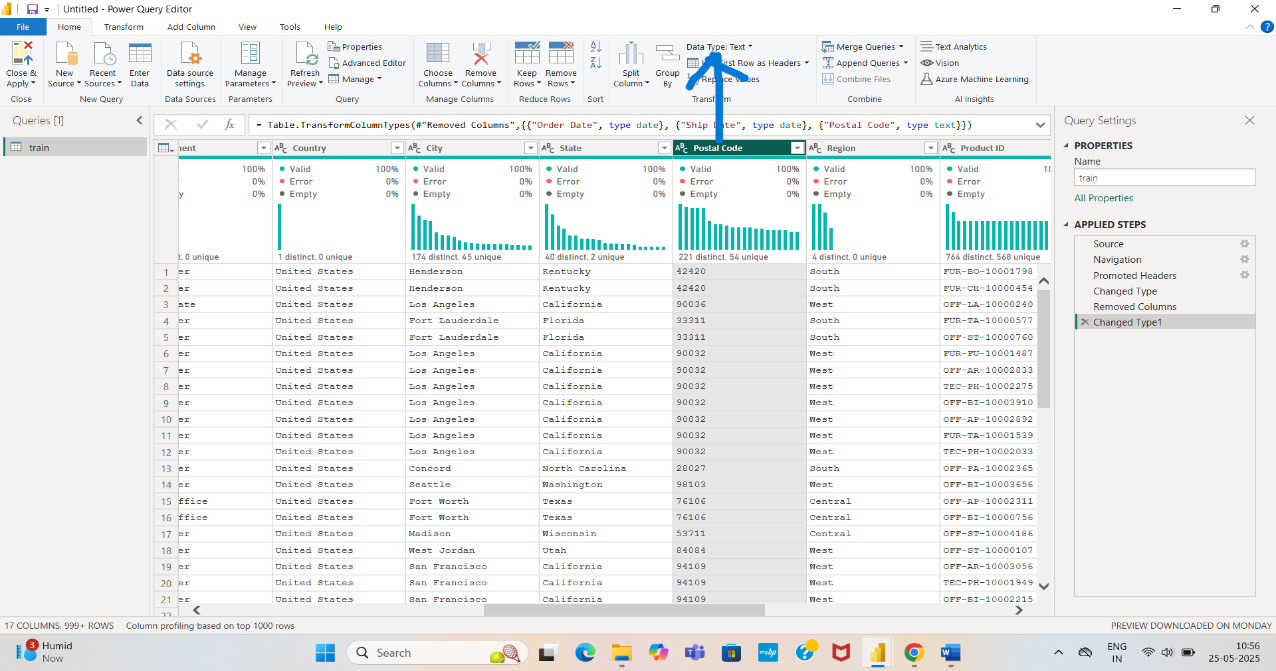
### **2.Change Data Types**

**Question: Change the data types of the following columns:**

* **Order Date and Ship Date to Date.**

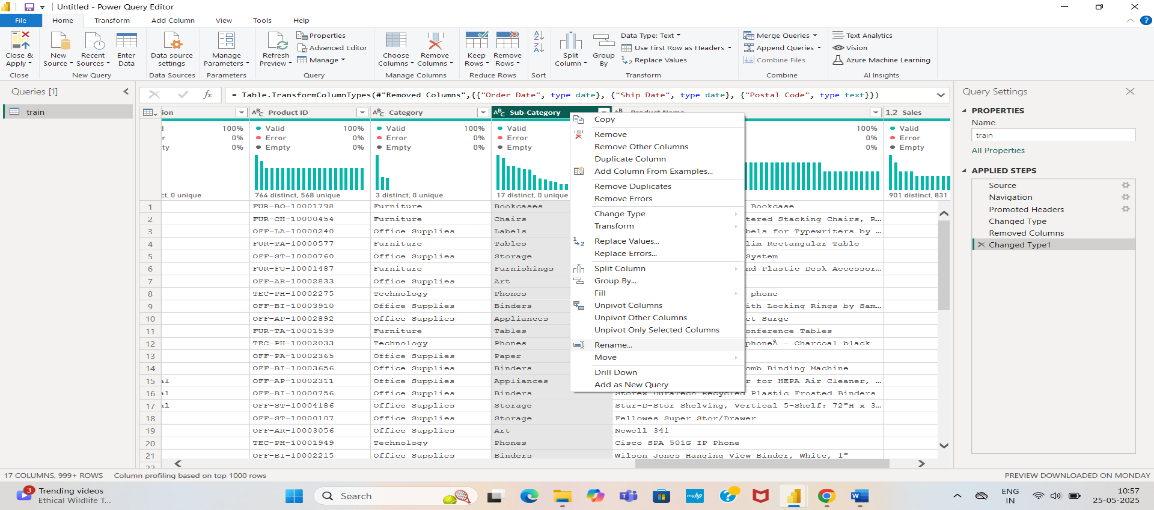


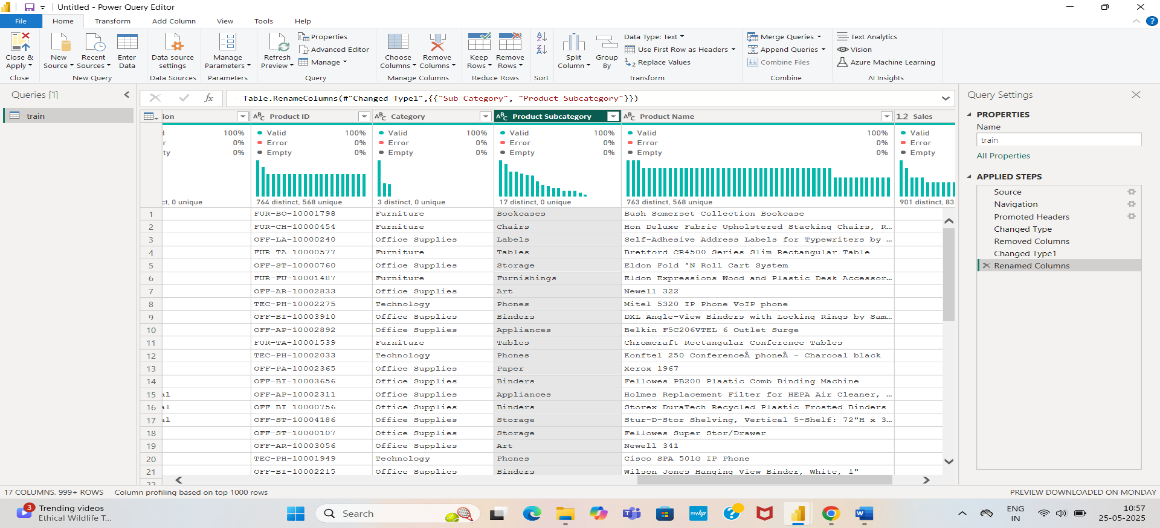
* **Postal Code to Text.**



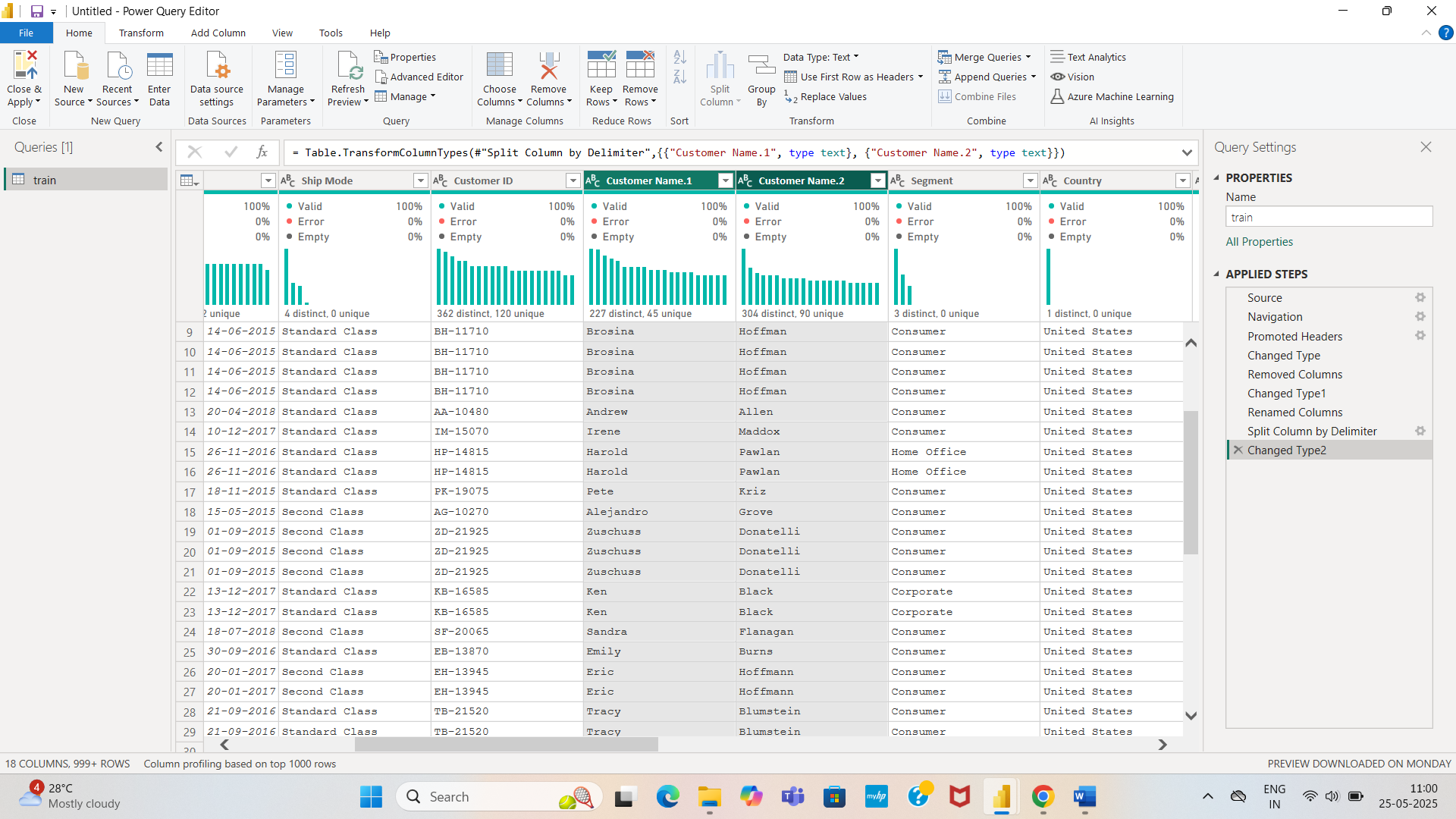
### **3. Rename Columns**

### **Question: Rename the column Sub-Category to Product Subcategory.**

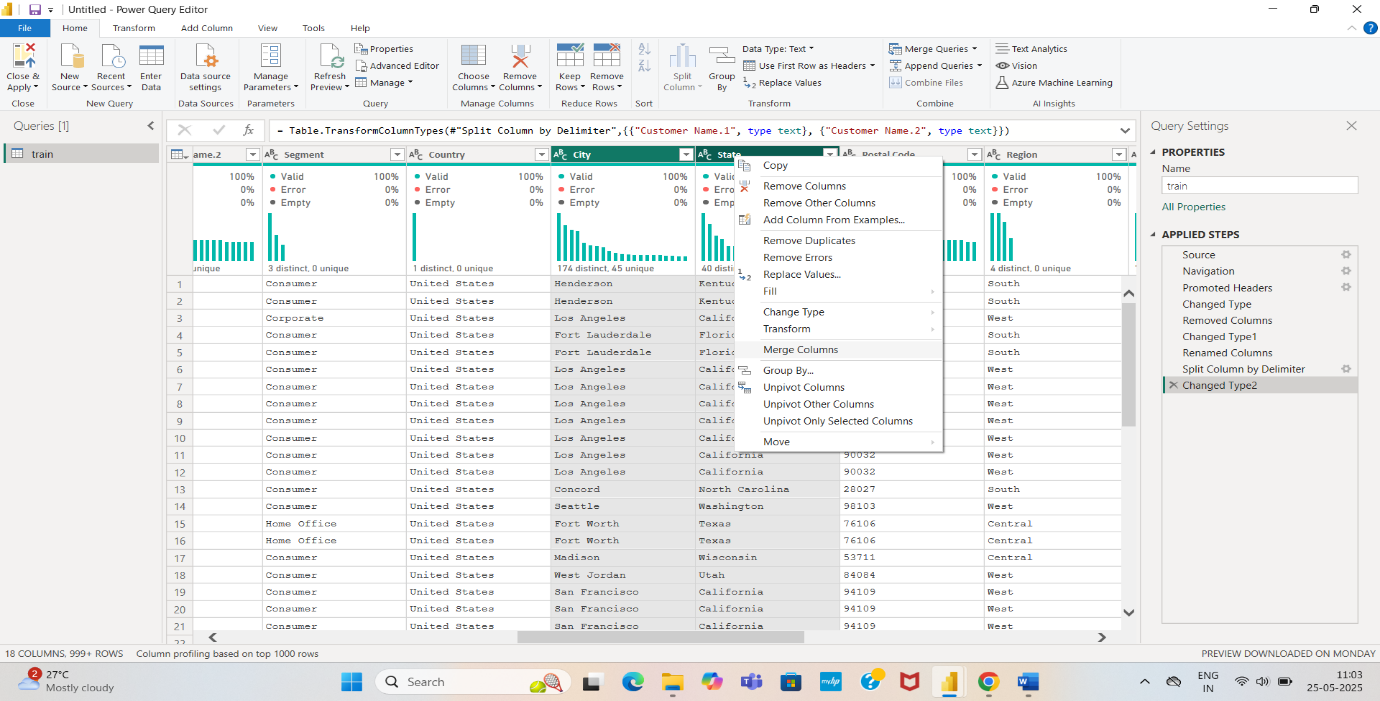
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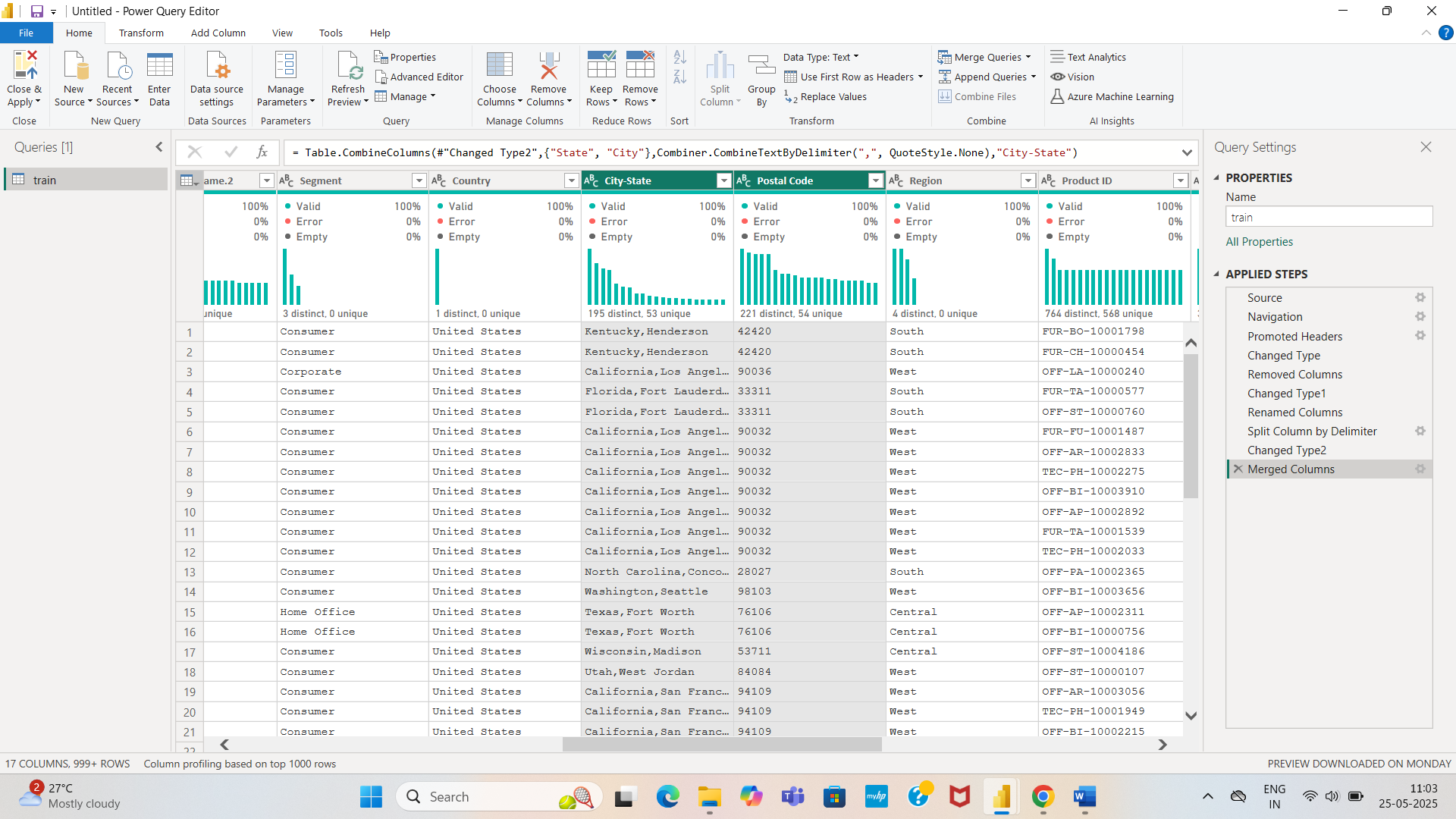
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### **4. Split Columns**

**Question: Split the Customer Name column into two new columns: First Name and Last Name.**

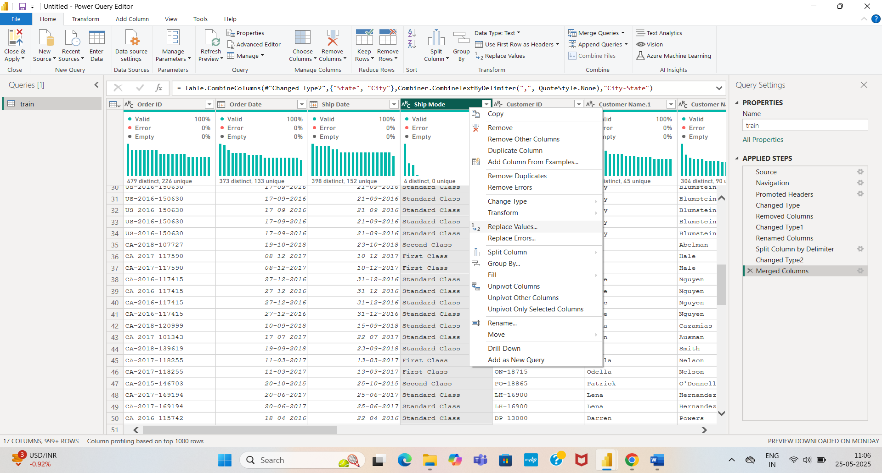
### **5. Merge Columns**

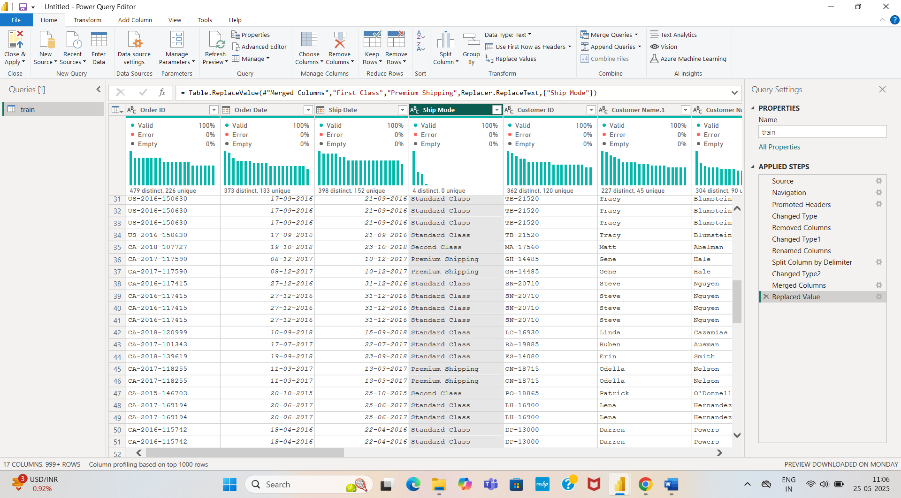
**Question: Combine the City and State columns into a single column named City-State with a comma and a space separator (e.g., "New York, NY").**

****

### **6. Replace Values**

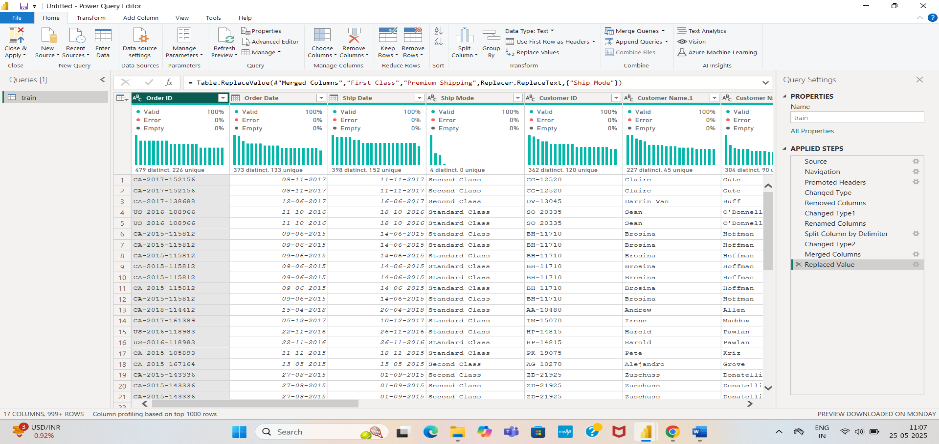
**Question: Replace any instance of First Class in the Ship Mode column with Premium Shipping.**

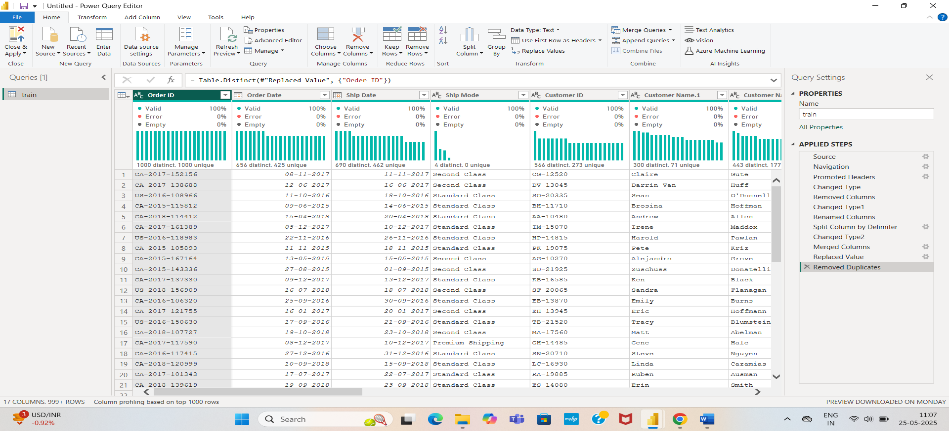
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### **7. Remove Duplicates**

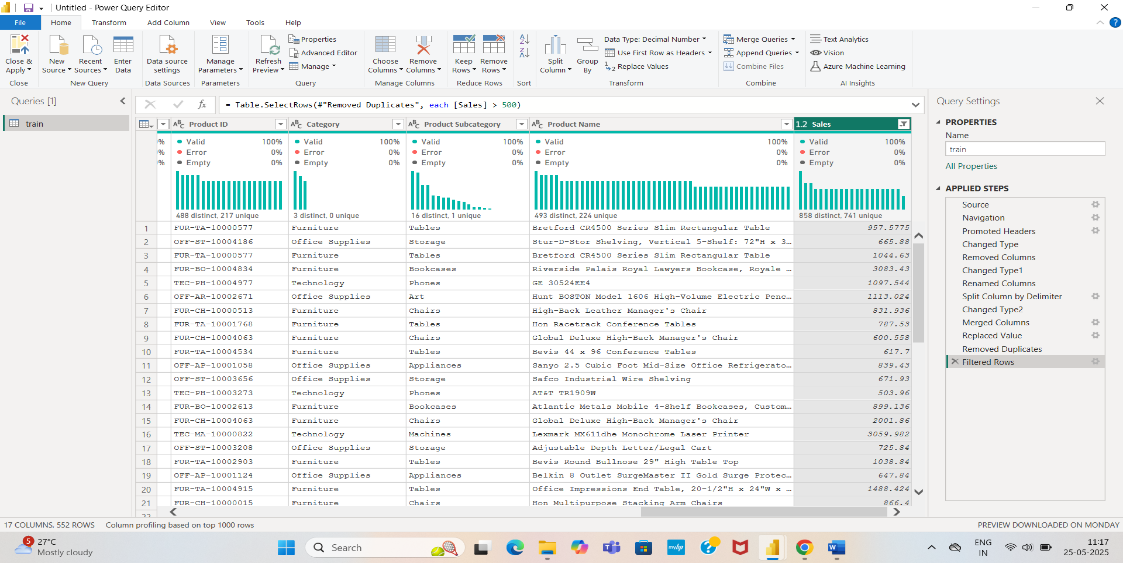
**Question: Remove any duplicate rows based on the Order ID column.**

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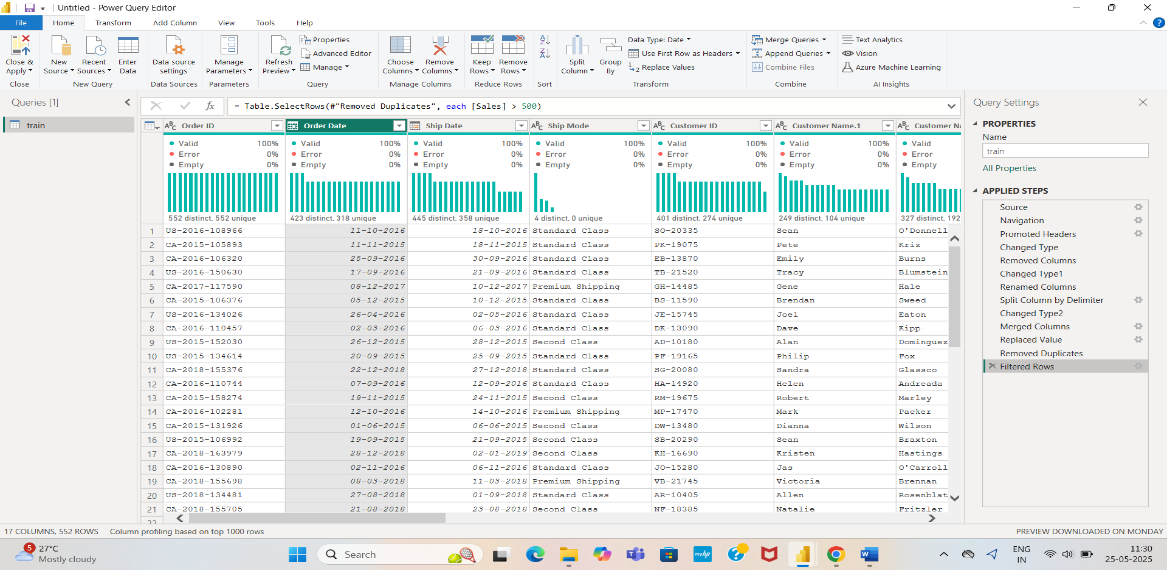
### **8. Filter Rows**

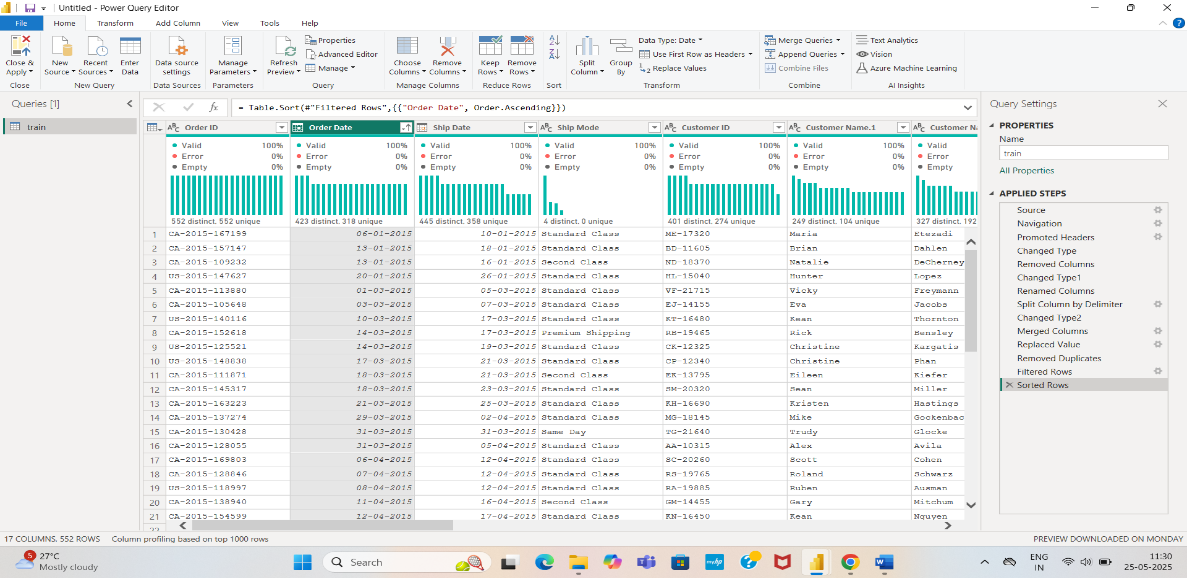
**Question: Filter the data to include only rows where Sales is greater than 500.**

****

### **9. Sort Rows**

**Question: Sort the dataset by Order Date in ascending order.**

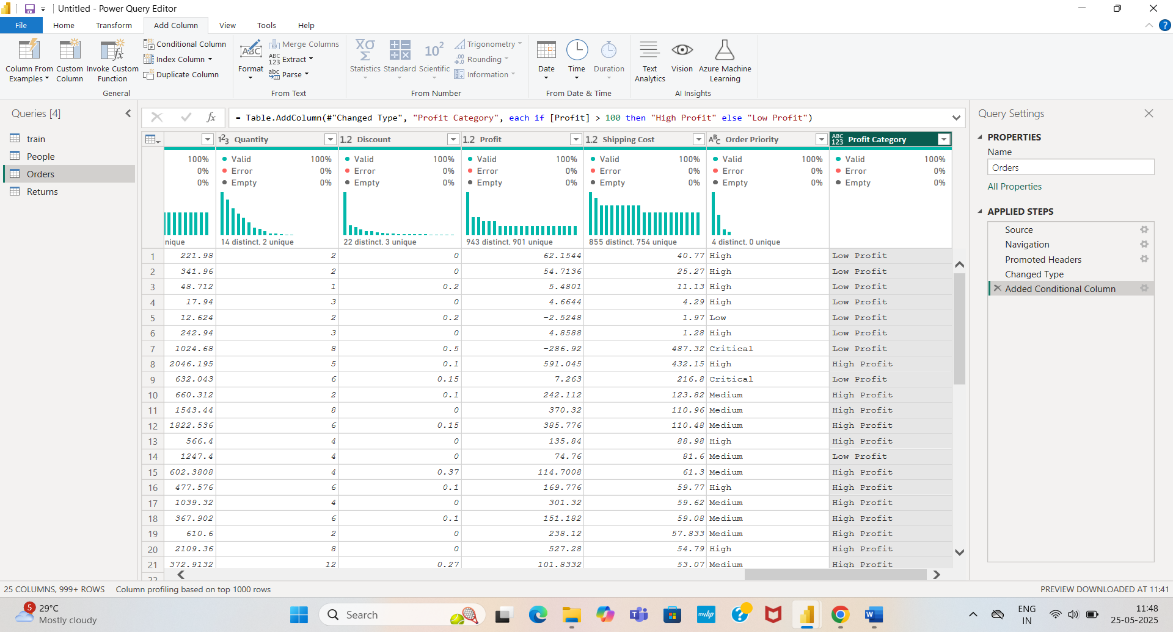
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### **10. Add a Conditional Column**

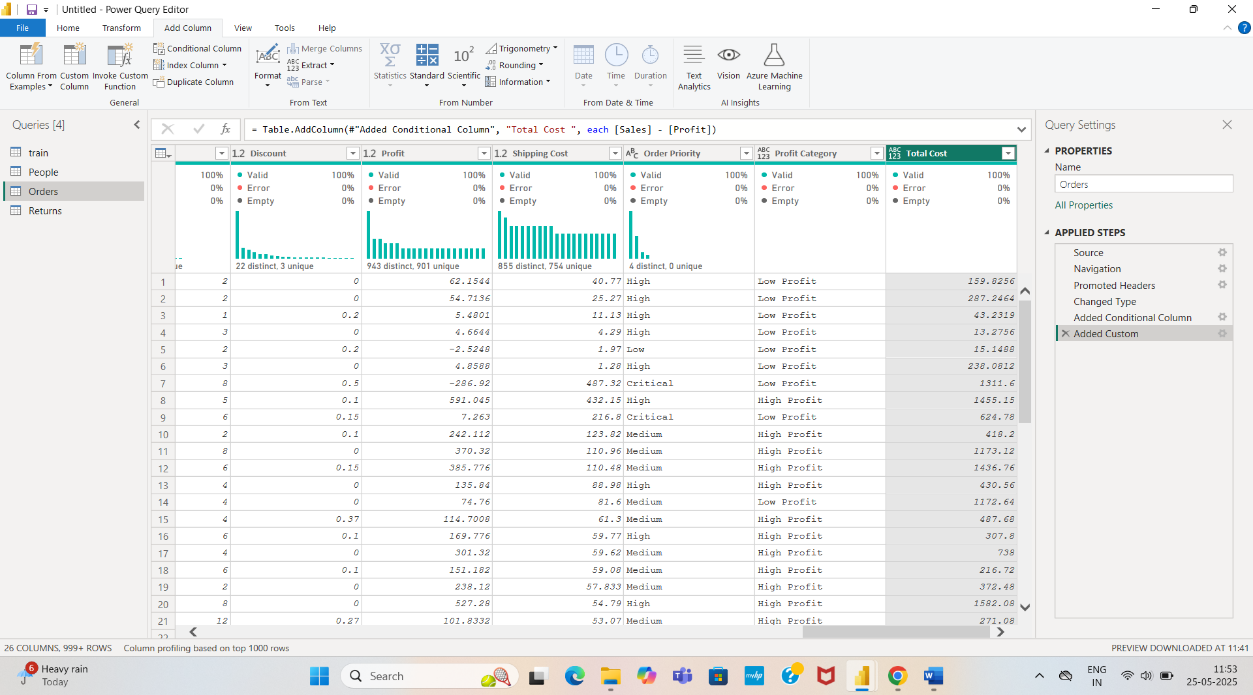
**Question: Add a new column named Profit Category with the following logic:**

* **If Profit is greater than 100, label it "High Profit."**
* **Otherwise, label it "Low Profit."**

****

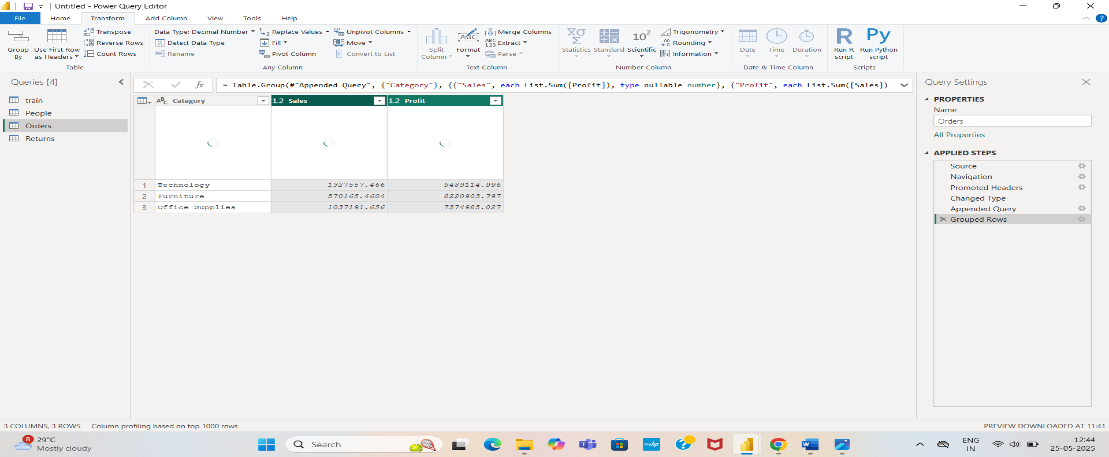
### **11. Calculate a New Column**

**Question: Create a new column called Total Cost, calculated as Sales minus Profit.**

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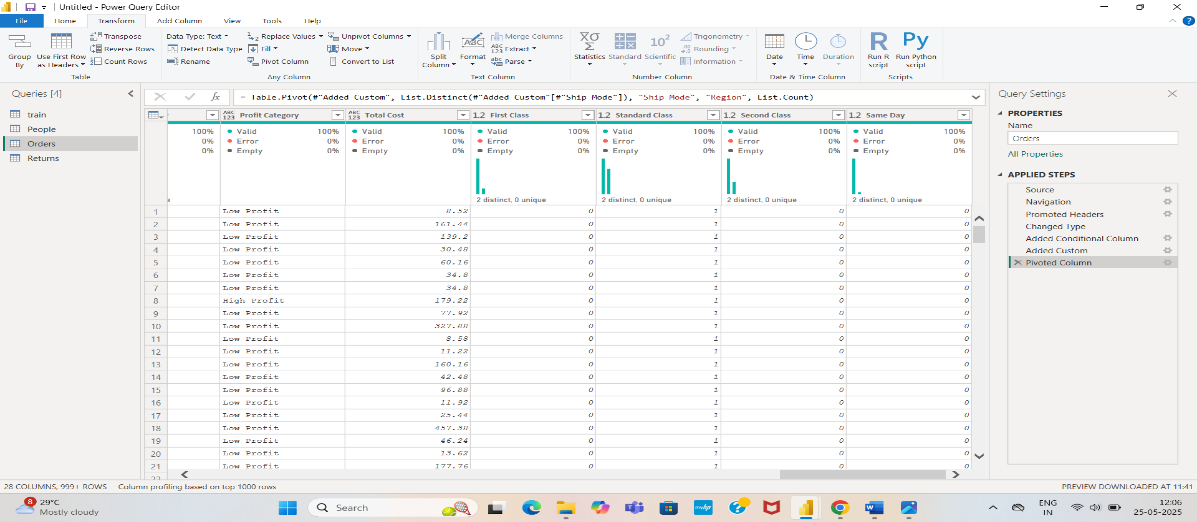
### **12. Group Data**

**Question: Group the data by Category and calculate the total Sales and Profit for each category.**

****

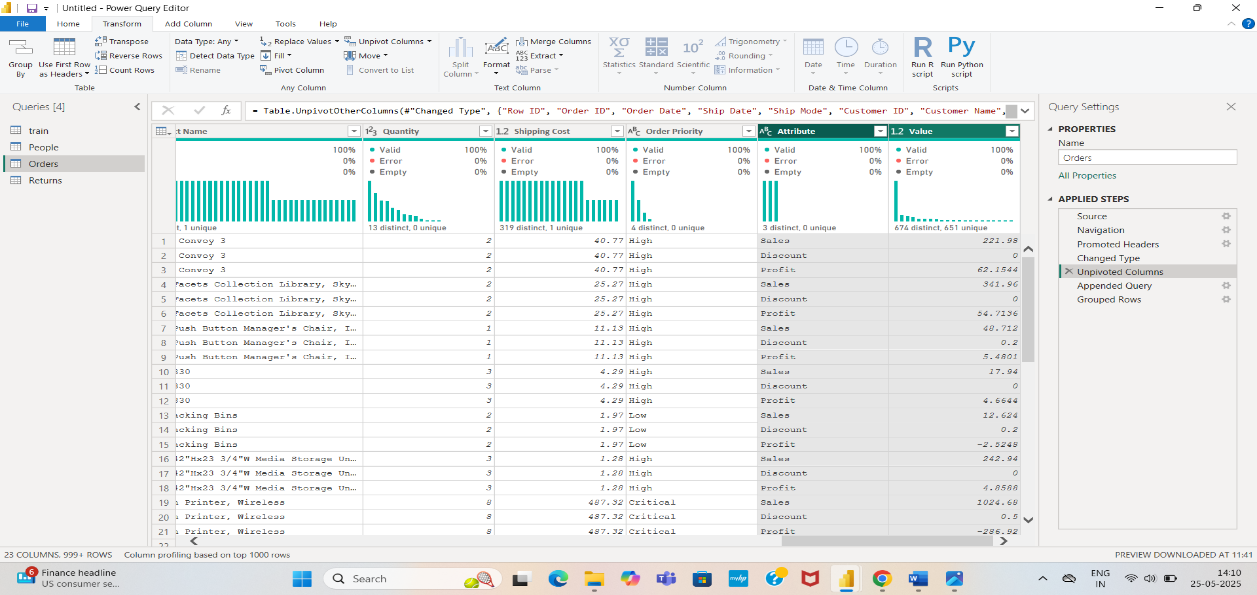
### **13. Pivot Columns**

**Question: Pivot the Ship Mode column to show the count of each shipping method for every Region.**

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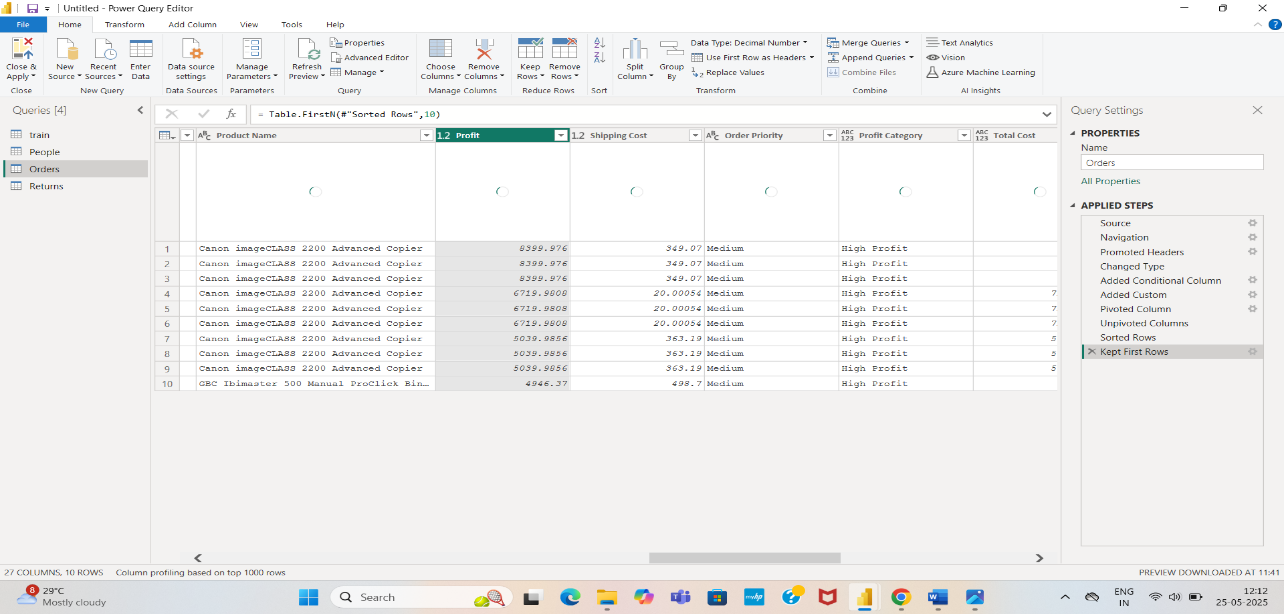
### **14. Unpivot Columns**

**Question: Unpivot the Sales, Profit, and Discount columns so that the data is in long format.**



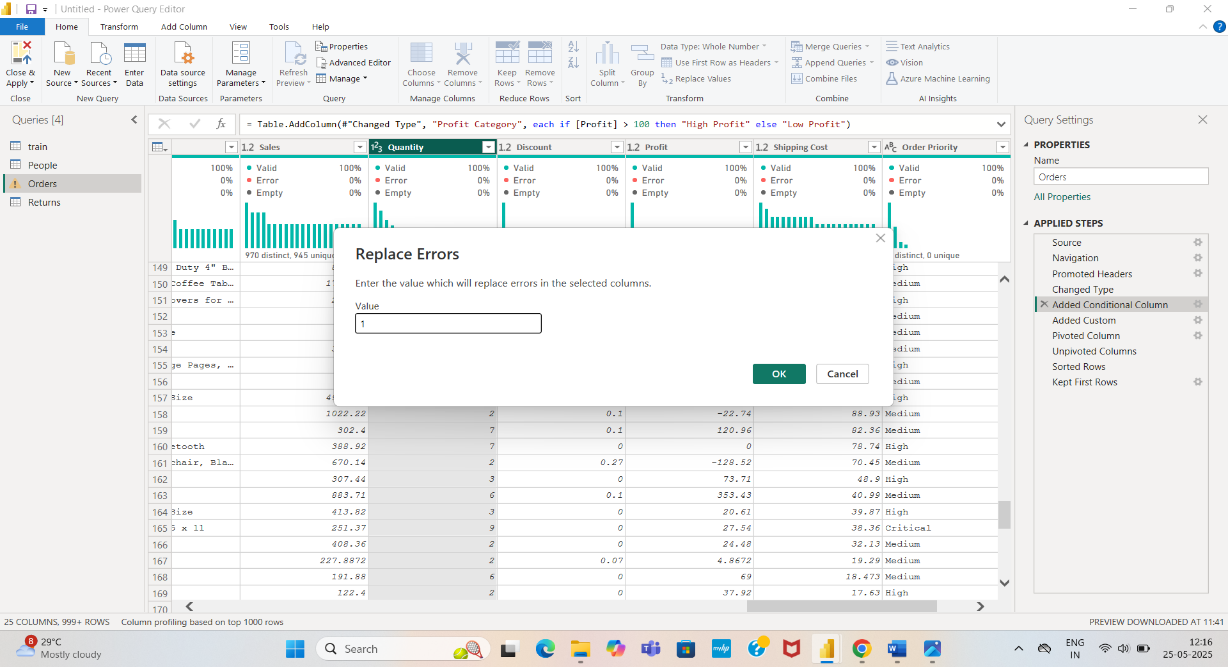
### **15. Filter Top N Rows**

**Question: Display the top 10 rows with the highest Profit.**

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### **16. Replace Errors**

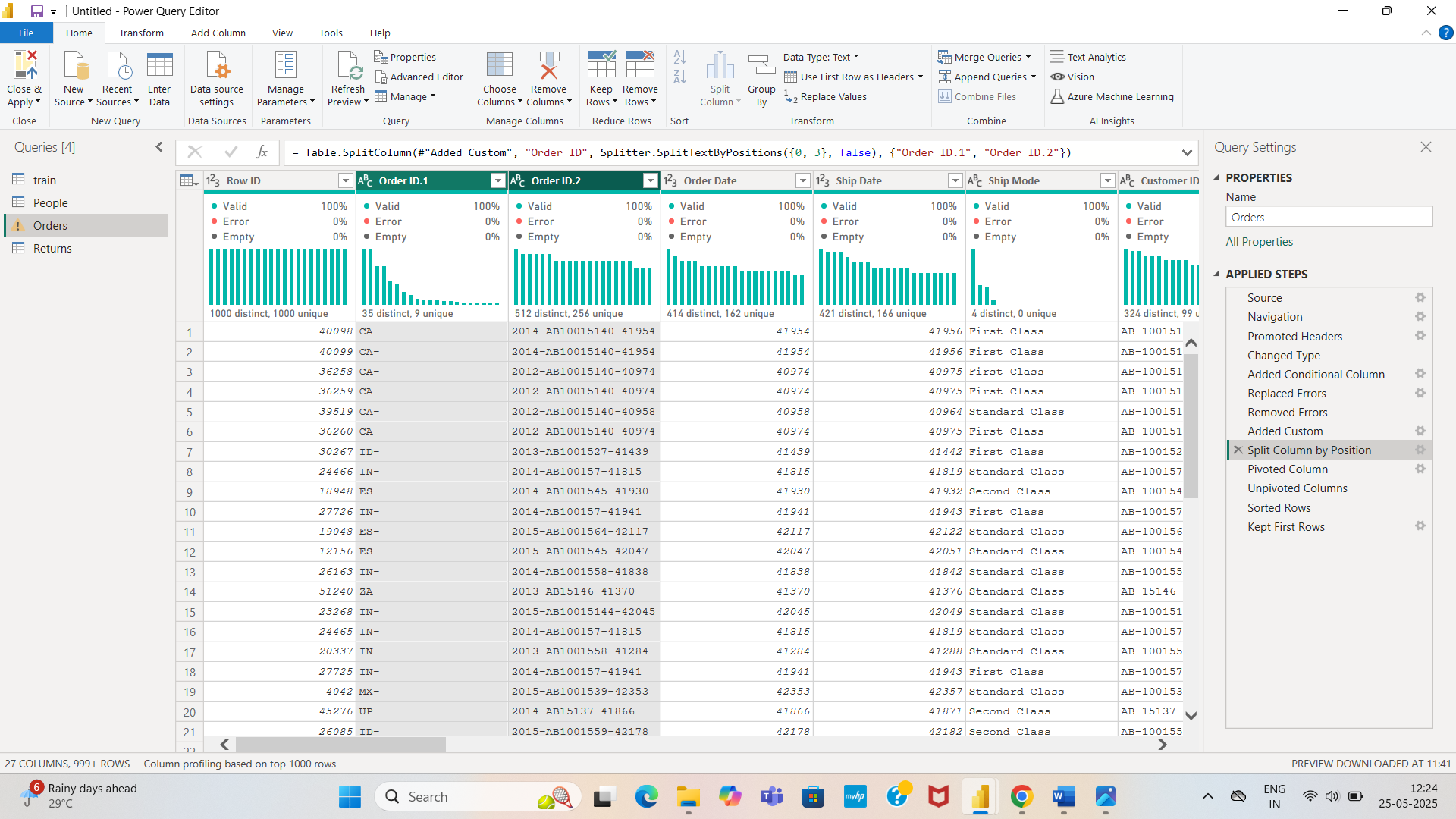
**Question: Identify any errors in the Quantity column and replace them with a default value of 1.**

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**17. Remove Null Values**

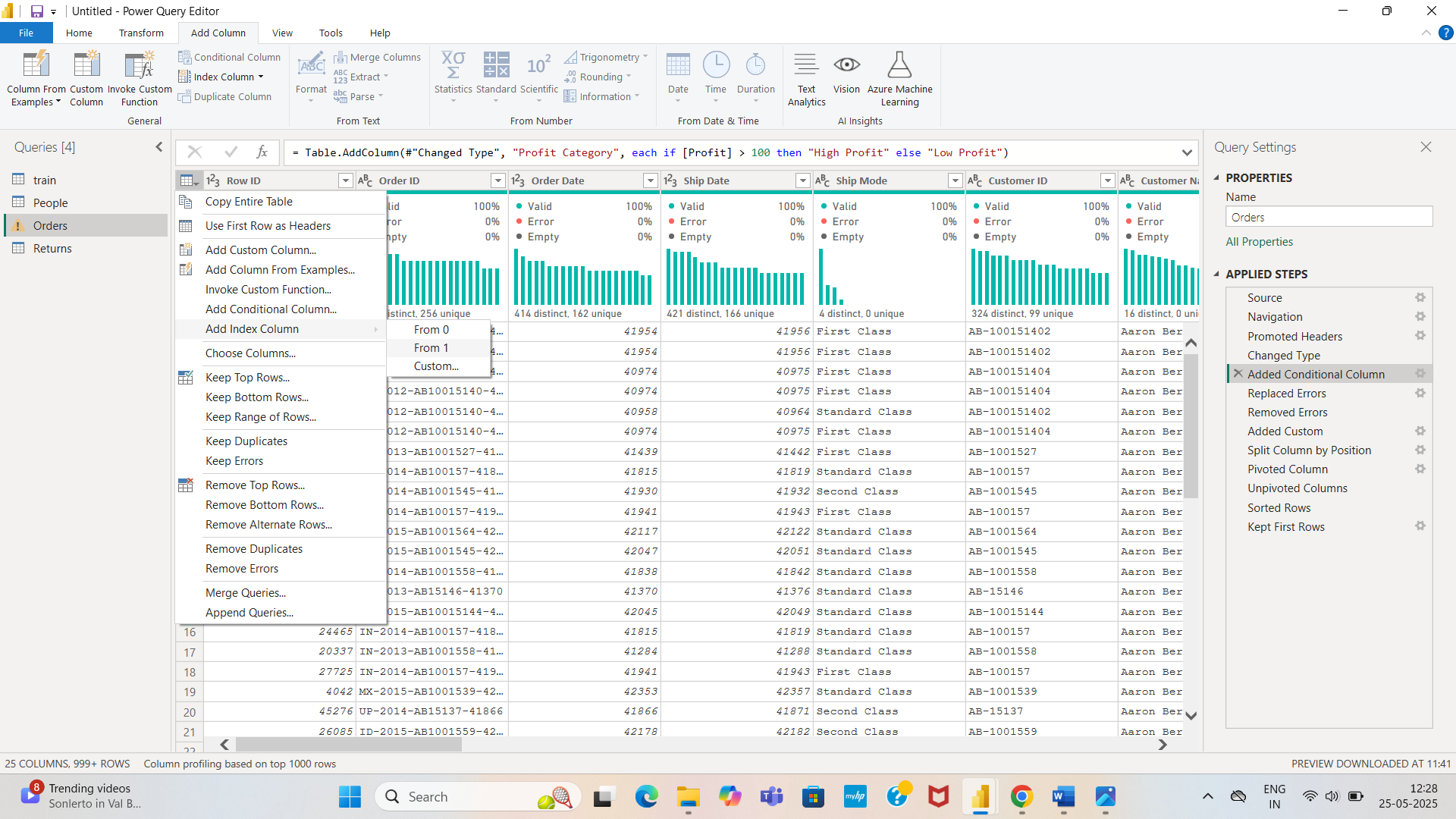
### **Question: Remove rows where the Customer Name or Product Name columns have null values**

### **18. Extract Text**

**Question: Extract the first three letters of the Order ID column into a new column**

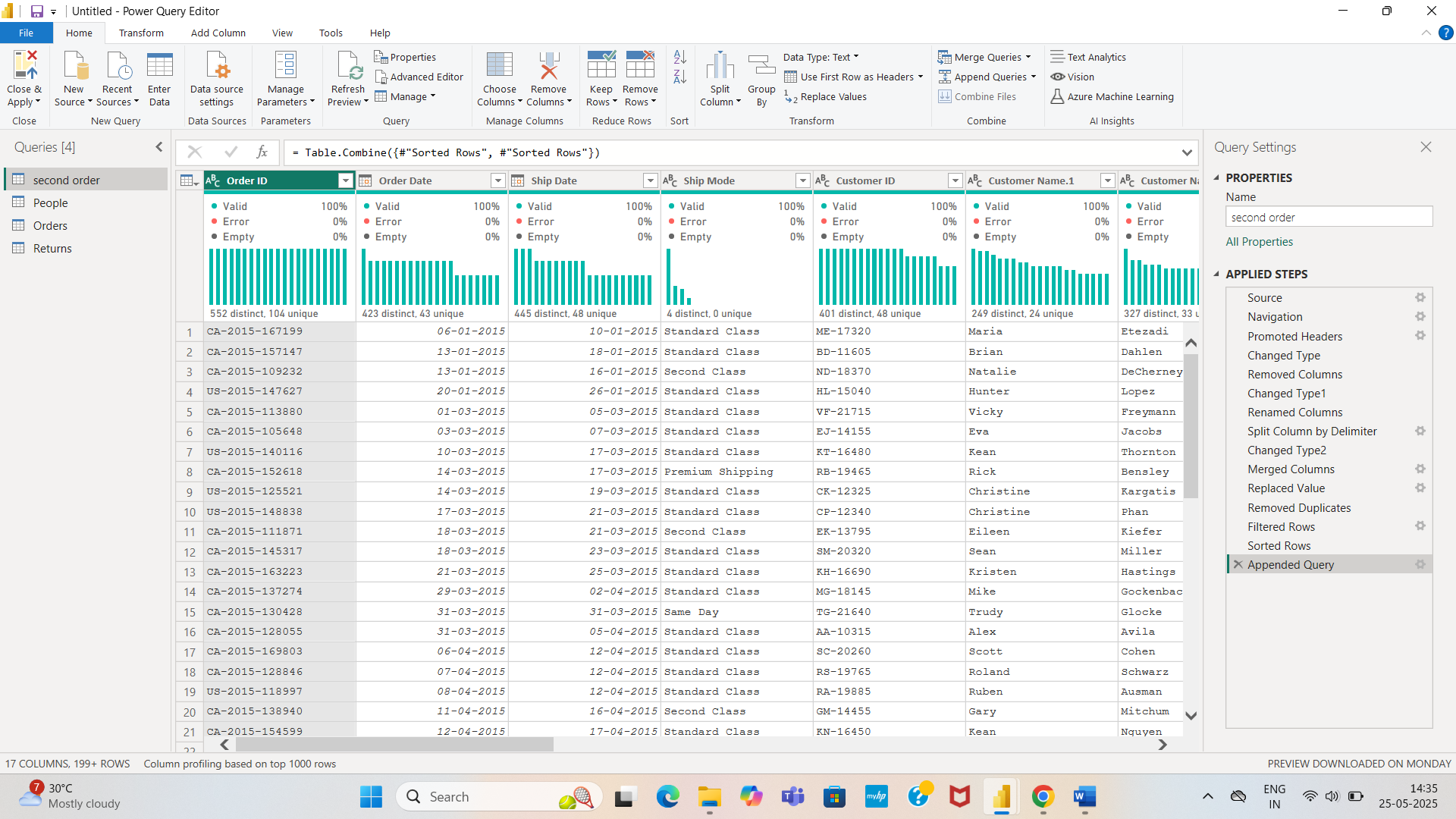
### **19. Add Index Column**

**Question: Add an index column starting from 1.**

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### **20. Append Queries**

**Question: Create a second table with the same structure and append it to the Orders table.**

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