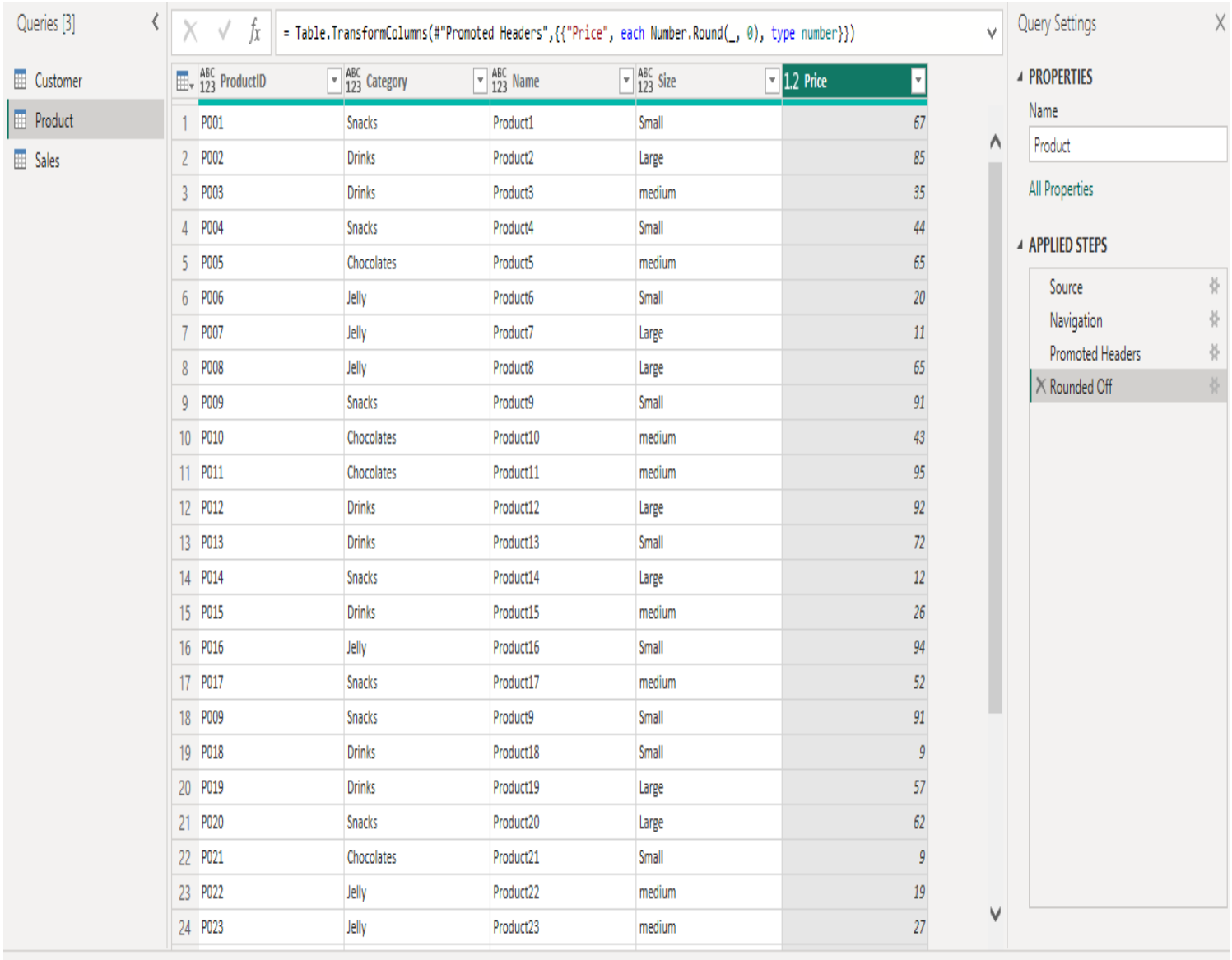
Task 1a- Round the 'Price' column in the Product dataset to the nearest integer for simplicity

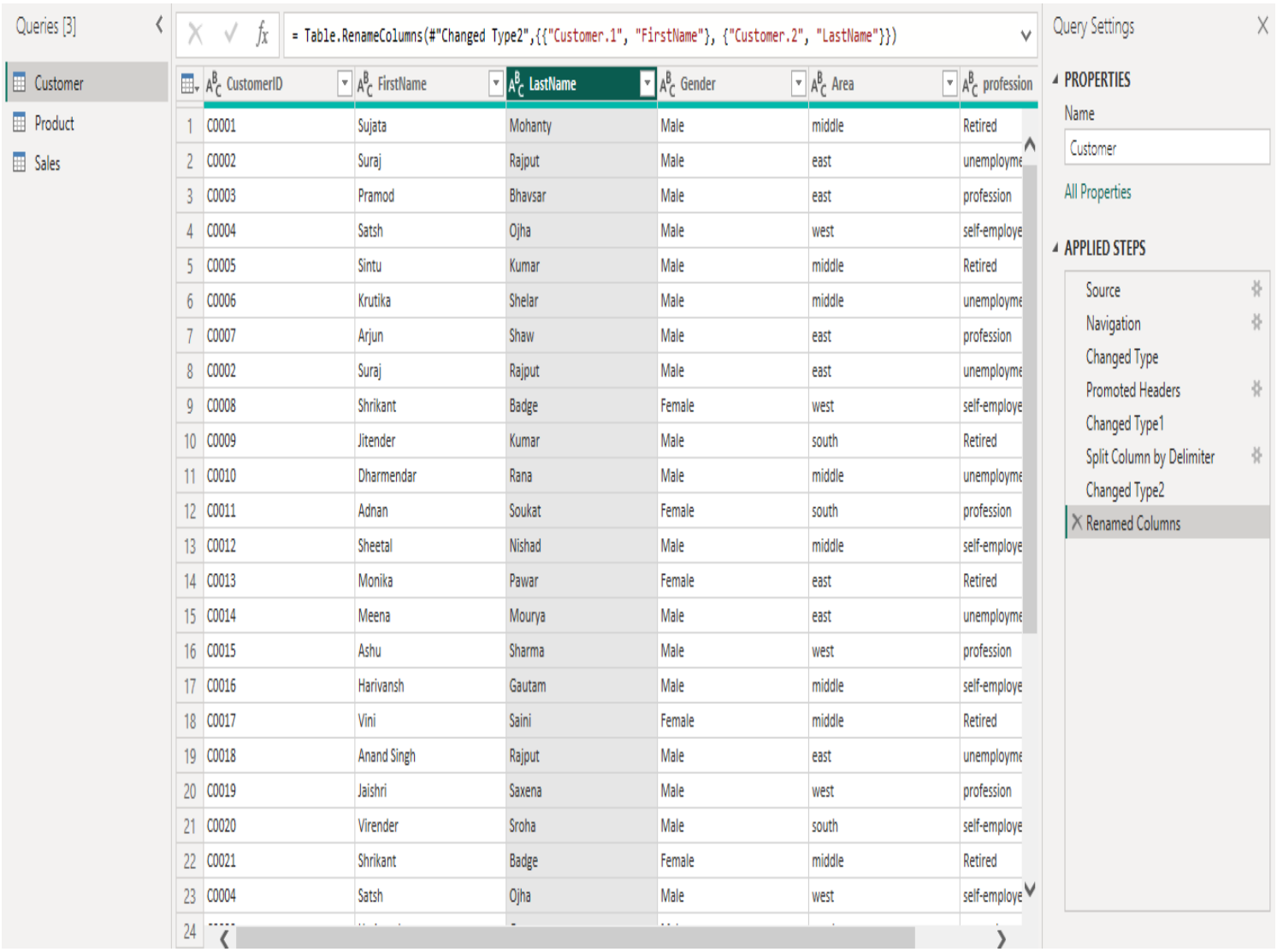


	ProductID	Category	Name	Size	Price
1	P001	Snacks	Product1	Small	67
2	P002	Drinks	Product2	Large	85
3	P003	Drinks	Product3	medium	35
4	P004	Snacks	Product4	Small	44
5	P005	Chocolates	Product5	medium	65
6	P006	Jelly	Product6	Small	20
7	P007	Jelly	Product7	Large	11
8	P008	Jelly	Product8	Large	65
9	P009	Snacks	Product9	Small	91
10	P010	Chocolates	Product10	medium	43
11	P011	Chocolates	Product11	medium	95
12	P012	Drinks	Product12	Large	92
13	P013	Drinks	Product13	Small	72
14	P014	Snacks	Product14	Large	12
15	P015	Drinks	Product15	medium	26
16	P016	Jelly	Product16	Small	94
17	P017	Snacks	Product17	medium	52
18	P009	Snacks	Product9	Small	91
19	P018	Drinks	Product18	Small	9
20	P019	Drinks	Product19	Large	57
21	P020	Snacks	Product20	Large	62
22	P021	Chocolates	Product21	Small	9
23	P022	Jelly	Product22	medium	19
24	P023	Jelly	Product23	medium	27

To Perform this task:

- Go to the Product table
- Select the Price column > Tansform > Rounding > Round > Then select “0” as decimal position
- This will change the price column to nearest integer.

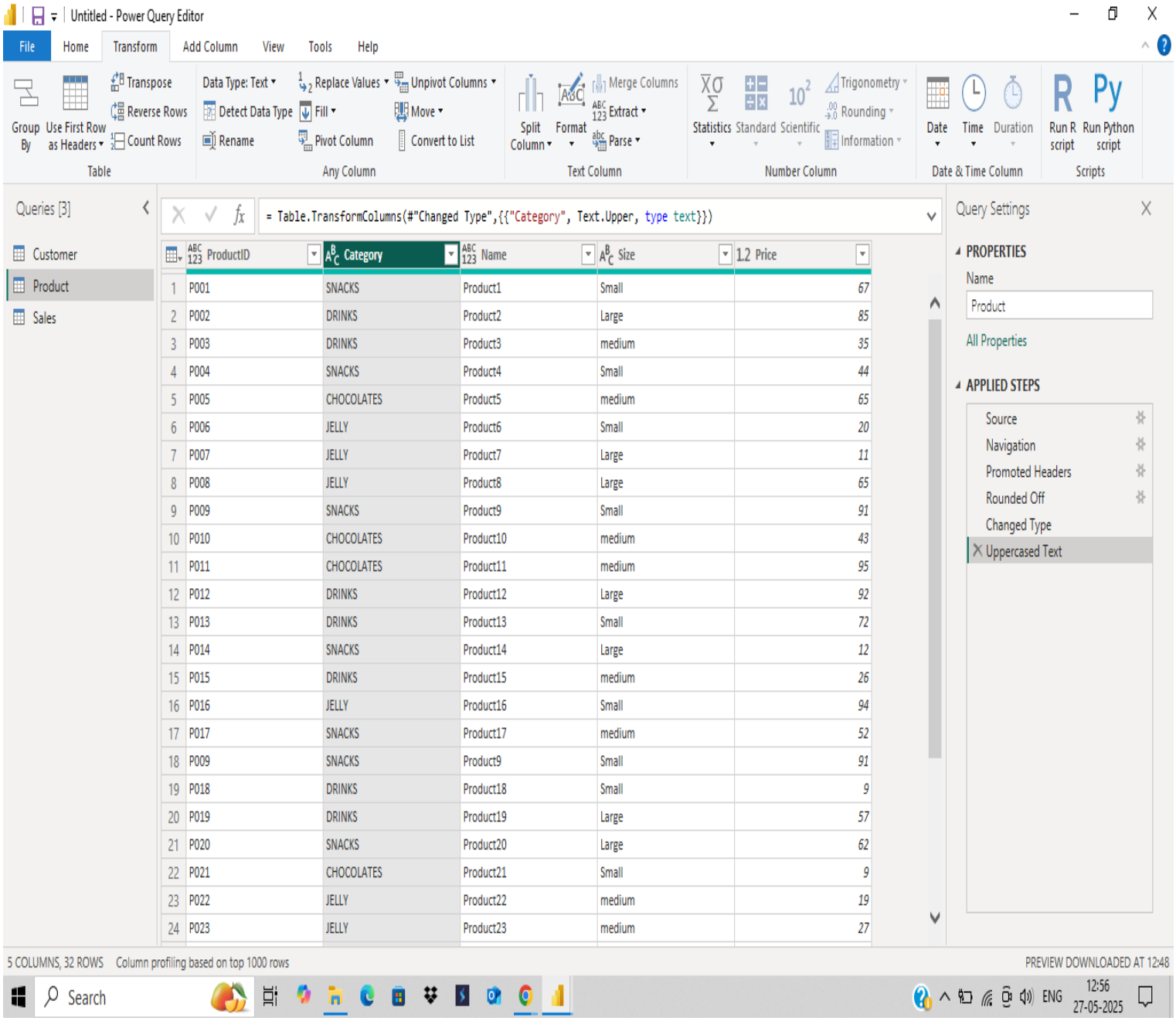
Task 1b- Split the 'Customer' column in the Customer table into two columns: 'FirstName' and 'LastName'.



To perform this task:

- First Go to customer table
- Select customer column
- Then under transform > Split Column > By Delimiter(by space) > Choose from Right Occurrence.
- Rename the columns as “FirstName” and “LastName”.

Task 2a- Convert all entries in the 'Category' column in the Product table to uppercase



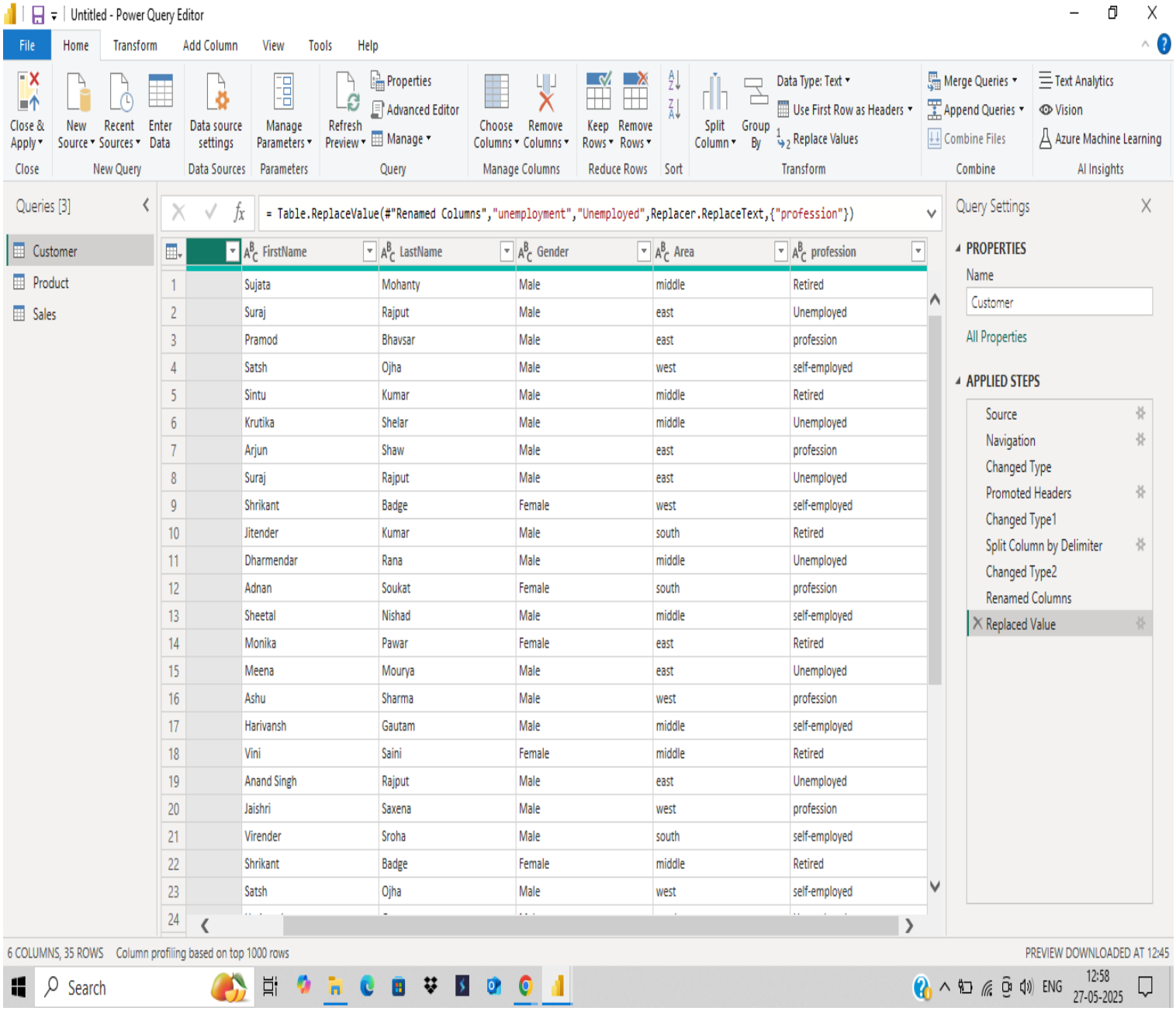
	ProductID	Category	Name	Size	Price
1	P001	SNACKS	Product1	Small	67
2	P002	DRINKS	Product2	Large	85
3	P003	DRINKS	Product3	medium	35
4	P004	SNACKS	Product4	Small	44
5	P005	CHOCOLATES	Product5	medium	65
6	P006	JELLY	Product6	Small	20
7	P007	JELLY	Product7	Large	11
8	P008	JELLY	Product8	Large	65
9	P009	SNACKS	Product9	Small	91
10	P010	CHOCOLATES	Product10	medium	43
11	P011	CHOCOLATES	Product11	medium	95
12	P012	DRINKS	Product12	Large	92
13	P013	DRINKS	Product13	Small	72
14	P014	SNACKS	Product14	Large	12
15	P015	DRINKS	Product15	medium	26
16	P016	JELLY	Product16	Small	94
17	P017	SNACKS	Product17	medium	52
18	P009	SNACKS	Product9	Small	91
19	P018	DRINKS	Product18	Small	9
20	P019	DRINKS	Product19	Large	57
21	P020	SNACKS	Product20	Large	62
22	P021	CHOCOLATES	Product21	Small	9
23	P022	JELLY	Product22	medium	19
24	P023	JELLY	Product23	medium	27

To Perform this task:

- First select the Product table
- Then select the category column
- Then under Transform > Format > UPPERCASE.

This will change the category to uppercase.

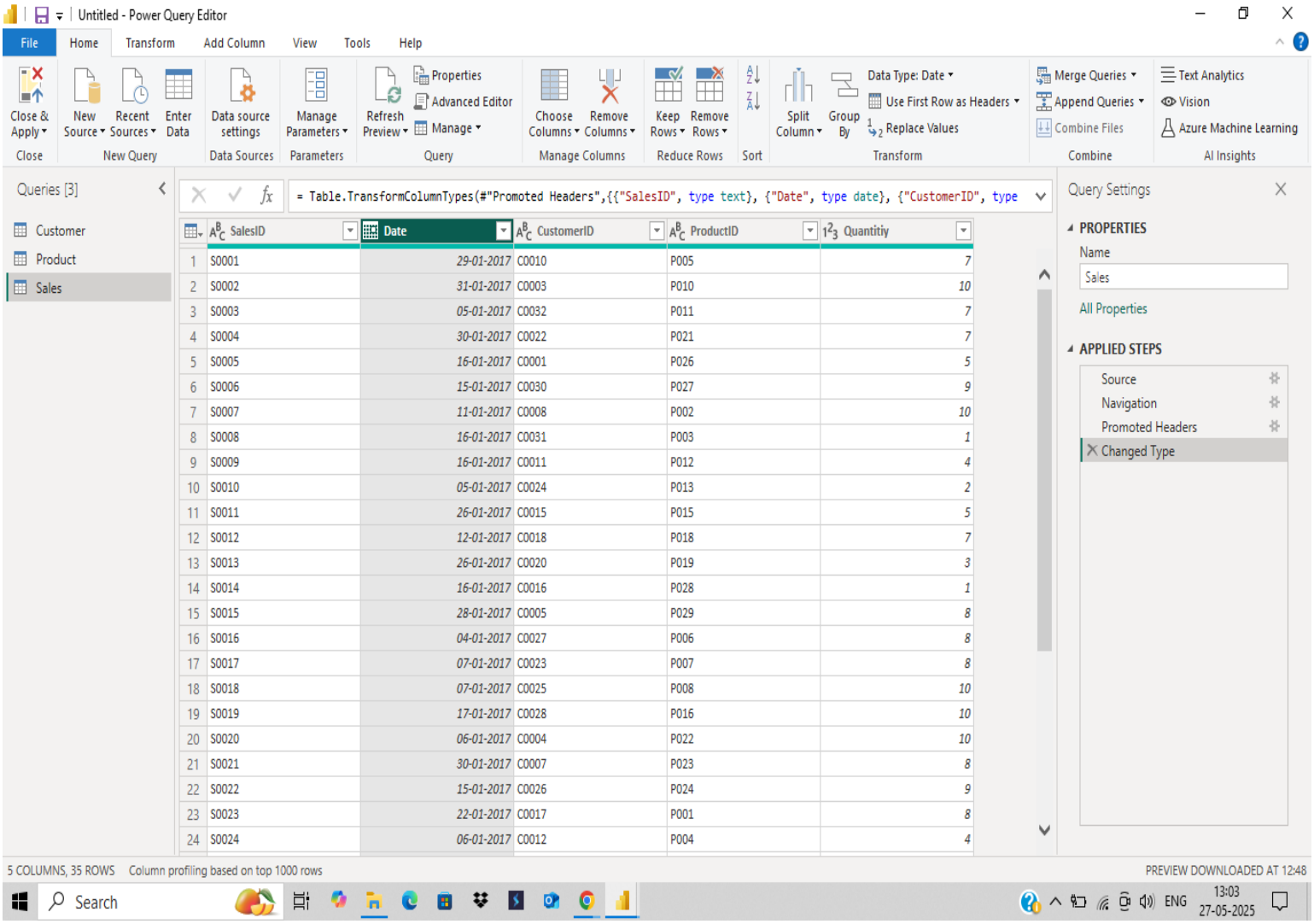
Task 2b- Replace all occurrences of 'unemployment' with 'Unemployed' in the 'Profession' column of the Customer table.



To perform this task:

- First go to customer table
- Select profession column
- Then select Transform > Replace Values
- Then in dialog box there will be two section Find and Replace with
- Find – unemployment, Replace with – Unemployed

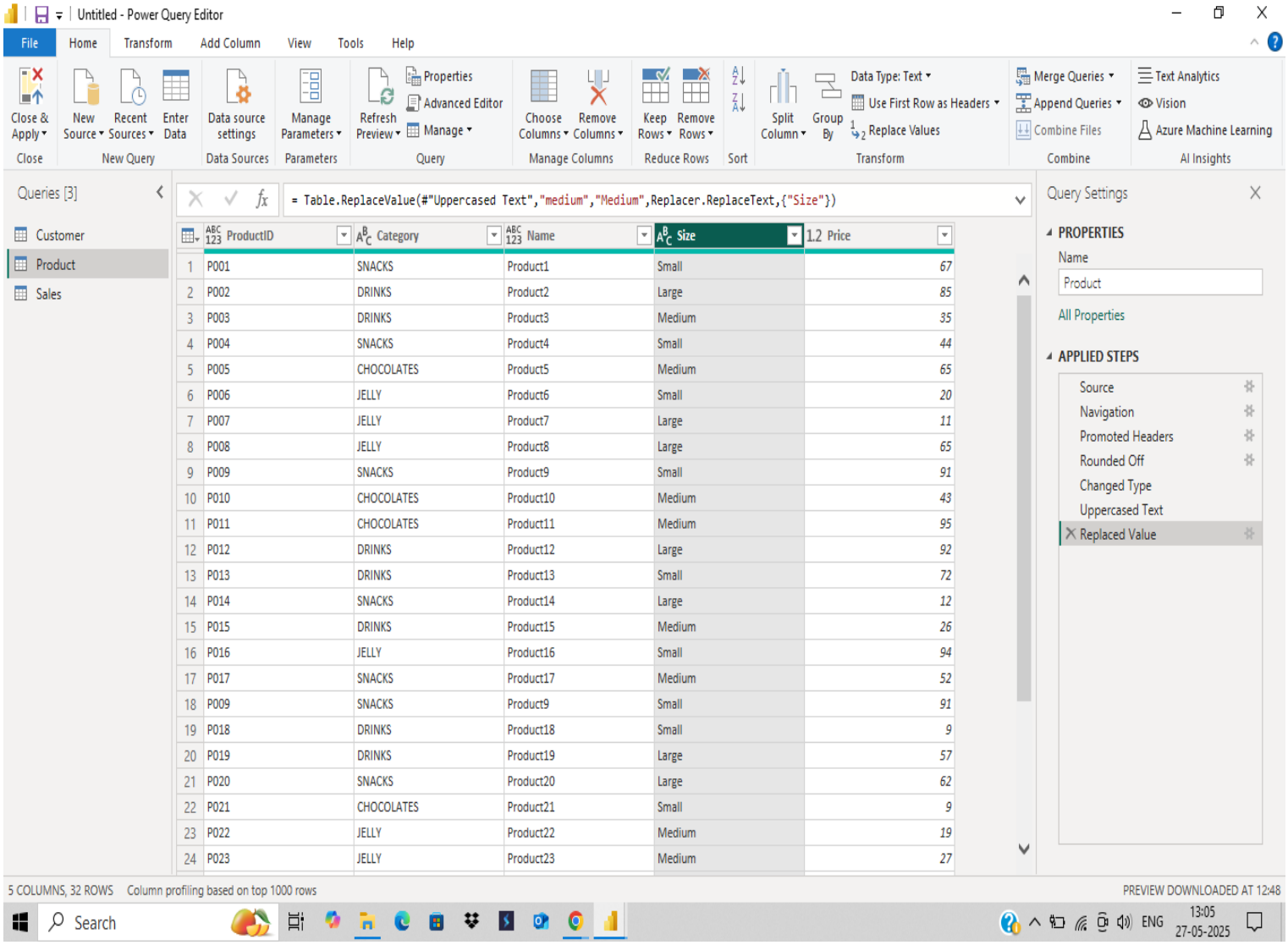
Task 3a-Ensure all columns in the datasets have appropriate data types, e.g., 'Date' column as Date type, 'Price' as Decimal type.



To perform this task:

- First go to sales column
- Then select date column
- Then left of column name is the data type icon
- Select date type from that icon
- It will change date type to date.

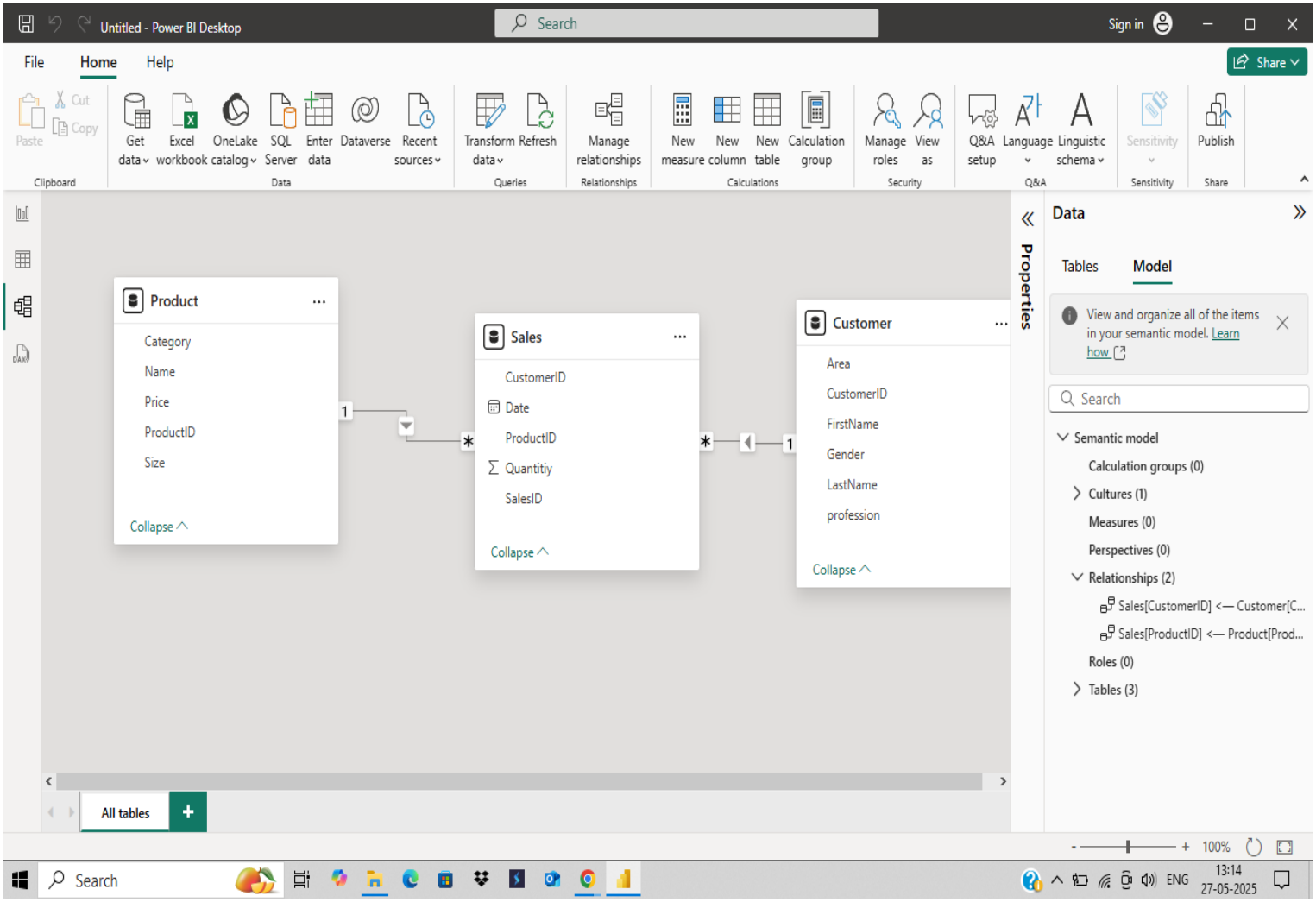
Task 3b-Identify and replace any inconsistent values in the 'Size' column of the Product dataset to ensure uniformity (e.g., replace "medium" with "Medium").



To Perform this task:

- Go to the product table
- Select size column
- Then Transform > Replace Values
- Then in find-“medium” and in replace – “Medium”

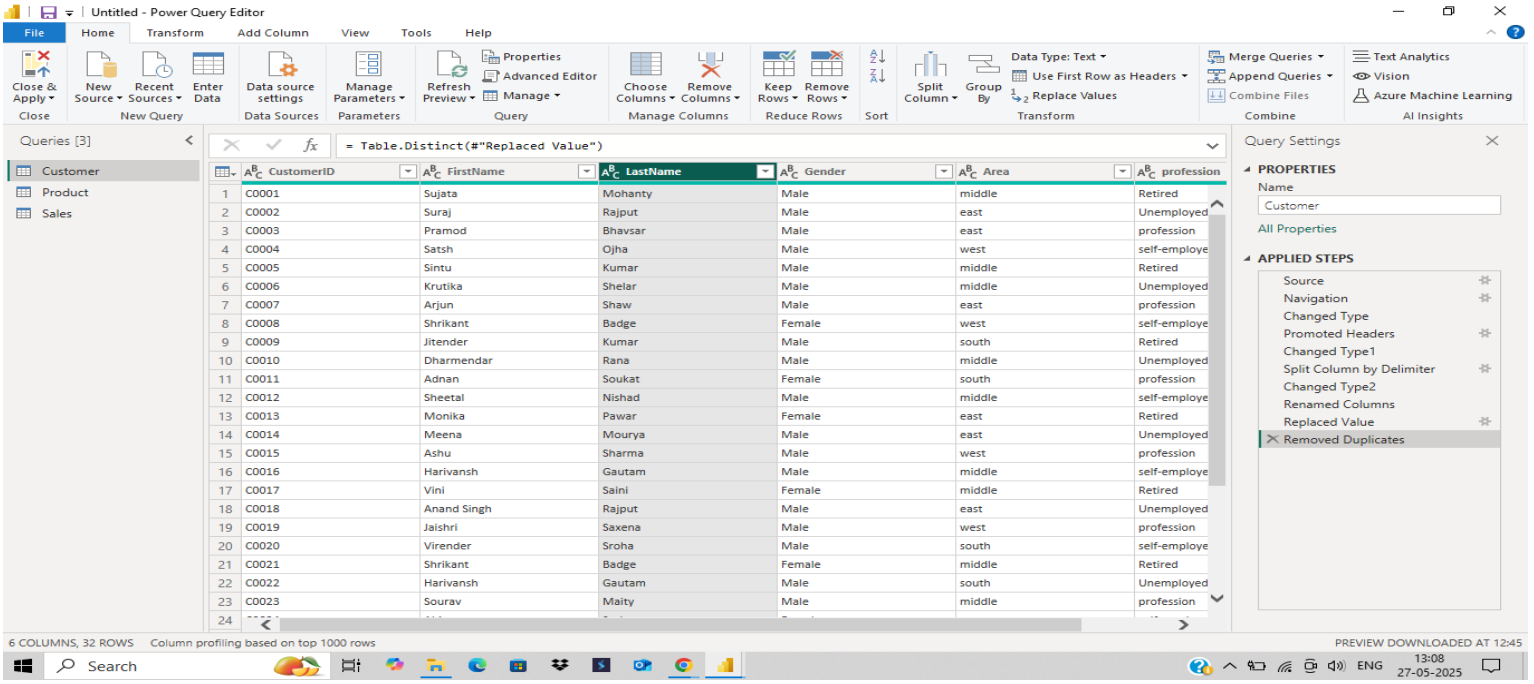
Task 4a-Create relationships between the tables using 'CustomerID' and 'ProductID' as keys



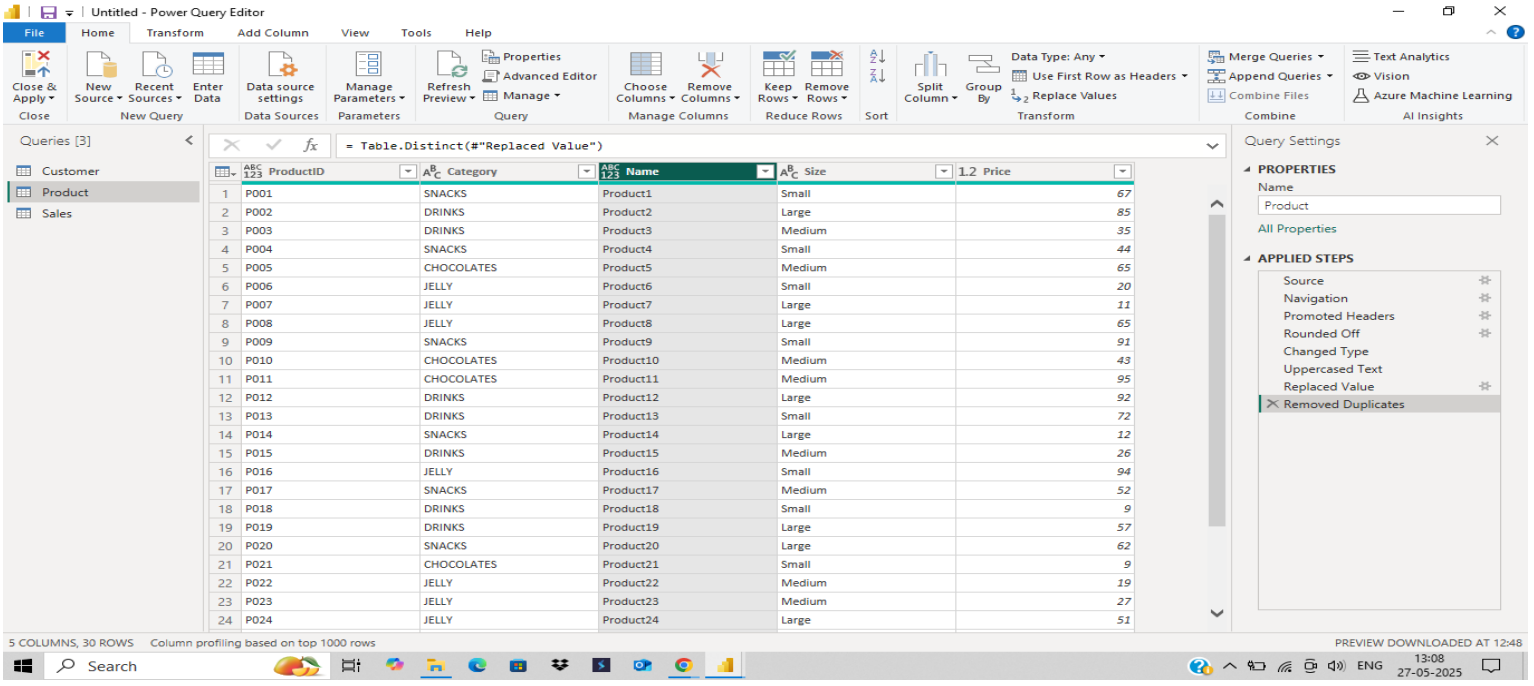
To Perform this task:

- First load the data to Power BI model view
- Then drag CustomerID from customer table to CustomerID to sales table
- Then drag ProductID from product table to ProductID to sales table
- And then make connection that is one to many and then click save.

Task 4b- Clean the data by removing any duplicate entries in the Customer and Product tables.



	CustomerID	FirstName	LastName	Gender	Area	profession
1	C0001	Sujata	Mohanty	Male	middle	Retired
2	C0002	Suraj	Rajput	Male	east	Unemployed
3	C0003	Pramod	Bhavsar	Male	east	profession
4	C0004	Satsh	Ojha	Male	west	self-employe
5	C0005	Sintu	Kumar	Male	middle	Retired
6	C0006	Krutika	Shelar	Male	middle	Unemployed
7	C0007	Arjun	Shaw	Male	east	profession
8	C0008	Shrikant	Badge	Female	west	self-employe
9	C0009	Jitender	Kumar	Male	south	Retired
10	C0010	Dharmendar	Rana	Male	middle	Unemployed
11	C0011	Adnan	Soukat	Female	south	profession
12	C0012	Sheetal	Nishad	Male	middle	self-employe
13	C0013	Monika	Pawar	Female	east	Retired
14	C0014	Meena	Mourya	Male	east	Unemployed
15	C0015	Ashu	Sharma	Male	west	profession
16	C0016	Harivansh	Gautam	Male	middle	self-employe
17	C0017	Vini	Saini	Female	middle	Retired
18	C0018	Anand Singh	Rajput	Male	east	Unemployed
19	C0019	Jaishri	Saxena	Male	west	profession
20	C0020	Virender	Sroha	Male	south	self-employe
21	C0021	Shrikant	Badge	Female	middle	Retired
22	C0022	Harivansh	Gautam	Male	south	Unemployed
23	C0023	Sourav	Maity	Male	middle	profession



	ProductID	Category	Name	Size	Price
1	P001	SNACKS	Product1	Small	67
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9	P009	SNACKS	Product9	Small	91
10	P010	CHOCOLATES	Product10	Medium	43
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12	P012	DRINKS	Product12	Large	92
13	P013	DRINKS	Product13	Small	72
14	P014	SNACKS	Product14	Large	12
15	P015	DRINKS	Product15	Medium	26
16	P016	JELLY	Product16	Small	94
17	P017	SNACKS	Product17	Medium	52
18	P018	DRINKS	Product18	Small	9
19	P019	DRINKS	Product19	Large	57
20	P020	SNACKS	Product20	Large	62
21	P021	CHOCOLATES	Product21	Small	9
22	P022	JELLY	Product22	Medium	19
23	P023	JELLY	Product23	Medium	27
24	P024	JELLY	Product24	Large	51

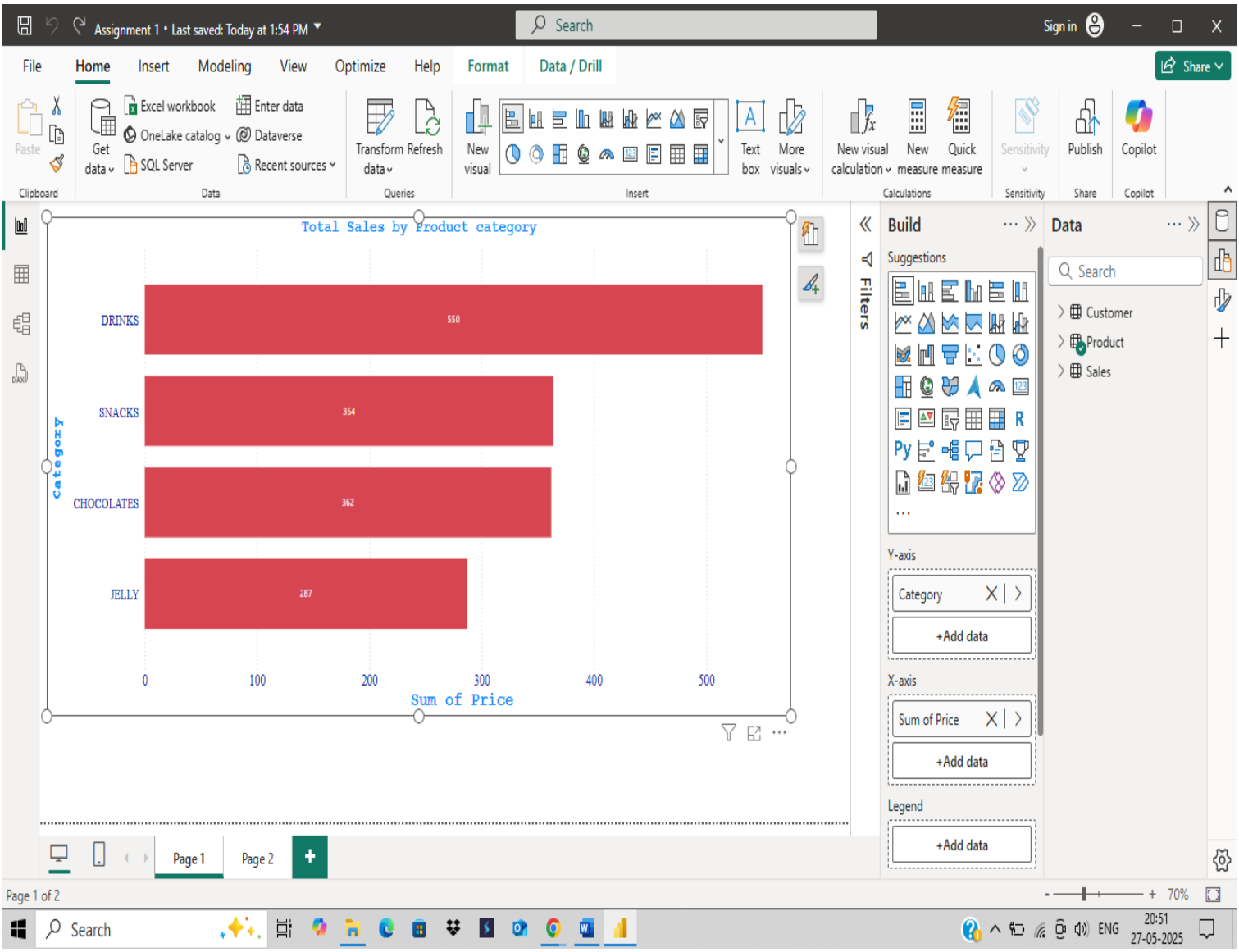
To perform this task:

- Open Power Query Editor
- Then select customer table > Select all columns > Remove Rows > Remove Duplicates
- Then select product table > Select all columns > Remove Rows > Remove Duplicates

Task 5a- Sales by Category:

Create a chart showing total sales (TotalPrice) by product category.

Customize colors, refine the title, and add data labels for exact sales amounts.



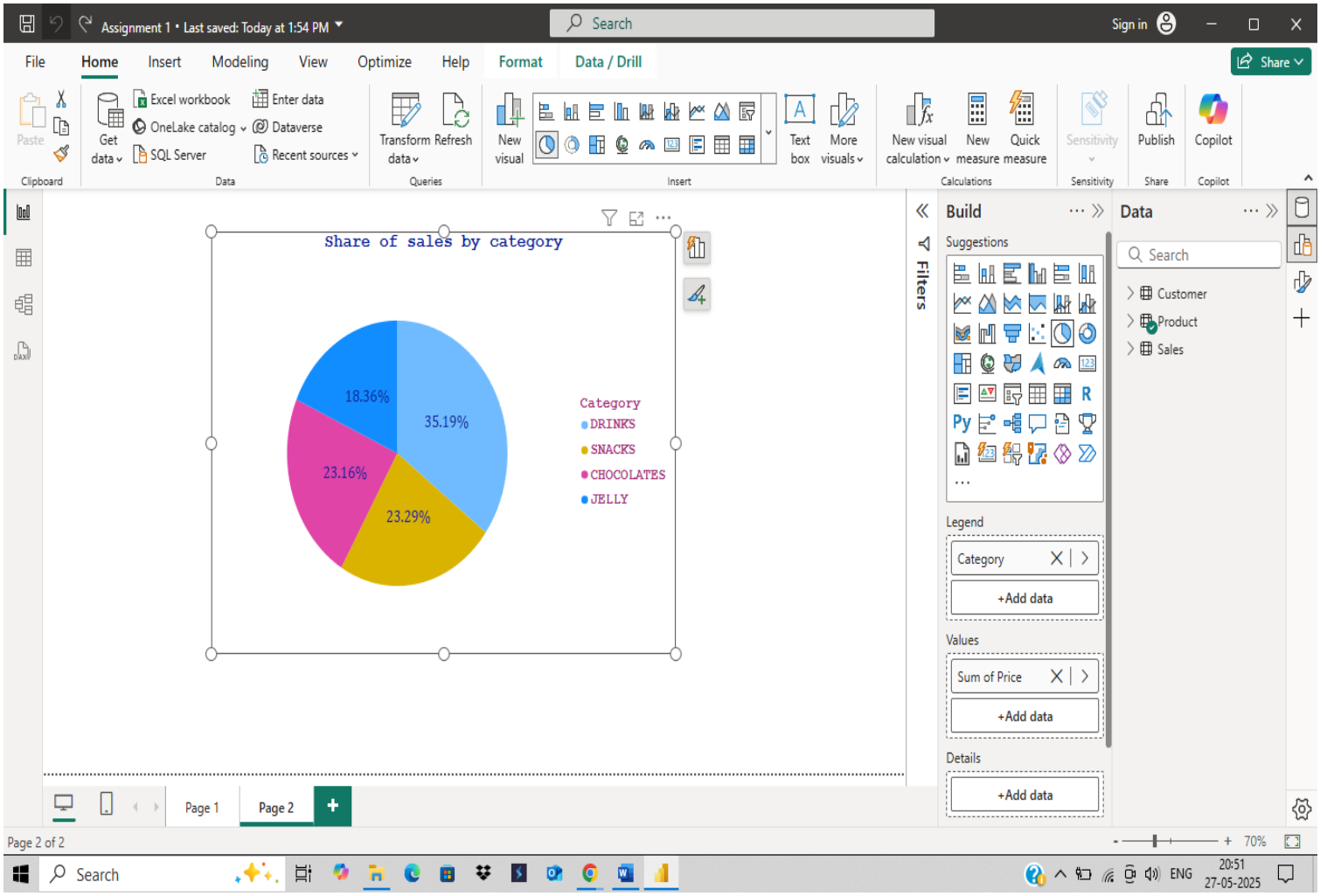
To Perform this task:

- First Load the data
- Then select a visual- Stacked Bar Chart
- In Y-axis put category column
- In X-axis put price column as sum of price
- Then customize the visual by changing the title
- Add data labels and customize to center
- Change the colours etc.

Task 5b-Sales Percentage by Category:

Create a chart showing the percentage share of sales (Price) for each product category.

Keep the chart compact and easy to understand.



To perform this task:

- Select a perfect visual which is Pie chart
- In fields, Legend – Category column
- In values- Price and change it to sum of price
- Add percentage data labels
- Change the title “share of sales by category”