

TASK 1

- Round the 'Price' column in the Product dataset to the nearest integer for simplicity.

STEPS:

1. Going to Transform Data > Power Query Editor.
 2. Selecting the Product table.
 3. Selecting the Price column → Right-click → Round → Round to nearest.
- Splitting the 'Customer' column in the Customer table into two columns: 'FirstName' and 'LastName'.

STEPS:

1. Going to the Customer table.
2. Selecting the Customer column.
3. Going to the top ribbon → Split Column → By Delimiter.
4. Choosing Space as the delimiter → click OK.
5. Renaming new columns as FirstName and LastName.

123 Price
67
85
35
44
65
20
11
65
91
43
95
92
72
12
26
94
52
91

Output 1.1

ABC First name	ABC Last name
Sujata	Mohanty
Suraj	Rajput
Pramod	Bhavsar
Satsh	Ojha
Sintu	Kumar
Krutika	Shelar
Arjun	Shaw
Suraj	Rajput
Shrikant	Badge
Jitender	Kumar
Dharmendar	Rana
Adnan	Soukat
Sheetal	Nishad
Monika	Pawar
Meena	Mourya
Ashu	Sharma
Harivansh	Gautam
Vini	Saini

Output 1.2

TASK 2

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

STEPS:

- I. Go to Product table in Power Query.
- II. Select the Category column.
- III. Use Transform → Format → UPPERCASE.

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

STEPS:

- I. Go to Customer table.
- II. Select Profession column.
- III. Use Transform → Replace Values.
- IV. Replace unemployment with Unemployed.

ABC Category
SNACKS
DRINKS
DRINKS
SNACKS
CHOCOLATES
JELLY
JELLY
JELLY
SNACKS
CHOCOLATES
CHOCOLATES
DRINKS
DRINKS
SNACKS
DRINKS
JELLY
SNACKS
SNACKS

Output 2.1

ABC profession
Retired
Unemployed
profession
self-employed
Retired
Unemployed
profession
Unemployed
self-employed
Retired
Unemployed
profession
self-employed
Retired
Unemployed
profession
self-employed
Retired

Output 2.2

TASK 3

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

STEPS:

I. Price → Decimal Number

II. Date in Sales → Date

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

STEPS:

I. Go to Product table.

II. In Size column, look for lowercase variants like "medium".

III. Use Replace Values:

IV. Replace "medium" → "Medium"

\$ Price
67.00
85.00
35.00
44.00
65.00
20.00
11.00
65.00
91.00
43.00
95.00
92.00
72.00
12.00
26.00
94.00
52.00
91.00

Output 3.1.1

Date
29-01-2017
31-01-2017
05-01-2017
30-01-2017
16-01-2017
15-01-2017
11-01-2017
16-01-2017
16-01-2017
05-01-2017
26-01-2017
12-01-2017
26-01-2017
16-01-2017
28-01-2017
04-01-2017
07-01-2017
07-01-2017

Output 3.1.2

AB_C Size
Small
Large
Medium
Small
Medium
Small
Large
Large
Small
Medium
Medium
Large
Small
Large
Medium
Small
Small
Large
Large
Small
Medium
Medium

Output 3.2

TASK 4

- Create relationships between the tables using 'CustomerID' and 'ProductID' as keys.

STEPS:

- I. Go back to Power BI main view.

- II. Go to Model View.

- ### III. Drag CustomerID from Sales to Customer, and ProductID from Sales to Product.

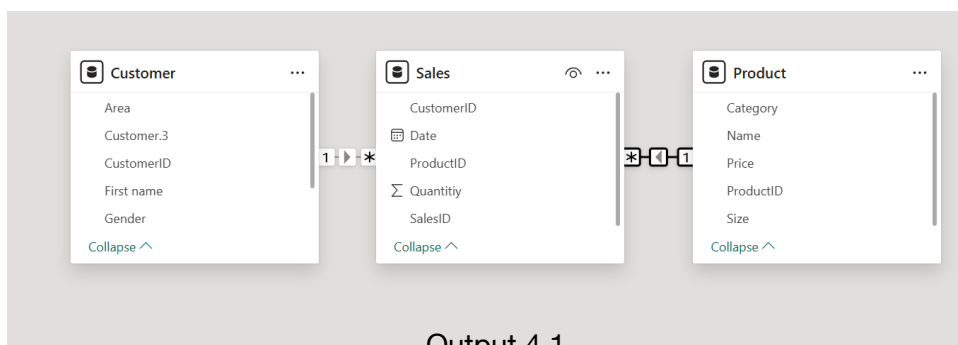
- Clean the data by removing any duplicate entries in the Customer and Product tables.

STEPS:

- I. In Power Query, select the Customer table.

- II. Use Remove Duplicates on all columns or CustomerID.

- ### III. Do the same for Product table.



Output 4.1

[illegible]

Output 4.2.1

Source	⚙
Navigation	⚙
Changed Type	
Promoted Headers	⚙
Changed Type1	
Split Column by Delimiter	⚙
Changed Type2	
Renamed Columns	
Replaced Value	⚙
Removed Duplicates	
✕ Removed Duplicates1	

Output 4.2.2

TASK 5

1) 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.

STEPS:

I. In Report view, add Chart.

II. Axis → Category from Product table.

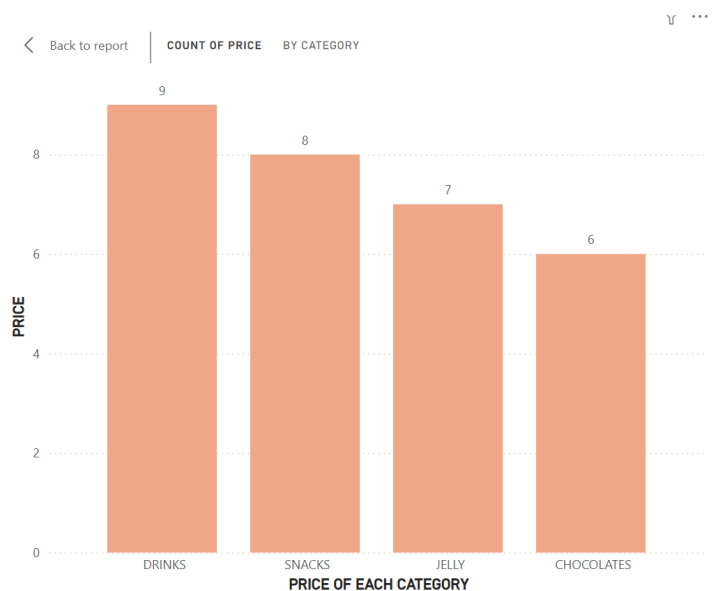
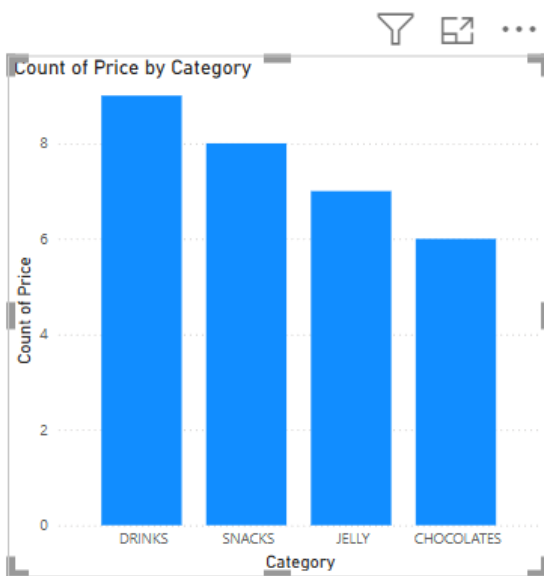
III. Values → Price from Sales.

IV. Customize:

A. Use Data Labels

B. Change colors using Format

C. Add title.



2) 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.

STEPS:

1. Add Donut Chart or Pie Chart.
2. Legend → Category
3. Values → Price
4. Go to Format Pane → turn on Data Labels → show percentage.

