

Assignment 1

Data: [Sales Data](#)

You have three tables: Customer, Product, and Sales.

Task 1:

- Round the 'Price' column in the Product dataset to the nearest integer for simplicity.
- Split the 'Customer' column in the Customer table into two columns: 'FirstName' and 'LastName'.

Task 2:

- Convert all entries in the 'Category' column in the Product table to uppercase.
- Replace all occurrences of 'unemployment' with 'Unemployed' in the 'Profession' column of the Customer table.

Task 3 :

- Ensure all columns in the datasets have appropriate data types, e.g., 'Date' column as Date type, 'Price' as Decimal type.
- Identify and replace any inconsistent values in the 'Size' column of the Product dataset to ensure uniformity (e.g., replace "medium" with "Medium").

Task 4:

- Create relationships between the tables using 'CustomerID' and 'ProductID' as keys.
- Clean the data by removing any duplicate entries in the Customer and Product tables.

Task 5:

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.

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.

Submission Instructions:

- Submit a Word file consisting of a screenshot for each task, write the steps taken for each task and then save that word file as a PDF.

- Create a zip file of the PDF and then submit.