***Build a Data Aggregation and Reporting Script***

**Objective:**

*Create a python script that performs data aggregation and generates a summary report. This task will help you practice working with grouped data and generating meaningful insights, which are crucial for data engineering roles.*

**Dataset:**

*You will use csv file named as sales\_data.csv with the following columns:*

* ***TransactionID:*** *Unique identifier for each transaction.*
* ***CustomerID:*** *Unique identifier for each customer.*
* ***ProductID:*** *Unique identifier for each product.*
* ***Quantity:*** *Number of units sold.*
* ***Price:*** *Price per unit.*
* ***TransactionDate:*** *Date of the transaction.*

**Tasks to Perform:**

1. *Read the CSV file: Load the dataset into Pandas DataFrame.*
2. *Data Aggregation:*
   * 1. *Calculate total sales amount for each product.*
     2. *Calculate the total quantity sold for each product.*
     3. *Calculate the average transaction amount per customer.*
3. *Generation a Summary Report:*
   * 1. *Total sales amount and quantity sold for each product.*
     2. *Average transaction amount per customer.*
4. *Save the summary report to a new CSV file named as product\_summary\_report.csv and customer\_summary\_report.csv.*
5. *Bonus Task (If you have time):*
   * 1. *Create visualizations to represent the sales distribution per product and average transaction amount per customer. You can use libraries like matplotlib or seaborn for this.*