E- COMMERCE RETURNS

1. Downloading data set from kaggle -

https://www.kaggle.com/datasets/sayalikhot21/synthetic-dataset-for-e-commerce-return-analysis

2. Cleaning the given data set in VSCODE with python and check the dataset. The columns in dataset are :

- 3. Given DATASET is cleaning and you can check code in cleaning_dataset.
- 4. Now let's run SQL queries for analysis and some graphs for easy understanding in python.

ANALYSIS SUMMARY:

- We have 2539 rows in total that have returned items details correctly.
- 611 people returned items because they "changed their mind".
 But most of the people have returned because the piece they received is defective
- City62 returns most number of items are returned.(city41 is least)
- People who choose credit card as payment method return products more
- Total returned value 1970060.26
- RETURNED VALUES BY AGE GROUP-BY PEOPLE UNDER 20 MOSTLY RETURNS

	Age_Group	Total_Returned_Value	
0	20-29	354665.15	
1	30-39	379404.05	
2	40-49	361756.58	
3	50-59	396797.13	
4	60 and above	417538.87	
5	Under 20	59898.48	

- MEN RETURN MORE THAN FEMALE IN VALUE BUT FEMALE REMOVE MORE NUMBER OF ITEMS
- Most expensive item returned are electronic items
- Books are returned the most in all the products.
- Returns increased while compared to last year.

Year	Return_Count
2023	645
2024	1894

SUGGESTIONS :

- TRY TO REDUCE THE RETURNS IN 2025.
- REMOVE RETURNS FOR BOOKS BECAUSE THEY ARE PROBABLY READ AND RETURNING IT OR REDUCE THE RETURN TIMING TO 1DAY.
- DOUBLE VERIFY FOR AGE GROUP OF LESS THAN 20 TO CONFIRM THEIR ORDERS.
- AWAIL REGION WISE ALLOWANCE TO REDUCE LOSS OF RETURN MONEY.
- IMPROVE QUALITY OF PRODUCTS AND CHECK BEFORE DISPATCH TO REDUCE THE RETURNS DUE TO DAMAGE.