

Problem Statement

An analysis of laptops and their features investigate the factors that influence laptop pricing and customer interest across various retail platforms.

By conducting this analysis, we seek to provide insights into the pricing strategies of laptop brands, and find the features that are the major contributors of product pricing. We also seek to find how consumers' preferences shape their purchasing decisions.

This knowledge will be valuable to both consumers seeking value for money and retailers/brands looking to optimize their product offerings.

For this analysis we decided to obtain data from online ecommerce retail websites - Amazon, Flipkart and BestBuy

Potential Contribution:

The project has the potential to make several key contributions, particularly by integrating a recommendation engine:

Analyzing Laptop Market Dynamics

Understanding Pricing Factors

By examining key specifications like RAM, storage type, processor, and screen size, we can identify the features that significantly impact laptop prices across different brands and retailers. This analysis will help consumers make informed decisions about the value they receive for their investment and assist manufacturers in optimizing their product configurations.

Uncovering Consumer Preferences

Analyzing customer reviews and ratings will enable us to pinpoint the laptop features that most resonate with consumers and influence their purchasing decisions. This information will help retailers tailor their product offerings to meet consumer demands and identify the specifications that drive customer satisfaction.

Developing a Recommendation Engine

Leveraging the insights gained from the data, we can create a recommendation engine that suggests laptops to potential buyers based on their specific preferences (e.g., budget, processor, RAM). By incorporating customer ratings and reviews, this engine will recommend laptops that offer the best value and performance within a given price range.

Optimizing Retail and Brand Strategies

Comparing laptops across various retail platforms will provide valuable insights into platform-specific pricing and marketing strategies. Brands and retailers can use this information to refine their offerings and pricing models, better meet customer expectations, and increase sales.

Why This Contribution is Crucial

- **Personalized Recommendations for Consumers:** A recommendation engine can significantly enhance the consumer experience by suggesting laptops that align perfectly with their individual needs and preferences. This reduces decision fatigue and helps consumers find the best laptops at competitive prices.
- **Improved Sales and Market Position for Brands:** By recommending laptops that offer a good balance between price and performance, tailored to consumer demands, the recommendation engine can help brands position their products more effectively and increase sales.
- **Optimized Retail Platform Strategy:** Retailers can leverage the insights gained from the data and the recommendation engine to adjust their pricing, promotional strategies, and product offerings. This enables them to better cater to customer preferences, improve sales, and enhance overall customer satisfaction.

By incorporating a recommendation engine into the analysis, this project not only provides valuable insights into pricing and consumer behavior but also offers a practical tool that enhances the laptop buying experience for consumers, brands, and retailers alike.

Data

Data Collection and Cleaning

- **Data Sources:** We scraped data from popular e-commerce platforms like Flipkart, Amazon, and Best Buy.
- **Raw Data:** The collected data included product details, specifications, and customer reviews.
- **Data Structuring:** We transformed the unstructured data into a structured format, organizing key attributes like brand, model, price, screen size, and more into specific columns.
- **Data Cleaning:** We applied filters to remove unnecessary or duplicate information, ensuring data quality.
- **Data Export:** The cleaned and organized dataset was exported as a CSV file for further analysis.

Data Format

- **Granularity:** Each row represents a laptop product.
- **Data Type:** The data is granular, with no coarse data.

Data Collection and Cleaning - Flipkart

- The dataset was scrapped from flipkart website.
- Scraping and Cleaning done by:
 - Name: Vaibahv Saran
 - UB ID: 50615031

Data Collection - Flipkart

1. Importing Modules

```
In [1]: import requests
from bs4 import BeautifulSoup
import re
import numpy as np
import pandas as pd
import time
import random
```

Explanation for Modules

- `requests` module is to send a request to the URL to fetch the data.
- `BeautifulSoup` is a class using the object of which we will deal with the scraped HTML data.
- `re` is for using regex patterns to filter out data and create our dataframe in an organized format.
- `numpy` and `pandas` module if for manipulating data values and handling the data overall.
- `time` module is used to create a time delay during scraping.
- `random` module is used to generate random numbers to be used during scraping time delays.

2. Scraping All The Webpages Of Flipkart For Laptop Data

[Click here for the Initial Site](#)



- As highlighted in the red box of the above image we have access to **68 pages** of flipkart to scrape the data from.
- So based on that we will write the code to scrape the data

```
In [2]: # Defining Request Headers to scrape the data
request_header = {
    'Content-Type': 'text/html; charset=UTF-8',
```

```
'User-Agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:109.0) Gecko/201001
'Accept-Encoding': 'gzip, deflate, br',
'Referer': 'https://www.flipkart.com/',
'Origin': 'https://www.flipkart.com',
'Accept-Language': 'en-US,en;q=0.9'
}
```

Understanding The Request Headers

- **Content-Type:** This tells the server what kind of data you're sending. In this case, it's HTML text with a specific character set (UTF-8).
- **User-Agent:** This identifies the browser and operating system making the request. It helps the server understand how to format the response. For example, we are using Firefox on a Windows 10 machine.
- **Accept-Encoding:** This tells the server which compression methods your client can handle. Here, it indicates that the client can accept responses compressed with gzip, deflate, or br (Brotli).
- **Referer:** This indicates the URL from which the request originated. It helps the server understand the context of the request. In this scenario, it shows that the request is coming from Flipkart's website.
- **Origin:** Similar to Referer, this specifies the origin of the request, which is also Flipkart in this case. It's used for security purposes, particularly with cross-origin requests.
- **Accept-Language:** This tells the server which languages your client prefers. Here, it indicates a preference for US English, but can also accept other forms of English.

In [3]:

```
# Storing the URL as a f-string
page = 1
URL = f"https://www.flipkart.com/search?q=laptop&otracker=search&otracker1=search&n
```

- The URL is stored as f-string because, by changing the page number in the URL, we can access the next page data, this can be utilized in conjunction with for loop to scrape all the available data.

In [4]:

```
# Scraping Code

total_pages = 68 # Total number of pages being scraped
i = 1 # Counter to self verify the pages being scraped successfully
raw_text = [] # List to store all the raw html code

# Loop to iterate over all the pages by changing the f-string URL
for page in range (1, total_pages+1):

    # Fetching the data from URL based on the above request headers
    response = requests.get(URL, headers=request_header)

    # Random number to be used as time delay in order to make the script behaviour
    delay = random.randint(5,10)
    print("Time Delay:",delay,end=" seconds : ")

    # While Loop: covers the edge case wherein the first attempt to fetch the data
    # by continuously requesting the data at irregular time intervals in order to n
    while response.status_code!=200:
        time.sleep(delay)
        response = requests.get(URL,headers=request_header)
```

```
# Confirmation Message of Successful Scrape
print("Page",i," status:",response)

# Incrementing Page Counter
i+=1

# Appending the raw HTML code in the List
raw_text.append(response.text)

# A random delay before requesting the data from next page
time.sleep(delay)
```

Time Delay: 9 seconds : Page 1 status: <Response [200]>
Time Delay: 7 seconds : Page 2 status: <Response [200]>
Time Delay: 9 seconds : Page 3 status: <Response [200]>
Time Delay: 9 seconds : Page 4 status: <Response [200]>
Time Delay: 6 seconds : Page 5 status: <Response [200]>
Time Delay: 6 seconds : Page 6 status: <Response [200]>
Time Delay: 7 seconds : Page 7 status: <Response [200]>
Time Delay: 9 seconds : Page 8 status: <Response [200]>
Time Delay: 8 seconds : Page 9 status: <Response [200]>
Time Delay: 10 seconds : Page 10 status: <Response [200]>
Time Delay: 9 seconds : Page 11 status: <Response [200]>
Time Delay: 7 seconds : Page 12 status: <Response [200]>
Time Delay: 9 seconds : Page 13 status: <Response [200]>
Time Delay: 7 seconds : Page 14 status: <Response [200]>
Time Delay: 5 seconds : Page 15 status: <Response [200]>
Time Delay: 7 seconds : Page 16 status: <Response [200]>
Time Delay: 10 seconds : Page 17 status: <Response [200]>
Time Delay: 8 seconds : Page 18 status: <Response [200]>
Time Delay: 5 seconds : Page 19 status: <Response [200]>
Time Delay: 8 seconds : Page 20 status: <Response [200]>
Time Delay: 6 seconds : Page 21 status: <Response [200]>
Time Delay: 5 seconds : Page 22 status: <Response [200]>
Time Delay: 9 seconds : Page 23 status: <Response [200]>
Time Delay: 10 seconds : Page 24 status: <Response [200]>
Time Delay: 7 seconds : Page 25 status: <Response [200]>
Time Delay: 8 seconds : Page 26 status: <Response [200]>
Time Delay: 10 seconds : Page 27 status: <Response [200]>
Time Delay: 8 seconds : Page 28 status: <Response [200]>
Time Delay: 5 seconds : Page 29 status: <Response [200]>
Time Delay: 10 seconds : Page 30 status: <Response [200]>
Time Delay: 7 seconds : Page 31 status: <Response [200]>
Time Delay: 6 seconds : Page 32 status: <Response [200]>
Time Delay: 9 seconds : Page 33 status: <Response [200]>
Time Delay: 8 seconds : Page 34 status: <Response [200]>
Time Delay: 9 seconds : Page 35 status: <Response [200]>
Time Delay: 8 seconds : Page 36 status: <Response [200]>
Time Delay: 5 seconds : Page 37 status: <Response [200]>
Time Delay: 5 seconds : Page 38 status: <Response [200]>
Time Delay: 8 seconds : Page 39 status: <Response [200]>
Time Delay: 8 seconds : Page 40 status: <Response [200]>
Time Delay: 5 seconds : Page 41 status: <Response [200]>
Time Delay: 6 seconds : Page 42 status: <Response [200]>
Time Delay: 9 seconds : Page 43 status: <Response [200]>
Time Delay: 7 seconds : Page 44 status: <Response [200]>
Time Delay: 6 seconds : Page 45 status: <Response [200]>
Time Delay: 7 seconds : Page 46 status: <Response [200]>
Time Delay: 10 seconds : Page 47 status: <Response [200]>
Time Delay: 6 seconds : Page 48 status: <Response [200]>
Time Delay: 7 seconds : Page 49 status: <Response [200]>
Time Delay: 7 seconds : Page 50 status: <Response [200]>
Time Delay: 10 seconds : Page 51 status: <Response [200]>
Time Delay: 5 seconds : Page 52 status: <Response [200]>
Time Delay: 10 seconds : Page 53 status: <Response [200]>
Time Delay: 10 seconds : Page 54 status: <Response [200]>
Time Delay: 5 seconds : Page 55 status: <Response [200]>
Time Delay: 5 seconds : Page 56 status: <Response [200]>
Time Delay: 9 seconds : Page 57 status: <Response [200]>
Time Delay: 9 seconds : Page 58 status: <Response [200]>
Time Delay: 10 seconds : Page 59 status: <Response [200]>
Time Delay: 8 seconds : Page 60 status: <Response [200]>
Time Delay: 7 seconds : Page 61 status: <Response [200]>
Time Delay: 5 seconds : Page 62 status: <Response [200]>
Time Delay: 9 seconds : Page 63 status: <Response [200]>
Time Delay: 8 seconds : Page 64 status: <Response [200]>

```
Time Delay: 9 seconds : Page 65 status: <Response [200]>
Time Delay: 6 seconds : Page 66 status: <Response [200]>
Time Delay: 10 seconds : Page 67 status: <Response [200]>
Time Delay: 10 seconds : Page 68 status: <Response [200]>
```

3. Saving The Raw HTML Data in CSV

- Now we will save the raw HTML code for each page in a CSV by converting the list into a dataframe.
- Saving in CSV will ensure that we don't have to scrape the entire data everytime we want to work on the data as scraping itself is a time consuming process.

```
In [5]: # Converting the List to Data Frame
df = pd.DataFrame(raw_text,columns=["Raw Data"])

# Printing a sample to ensure correct data format
df.head()
```

Out[5]: **Raw Data**

	Raw Data
0	<!doctype html><html lang="en"><head><link href...
1	<!doctype html><html lang="en"><head><link href...
2	<!doctype html><html lang="en"><head><link href...
3	<!doctype html><html lang="en"><head><link href...
4	<!doctype html><html lang="en"><head><link href...

```
In [6]: # Dataframe has been created successfully and can now be saved in a CSV file
df.to_csv(r"data\raw.csv")
```

Data Cleaning - Flipkart

1. Importing Requisite Libraries

```
In [7]: import numpy as np
import pandas as pd
import re
from bs4 import BeautifulSoup
```

List Of The Features To Be Extracted From The Raw Data

- laptop_company = []
- processor_company = []
- processor = []
- operating_system = []
- RAM = []
- storage = []
- storage_type = [] # If not SSD Default will be HDD
- rating = []

- No_reviews = []
- screen_size = []
- price = [] # Target column

1.1 Filtering Features From Raw Data

In [8]:

```
# Loading the raw CSV
df = pd.read_csv(r"data\raw.csv")
df.head()
```

Out[8]:

	Unnamed: 0	Raw Data
0	0	<!doctype html><html lang="en"><head><link href...
1	1	<!doctype html><html lang="en"><head><link href...
2	2	<!doctype html><html lang="en"><head><link href...
3	3	<!doctype html><html lang="en"><head><link href...
4	4	<!doctype html><html lang="en"><head><link href...

In [9]:

```
pages = []
for i,j in df.iterrows():
    pages.append(j["Raw Data"])
```

In [10]:

```
# Iterating over all pages and for each page filtering out the Laptop brand for each
laptop_brand = []
for page in pages:
    soup = BeautifulSoup(page)
    for i in soup.find_all("div",class_="tUXRFH"):
        regex = re.findall("Compare(\w+)",i.text)
        if regex:
            laptop_brand.append(regex[0])
        else:
            laptop_brand.append(np.nan)
```

In [11]:

```
len(laptop_brand)
```

Out[11]:

```
1632
```

In [12]:

```
# Filtering out Laptop names
laptop_name = []
for page in pages:
    soup = BeautifulSoup(page)
    for i in soup.find_all("div",class_="KzDlHZ"):
        regex = re.findall("(^+)\s(?:Intel|intel|AMD|M1|M2|M3|Chromebook|Snapdrag...",i.text)
        if regex:
            laptop_name.append(regex[0])
        else:
            laptop_name.append(np.nan)
```

In [13]:

```
len(laptop_name)
```

Out[13]:

```
1632
```

In [14]:

```
processor = []
processor_company = []
for page in pages:
```

```
soup = BeautifulSoup(page)
for i in soup.find_all("div",class_="KzDlHZ"):

    # Regex to find the processor company of the Laptop
    regex1 = re.findall("Intel|intel|AMD|M1|M2|M3|Chromebook|Snapdragon",str(i))
    if regex1:
        processor_company.append(regex1[0])
    else:
        processor_company.append(np.nan)

    # Regex to find the exact processor in the Laptop
    regex2 = re.findall("(?:(Intel|intel|AMD|M1|M2|M3|Chromebook|Snapdragon)\s(.+))")
    if regex2:
        processor.append(regex2[0])
    else:
        processor.append(np.nan)
```

```
In [15]: # Checking the number of datapoints after applying the regex  
print(len(processor_company))
```

1632

```
In [16]: print(len(processor))
```

1632

```
In [17]: # Filtering out operating System of the Laptops
```

```
operating_system = []
```

```
for page in pages:
```

```
soup = BeautifulSoup(page)
```

```
# Regex to find Operating Systems
```

```
if regex:
```

op

else:

```
In [18]: # Checking the number of datapoints  
len(operating system)
```

Out[18]: 1632

```
In [19]: # Filtering out RAM of the Laptops
```

```
RAM = []
```

```
fan page in pages:
```

```
soup = BeautifulSoup(page)
```

```
+ in soup.find_all(
```

```
# Regex to find RAM
```

-8-

if regex:

```
RAM.append(regex[0])
```

RAM.a

In [20]: len(RAM)

Out[20]: 1632

```
In [21]: # Filtering out Storage of the Laptops
storage = []
for page in pages:
    soup = BeautifulSoup(page)
    for i in soup.find_all("div", class_="KzDlHZ"):

        # Regex to find Storage Size
        regex = re.findall("\d+\sGB\//(\d+)\s(?:GB|TB)\s(?:SSD|HDD|EMMC)", str(i.text))

        if regex:
            storage.append(regex[0])
        else:
            storage.append(np.nan)
```

```
In [22]: len(storage)
```

```
Out[22]: 1632
```

```
In [23]: # Filtering out Storage type of the Laptops
storage_type = []
for page in pages:
    soup = BeautifulSoup(page)
    for i in soup.find_all("div", class_="KzDlHZ"):

        # Regex to find Storage type
        regex = re.findall("\d+\sGB\//\d+\s(?:GB|TB)\s((?:SSD|HDD|EMMC))", str(i.text))

        if regex:
            storage_type.append(regex[0])
        else:
            storage_type.append(np.nan)
```

```
In [24]: len(storage_type)
```

```
Out[24]: 1632
```

```
In [25]: # Filtering out Rating of the Laptops
rating = []
for page in pages:
    soup = BeautifulSoup(page)
    for i in soup.find_all("div", class_="tUxRFH"):

        r = i.find("div", class_="XQDdHH")

        if r:
            rating.append(r.text)
        else:
            rating.append(np.nan)
```

```
In [26]: len(rating)
```

```
Out[26]: 1632
```

```
In [27]: # Filtering out number of reviews for each Laptops
No_reviews = []
for page in pages:
    soup = BeautifulSoup(page)
    for i in soup.find_all("div", class_="tUxRFH"):
        p = i.find("span", class_="Wphh3N")
        if p:
            regex = re.findall("\&\s(.+)\sReviews", p.text)
```

```

if regex:
    No_reviews.append(regex[0])
else:
    No_reviews.append(np.nan)
else:
    No_reviews.append(np.nan)

```

In [28]: `len(No_reviews)`

Out[28]: 1632

In [29]: *# Filtering out Screen Size of the Laptops*

```

screen_size = []
for page in pages:
    soup = BeautifulSoup(page)
    for i in soup.find_all("div", class_="_6NESgJ"):
        regex = re.findall("\d+\?\.\?\d+", i.text)
        if regex:
            screen_size.append(regex[0])
        else:
            screen_size.append(np.nan)

```

In [30]: `len(screen_size)`

Out[30]: 1632

In [31]: *# Filtering out the target column: price of the Laptop*

```

price = []
for page in pages:
    soup = BeautifulSoup(page)
    for i in soup.find_all("div", class_="tUxRFH"):

        p = i.find("div", class_="Nx9bqj _4b5DiR")

        if p:
            price.append(p.text)
        else:
            price.append(np.nan)

```

In [32]: `len(price)`

Out[32]: 1632

In [33]: *# Creating a dataframe from all the extracted features present in list*

```

feature_dict = {"Laptop_Brand":laptop_brand,
                "Laptop_Name":laptop_name,
                "Processor_Company":processor_company,
                "Processor":processor,
                "Operating_System":operating_system,
                "RAM":RAM,
                "Storage":storage,
                "Storage_Type":storage_type,
                "Screen_Size":screen_size,
                "Rating":rating,
                "Number_of_Reviews": No_reviews,
                "Price":price}

```

In [34]: *# Creating a dataframe from the above dictionary*

```

laptop_df = pd.DataFrame(feature_dict)

```

In [35]: `# Saving the dataframe as a csv file for further analysis
laptop_df.to_csv(r"data\flipkart_laptop_data.csv", index=False)`

Data Cleaning - Flipkart

1. Loading the Necessary Modules

In [36]: `import numpy as np
import pandas as pd
import re
import warnings
warnings.filterwarnings("ignore")`

2. Loading the CSV file

In [37]: `laptop_df = pd.read_csv(r"data\flipkart_laptop_data.csv")
laptop_df.head()`

Out[37]:

	Laptop_Brand	Laptop_Name	Processor_Company	Processor	Operating_System	RAM	Storage
0	HP	HP Victus	Intel	Core i5 12th Gen	Windows 11	16	512
1	MSI	MSI Thin 15	Intel	Core i5 12th Gen 12450H	Windows 11	16	512
2	HP	HP Laptop	AMD	Ryzen 3 Quad Core 5300U	Windows 11	8	512
3	Acer	Acer One	Intel	Core i3 11th Gen 1115G4	Windows 11	8	512
4	HP	HP	AMD	Ryzen 5 Hexa Core 5500U	Windows 11	16	512

3. Cleaning of Dataset

In [38]: `laptop_df.info()`

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1632 entries, 0 to 1631
Data columns (total 12 columns):
 #   Column           Non-Null Count  Dtype  
--- 
 0   Laptop_Brand     1632 non-null    object  
 1   Laptop_Name      1632 non-null    object  
 2   Processor_Company 1632 non-null    object  
 3   Processor         1632 non-null    object  
 4   Operating_System 1632 non-null    object  
 5   RAM               1632 non-null    int64  
 6   Storage           1632 non-null    int64  
 7   Storage_Type      1632 non-null    object  
 8   Screen_Size       1632 non-null    int64  
 9   Rating            1503 non-null    float64 
 10  Number_of_Reviews 1503 non-null    float64 
 11  Price              1623 non-null    object  
dtypes: float64(2), int64(3), object(7)
memory usage: 153.1+ KB
```

Observation

- There are a total of 1632 datapoints but looking at the columns Rating and Number_of_Reviews , there are some null values which needs to be dealt with later.
- Need to check for wrong values or outliers in the data.
- The target column Price should be integer but is stored as an object so it must be converted to right datatype as well as the missing data needs to be replaced.

```
In [39]: # Inspecting Price Column
laptop_df["Price"].head(10)
```

```
Out[39]: 0    ₹58,990
1    ₹57,990
2    ₹30,999
3    ₹26,990
4    ₹42,990
5    ₹64,990
6    ₹52,990
7    ₹35,990
8    ₹20,990
9    ₹36,990
Name: Price, dtype: object
```

Observation

- Based on the above cell output, we see that Price is being treated as object column because of an extra symbol ₹ and , .
- Therefore they need to be removed as they dont contribute in the analysis.

```
In [40]: # Removing extra characters from the price column
laptop_df["Price"] = laptop_df["Price"].str.replace(',', '').str.replace('₹', '')
laptop_df.head()
```

Out[40]:

	Laptop_Brand	Laptop_Name	Processor_Company	Processor	Operating_System	RAM	Storage
0	HP	HP Victus	Intel	Core i5 12th Gen	Windows 11	16	512
1	MSI	MSI Thin 15	Intel	Core i5 12th Gen 12450H	Windows 11	16	512
2	HP	HP Laptop	AMD	Ryzen 3 Quad Core 5300U	Windows 11	8	512
3	Acer	Acer One	Intel	Core i3 11th Gen 1115G4	Windows 11	8	512
4	HP	HP	AMD	Ryzen 5 Hexa Core 5500U	Windows 11	16	512

In [41]: # Analysing the complete description summary of the dataframe
laptop_df.describe(include="all").T

Out[41]:

	count	unique	top	freq	mean	std	min	25%	50%	75%	max	dtype
Laptop_Brand	1632	9	HP	388	NaN	NaN	NaN	NaN	NaN	NaN	1632	I
Laptop_Name	1632	49	HP	136	NaN	NaN	NaN	NaN	NaN	NaN	1632	I
Processor_Company	1632	4	Intel	1040	NaN	NaN	NaN	NaN	NaN	NaN	1632	I
Processor	1632	38	Core i3 12th Gen 1215U	182	NaN	NaN	NaN	NaN	NaN	NaN	1632	I
Operating_System	1632	2	Windows 11	1541	NaN	NaN	NaN	NaN	NaN	NaN	1632	I
RAM	1632.0	NaN	NaN	NaN	12.252451	5.865025	4.0	8.0	8.0	8.0	1632.0	f
Storage	1632.0	NaN	NaN	NaN	440.907475	171.443332	1.0	512.0	512.0	512.0	1632.0	f
Storage_Type	1632	2	SSD	1541	NaN	NaN	NaN	NaN	NaN	NaN	1632	I
Screen_Size	1632.0	NaN	NaN	NaN	19.865809	18.555163	11.0	11.0	11.0	12.0	1632.0	f
Rating	1503.0	NaN	NaN	NaN	4.203127	0.238804	3.3	4.1	4.2	4.2	1503.0	f
Number_of_Reviews	1503.0	NaN	NaN	NaN	246.401863	202.948019	0.0	25.0	214.0	400.0	1503.0	f
Price	1623	53	54990	100	NaN	NaN	NaN	NaN	NaN	NaN	1623	I

Observation Based Tasks:

- Convert the price column to int after handling missing values.
- Convert the laptop names to proper product names
- In the storage column, there is a min value of 1, which is measuring the data in TB, so all the values must be converted to a common GB measurement.

- Check the screen size for values and impute the outliers accordingly.
- In rating and no of reviews replace null values with 0.

In [42]: `# Analyzing the datapoints which have null price
laptop_df[laptop_df["Price"].isnull()]`

Out[42]:

	Laptop_Brand	Laptop_Name	Processor_Company	Processor	Operating_System	RAM	Storage
25	Lenovo	Lenovo LOQ	Intel	Core i5 13th Gen 13450HX	Windows 11	16	1T
145	Lenovo	Lenovo LOQ	Intel	Core i5 13th Gen 13450HX	Windows 11	16	1T
217	Lenovo	Lenovo LOQ	Intel	Core i5 13th Gen 13450HX	Windows 11	16	1T
241	Lenovo	Lenovo LOQ	Intel	Core i5 13th Gen 13450HX	Windows 11	16	1T
265	Lenovo	Lenovo LOQ	Intel	Core i5 13th Gen 13450HX	Windows 11	16	1T
641	Lenovo	Lenovo LOQ	Intel	Core i5 13th Gen 13450HX	Windows 11	16	1T
1457	Lenovo	Lenovo LOQ	Intel	Core i5 13th Gen 13450HX	Windows 11	16	1T
1553	Lenovo	Lenovo LOQ	Intel	Core i5 13th Gen 13450HX	Windows 11	16	1T
1577	Lenovo	Lenovo LOQ	Intel	Core i5 13th Gen 13450HX	Windows 11	16	1T

Observation

- All the above data points are duplicated, so will be dropped.
- The process of handling will be as follows:
 - Removing all the null values in Price column except for the 1 datapoint.
 - Replacing the null value in Price with the mean of 50th percentile and 75th percentile of all Lenovo Laptop Prices.

In [43]: `# Droping 8 rows where Laptop_Name is 'Lenovo LOQ' and Price is null
lenovo_loq_null_price = laptop_df[(laptop_df['Laptop_Name'] == 'Lenovo LOQ') & (laptop_df['Price'].isnull())]
laptop_df = laptop_df.drop(lenovo_loq_null_price.index[:8])`

`# Calculating the mean of the 50th and 75th percentiles of the Price column for Lenovo
lenovo_prices = laptop_df[laptop_df['Laptop_Brand'] == 'Lenovo']['Price'].dropna()
percentile_50 = lenovo_prices.quantile(0.50)
percentile_75 = lenovo_prices.quantile(0.75)`

```
mean_price = (percentile_50 + percentile_75) / 2

# Replacing the null value in the remaining 'Lenovo LOQ' row with the calculated mean
laptop_df.loc[(laptop_df['Laptop_Name'] == 'Lenovo LOQ') & (laptop_df['Price'].isna())] = mean_price

# Verifying the changes
laptop_df.info()

<class 'pandas.core.frame.DataFrame'>
Index: 1624 entries, 0 to 1631
Data columns (total 12 columns):
 #   Column           Non-Null Count  Dtype  
--- 
 0   Laptop_Brand     1624 non-null    object  
 1   Laptop_Name      1624 non-null    object  
 2   Processor_Company 1624 non-null    object  
 3   Processor         1624 non-null    object  
 4   Operating_System 1624 non-null    object  
 5   RAM               1624 non-null    int64  
 6   Storage           1624 non-null    int64  
 7   Storage_Type      1624 non-null    object  
 8   Screen_Size       1624 non-null    int64  
 9   Rating            1495 non-null    float64 
 10  Number_of_Reviews 1495 non-null    float64 
 11  Price              1624 non-null    object  
dtypes: float64(2), int64(3), object(7)
memory usage: 164.9+ KB
```

In [44]:

```
# Converting Price column to numbers
laptop_df["Price"] = laptop_df["Price"].astype("float")
laptop_df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Index: 1624 entries, 0 to 1631
Data columns (total 12 columns):
 #   Column           Non-Null Count  Dtype  
--- 
 0   Laptop_Brand     1624 non-null    object  
 1   Laptop_Name      1624 non-null    object  
 2   Processor_Company 1624 non-null    object  
 3   Processor         1624 non-null    object  
 4   Operating_System 1624 non-null    object  
 5   RAM               1624 non-null    int64  
 6   Storage           1624 non-null    int64  
 7   Storage_Type      1624 non-null    object  
 8   Screen_Size       1624 non-null    int64  
 9   Rating            1495 non-null    float64 
 10  Number_of_Reviews 1495 non-null    float64 
 11  Price              1624 non-null    float64 
dtypes: float64(3), int64(3), object(6)
memory usage: 164.9+ KB
```

In [45]:

```
# Removing the brand name from Laptop Name to just have product name
def remove_company(name):
    words = name.split(' ', 1)

    if len(words)>1:
        # Removing anything which comes after , or -
        trunc = words[1].split(',')[-1].split('-')[0].strip()
        return trunc if trunc else name

    return name
```

```
laptop_df["Laptop_Name"] = laptop_df["Laptop_Name"].apply(remove_company)
```

In [46]: `laptop_df.head(10)`

	Laptop_Brand	Laptop_Name	Processor_Company	Processor	Operating_System	RAM	Storage
0	HP	Victus	Intel	Core i5 12th Gen	Windows 11	16	512
1	MSI	Thin 15	Intel	Core i5 12th Gen 12450H	Windows 11	16	512
2	HP	Laptop	AMD	Ryzen 3 Quad Core 5300U	Windows 11	8	512
3	Acer	One	Intel	Core i3 11th Gen 1115G4	Windows 11	8	512
4	HP	HP	AMD	Ryzen 5 Hexa Core 5500U	Windows 11	16	512
5	Infinix	GT Book	Intel	Core i5 12th Gen 12450H	Windows 11	16	512
6	Acer	Aspire 7	Intel	Core i5 12th Gen 12450H	Windows 11	16	512
7	ASUS	Vivobook 15	Intel	Core i3 12th Gen 1215U	Windows 11	8	512
8	Acer	Aspire 3	Intel	Celeron Dual Core N4500	Windows 11	8	512
9	MSI	Modern 14	AMD	Ryzen 5 Hexa Core 7530U	Windows 11	16	512

In [47]: `# Handling the values of Storage column`
`laptop_df[["Storage"]].describe()`

Out[47]:

Storage	
count	1624.000000
mean	440.557266
std	171.792497
min	1.000000
25%	512.000000
50%	512.000000
75%	512.000000
max	512.000000

Observation

- The min value of a laptop storage can be 128 GB nothing less than that, if it is less than it means the value is TB and needs to be converted into GB or its a wrong data point.
- Lets filter out all the datapoints where the storage is less than 128 GB.

In [48]:

```
# Filtering out the datapoints where the storage is less than 128
filtered_df = laptop_df[laptop_df['Storage'] < 128]
filtered_df
```

Out[48]:

	Laptop_Brand	Laptop_Name	Processor_Company	Processor	Operating_System	RAM	Storage
17	ASUS	ROG Strix Scar 16	Intel	Core i9 14th Gen 14900HX	Windows 11	32	
18	HP	Chromebook MediaTek MT8183	Chromebook	MediaTek MT8183	Chrome	4	
20	Acer	Predator Neo	Intel	Core i7 13th Gen 13700HX	Windows 11	16	
29	MSI	Claw AI PC	Intel	Core Ultra 7 155H	Windows 11	16	
41	Acer	Acer Predator Helios Neo 16	Intel	Core i9 13th Gen 13900HX	Windows 11	16	
...
1601	Lenovo	Yoga Slim 7x Qualcomm	Snapdragon	X Elite	Windows 11	32	
1602	HP	Chromebook MediaTek MT8183	Chromebook	MediaTek MT8183	Chrome	4	
1613	Lenovo	Yoga AI PC	Intel	Core Ultra 7 155H	Windows 11	32	
1625	Lenovo	Yoga Slim 7x Qualcomm	Snapdragon	X Elite	Windows 11	32	
1626	HP	Chromebook MediaTek MT8183	Chromebook	MediaTek MT8183	Chrome	4	

223 rows × 12 columns



Observation

- EMMC Storage are exception to the traditional laptops as they are made for extremely light weight load so whatever storage is provided need not to be changed.
- However the storage value in for SSDs/HDDs needs to be updated.

In [49]:

```
# Converting the Storage values of Storage in TB to GB
condition = (laptop_df['Storage_Type'].isin(['SSD', 'HDD'])) & (laptop_df['Storage'] <= 1024)
```

In [50]:

```
# Looking at Data Summary
laptop_df.describe(include="all").T
```

Out[50]:		count	unique	top	freq	mean	std	min	25%
	Laptop_Brand	1624	9	HP	388	NaN	NaN	NaN	NaN
	Laptop_Name	1624	47	HP	136	NaN	NaN	NaN	NaN
	Processor_Company	1624	4	Intel	1032	NaN	NaN	NaN	NaN
	Processor	1624	38	Core i3 12th Gen 1215U	182	NaN	NaN	NaN	NaN
	Operating_System	1624	2	Windows 11	1533	NaN	NaN	NaN	NaN
	RAM	1624.0	NaN	NaN	NaN	12.23399	5.873543	4.0	8.0
	Storage	1624.0	NaN	NaN	NaN	526.857143	202.351364	32.0	512.0
	Storage_Type	1624	2	SSD	1533	NaN	NaN	NaN	NaN
	Screen_Size	1624.0	NaN	NaN	NaN	19.899631	18.594559	11.0	11.0
	Rating	1495.0	NaN	NaN	NaN	4.203144	0.239443	3.3	4.1
	Number_of_Reviews	1495.0	NaN	NaN	NaN	247.48495	202.948047	0.0	25.0
	Price	1624.0	NaN	NaN	NaN	53425.598522	49743.83399	11990.0	30999.0

Observation

- Based on the above describe(Mean, precentiles and median) of the storage column, we can be sure that all the values are now accurate.

In [51]:	# Dealing with Screen Size outlier values laptop_df[laptop_df["Screen_Size"] > 17].head()								
Out[51]:		Laptop_Brand	Laptop_Name	Processor_Company	Processor	Operating_System	RAM	Storage	Screen_Size
	12	HP	15s	AMD	Ryzen 3 Quad Core 5300U	Windows 11	8	512	17.0
	18	HP	Chromebook MediaTek MT8183	Chromebook	MediaTek MT8183	Chrome	4	32	17.0
	36	HP	15s	AMD	Ryzen 3 Quad Core 5300U	Windows 11	8	512	17.0
	42	HP	Chromebook MediaTek MT8183	Chromebook	MediaTek MT8183	Chrome	4	32	17.0
	60	HP	15s	AMD	Ryzen 3 Quad Core 5300U	Windows 11	8	512	17.0

```
In [52]: laptop_df[laptop_df["Screen_Size"] > 17].shape
```

```
Out[52]: (265, 12)
```

Observation

- The Screen Size values have been mislabelled during the aggregation or were not present in the given data.
- In order to impute these outlier values, these values will be replaced by the mean value of screen size based on each laptop company

```
In [53]: # Filtering out what all values are there in Screen Size
screen_size_counts = laptop_df['Screen_Size'].value_counts().sort_index()
```

```
In [54]: screen_size_counts
```

```
Out[54]: Screen_Size
11    485
12    403
13    218
14     5
16    248
25     22
32     62
64    113
81     68
Name: count, dtype: int64
```

Observation

- The above values confirm that some values are mis-represented, so we will be replacing it with the mean value based on each laptop.
- This will be done for screen size greater than 32, and for values between 17 and 32 will be converted to inches.

```
In [55]: # Imputing outliers in Screen_Size Column
```

```
# Function to replace screen sizes greater than 32 with the median screen size for
# and convert screen sizes between 17 and 32 from cm to inches
def update_screen_size(group):
    median_size = group['Screen_Size'].median()
    group.loc[group['Screen_Size'] > 32, 'Screen_Size'] = median_size
    group.loc[(group['Screen_Size'] > 17) & (group['Screen_Size'] <= 32), 'Screen_Size'] = group['Screen_Size'].apply(lambda x: x * 0.3937)
    return group

# Apply the function to each group of Laptop_Brand
laptop_df = laptop_df.groupby('Laptop_Brand').apply(update_screen_size).reset_index()
```

```
In [56]: # Filtering out what all values are there in Screen Size
screen_size_counts = laptop_df['Screen_Size'].value_counts().sort_index()
screen_size_counts
```

```
Out[56]: Screen_Size
9.842525    22
11.000000   507
12.000000   403
12.598432   62
13.000000   218
14.000000    5
16.000000   407
Name: count, dtype: int64
```

Observation

- Need to replace all the screen size values less than 11 to 11 inches
- Make the screen size to definitive 12.5 inches

```
In [57]: # Replace specific Screen_Size values
laptop_df['Screen_Size'] = laptop_df['Screen_Size'].replace({9.842525: 11.00, 12.598432: 12.5})

# Filtering out what all values are there in Screen Size
screen_size_counts = laptop_df['Screen_Size'].value_counts().sort_index()
screen_size_counts
```

```
Out[57]: Screen_Size
11.0      529
12.0      403
12.5       62
13.0      218
14.0        5
16.0      407
Name: count, dtype: int64
```

Observation

- All the screen sizes are now valid.

```
In [58]: laptop_df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1624 entries, 0 to 1623
Data columns (total 12 columns):
 #   Column           Non-Null Count  Dtype  
---  -- 
 0   Laptop_Brand     1624 non-null   object  
 1   Laptop_Name      1624 non-null   object  
 2   Processor_Company 1624 non-null   object  
 3   Processor         1624 non-null   object  
 4   Operating_System 1624 non-null   object  
 5   RAM               1624 non-null   int64  
 6   Storage           1624 non-null   int64  
 7   Storage_Type      1624 non-null   object  
 8   Screen_Size        1624 non-null   float64
 9   Rating            1495 non-null   float64
 10  Number_of_Reviews 1495 non-null   float64
 11  Price              1624 non-null   float64
dtypes: float64(4), int64(2), object(6)
memory usage: 152.4+ KB
```

```
In [59]: laptop_df.describe(include="all").T
```

Out[59]:

	count	unique	top	freq	mean	std	min	25%
Laptop_Brand	1624	9	HP	388	NaN	NaN	NaN	NaN
Laptop_Name	1624	47	Aspire 7	136	NaN	NaN	NaN	NaN
Processor_Company	1624	4	Intel	1032	NaN	NaN	NaN	NaN
Processor	1624	38	Core i3 12th Gen 1215U	182	NaN	NaN	NaN	NaN
Operating_System	1624	2	Windows 11	1533	NaN	NaN	NaN	NaN
RAM	1624.0	NaN	NaN	NaN	12.23399	5.873543	4.0	8.0
Storage	1624.0	NaN	NaN	NaN	526.857143	202.351364	32.0	512.0
Storage_Type	1624	2	SSD	1533	NaN	NaN	NaN	NaN
Screen_Size	1624.0	NaN	NaN	NaN	12.836207	1.94802	11.0	11.0
Rating	1495.0	NaN	NaN	NaN	4.203144	0.239443	3.3	4.1
Number_of_Reviews	1495.0	NaN	NaN	NaN	247.48495	202.948047	0.0	25.0
Price	1624.0	NaN	NaN	NaN	53425.598522	49743.83399	11990.0	30999.0

◀ ▶

Observation

- Replacing all the missing values in `Rating` and `Number_of_Reviews` with zero, as they will be treated as the laptop not being sold or not that appealing to customers.

In [60]:

```
# Replacing Nan values in the Rating and Number of Reviews column
laptop_df['Rating'] = laptop_df['Rating'].fillna(0)
laptop_df['Number_of_Reviews'] = laptop_df['Number_of_Reviews'].fillna(0)
```

In [61]:

```
# Taking a final look at info and description of data
laptop_df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1624 entries, 0 to 1623
Data columns (total 12 columns):
 #   Column           Non-Null Count  Dtype  
 ---  -- 
 0   Laptop_Brand    1624 non-null   object  
 1   Laptop_Name     1624 non-null   object  
 2   Processor_Company 1624 non-null   object  
 3   Processor        1624 non-null   object  
 4   Operating_System 1624 non-null   object  
 5   RAM              1624 non-null   int64  
 6   Storage          1624 non-null   int64  
 7   Storage_Type     1624 non-null   object  
 8   Screen_Size      1624 non-null   float64 
 9   Rating           1624 non-null   float64 
 10  Number_of_Reviews 1624 non-null   float64 
 11  Price            1624 non-null   float64 
dtypes: float64(4), int64(2), object(6)
memory usage: 152.4+ KB
```

In [62]:

```
laptop_df.describe(include="all").T
```

Out[62]:

	count	unique	top	freq	mean	std	min	25%
Laptop_Brand	1624	9	HP	388	NaN	NaN	NaN	NaN
Laptop_Name	1624	47	Aspire 7	136	NaN	NaN	NaN	NaN
Processor_Company	1624	4	Intel	1032	NaN	NaN	NaN	NaN
Processor	1624	38	Core i3 12th Gen 1215U	182	NaN	NaN	NaN	NaN
Operating_System	1624	2	Windows 11	1533	NaN	NaN	NaN	NaN
RAM	1624.0	NaN	NaN	NaN	12.23399	5.873543	4.0	8.0
Storage	1624.0	NaN	NaN	NaN	526.857143	202.351364	32.0	512.0
Storage_Type	1624	2	SSD	1533	NaN	NaN	NaN	NaN
Screen_Size	1624.0	NaN	NaN	NaN	12.836207	1.94802	11.0	11.0
Rating	1624.0	NaN	NaN	NaN	3.869273	1.159917	0.0	4.075
Number_of_Reviews	1624.0	NaN	NaN	NaN	227.826355	205.902161	0.0	12.0
Price	1624.0	NaN	NaN	NaN	53425.598522	49743.83399	11990.0	30999.0

In [63]:

```
# Since the data is now cleaned, it can be exported as a clean CSV for further analysis
laptop_df.to_csv(r"data\flipkart_laptop_cleaned.csv", index=False)
```

Data Collection and Cleaning - Best Buy

- The dataset was scrapped from Best Buy website.
- Scraping and Cleaning done by:
 - Name: Yeswanth Chitturi
 - UB ID: 50591666

1. Importing Modules

In [1]:

```
import requests
from bs4 import BeautifulSoup
import pandas as pd
```

2. Scraping All The Webpages Of Best Buy For Laptop Data

[Click here for the Initial Site](#)

Scraping Code , Converting Html to data frame and saving as CSV.

In [2]:

```

# Function to get the HTML content of a page
def get_page_content(url):
    headers = {'User-Agent': 'Mozilla/5.0'}
    response = requests.get(url, headers=headers)
    return BeautifulSoup(response.content, 'html.parser')

# Function to scrape laptop data from one page
def scrape_laptop_data_from_page(soup, data):
    base_url = 'https://www.bestbuy.com'

    # Find all laptops on the page
    laptops = soup.find_all('li', class_='sku-item')

    for laptop in laptops:
        try:
            # Extract laptop name
            name_tag = laptop.find('h4', class_='sku-title')
            name = name_tag.text.strip() if name_tag else 'No name available'

            # Extract SKU value
            skuvalue_tag = laptop.find('span', class_='sku-value')
            skuvalue = skuvalue_tag.text.strip() if skuvalue_tag else 'No SKU value available'

            # Extract rating (visually hidden text)
            visually_hidden_tag = laptop.find('p', class_='visually-hidden')
            rating = visually_hidden_tag.text.strip() if visually_hidden_tag else 'No rating available'

            # Extract laptop price
            price_tag = laptop.find('div', class_='priceView-customer-price')
            price = price_tag.span.text.strip() if price_tag else 'No price available'

            # Append data to the list
            data.append([name, skuvalue, rating, price])
            #print(f'Scraped: {name}')

        except Exception as e:
            print(f'Error scraping laptop: {e}')

    # Function to find the link to the next page
def get_next_page(soup):
    next_page_tag = soup.find('a', class_='sku-list-page-next')
    if next_page_tag and 'href' in next_page_tag.attrs:
        return next_page_tag['href']
    return None

# Main function to scrape all pages
def scrape_all_pages():
    base_url = 'https://www.bestbuy.com'
    search_url = f'{base_url}/site/searchpage.jsp?st=laptops'

    # List to hold all laptop data
    data = []

    current_page_url = search_url

    while current_page_url:
        #print(f'Scraping page: {current_page_url}')
        soup = get_page_content(current_page_url)
        scrape_laptop_data_from_page(soup, data)

        # Check if there's a next page
        next_page = get_next_page(soup)
        if next_page:

```

```
    current_page_url = f'{base_url}{next_page}'
else:
    current_page_url = None

# Create a DataFrame from the scraped data
df = pd.DataFrame(data, columns=['total_info', 'Model No', 'Rating', 'Price'])

# Save DataFrame to a CSV file
df.to_csv('laptops_data.csv', index=False)
print('Data has been saved to laptops_data.csv')
return df

if __name__ == '__main__':
    df=scrape_all_pages()
    #print(df)
    print(df.info())
```

```
Data has been saved to laptops_data.csv
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1285 entries, 0 to 1284
Data columns (total 4 columns):
 #   Column      Non-Null Count   Dtype  
 ---  --          --          --      
 0   total_info  1285 non-null    object 
 1   Model No    1285 non-null    object 
 2   Rating      1285 non-null    object 
 3   Price       1285 non-null    object 
dtypes: object(4)
memory usage: 40.3+ KB
None
```

Data Collection Similar to Flipkart data

Converting Raw Data Into Columns

```

extracted_displays = df1['total_info'].str.extract(display_pattern)
df1['display'] = extracted_displays[0].fillna(value=pd.NA)
#Laptop Name
model_pattern = r'(Geek Squad Certified Refurbished MacBook Air|Envy|XPS|OmniBook|P'
df1['model'] = df1['total_info'].str.extract(model_pattern)
#Graphics
graphics_pattern = r'(NVIDIA GeForce RTX \d+|Ryzen \d+U|Intel Iris Xe Graphics|NVID'
df1['graphics'] = df1['total_info'].str.extract(graphics_pattern)
#Storage Type
storagetype_pattern = r'(FlashStorage|HardDrive|SSD|HDD|SDD|eMMC|Flash Storage|Harc'
df1['storage_type'] = df1['storage'].str.extract(storagetype_pattern)
#No of reviews
no_reviews_pattern = r'(\d{1,4})\s*reviews?|reviewfalse'
df1['no_reviews'] = df1['Rating'].str.extract(no_reviews_pattern)
#Rating out of 5
Rating_5_pattern = r'Rating\s*(\d(?:\.\d))'
df1['Rating_5'] = df1['Rating'].str.extract(Rating_5_pattern)
#Processor Company
processor_company_pattern = r'(Intel|AMD\s*Ryzen|Ryzen|Snapdragon|Core|MediaTek|M1|'
df1['processor_company'] = df1['processor'].str.extract(processor_company_pattern)
#Operating System
df1['os']='Windows11'
#Dropping group columns
df1 = df1.drop('total_info', axis=1)
df1 = df1.drop('Rating', axis=1)
#Saving original
df_BB=df1

```

Filling Null Values

```

In [4]: df_BB['graphics'] = df_BB['graphics'].fillna('No Graphics')

df_BB['no_reviews'] = df_BB['no_reviews'].fillna('0')

df_BB['Rating_5'] = df_BB['Rating_5'].fillna('0 Reviews')

df_BB['storage_type'] = df_BB['storage_type'].fillna('SSD')

df_BB['processor'] = df_BB['processor'].fillna('No Info')

df_BB['processor_company'] = df_BB['processor_company'].fillna('No Info')

df_BB['model'] = df_BB['model'].fillna('No Model')

most_frequent_display = df_BB['display'].mode()[0]
df_BB['display'] = df_BB['display'].fillna(most_frequent_display)

most_frequent_ram = df_BB['ram'].mode()[0]
df_BB['ram'] = df_BB['ram'].fillna(most_frequent_ram)

most_frequent_storage = df_BB['storage'].mode()[0]
df_BB['storage'] = df_BB['storage'].fillna(most_frequent_storage)

```

Removing extra names and characters

```

In [5]: #More cleaning

df_BB.loc[df_BB['Brand'] == 'Apple', 'os'] = 'Mac OS'

df_BB['processor_company'] = df_BB['processor_company'].replace({'M1': 'Apple', 'M2': 'Microsoft', 'M3': 'AMD', 'M4': 'NVIDIA', 'M5': 'Qualcomm', 'M6': 'Samsung', 'M7': 'Huawei', 'M8': 'ASUS', 'M9': 'Dell', 'M10': 'Lenovo', 'M11': 'HP', 'M12': 'Sony', 'M13': 'Toshiba', 'M14': 'LG', 'M15': 'Acer', 'M16': 'MSI', 'M17': 'Razer', 'M18': 'Aorus', 'M19': 'Gigabyte', 'M20': 'ASRock', 'M21': 'MSI', 'M22': 'GIGABYTE', 'M23': 'ASUS', 'M24': 'MSI', 'M25': 'GIGABYTE', 'M26': 'ASUS', 'M27': 'MSI', 'M28': 'GIGABYTE', 'M29': 'ASUS', 'M30': 'MSI', 'M31': 'GIGABYTE', 'M32': 'ASUS', 'M33': 'MSI', 'M34': 'GIGABYTE', 'M35': 'ASUS', 'M36': 'MSI', 'M37': 'GIGABYTE', 'M38': 'ASUS', 'M39': 'MSI', 'M40': 'GIGABYTE', 'M41': 'ASUS', 'M42': 'MSI', 'M43': 'GIGABYTE', 'M44': 'ASUS', 'M45': 'MSI', 'M46': 'GIGABYTE', 'M47': 'ASUS', 'M48': 'MSI', 'M49': 'GIGABYTE', 'M50': 'ASUS', 'M51': 'MSI', 'M52': 'GIGABYTE', 'M53': 'ASUS', 'M54': 'MSI', 'M55': 'GIGABYTE', 'M56': 'ASUS', 'M57': 'MSI', 'M58': 'GIGABYTE', 'M59': 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'M765': 'MSI', 'M766': 'GIGABYTE', 'M767': 'ASUS', 'M768': 'MSI', 'M769': 'GIGABYTE', 'M770': 'ASUS', 'M771': 'MSI', 'M772': 'GIGABYTE', 'M773': 'ASUS', 'M774': 'MSI', 'M775': 'GIGABYTE', 'M776': 'ASUS', 'M777': 'MSI', 'M778': 'GIGABYTE', 'M779': 'ASUS', 'M780': 'MSI', 'M781': 'GIGABYTE', 'M782': 'ASUS', 'M783': 'MSI', 'M784': 'GIGABYTE', 'M785': 'ASUS', 'M786': 'MSI', 'M787': 'GIGABYTE', 'M788': 'ASUS', 'M789': 'MSI', 'M790': 'GIGABYTE', 'M791': 'ASUS', 'M792': 'MSI', 'M793': 'GIGABYTE', 'M794': 'ASUS', 'M795': 'MSI', 'M796': 'GIGABYTE', 'M797': 'ASUS', 'M798': 'MSI', 'M799': 'GIGABYTE', 'M800': 'ASUS', 'M801': 'MSI', 'M802': 'GIGABYTE', 'M803': 'ASUS', 'M804': 'MSI', 'M805': 'GIGABYTE', 'M806': 'ASUS', 'M807': 'MSI', 'M808': 'GIGABYTE', 'M809': 'ASUS', 'M810': 'MSI', 'M811': 'GIGABYTE', 'M812': 'ASUS', 'M813': 'MSI', 'M814': 'GIGABYTE', 'M815': 'ASUS', 'M816': 'MSI', 'M817': 'GIGABYTE', 'M818': 'ASUS', 'M819': 'MSI', 'M820': 'GIGABYTE', 'M821': 'ASUS', 'M822': 'MSI', 'M823': 'GIGABYTE', 'M824': 'ASUS', 'M825': 'MSI', 'M826': 'GIGABYTE', 'M827': 'ASUS', 'M828': 'MSI', 'M829': 'GIGABYTE', 'M830': 'ASUS', 'M831': 'MSI', 'M832': 'GIGABYTE', 'M833': 'ASUS', 'M834': 'MSI', 'M835': 'GIGABYTE', 'M836': 'ASUS', 'M837': 'MSI', 'M838': 'GIGABYTE', 'M839': 'ASUS', 'M840': 'MSI', 'M841': 'GIGABYTE', 'M842': 'ASUS', 'M843': 'MSI', 'M844': 'GIGABYTE', 'M845': 'ASUS', 'M846': 'MSI', 'M847': 'GIGABYTE', 'M848': 'ASUS', 'M849': 'MSI', 'M850': 'GIGABYTE', 'M851': 'ASUS', 'M852': 'MSI', 'M853': 'GIGABYTE', 'M854': 'ASUS', 'M855': 'MSI', 'M856': 'GIGABYTE', 'M857': 'ASUS', 'M858': 'MSI', 'M859': 'GIGABYTE', 'M860': 'ASUS', 'M861': 'MSI', 'M862': 'GIGABYTE', 'M863': 'ASUS', 'M864': 'MSI', 'M865': 'GIGABYTE', 'M866': 'ASUS', 'M867': 'MSI', 'M868': 'GIGABYTE', 'M869': 'ASUS', 'M870': 'MSI', 'M871': 'GIGABYTE', 'M872': 'ASUS', 'M873': 'MSI', 'M874': 'GIGABYTE', 'M875': 'ASUS', 'M876': 'MSI', 'M877': 'GIGABYTE', 'M878': 'ASUS', 'M879': 'MSI', 'M880': 'GIGABYTE', 'M881': 'ASUS', 'M882': 'MSI', 'M883': 'GIGABYTE', 'M884': 'ASUS', 'M885': 'MSI', 'M886': 'GIGABYTE', 'M887': 'ASUS', 'M888': 'MSI', 'M889': 'GIGABYTE', 'M890': 'ASUS', 'M891': 'MSI', 'M892': 'GIGABYTE', 'M893': 'ASUS', 'M894': 'MSI', 'M895': 'GIGABYTE', 'M896': 'ASUS', 'M897': 'MSI', 'M898': 'GIGABYTE', 'M899': 'ASUS', 'M900': 'MSI', 'M901': 'GIGABYTE', 'M902': 'ASUS', 'M903': 'MSI', 'M904': 'GIGABYTE', 'M905': 'ASUS', 'M906': 'MSI', 'M907': 'GIGABYTE', 'M908': 'ASUS', 'M909': 'MSI', 'M910': 'GIGABYTE', 'M911': 'ASUS', 'M912': 'MSI', 'M913': 'GIGABYTE', 'M914': 'ASUS', 'M915': 'MSI', 'M916': 'GIGABYTE', 'M917': 'ASUS', 'M918': 'MSI', 'M919': 'GIGABYTE', 'M920': 'ASUS', 'M921': 'MSI', 'M922': 'GIGABYTE', 'M923': 'ASUS', 'M924': 'MSI', 'M925': 'GIGABYTE', 'M926': 'ASUS', 'M927': 'MSI', 'M928': 'GIGABYTE', 'M929': 'ASUS', 'M930': 'MSI', 'M931': 'GIGABYTE', 'M932': 'ASUS', 'M933': 'MSI', 'M934': 'GIGABYTE', 'M935': 'ASUS', 'M936': 'MSI', 'M937': 'GIGABYTE', 'M938': 'ASUS', 'M939': 'MSI', 'M940': 'GIGABYTE', 'M941': 'ASUS', 'M942': 'MSI', 'M943': 'GIGABYTE', 'M944': 'ASUS', 'M945': 'MSI', 'M946': 'GIGABYTE', 'M947': 'ASUS', 'M948': 'MSI', 'M949': 'GIGABYTE', 'M950': 'ASUS', 'M951': 'MSI', 'M952': 'GIGABYTE', 'M953': 'ASUS', 'M954': 'MSI', 'M955': 'GIGABYTE', 'M956': 'ASUS', 'M957': 'MSI', 'M958': 'GIGABYTE', 'M959': 'ASUS', 'M960': 'MSI', 'M961': 'GIGABYTE', 'M962': 'ASUS', 'M963': 'MSI', 'M964': 'GIGABYTE', 'M965': 'ASUS', 'M966': 'MSI', 'M967': 'GIGABYTE', 'M968': 'ASUS', 'M969': 'MSI', 'M970': 'GIGABYTE', 'M971': 'ASUS', 'M972': 'MSI', 'M973': 'GIGABYTE', 'M974': 'ASUS', 'M975': 'MSI
```

```

df_BB['processor'] = df_BB['processor'].str.replace('Intel', '')
df_BB['processor'] = df_BB['processor'].str.replace('AMD Ryzen', '')
df_BB['processor'] = df_BB['processor'].str.replace('Snapdragon', '')
df_BB['processor'] = df_BB['processor'].str.replace('MediaTek', '')
df_BB['processor'] = df_BB['processor'].str.replace('Ryzen', '')

df_BB['Brand'] = df_BB['Brand'].str.replace('New!', '')

df_BB['display'] = df_BB['display'].str.replace(''', '')

df_BB['storage'] = df_BB['storage'].str.replace('GB', '')
df_BB['storage'] = df_BB['storage'].str.replace('SSD', '')
df_BB['storage'] = df_BB['storage'].str.replace('Solid State Drive', '')
df_BB['storage'] = df_BB['storage'].str.replace('SDD', '')
df_BB['storage'] = df_BB['storage'].str.replace('HDD', '')
df_BB['storage'] = df_BB['storage'].str.replace('TB PCIe', 'TB')
df_BB['storage'] = df_BB['storage'].str.replace('-', '')
df_BB['storage'] = df_BB['storage'].str.replace(' ', '')
df_BB['storage'] = df_BB['storage'].str.replace('HardDrive', '')
df_BB['storage'] = df_BB['storage'].str.replace('NVMe', '')
df_BB['storage'] = df_BB['storage'].str.replace('FlashStorage', '')
df_BB['storage'] = df_BB['storage'].str.replace('TB NVMe', 'TB')
df_BB['storage'] = df_BB['storage'].str.replace('Storage', '')

def convert_tb_to_gb(storage_value):
    if 'TB' in storage_value:
        tb_value = float(storage_value.replace('TB', '').strip())
        return str(int(tb_value * 1024))
    return storage_value

df_BB['storage'] = df_BB['storage'].apply(convert_tb_to_gb)

df_BB['storage_type'] = df_BB['storage_type'].str.replace('Solid State Drive', 'SSD')

df_BB['ram'] = df_BB['ram'].str.replace('GB', '')
df_BB['ram'] = df_BB['ram'].str.replace(' ', '')

#Merging Model columns
df_BB['processor_model'] = df_BB['processor'] + ' - ' + df_BB['Model No']
df_BB = df_BB.drop(['processor', 'Model No'], axis=1)

df_BB['Price'] = df_BB['Price'].str.replace('$', '', regex=False)
df_BB['Price'] = df_BB['Price'].str.replace(',', '')

df_BB['display'] = df_BB['display'].str.replace('-Inch', '')

```

In [6]: df_BB.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1285 entries, 0 to 1284
Data columns (total 14 columns):
 #   Column           Non-Null Count  Dtype  
--- 
 0   Price            1285 non-null    object  
 1   Brand             1285 non-null    object  
 2   Colour            1285 non-null    object  
 3   ram               1285 non-null    object  
 4   storage            1285 non-null    object  
 5   display            1285 non-null    object  
 6   model              1285 non-null    object  
 7   graphics            1285 non-null    object  
 8   storage_type        1285 non-null    object  
 9   no_reviews          1285 non-null    object  
 10  Rating_5           1285 non-null    object  
 11  processor_company  1285 non-null    object  
 12  os                 1285 non-null    object  
 13  processor_model    1285 non-null    object  
dtypes: object(14)
memory usage: 140.7+ KB
```

Renaming as required

In [7]:

```
#Renaming columns for better understanding
df_BB = df_BB.rename(columns={'model': 'Laptop_name'})
df_BB = df_BB.rename(columns={'Price': 'Laptop_Price'})
df_BB = df_BB.rename(columns={'Brand': 'Laptop_Brand'})
df_BB = df_BB.rename(columns={'Price': 'Laptop_Price'})
df_BB = df_BB.rename(columns={'Colour': 'Laptop_Colour'})
df_BB = df_BB.rename(columns={'ram': 'Laptop_Memory_GB'})
df_BB = df_BB.rename(columns={'storage': 'Laptop_Storage_GB'})
df_BB = df_BB.rename(columns={'display': 'Laptop_Display_Size_in'})
df_BB = df_BB.rename(columns={'graphics': 'Laptop_Graphics'})
df_BB = df_BB.rename(columns={'no_reviews': 'No_Of_Reviews'})
df_BB = df_BB.rename(columns={'processor_company': 'Processor_Company_Name'})
df_BB = df_BB.rename(columns={'storage_type': 'Storage_Type'})
df_BB = df_BB.rename(columns={'os': 'Operating_System'})
df_BB = df_BB.rename(columns={'processor_model': 'Processor_Model'})
```

In [8]:

```
df_BB.head()
```

Out[8]:

	Laptop_Price	Laptop_Brand	Laptop_Colour	Laptop_Memory_GB	Laptop_Storage_GB	Laptop_Di
0	399.99	Dell	Black		8	512
1	549.99	Dell	Black		16	1024
2	799.99	HP	Silver		16	512
3	1099.99	HP	Silver		16	1024
4	329.99	Lenovo	Blue		8	256

Explanation for Modules

- `requests` module is to send a request to the URL to fetch the data.
- `BeautifulSoup` is a class using the object of which we will deal with the scraped HTML data.
- `re` is for using regex patterns to filter out data and create our dataframe in an organized format.
- `numpy` and `pandas` module if for manipulating data values and handling the data overall.

Data Collection and Cleaning - Amazon

- The dataset was scrapped from the Amazon website.
- Scraping and Cleaning done by:
 - Name: Shaurya Mathur
 - UB ID: 50611201

Data Collection

Scraping the URLs from Amazon website across 70 pages and fetch URLs from the paginate response

All URLs will be saved to a file and will be parsed one-by-one for detailed product specs.

Amazon Website example paginated page -

[https://www.amazon.com/s?
i=computers&rh=n%3A565108&fs=true&page=3&qid=1726990472](https://www.amazon.com/s?i=computers&rh=n%3A565108&fs=true&page=3&qid=1726990472)

NOTE - The following data collection scripts were prepared and executed outside this python notebook in my local IDE. The approximate execution time was approximately 5 hours and was run in batches. The cells with data collection scripts have not been executed in this notebook.

```
In [1]: import requests
from bs4 import BeautifulSoup
import time
import random
```

```
In [2]: headers = {
    'User-Agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/91.0.4453.102 Safari/537.36',
    'Accept': 'text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8',
    'Accept-Language': 'en-US,en;q=0.5',
    'Accept-Encoding': 'gzip, deflate, br',
    'Connection': 'keep-alive',
    'Upgrade-Insecure-Requests': '1',
    'Cache-Control': 'max-age=0'
}
all_laptop_urls = set()
```

```
In [ ]: # Function to scrape a single page
def scrape_page(url, existing_urls):
```

```

response = requests.get(url, headers=headers)

if response.status_code == 200:
    soup = BeautifulSoup(response.content, 'html.parser')
    product_links = soup.find_all('a', class_='a-link-normal s-underline-text s-link-style')
    laptop_urls = [link.get('href') for link in product_links if link.get('href')]
    laptop_urls = ['https://www.amazon.com' + url if url.startswith('/') else url]
    # Filter out URLs that are already in existing_urls
    new_laptop_urls = [url for url in laptop_urls if url not in existing_urls]

    return new_laptop_urls
else:
    print(f"Failed to download page {page_number}. Status code: {response.status_code}")
    return []

```

In []:

```

# Loop through 70 pages
for page_number in range(70):
    print(f"Scraping page {page_number}...")
    url = f'https://www.amazon.com/s?i=computers&rh=n%3A565108&fs=true&page={page_number}'
    page_urls = scrape_page(url, all_laptop_urls)

    # Check if the page has less than 20 URLs.
    # Sometimes due to ads and different product categories - Amazon displays products in multiple pages
    # This check is added to ensure we scrape more than 20 URLs per pagination
    if len(page_urls) < 20:
        print(f"Warning: Page {page_number} has less than 20 URLs.")
        print(f"URL: {url}")
        # Added to manually check what went wrong with the URL, why it has less than 20 URLs
        input("Press Enter to continue...")

    # Add URLs to the set
    all_laptop_urls.update(page_urls)

    # Append URLs to a file - we will iterate and scrape these again to fetch product details
    with open('laptop_urls.txt', 'a') as file:
        for url in page_urls:
            file.write(url + '\n')

    # Add a delay between requests to avoid overwhelming the server and getting blocked
    time.sleep(random.uniform(1, 5))

print(f"Scraped a total of {len(all_laptop_urls)} unique laptop URLs.")
print(f"All URLs have been appended to laptop_urls.txt")

```

Read the .txt file and scrape individual product specs.

In []:

```

import requests
from bs4 import BeautifulSoup
import time
import random
import os
import csv

```

In []:

```

# This was a time consuming script and was thus run in multiple batches
# Output file name is to ensure each batch gets its own file name, we will combine them later
output_file = 'final_laptop_data_unprocessed_4.csv'

# For ensuring correct batching while reading URLs from the file.
start_index = 0
end_index = 100

```

```
In [4]: # Amazon blocks if same user agent is used. To avoid this, I use user agents in random
user_agents = [
    'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4515.159 Safari/537.36',
    'Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/605.1.15 (KHTML, like Gecko) Version/14.1.2 Safari/537.36',
    'Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4515.159 Safari/537.36',
    'Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Version/14.1.2 Safari/537.36'
]
```

```
In [ ]: def scrape_laptop_info(url):

    headers = {
        'User-Agent': random.choice(user_agents),
        'Accept': 'text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8',
        'Accept-Language': 'en-US,en;q=0.5',
        'Accept-Encoding': 'gzip, deflate, br',
        'Connection': 'keep-alive',
        'Upgrade-Insecure-Requests': '1',
        'Cache-Control': 'max-age=0',
        'Cookie': 'x-amz-captcha-1=1724354575099927; x-amz-captcha-2=SQkSw6jFuY811RL'
    }

    response = requests.get(url, headers=headers)
    if response.status_code != 200:
        print(f"Failed to fetch the page. Status code: {response.status_code}")
        return

    soup = BeautifulSoup(response.content, 'html.parser')
    # Extract product information
    title = soup.find('span', {'id': 'productTitle'}).text.strip() if soup.find('span', {'id': 'productTitle'}) else None
    if title == 'N/A':
        return None
    try:
        priceWhole = soup.find('span', class_='a-price-whole').text.replace(',', '')
        priceDecimal = soup.find('span', class_='a-price-fraction').text.strip()

        if priceWhole != 'N/A' and priceDecimal != 'N/A':
            price = f"{float(priceWhole) + float(priceDecimal)/100:.2f}"
        else:
            price = 'N/A'
    except AttributeError:
        price = 'N/A'

    rating = soup.find('span', {'class': 'a-icon-alt'}).text.strip() if soup.find('span', {'class': 'a-icon-alt'}) else None
    typicalPrice = 'N/A'
    # Look for 'Typical Price' or 'List Price' - This is the usual price without the discount
    price_labels = soup.find_all('span', class_='a-size-small aok-offscreen')
    for label in price_labels:
        if 'Typical Price'.lower() in label.text.lower() or 'List Price'.lower() in label.text.lower():

            if 'Typical Price'.lower() in label.text.lower() or 'List Price'.lower() in label.text.lower():
                typicalPriceText = label.text.strip()
                if ':' in typicalPriceText:
                    typicalPrice = typicalPriceText.split(':')[1].strip()
                else:
                    typicalPrice = typicalPriceText.split(' ')[-1].strip()
            break

    # Extract product details
    details = {}
    detail_bullets = soup.find('table', {'class': 'a-normal a-spacing-micro'})
    if detail_bullets:
        for tr in detail_bullets.find_all('tr'):
```

```

key = tr.find('td', {'class': 'a-span3'}).text.strip().replace(':', '')
value = tr.find('td', {'class': 'a-span9'}).text.strip().replace('\u200e', '')
details[key] = value

# Extract technical details
tech_details = {}
tech_table = soup.find('table', {'id': 'productDetails_techSpec_section_1'})
if tech_table:
    for row in tech_table.find_all('tr'):
        key = row.find('th').text.strip().replace('&lrm;', '')
        value = row.find('td').text.strip().replace('\u200e', '').replace(':', '')
        tech_details[key] = value

# Extract other technical details
other_tech_details = {}
other_tech_table = soup.find('table', {'id': 'productDetails_techSpec_section_2'})
if other_tech_table:
    for row in other_tech_table.find_all('tr'):
        key = row.find('th').text.strip().replace('&lrm;', '')
        value = row.find('td').text.strip().replace('\u200e', '').replace(':', '')
        other_tech_details[key] = value

# Extract Additional details
additional_details = {}
additional_details_table = soup.find('table', {'id': 'productDetails_detailBul'})
if additional_details_table:
    for row in additional_details_table.find_all('tr'):
        key = row.find('th').text.strip().replace('&lrm;', '')
        value = row.find('td').text.strip().replace('\u200e', '').replace(':', '')
        additional_details[key] = value

# Update - New Amazon UI Structure
newProdDetails = {}
newProdDetailsTableList = soup.find_all('table', class_= 'a-keyvalue prodDetTa')
if newProdDetailsTableList:
    for newProdDetailsTable in newProdDetailsTableList:
        for row in newProdDetailsTable.find_all('tr'):
            key = row.find('th').text.strip().replace('&lrm;', '')
            value = row.find('td').text.strip().replace('\u200e', '').replace(':', '')
            newProdDetails[key] = value

# Combine all information
laptop_info = {
    'Title': title,
    'Price': price,
    'Rating': rating,
    'Product Details': details,
    'Technical Details': tech_details,
    'Typical Price': typicalPrice,
    'Additional Details': additional_details,
    'Other Technical Details': other_tech_details,
    'New Product Details': newProdDetails,
    'URL': url
}

return laptop_info

```

In [5]: #Since we constructed a nested map, we will flatten the keys.

```

def flatten_dict(d, parent_key='', sep='_'):
    items = []
    for k, v in d.items():
        new_key = f'{parent_key}{sep}{k}' if parent_key else k
        if isinstance(v, dict):
            items.extend(flatten_dict(v, new_key, sep=sep).items())
        else:
            items.append((new_key, v))
    return items

```

```

    else:
        items.append((new_key, v))
return dict(items)

```

```

In [67]: def process_all_urls():
new_data = []
try:
    # Read the file with all Product URLs
    with open('laptop_urls.txt', 'r') as file:
        urls = file.readlines()

    file_exists = os.path.exists(output_file)

    # These are headers(product detail keys) received as per multiple iteration
    # But since the Amazon UI structure is dynamic and kept changing for multiple iterations
    # So after scraping of each batch the generated csv file can potentially have different headers
    # We won't worry about, we can handle this in the cleaning phase.
    existing_headers = ['Additional Details_ASIN', 'Additional Details_Batteries']

    all_headers = set(existing_headers)

    # Process all URLs first to collect all possible headers and add data to an array
    for index, url in enumerate(urls[start_index:end_index + 1], start=start_index):
        print(f"Processing URL # {index} : {url}")
        info = scrape_laptop_info(url)
        if info:
            flat_info = flatten_dict(info)
            all_headers.update(flat_info.keys())
            new_data.append(flat_info)
        else:
            print(f"No data found for URL # {index}")

        with open('final_unprocessed_urls2.txt', 'a') as unprocessed_file:
            unprocessed_file.write(f"{url}\n")

        time.sleep(random.uniform(0, 2))

except FileNotFoundError:
    print("No laptop_urls.txt file found.")
    return
finally: # Finally block incase of script execution interruption or failure, we write the header
    # If new headers were found or file doesn't exist, write/update the header
    if not file_exists or new_data:
        mode = 'w' if not file_exists else 'r+'
        with open(output_file, mode, newline='', encoding='utf-8') as csvfile:
            # Convert all_headers to a list and sort it for consistency
            all_headers = sorted(list(all_headers))
            writer = csv.DictWriter(csvfile, fieldnames=all_headers)

            if not file_exists:
                writer.writeheader()

            if file_exists:
                csvfile.seek(0, 2)

            for row in new_data:
                complete_row = {header: row.get(header, '') for header in all_headers}
                writer.writerow(complete_row)

```

```

In [ ]: # Call the function to process all URLs from the .txt file
process_all_urls()

```

Data Cleaning

```
In [68]: import pandas as pd
import numpy as np

masterDataFilePath = './final_laptop_data.csv'

masterDF = pd.read_csv(masterDataFilePath)

# After the 1st scraping, Amazon changed their UI structure, had to scrape again for
# Each file has different headers(keys of product specs)
unprocessedDf1 = pd.read_csv('./final_laptop_data_unprocessed_3.csv')
unprocessedDf2 = pd.read_csv('./final_laptop_data_unprocessed_4.csv')

df = pd.concat([masterDF, unprocessedDf1, unprocessedDf2], ignore_index=True, sort=False)

# Set the display options
pd.set_option('display.max_columns', None)
pd.set_option('display.max_colwidth', None)
pd.set_option('display.expand_frame_repr', False)
pd.set_option('future.no_silent_downcasting', True)

df.head()
```

Out[68]:

	Additional Details_ASIN	Additional Details_Batteries	Additional Details_Batteries required	Additional Details_Best Sellers Rank	Additional Details_Customer Reviews	Additional Details_Date First Available
0	B0D8VSDCMK	NaN	NaN	#81,691 in Computers & Accessories (See Top 100 in Computers & Accessories) #16,532 in Traditional Laptop Computers	5.0 5.0 out of 5 stars \n 1 rating \n\n\n 5.0 out of 5 stars	July 5, 2024
1	B0D87RK5Q8	NaN	NaN	#5,653 in Computers & Accessories (See Top 100 in Computers & Accessories) #670 in Traditional Laptop Computers	4.1 4.1 out of 5 stars \n 13 ratings \n\n\n 4.1 out of 5 stars	June 27, 2024
2	B0DFWGCBZ	NaN	NaN	#46,159 in Computers & Accessories (See Top 100 in Computers & Accessories) #8,150 in Traditional Laptop Computers	5.0 5.0 out of 5 stars \n 5 ratings \n\n\n 5.0 out of 5 stars	August 29, 2024

Additional Details_ASIN	Additional Details_Batteries	Additional Details_Batteries required	Additional Details_Best Sellers Rank	Additional Details_Customer Reviews	Additional Details_Date First Available
3	NaN	NaN	NaN	NaN	NaN
4	NaN	NaN	NaN	NaN	NaN

In [8]: df.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2151 entries, 0 to 2150
Columns: 250 entries, Additional_Details_ASIN to New_Product_Details_Wireless_Communication_Technology
dtypes: float64(34), object(216)
memory usage: 4.1+ MB
```

In [9]: `df.describe()`

Out[9]:

	Additional_Details_Included_Components	Additional_Details_Number_of_Ports	Additional_Details_Total_Usb_Ports	Additional_Details_Warranty_Description	Other_Technical_Details_Audio-out_Ports_(#)	Other_Tech_Details_Number_of_Proc
count	4.0	4.000000	10.000000	4.0	10.000000	1939.0
mean	1.0	4.000000	2.700000	1.0	1.100000	6.3
std	0.0	1.414214	0.948683	0.0	0.316228	4.6
min	1.0	2.000000	1.000000	1.0	1.000000	1.0
25%	1.0	3.500000	3.000000	1.0	1.000000	2.0
50%	1.0	4.500000	3.000000	1.0	1.000000	4.0
75%	1.0	5.000000	3.000000	1.0	1.000000	10.0
max	1.0	5.000000	4.000000	1.0	2.000000	64.0

In [10]: `# Create a show_summary function since info() was not giving desired results`

```
def showSummary(df):
    summary = pd.DataFrame({
        'Column': df.columns,
        'Non-Null Count': df.count(),
        'Null Count': df.isnull().sum(),
        'Dtype': df.dtypes,
        'Unique Values': df.nunique(),
    })

    summary['Null Percentage'] = (summary['Null Count'] / len(df)) * 100

    summary = summary[['Column', 'Non-Null Count', 'Null Count', 'Null Percentage',
                      'Dtype', 'Unique Values']]
    summary = summary.sort_values('Non-Null Count', ascending=False)

    print(summary.to_string(index=False))
showSummary(df)
```

	Count	Null	Percentage	Dtype	Unique Values	Column	Non-Null Count	Nu
0	0.000000	object	1416		Title	2151		
0	0.000000	object	21		Rating	2151		
0	0.000000	object	1987		URL	2151		
1	0.046490	float64	906		Price	2150		
11	0.511390	object	74		Product Details_Brand	2140		
14	0.650860	object	49		Product Details_Screen Size	2137		
71	3.300790	object	817		Product Details_Model Name	2080		
139	6.462111	object	18		Product Details_Ram Memory Installed Size	2012		
144	6.694561	object	47		Product Details_Operating System	2007		
150	6.973501	object	34		Product Details_Graphics Card Description	2001		
156	7.252441	object	1393		Additional Details_ASIN	1995		
160	7.438401	object	708		Additional Details_Date First Available	1991		
165	7.670851	object	118		Product Details_CPU Model	1986		
178	8.275221	object	73		Other Technical Details_Brand	1973		
179	8.321711	object	48		Technical Details_Standing screen display size	1972		
192	8.926081	object	63		Technical Details_Hard Drive	1959		
196	9.112041	object	508		Technical Details_Processor	1955		
198	9.205021	object	1414		Additional Details_Best Sellers Rank	1953		
202	9.390981	object	46		Other Technical Details_Operating System	1949		
207	9.623431	object	800		Other Technical Details_Product Dimensions	1944		
207	9.623431	object	800		Other Technical Details_Item Dimensions LxWxH	1944		
208	9.669921	object	16		Other Technical Details_Processor Brand	1943		
210	9.762901	object	32		Technical Details_Card Description	1941		
210	9.762901	object	345		Other Technical Details_Item Weight	1941		
212	9.855881	float64	14		Other Technical Details_Number of Processors	1939		
215	9.995351	object	811		Other Technical Details_Series	1936		
216	10.041841	object	24		Product Details_Hard Disk Size	1935		
221	10.274291	object	148		Technical Details_RAM	1930		
281	13.063691	object	103		Technical Details_Max Screen Resolution	1870		
282	13.110181	object	21		Technical Details_Chipset Brand	1869		
425	19.758252	object	856		Additional Details_Customer Reviews	1726		

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			Technical Details_Graphics Coprocessor	1708
443	20.595072	object	210	
			Other Technical Details_Computer Memory Type	1695
456	21.199442	object	15	
			Other Technical Details_Item model number	1659
492	22.873082	object	887	
			Product Details_Special Feature	1618
533	24.779172	object	316	
			Technical Details_Screen Resolution	1612
539	25.058113	object	65	
			Product Details_Color	1604
547	25.430033	object	166	
			Other Technical Details_Color	1558
593	27.568573	object	166	
			Other Technical Details_Hard Drive Interface	1510
641	29.800093	object	29	
			Technical Details_Number of USB 3.0 Ports	1342
809	37.610414	float64	6	
			Technical Details_Wireless Type	1322
829	38.540214	object	64	
			Other Technical Details_Hardware Platform	1272
879	40.864714	object	10	
			Other Technical Details_Batteries	1104
1047	48.675035	object	22	
			Other Technical Details_Optical Drive Type	997
1154	53.649465	object	41	
			Other Technical Details_Flash Memory Size	945
1206	56.066946	object	38	
			Technical Details_Memory Speed	737
1414	65.736867	object	63	
			Other Technical Details_Power Source	718
1433	66.620177	object	4	
			Other Technical Details_Voltage	650
1501	69.781497	object	70	
			Technical Details_Graphics Card Ram Size	588
1563	72.663877	object	37	
			Technical Details_Number of USB 2.0 Ports	533
1618	75.220828	float64	4	
			Product Details_Graphics Coprocessor	524
1627	75.639238	object	99	
			Technical Details_Average Battery Life (in hours)	483
1668	77.545328	object	69	
			Typical Price	370
1781	82.798698	object	203	
			Product Details_CPU Speed	308
1843	85.681079	object	58	
			Other Technical Details_Hard Drive Rotational Speed	162
1989	92.468619	object	28	
			New Product Details_ASIN	146
2005	93.212459	object	82	
			New Product Details_Best Sellers Rank	140
2011	93.491399	object	80	
			Product Details_Hard Disk Description	138
2013	93.584379	object	4	
			New Product Details_Manufacturer	135
2016	93.723849	object	25	
			New Product Details_Brand Name	133
2018	93.816829	object	19	
			New Product Details_Customer Reviews	132
2019	93.863319	object	61	
			New Product Details_Screen Size	132
2019	93.863319	object	22	
			New Product Details_Operating System	125
2026	94.188749	object	11	

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			New Product Details_Video Processor	125
2026	94.188749	object	8	
			New Product Details_Processor Brand	124
2027	94.235239	object	6	
			New Product Details_Display Resolution Maximum	119
2032	94.467689	object	28	
			New Product Details_Color	119
2032	94.467689	object	28	
			New Product Details_RAM Memory Installed	119
2032	94.467689	object	10	
			New Product Details_Processor Speed	117
2034	94.560669	object	31	
			New Product Details_Graphics Description	117
2034	94.560669	object	4	
			New Product Details_Model Name	116
2035	94.607159	object	53	
			New Product Details_Display Type	109
2042	94.932589	object	7	
			New Product Details_Item Dimensions L x W x Thickness	104
2047	95.165040	object	49	
			New Product Details_Additional Features	103
2048	95.211530	object	33	
			New Product Details_Total Usb Ports	101
2050	95.304510	float64	4	
			New Product Details_CPU Model Number	101
2050	95.304510	object	43	
			New Product Details_Included Components	99
2052	95.397490	object	45	
			New Product Details_Connectivity Technology	97
2054	95.490470	object	22	
			New Product Details_Battery Cell Type	94
2057	95.629940	object	2	
			Product Details_Memory Storage Capacity	94
2057	95.629940	object	5	
			New Product Details_Specific Uses For Product	93
2058	95.676430	object	23	
			Product Details_Display Resolution Maximum	90
2061	95.815900	object	4	
			New Product Details_Wireless Technology	89
2062	95.862390	object	7	
			New Product Details_Human-Interface Input	88
2063	95.908880	object	20	
			New Product Details_Audio Output Type	87
2064	95.955370	object	9	
			New Product Details_Model Year	87
2064	95.955370	float64	9	
			New Product Details_UPC	87
2064	95.955370	float64	70	
			New Product Details_Native Resolution	86
2065	96.001860	object	21	
			New Product Details_RAM Memory Technology	84
2067	96.094840	object	14	
			New Product Details_Model Number	84
2067	96.094840	object	63	
			New Product Details_Hard-Drive Size	83
2068	96.141330	object	11	
			New Product Details_Processor Count	82
2069	96.187820	float64	10	
			New Product Details_Resolution	80
2071	96.280800	object	15	
			New Product Details_Hard Disk Description	80
2071	96.280800	object	6	
			New Product Details_RAM Type	79
2072	96.327290	object	9	

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		New Product Details_Graphics Coprocessor	78
2073	96.373780	object 31	
2075	96.466760	object 14	76
2075	96.466760	object 12	76
2078	96.606230	object 20	73
2083	96.838680	object 11	68
		New Product Details_Ram Memory Maximum Size	
2084	96.885170	object 2	67
2084	96.885170	object 16	67
2086	96.978150	object 9	65
		New Product Details_Control Method	
2091	97.210600	object 13	60
		New Product Details_Lithium-Battery Energy Content	
2095	97.396560	object 17	56
		New Product Details_Automatic Backup Software Included	
2098	97.536030	object 18	53
		New Product Details_Item Weight	
2098	97.536030	object 29	53
		Product Details_Item Weight	
2099	97.582520	object 31	52
		New Product Details_Graphics Ram Type	
2099	97.582520	object 7	52
		New Product Details_Webcam Capability	
2100	97.629010	object 2	51
		New Product Details_Keyboard Layout	
2100	97.629010	object 1	51
		New Product Details_Display Technology	
2103	97.768480	object 9	48
		Product Details_Resolution	
2103	97.768480	object 8	48
		Other Technical Details_Rear Webcam Resolution	
2103	97.768480	object 10	48
		New Product Details_Video Output	
2105	97.861460	object 9	46
		New Product Details_Memory Slots Available	
2106	97.907950	object 3	45
		New Product Details_Bluetooth support?	
2106	97.907950	object 2	45
		New Product Details_Power Device	
2107	97.954440	object 12	44
		New Product Details_Screen Finish	
2112	98.186890	object 14	39
		New Product Details_Number of Ports	
2112	98.186890	float64 6	39
		New Product Details_Has Color Screen	
2113	98.233380	object 1	38
		New Product Details_CPU Model Speed Maximum	
2114	98.279870	object 14	37
		New Product Details_Total Number of HDMI Ports	
2114	98.279870	float64 1	37
		New Product Details_Microphone Form Factor	
2116	98.372850	object 11	35
		New Product Details_Memory Storage Capacity	
2117	98.419340	object 3	34
		New Product Details_Processor Description	
2117	98.419340	object 2	34
		New Product Details_Age Range Description	
2117	98.419340	object 1	34

		New Product Details_Hardware Interface	34
2117	98.419340	object	3
2117		New Product Details_Wireless Communication Technology	34
2117	98.419340	object	1
		Product Details_Total USB Ports	34
2117	98.419340	float64	3
		New Product Details_CPU Model Generation	34
2117	98.419340	object	18
		New Product Details_Audio features	31
2120	98.558810	object	24
		New Product Details_Audio Recording	31
2120	98.558810	object	2
		New Product Details_Wi-Fi Generation	29
2122	98.651790	object	13
		New Product Details_Bluetooth Version	28
2123	98.698280	float64	5
		New Product Details_Hardware Connectivity	28
2123	98.698280	object	21
		Other Technical Details_Package Dimensions	27
2124	98.744770	object	19
		New Product Details_Optical Storage Device	26
2125	98.791260	object	5
		Product Details_Connectivity Technology	25
2126	98.837750	object	8
		New Product Details_Battery Average Life	25
2126	98.837750	object	15
		New Product Details_RAM Memory Slot Total Count	23
2128	98.930730	float64	3
		New Product Details_Supported Monitor Maximum Quantity	22
2129	98.977220	float64	4
		New Product Details_Chipset Type	21
2130	99.023710	object	16
		New Product Details_Speaker Description	21
2130	99.023710	object	14
		Additional Details_Item Weight	20
2131	99.070200	object	13
		Additional Details_Manufacturer	20
2131	99.070200	object	8
		New Product Details_Warranty Type	20
2131	99.070200	object	2
		New Product Details_Voltage	19
2132	99.116690	object	13
		New Product Details_Total Thunderbolt Ports	17
2134	99.209670	float64	2
		Product Details_Graphics Processor Manufacturer	17
2134	99.209670	object	2
		Additional Details_Product Dimensions	17
2134	99.209670	object	11
		New Product Details_Memory Clock Speed	16
2135	99.256160	object	5
		New Product Details_Is Electric	15
2136	99.302650	object	1
		Additional Details_Item model number	14
2137	99.349140	object	8
		New Product Details_Biometric Security Feature	14
2137	99.349140	object	3
		Technical Details_Product Dimensions	13
2138	99.395630	object	7
		New Product Details_Memory Speed	13
2138	99.395630	object	8
		Product Details_Processor Count	13
2138	99.395630	float64	6
		Technical Details_Item model number	13
2138	99.395630	object	13

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			Technical Details_Item	Weight	
2138	99.395630	object	11		13
		Additional Details_ Standing screen display size			13
2138	99.395630	object	6		
		New Product Details_Graphics Card Ram			12
2139	99.442120	object	7		
		Technical Details_Manufacturer			12
2139	99.442120	object	1		
		New Product Details_CPU Codename			12
2139	99.442120	object	10		
		Technical Details_Date First Available			12
2139	99.442120	object	8		
		New Product Details_Front Photo Sensor Resolution			12
2139	99.442120	object	4		
		New Product Details_Number Of Cells			12
2139	99.442120	float64	6		
		New Product Details_Refresh Rate			12
2139	99.442120	object	5		
		Technical Details_ASIN			12
2139	99.442120	object	12		
		New Product Details_Hard Drive			11
2140	99.488610	object	2		
		New Product Details_Product Dimensions			11
2140	99.488610	object	2		
		New Product Details_Number of USB 3.0 Ports			11
2140	99.488610	float64	2		
		New Product Details_Max Screen Resolution			11
2140	99.488610	object	2		
		New Product Details_Processor			11
2140	99.488610	object	2		
		New Product Details_Brand			11
2140	99.488610	object	2		
		New Product Details_Item Dimensions_LxWxH			11
2140	99.488610	object	2		
		New Product Details_RAM			11
2140	99.488610	object	2		
		New Product Details_Card Description			11
2140	99.488610	object	1		
		New Product Details_Chipset Brand			11
2140	99.488610	object	2		
		New Product Details_ Standing screen display size			11
2140	99.488610	object	2		
		New Product Details_Date First Available			11
2140	99.488610	object	2		
		New Product Details_Series			11
2140	99.488610	object	2		
		New Product Details_Flash Memory Size			11
2140	99.488610	object	2		
		New Product Details_Number of Processors			11
2140	99.488610	float64	1		
		New Product Details_Number of USB 2.0 Ports			11
2140	99.488610	float64	2		
		Additional Details_Batteries			11
2140	99.488610	object	3		
		Technical Details_Batteries			11
2140	99.488610	object	3		
		Additional Details_Ram Memory Installed Size			11
2140	99.488610	object	5		
		New Product Details_Optical Drive Type			10
2141	99.535100	object	1		
		Additional Details_Processor Speed			10
2141	99.535100	object	7		
		Additional Details_Hard Drive Size			10
2141	99.535100	object	5		

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	New Product Details_Notebook Pointing Device Description	10
2141	99.535100 object 5	
	Additional Details_Total Usb Ports	10
2141	99.535100 float64 3	
	Other Technical Details_Audio-out Ports (#)	10
2141	99.535100 float64 2	
	New Product Details_Batteries	10
2141	99.535100 object 1	
	Product Details_Specific Uses For Product	9
2142	99.581590 object 3	
	Additional Details_Resolution	9
2142	99.581590 object 5	
	New Product Details_Touchpad Feature	9
2142	99.581590 object 5	
	New Product Details_Hard Disk Rotational Speed	8
2143	99.628080 object 3	
	Additional Details_Graphics Card Ram Size	8
2143	99.628080 object 3	
	Product Details_Human Interface Input	8
2143	99.628080 object 4	
	Product Details_Battery Cell Composition	8
2143	99.628080 object 1	
	New Product Details_Screen Bezel Thickness	7
2144	99.674570 object 6	
	New Product Details_Cellular Technology	7
2144	99.674570 object 3	
	Technical Details_Country of Origin	7
2144	99.674570 object 1	
	New Product Details_Battery Average Life Standby	7
2144	99.674570 object 3	
	Product Details_RAM Memory Technology	7
2144	99.674570 object 3	
	Additional Details_Is Discontinued By Manufacturer	7
2144	99.674570 object 1	
	New Product Details_Maximum Display Brightness	6
2145	99.721060 object 4	
	Product Details_Has webcam capability?	6
2145	99.721060 object 1	
	Additional Details_Scanner Resolution	6
2145	99.721060 object 2	
	New Product Details_Touch Screen Type	6
2145	99.721060 object 4	
	New Product Details_Virtual Reality Ready	5
2146	99.767550 object 1	
	Product Details_Manufacturer	5
2146	99.767550 object 3	
	Product Details_Lithium Battery Energy Content	4
2147	99.814040 object 2	
	Additional Details_Number of Ports	4
2147	99.814040 float64 3	
	Product Details_Memory Slots Available	4
2147	99.814040 object 3	
	New Product Details_Rear Facing Camera Photo Sensor Resolution	4
2147	99.814040 object 2	
	Product Details_Wireless Communication Technology	4
2147	99.814040 object 1	
	New Product Details_Number of Ethernet Ports	4
2147	99.814040 float64 2	
	Additional Details_Form Factor	4
2147	99.814040 object 1	
	Additional Details_Batteries required	4
2147	99.814040 object 1	
	Additional Details_Specific instructions for use	4
2147	99.814040 object 1	

		Additional Details_Warranty Description	4
2147	99.814040	float64	1
		Additional Details_Included Components	4
2147	99.814040	float64	1
		Product Details_Display resolution	4
2147	99.814040	object	1
		New Product Details_Cache Memory Installed Size	3
2148	99.860530	object	2
		New Product Details_CPU L3 Cache	3
2148	99.860530	object	3
		Product Details_Cache Size	3
2148	99.860530	object	1
		Product Details_RAM Type	3
2148	99.860530	object	2
		New Product Details_Style Number	2
2149	99.907020	object	2
		Technical Details_National Stock Number	2
2149	99.907020	object	2
		New Product Details_Total PCIe Ports	2
2149	99.907020	float64	1
		New Product Details_Sensor Type	2
2149	99.907020	object	1
		New Product Details_Aspect Ratio	2
2149	99.907020	float64	1
		New Product Details_Photo Sensor Resolution	2
2149	99.907020	object	2
		New Product Details_Number of Drivers	2
2149	99.907020	float64	1
		New Product Details_Available M2 Slot Count	2
2149	99.907020	float64	1
		New Product Details_Series Number	2
2149	99.907020	float64	2
		New Product Details_Number of Rear Facing Cameras	1
2150	99.953510	float64	1
		New Product Details_LAN Port Bandwidth	1
2150	99.953510	object	1
		New Product Details_Item model number	1
2150	99.953510	object	1
		New Product Details_Hard Drive Rotational Speed	1
2150	99.953510	object	1
		New Product Details_Hard Drive Interface	1
2150	99.953510	object	1
		New Product Details_Global Trade Identification Number	1
2150	99.953510	float64	1
		New Product Details_Generation	1
2150	99.953510	object	1
		New Product Details_Video Capture Resolution	1
2150	99.953510	object	1
		New Product Details_Display Refresh Rate in Hertz	1
2150	99.953510	float64	1
		New Product Details_Battery Power	1
2150	99.953510	object	1
		New Product Details_Battery Capacity	1
2150	99.953510	object	1

Most products on amazon have details in an unstructured manner and there is no fixed structure to scrape these details. Thus I have details across multiple columns.

I will combine these scattered product details into 1 column

In [12]: `columns = list(df.columns)`

```
In [13]: # For Brand Name
brandColumnsFiltered = [brand for brand in columns if 'Brand'.lower() in brand.lower()]
brandColumnsFiltered
```

```
Out[13]: ['Other Technical Details_Brand',
 'Other Technical Details_Processor Brand',
 'Product Details_Brand',
 'Technical Details_Chipset Brand',
 'New Product Details_Brand Name',
 'New Product Details_Processor Brand',
 'New Product Details_Brand',
 'New Product Details_Chipset Brand']
```

```
In [14]: brandColumns = ['Other Technical Details_Brand', 'Product Details_Brand', 'New Product Details_Brand']
# Creating the new column with any non-nan value found from the chosen columns associated with each row
df = df.copy()
df['Brand'] = df[brandColumns].bfill(axis=1).iloc[:,0]
```

```
In [15]: # For Processor Brand
processorColumnsFiltered = [processor for processor in columns if 'Processor'.lower() in processor.lower()]
processorColumnsFiltered
```

```
Out[15]: ['Additional Details_Processor Speed',
 'Other Technical Details_Number of Processors',
 'Other Technical Details_Processor Brand',
 'Product Details_CPU Model',
 'Product Details_CPU Speed',
 'Product Details_Graphics Coprocessor',
 'Product Details_Graphics Processor Manufacturer',
 'Product Details_Processor Count',
 'Technical Details_Graphics Coprocessor',
 'Technical Details_Processor',
 'New Product Details_CPU Model Generation',
 'New Product Details_CPU Model Number',
 'New Product Details_CPU Model Speed Maximum',
 'New Product Details_Graphics Coprocessor',
 'New Product Details_Processor Brand',
 'New Product Details_Processor Count',
 'New Product Details_Processor Series',
 'New Product Details_Processor Speed',
 'New Product Details_Video Processor',
 'New Product Details_CPU Codename',
 'New Product Details_CPU L3 Cache',
 'New Product Details_Number of Processors',
 'New Product Details_Processor',
 'New Product Details_Processor Description']
```

```
In [16]: processorBrandColumns = ['Other Technical Details_Processor Brand', 'New Product Details_Processor Brand']
df = df.copy()
df['Processor_Brand'] = df[processorBrandColumns].bfill(axis=1).iloc[:,0]
```

```
In [17]: # For Processor Model
processorModelColumns = ['New Product Details_CPU Model Number', 'Product Details_Chipset Model Number']
df = df.copy()
df['Processor_Model'] = df[processorModelColumns].bfill(axis=1).iloc[:,0]
df.head(2)
```

Out[17]:

	Additional Details_ASIN	Additional Details_Batteries	Additional Details_Batteries required	Additional Details_Best Sellers Rank	Additional Details_Customer Reviews	Additional Details_Date First Available
0	B0D8VSDCMK	NaN	NaN	#81,691 in Computers & Accessories (See Top 100 in Computers & Accessories) #16,532 in Traditional Laptop Computers	5.0 5.0 out of 5 stars \n 1 rating \n\n\n 5.0 out of 5 stars	July 5, 2024
1	B0D87RK5Q8	NaN	NaN	#5,653 in Computers & Accessories (See Top 100 in Computers & Accessories) #670 in Traditional Laptop Computers	4.1 4.1 out of 5 stars \n 13 ratings \n\n\n 4.1 out of 5 stars	June 27, 2024

In [18]:

```
# For OS
osColumnsFiltered = [os for os in columns if 'operating'.lower() in os.lower()]
```

Out[18]:

```
['Other Technical Details_Operating System',
 'Product Details_Operating System',
 'New Product Details_Operating System']
```

```
In [19]: osColumns = ['Other Technical Details_Operating System', 'Product Details_Operating System']
df = df.copy()
df['Operating_System'] = df[osColumns].bfill(axis=1).iloc[:,0]
```

```
In [20]: # For RAM
RAMColumnsFiltered = [ram for ram in columns if 'ram'.lower() in ram.lower()]
RAMColumnsFiltered
```

```
Out[20]: ['Additional Details_Graphics Card Ram Size',
 'Additional Details_Ram Memory Installed Size',
 'Product Details_RAM Memory Technology',
 'Product Details_RAM Type',
 'Product Details_Ram Memory Installed Size',
 'Technical Details_Graphics Card Ram Size',
 'Technical Details_RAM',
 'New Product Details_Graphics Ram Type',
 'New Product Details_RAM Memory Installed',
 'New Product Details_RAM Memory Slot Total Count',
 'New Product Details_RAM Memory Technology',
 'New Product Details_RAM Type',
 'New Product Details_Ram Memory Maximum Size',
 'New Product Details_Graphics Card Ram',
 'New Product Details_RAM']
```

```
In [21]: ramColumns = ['Product Details_Ram Memory Installed Size', 'Product Details_Memory Size']
df = df.copy()
df['RAM_Size'] = df[ramColumns].bfill(axis=1).iloc[:,0]
```

```
In [22]: # For Storage
storageColumnsFiltered = [storage for storage in columns if 'storage'.lower() in storage.lower()]
storageColumnsFiltered
```

```
Out[22]: ['Additional Details_Hard Drive Size',
 'Other Technical Details_Hard Drive Interface',
 'Other Technical Details_Hard Drive Rotational Speed',
 'Other Technical Details_Optical Drive Type',
 'Product Details_Hard Disk Description',
 'Product Details_Hard Disk Size',
 'Product Details_Memory Storage Capacity',
 'Technical Details_Hard Drive',
 'New Product Details_Hard Disk Description',
 'New Product Details_Hard Disk Interface',
 'New Product Details_Hard-Drive Size',
 'New Product Details_Number of Drivers',
 'New Product Details_Optical Storage Device',
 'New Product Details_Hard Disk Rotational Speed',
 'New Product Details_Hard Drive',
 'New Product Details_Hard Drive Interface',
 'New Product Details_Hard Drive Rotational Speed',
 'New Product Details_Memory Storage Capacity',
 'New Product Details_Optical Drive Type']
```

```
In [23]: storageColumns = ['Technical Details_Hard Drive', 'Additional Details_Hard Drive Size']
df = df.copy()
df['Storage'] = df[storageColumns].bfill(axis=1).iloc[:,0]
```

```
In [24]: # For Display
displayColumnsFiltered = [storage for storage in columns if 'display'.lower() in storage.lower()]
displayColumnsFiltered
```

```
Out[24]: ['Additional Details_Standing screen display size',
 'Product Details_Display Resolution Maximum',
 'Product Details_Display resolution',
 'Product Details_Screen Size',
 'Technical Details_Max Screen Resolution',
 'Technical Details_Screen Resolution',
 'Technical Details_Standing screen display size',
 'New Product Details_Display Resolution Maximum',
 'New Product Details_Display Technology',
 'New Product Details_Display Type',
 'New Product Details_Has Color Screen',
 'New Product Details_Screen Finish',
 'New Product Details_Screen Size',
 'New Product Details_Display Refresh Rate in Hertz',
 'New Product Details_Max Screen Resolution',
 'New Product Details_Maximum Display Brightness',
 'New Product Details_Screen Bezel Thickness',
 'New Product Details_Standing screen display size',
 'New Product Details_Touch Screen Type']
```

```
In [25]: displaySizeColumns = ['Product Details_Screen Size', 'Technical Details_Standing scr
df = df.copy()
df['Display_size'] = df[displaySizeColumns].bfill(axis=1).iloc[:,0]
```

```
In [26]: # For Laptop Model Name
modelColumnsFiltered = [model for model in columns if 'model'.lower() in model.lower()]
modelColumnsFiltered
```

```
Out[26]: ['Additional Details_Item model number',
 'Other Technical Details_Item model number',
 'Product Details_CPU Model',
 'Product Details_Model Name',
 'Technical Details_Item model number',
 'New Product Details_CPU Model Generation',
 'New Product Details_CPU Model Number',
 'New Product Details_CPU Model Speed Maximum',
 'New Product Details_Model Name',
 'New Product Details_Model Number',
 'New Product Details_Model Year',
 'New Product Details_Item model number']
```

```
In [27]: modelColumns = ['New Product Details_Model Name', 'New Product Details_Item model nu
df = df.copy()
df['Laptop_Model_Name'] = df[modelColumns].bfill(axis=1).iloc[:,0]
```

```
In [28]: # For Laptop Reviews
reviewColumnsFiltered = [review for review in columns if 'review'.lower() in review.lower()]
reviewColumnsFiltered
```

```
Out[28]: ['Additional Details_Customer Reviews', 'New Product Details_Customer Reviews']
```

```
In [29]: reviewColumns = ['Additional Details_Customer Reviews', 'New Product Details_Custom
df = df.copy()
df['Number_of_reviews'] = df[reviewColumns].bfill(axis=1).iloc[:,0]
```

```
In [30]: # Extract review counts from the column
df = df.copy()
df['reviews_count'] = df['Number_of_reviews'].str.extract(r'(\d+)\s+rating(?:\s+)?')
df['reviews_count'] = df['reviews_count'].fillna(0)
df['reviews_count'] = df['reviews_count'].astype(int)
df.head(2)
```

Out[30]:

	Additional Details_ASIN	Additional Details_Batteries	Additional Details_Batteries required	Additional Details_Best Sellers Rank	Additional Details_Customer Reviews	Additional Details_Date First Available
0	B0D8VSDCMK	NaN	NaN	#81,691 in Computers & Accessories (See Top 100 in Computers & Accessories) #16,532 in Traditional Laptop Computers	5.0 5.0 out of 5 stars \n 1 rating \n\n\n 5.0 out of 5 stars	July 5, 2024
1	B0D87RK5Q8	NaN	NaN	#5,653 in Computers & Accessories (See Top 100 in Computers & Accessories) #670 in Traditional Laptop Computers	4.1 4.1 out of 5 stars \n 13 ratings \n\n\n 4.1 out of 5 stars	June 27, 2024

Many Amazon products had imperfect data

Manually Checking for inconsistent data using domain knowledge

In [31]: df['Processor_Brand'].unique()

```
Out[31]: array(['Alwinner', 'Intel', nan, 'AMD', 'MediaTek', 'Apple', 'Celeron',
   'Qualcomm', 'HP', 'I', 'Jasper Lake', 'core_i7_5650u', 'ARM',
   'Dell', 'Core', 'core_i7_6700hq', 'Intel Celeron N4120'],
  dtype=object)
```

```
In [33]: # All these Processor Brands are misnomers, they are listed as processor brands on
df.loc[df['Processor_Brand'] == 'Celeron', ['Processor_Model']] = 'Celeron N5095'
df.loc[df['Processor_Brand'] == 'Celeron', ['Processor_Brand']] = 'Intel'

df.loc[df['Processor_Brand'] == 'I', ['Processor_Brand']] = 'Intel'

df.loc[df['Processor_Brand'] == 'Jasper Lake', ['Processor_Model']] = 'Celeron N5095'
df.loc[df['Processor_Brand'] == 'Jasper Lake', ['Processor_Brand']] = 'Intel'

df.loc[df['Processor_Brand'] == 'Core', ['Processor_Brand']] = 'Intel'

df.loc[df['Processor_Brand'] == 'Intel Celeron N4120', ['Processor_Model']] = df.loc[df['Processor_Brand'] == 'Intel Celeron N4120', ['Processor_Brand']] = 'Intel'

df.loc[df['Processor_Brand'] == 'Intel Celeron N4120', ['Processor_Brand']] = 'Intel'

df.loc[df['Processor_Brand'] == 'HP', ['Processor_Brand']] = 'Intel'

df.loc[df['Processor_Brand'] == 'Dell', ['Processor_Brand']] = 'Intel'

df.loc[df['Processor_Brand'] == 'core_i7_6700hq', ['Processor_Brand']] = 'Intel'

df.loc[df['Processor_Brand'] == 'core_i7_5650u', ['Processor_Brand']] = 'Intel'
```

```
In [35]: # Some products have Processor name as 'Intel Core i5' at the cost of not giving the
df.loc[df['Processor_Model'].str.contains('Apple',na=False), 'Processor_Brand'] = 'Apple'
df.loc[df['Processor_Model'].str.startswith('Intel',na=False), 'Processor_Brand'] = 'Intel'
```

Only selecting common columns for analysis across data collected by other teammates across Flipkart and BestBuy

```
In [36]: finalColumns = ['Brand', 'Laptop_Model_Name', 'Processor_Brand', 'Operating_System', 'Processor_Model', 'RAM']
finalDF = df[finalColumns]
finalDF.head(2)
```

	Brand	Laptop_Model_Name	Processor_Brand	Operating_System	Processor_Model	RAM
0	ZHAOHUIXIN	PC1068	Alwinner	Android	1.8 GHz a13	16GB
1	TPV	AceBook	Intel	Windows 11 Pro	Core i5	16GB

```
In [38]: # Filtering out rows with exact same values(might have been introduced due to multi
# Many links scraped from Amazon are of affiliated products(sponsored) which Amazon
duplicates = finalDF[finalDF.duplicated(keep=False)]
duplicates.shape
```

```
Out[38]: (55, 12)
```

```
In [39]: # Drop duplicates and keep only the first occurrence
finalDF_duplicates_dropped = finalDF.drop_duplicates()
```

```
finalDF_duplicates_dropped.shape
Out[39]: (2123, 12)
```

```
In [40]: # Columns to check for NaN values
columns_to_check_nan = ['Brand', 'Laptop_Model_Name', 'Processor_Brand', 'Operating_System',
                        'Processor_Model', 'RAM_Size', 'Storage', 'Display_size', 'Price']

df_with_nan_in_specific_columns = finalDF_duplicates_dropped[finalDF_duplicates_dropped.isna().any(axis=1)]
df_with_nan_in_specific_columns.head(2)
```

Out[40]:

	Brand	Laptop_Model_Name	Processor_Brand	Operating_System	Processor_Model	RAM_Size
10	Apple	MacBook Air	NaN	Mac OS	Unknown	8 GB
11	Apple	MacBook Pro	Apple	Mac OS	Apple M3 Pro	18 GB

```
In [41]: print(f"Shape of rows to be dropped: {df_with_nan_in_specific_columns.shape}")
finalDF_cleaned = finalDF_duplicates_dropped.dropna(subset = columns_to_check_nan)
print(f"Shape after dropping : {finalDF_cleaned.shape}")
```

Shape of rows to be dropped: (125, 12)
 Shape after dropping : (1998, 12)

Updating the DF before exporting to ensure collaboration with other teammates' data

```
In [43]: # Ensuring data is formatted in a uniform structure.
finalDF_cleaned = finalDF_cleaned.copy()
finalDF_cleaned['Storage_Type'] = finalDF_cleaned['Storage'].apply(
    lambda x: 'HDD' if pd.Series(x).str.contains('HDD', case=False).any() else
               'SSD' if pd.Series(x).str.contains('SSD', case=False).any() else
               'EMMC' if pd.Series(x).str.contains('EMMC', case=False).any() else 'S')
```

```
In [44]: # Extract storage size into a new column 'Storage_Size'
finalDF_cleaned = finalDF_cleaned.copy()
finalDF_cleaned['Storage_Size'] = finalDF_cleaned['Storage'].str.extract(r'(\d+\s*[
```

```
In [45]: print(f"Shape of storage_size NaN values : {finalDF_cleaned[finalDF_cleaned['Storage_Size'].isna().any(axis=1)].shape}")
finalDF_cleaned = finalDF_cleaned.dropna(subset=['Storage_Size'])
print(f"Shape after removing rows which had missing storage sizes : {finalDF_cleaned.shape}")
```

Shape of storage_size NaN values : (68, 14)
 Shape after removing rows which had missing storage sizes : (1930, 14)

```
In [46]: # Converting all storage sizes to GB
def convert_to_gb(size):
    if 'TB' in size:
        return int(size.replace('TB', '').strip()) * 2048
    elif 'GB' in size:
        return int(size.replace('GB', '').strip())
    elif 'SSD' in size:
        return int(size.replace('SSD', '').strip())
    else:
        return size
```

```
finalDF_cleaned = finalDF_cleaned.copy()
finalDF_cleaned['Storage_Size_GB'] = finalDF_cleaned['Storage_Size'].apply(convert_
finalDF_cleaned['Storage_Size_GB'] = finalDF_cleaned['Storage_Size_GB'].astype(int)
```

In [47]:

```
# Extract the rating using REGEX
finalDF_cleaned = finalDF_cleaned.copy()
finalDF_cleaned['Extracted_Rating'] = finalDF_cleaned['Rating'].str.extract(r'(\d+)')
finalDF_cleaned['Extracted_Rating'] = finalDF_cleaned['Extracted_Rating'].astype(float)
finalDF_cleaned.head(2)
```

Out[47]:

	Brand	Laptop_Model_Name	Processor_Brand	Operating_System	Processor_Model	RAM
0	ZHAOHUIXIN	PC1068	Alwinner	Android	1.8 GHz a13	10.1 inches
1	TPV	AceBook	Intel	Windows 11 Pro	Core i5	16 GB RAM

In [53]:

```
# Remove 'inches' and keep only the number from Display Screen Size
finalDF_cleaned['Display_size_num'] = finalDF_cleaned['Display_size'].str.replace(r'inches')
finalDF_cleaned['Display_size_num'] = finalDF_cleaned['Display_size_num'].astype(float)
```

In [54]:

```
# Remove units from RAM Size ( all are in GB)
finalDF_cleaned['RAM'] = finalDF_cleaned['RAM_Size'].str.extract(r'(\d+)').astype(int)
```

In [47]:

```
# Drop all columns we just extracted data from and drop redundant columns
columns_to_drop = ['URL', 'Rating', 'Storage_Size', 'Storage', 'Display_size', 'RAM_Size']
finalDF_cleaned_aligned = finalDF_cleaned.drop(columns=columns_to_drop)
finalDF_cleaned_aligned.head()
```

Out[47]:

	Brand	Laptop_Model_Name	Processor_Brand	Operating_System	Processor_Model	review
0	ZHAOHUIXIN	PC1068	Alwinner	Android	1.8 GHz a13	10.1 inches
1	TPV	AceBook	Intel	Windows 11 Pro	Core i5	16 GB RAM
2	HP	Elitebook	Intel	Windows 11 Pro	Intel Core i7	16 GB RAM
3	Apple	MacBook Air	Apple	Mac OS	Apple M3	13.3 inches
4	Apple	MacBook Air	Apple	Mac OS	Apple M3	13.3 inches

Renaming columns to ensure uniformity across teammates

In [48]:

```
# Renaming columns to ensure uniformity
renaming_dict = {
    'Brand': 'Laptop_Brand',
    'Laptop_Model_Name': 'Laptop_Name',
    'Processor_Brand': 'Processor_Company',
    'Processor_Model': 'Processor',
    'Storage_Size_GB': 'Storage',
    'Display_size_num': 'Screen_Size',
    'Extracted_Rating': 'Rating',
    'reviews_count': 'Number_of_Reviews'
```

```
}
```

`finalDF_cleaned_aligned = finalDF_cleaned_aligned.rename(columns=renaming_dict)`

In [49]:

```
# Adding a Source column to identify the source of row datasets are merged (Amazon,
finalDF_cleaned_aligned = finalDF_cleaned_aligned.copy()
finalDF_cleaned_aligned['Source'] = 'Amazon'
finalDF_cleaned_aligned.head()
```

Out[49]:

	Laptop_Brand	Laptop_Name	Processor_Company	Operating_System	Processor	Number_of_Rev
0	ZHAOHUIXIN	PC1068	Alwinner	Android	1.8 GHz a13	
1	TPV	AceBook	Intel	Windows 11 Pro	Core i5	
2	HP	Elitebook	Intel	Windows 11 Pro	Intel Core i7	
3	Apple	MacBook Air	Apple	Mac OS	Apple M3	
4	Apple	MacBook Air	Apple	Mac OS	Apple M3	

In [50]:

```
print(f"Final Shape of cleaned data : {finalDF_cleaned_aligned.shape}")
```

Final Shape of cleaned data : (1930, 13)

In [51]:

```
finalDF_cleaned_aligned.describe().T
```

Out[51]:

	count	mean	std	min	25%	50%	75%	max
Number_of_Reviews	1930.0	85.392746	176.604393	0.00	2.00	12.0	62.0000	996.0
Price	1930.0	698.844674	581.544264	44.79	299.99	569.0	908.7425	4939.0
Storage	1930.0	2563.029016	33743.047376	2.00	256.00	512.0	2048.0000	1048576.0
Rating	1928.0	4.353268	0.295933	1.00	4.30	4.4	4.5000	5.0
Screen_Size	1930.0	14.786067	1.676679	7.00	14.00	15.6	15.6000	18.0
RAM	1930.0	21.147150	23.583480	2.00	8.00	16.0	32.0000	512.0

In [52]:

```
finalDF_cleaned_aligned.describe(include='object').T
```

Out[52]:

	count	unique	top	freq
Laptop_Brand	1930	71	HP	430
Laptop_Name	1930	767	Latitude	152
Processor_Company	1930	7	Intel	1535
Operating_System	1930	45	Windows 11 Pro	748
Processor	1930	157	Core i5	190
Storage_Type	1930	3	SSD	1723
Source	1930	1	Amazon	1930

In [53]:

```
outputDataFilePath = './consolidated_amazon_laptop_data.csv'
finalDF_cleaned_aligned.to_csv(outputDataFilePath, index=False)
```

```
print(f"Data saved to : {outputFilePath}")
```

Data saved to : ./consolidated_amazon_laptop_data.csv

Combining all Data

In [103...]

```
amazonDataSetPath = r'./amazon/consolidated_amazon_laptop_data.csv'
flipkartDatasetPath = r'./flipkart_data/flipkart_laptop_cleaned.csv'
bestbuyDatasetPath = r'./bestBuy/laptops_data_Best_Buy_22_09_24.csv'

amazonDF = pd.read_csv(amazonDataSetPath)
flipkartDF = pd.read_csv(flipkartDatasetPath)
bestbuyDF = pd.read_csv(bestbuyDatasetPath)
```

In [102...]

```
# Bestbuy

# Renaming columns to ensure uniformity
renaming_dict_BB = {
    'Brand': 'Laptop_Brand',
    'Laptop_name': 'Laptop_Name',
    'Processor_Company_Name': 'Processor_Company',
    'Processor_Model': 'Processor',
    'Laptop_Storage_GB': 'Storage',
    'Rating_5': 'Rating',
    'No_Of_Reviews': 'Number_of_Reviews',
    'Laptop_Price': 'Price',
    'Laptop_Memory_GB': 'RAM',
    'Laptop_Display_Size_in': 'Screen_Size'
}
bestbuyDF_aligned = bestbuyDF.rename(columns=renaming_dict_BB)
bestbuyDF_aligned.head(2)
```

Out[102]:

	Price	Laptop_Brand	Laptop_Colour	RAM	Storage	Screen_Size	Laptop_Name	Laptop_Grap
0	\$529.99	HP	Silver	16	512	15.6	No Model	No Grap
1	\$749.99	Dell	Blue	16	1024	16	Inspiron	No Grap

In [90]:

```
# Common Columns for combined dataset
columns_for_alignment = ['Laptop_Brand', 'Laptop_Name', 'Processor_Company', 'Operating_System', 'Processor', 'Number_of_Reviews', 'Price', 'Storage_Type', 'Storage', 'Rating', 'Screen_Size', 'RAM']
```

In [91]:

```
# Filtering out common columns
bestbuyDF_aligned_final = bestbuyDF_aligned[columns_for_alignment]
bestbuyDF_aligned_final.shape
```

Out[91]:

(1284, 12)

In [92]:

```
# Adding Source Column to identify datapoint source
bestbuyDF_aligned_final = bestbuyDF_aligned_final.copy()
bestbuyDF_aligned_final['Source'] = 'BestBuy'
bestbuyDF_aligned_final.shape
```

Out[92]: (1284, 13)

In [93]: bestbuyDF_aligned_final.head()

	Laptop_Brand	Laptop_Name	Processor_Company	Operating_System	Processor	Number_of_
0	HP	No Model	Intel	Windows11	Core i7 - 15-DY5073DX	
1	Dell	Inspiron	Intel	Windows11	Core Ultra - i7640-7366BLU-PUS	
2	Lenovo	Flex	Intel	Windows11	Core i3 - 82R700L4US	
3	Lenovo	Yoga	AMD Ryzen	Windows11	7 8840HS - 83DM0003US	
4	Dell	Inspiron	Intel	Windows11	Core i5 - i3520-5124BLK-PUS	

In [94]: #Flipkart

```
flipkartDF = flipkartDF.copy()
flipkartDF['Source'] = 'Flipkart'
flipkartDF.head()
```

	Laptop_Brand	Laptop_Name	Processor_Company	Processor	Operating_System	RAM	Storage
0	ASUS	Vivobook 15	Intel	Core i3 12th Gen 1215U	Windows 11	8	512
1	ASUS	ROG Strix Scar 16	Intel	Core i9 14th Gen 14900HX	Windows 11	32	2048
2	ASUS	TUF Gaming F15	Intel	Core i5 12th Gen 12500H	Windows 11	16	512
3	ASUS	TUF Gaming F17	Intel	Core i5 11th Gen 11400H	Windows 11	16	512
4	ASUS	Vivobook 15	Intel	Core i3 12th Gen 1215U	Windows 11	8	512

In [95]: # Normalizing the price from INR to USD @ 83.97 INR = 1 USD [Exchange Rate As of 07/10/24]

```
conversion_rate = 83.97
flipkartDF['Price'] = round(flipkartDF['Price']/83.97,2)
flipkartDF.head()
```

Out[95]:

	Laptop_Brand	Laptop_Name	Processor_Company	Processor	Operating_System	RAM	Storage
0	ASUS	Vivobook 15	Intel	Core i3 12th Gen 1215U	Windows 11	8	512
1	ASUS	ROG Strix Scar 16	Intel	Core i9 14th Gen 14900HX	Windows 11	32	2048
2	ASUS	TUF Gaming F15	Intel	Core i5 12th Gen 12500H	Windows 11	16	512
3	ASUS	TUF Gaming F17	Intel	Core i5 11th Gen 11400H	Windows 11	16	512
4	ASUS	Vivobook 15	Intel	Core i3 12th Gen 1215U	Windows 11	8	512

In [96]: `amazonDF.head()`

Out[96]:

	Laptop_Brand	Laptop_Name	Processor_Company	Operating_System	Processor	Number_of_Rev
0	ZHAOHUIXIN	PC1068	Alwinner	Android	1.8 GHz a13	
1	TPV	AceBook	Intel	Windows 11 Pro	Core i5	
2	HP	Elitebook	Intel	Windows 11 Pro	Intel Core i7	
3	Apple	MacBook Air	Apple	Mac OS	Apple M3	
4	Apple	MacBook Air	Apple	Mac OS	Apple M3	

In [101...]: `# Combining all the datasets`

```
master_df = pd.concat([amazonDF, flipkartDF,bestbuyDF_aligned_final], ignore_index=True)
master_df.head()
```

Out[101]:

	Laptop_Brand	Laptop_Name	Processor_Company	Operating_System	Processor	Number_of_Rev
0	ZHAOHUIXIN	PC1068	Alwinner	Android	1.8 GHz a13	
1	TPV	AceBook	Intel	Windows 11 Pro	Core i5	
2	HP	Elitebook	Intel	Windows 11 Pro	Intel Core i7	
3	Apple	MacBook Air	Apple	Mac OS	Apple M3	
4	Apple	MacBook Air	Apple	Mac OS	Apple M3	

In [98]: `master_df.shape`

Out[98]: (4838, 13)

Exporting The Aggregated Data

In [104...]

```
combinedOutputFilePath = './data/laptrack.csv'
master_df.to_csv(combinedOutputFilePath, index=False)
print(f"Data saved to : {combinedOutputFilePath}")
```

Data saved to : ./data/laptrack.csv

Transferring the data in SQLite Database

In [1]:

```
# Importing Requisite Libraries
import numpy as np
import pandas as pd
import sqlite3
```

In [2]:

```
# Loading the CSV data
df = pd.read_csv(r"./data/laptrack.csv")
df.head()
```

Out[2]:

	Laptop_Brand	Laptop_Name	Processor_Company	Operating_System	Processor	Number_of_Rev
0	ZHAOHUIXIN	PC1068	Alwinner	Android	1.8 GHz a13	
1	TPV	AceBook	Intel	Windows 11 Pro	Core i5	
2	HP	Elitebook	Intel	Windows 11 Pro	Intel Core i7	
3	Apple	MacBook Air	Apple	Mac OS	Apple M3	
4	Apple	MacBook Air	Apple	Mac OS	Apple M3	



In [3]:

```
# Connect to SQLite database
conn = sqlite3.connect(r'database\laptrack.db')

# Dumping data to SQLite table by creating it and replacing if it exists
df.to_sql('Laptop_Ver_1', conn, if_exists='replace', index=False)

# Verify data insertion
cursor = conn.cursor()
cursor.execute("SELECT * FROM Laptop_Ver_1")
rows = cursor.fetchall()

# Printing rows for verification
for row in rows:
    print(row)

# Commit the Changes and Close the connection
conn.commit()
conn.close()
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('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMM C', '64', '4.5', 10.1, 2, 'Amazon')

('TPV', 'AceBook', 'Intel', 'Windows 11 Pro', 'Core i5', 13, '309.99', 'SSD', '51 2', '4.5', 15.6, 16, 'Amazon')

('HP', 'Elitebook', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 5, '1079', 'SSD', '2048', '4', 16.0, 32, 'Amazon')

('Apple', 'MacBook Air', 'Apple', 'Mac OS', 'Apple M3', 0, '929', 'SSD', '256', '4', 13.6, 8, 'Amazon')

('Apple', 'MacBook Air', 'Apple', 'Mac OS', 'Apple M3', 0, '1449', 'SSD', '512', '4', 15.3, 16, 'Amazon')

('HP', 'HP Laptop', 'Intel', 'Windows 11 Home', 'Celeron N', 905, '246.99', 'SSD', '64', '4.5', 14.0, 8, 'Amazon')

('Lenovo', 'IdeaPad 1 15" - 82R400EMUS', 'AMD', 'Windows 11 Home', 'AMD Ryzen 5 55 00U', 485, '399.99', 'SSD', '512', '4.3', 15.6, 8, 'Amazon')

('ASUS', 'Strix G16', 'Intel', 'Windows 11 Home', 'Core i7', 331, '1282.76', 'SS D', '2048', '4', 16.0, 16, 'Amazon')

('HP', '255 G10', 'AMD', 'Windows 11 Pro', 'Ryzen 3', 50, '449.99', 'SSD', '2048', '4.5', 15.6, 16, 'Amazon')

('acer', 'Nitro V', 'Intel', 'Windows 11 Home', 'Intel Core i5', 55, '759.54', 'SS D', '512', '4.3', 15.6, 8, 'Amazon')

('Lenovo', 'ThinkBook 16 G4+ IAP', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU', 0, '799', 'SSD', '512', '4.5', 16.0, 16, 'Amazon')

('HP', 'TPN-I139_767K9AV', 'Intel', 'Windows 11 Home', 'Core i5 Family', 5, '795.6 3', 'SSD', '2048', '4.3', 17.3, 32, 'Amazon')

('Lenovo', 'ThinkPad', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 11, '899', 'SSD', '204 8', '4.3', 16.0, 40, 'Amazon')

('HP', '14-dq0040nr', 'Intel', 'Windows 11 S', 'Celeron N4020', 712, '177.89', 'SS D', '64', '4.4', 14.0, 4, 'Amazon')

('Apple', 'MacBook Pro', 'Apple', 'Mac OS', 'Apple M3', 0, '1299', 'SSD', '512', '4', 14.2, 8, 'Amazon')

('HP', 'TPN-I139_320M3AV', 'Intel', 'Windows 11 Pro', 'Core i3 Family', 345, '472. 74', 'SSD', '2048', '4.4', 17.3, 32, 'Amazon')

('HP', 'Chromebook 14a-na0226nr', 'Intel', 'Chrome OS', 'Celeron', 747, '199.99', 'SSD', '64', '4.4', 14.0, 4, 'Amazon')

('Lenovo', 'IdeaPad 1 15IJL7', 'Intel', 'Windows 11 Home', 'Celeron', 693, '389', 'SSD', '2048', '4.3', 15.6, 20, 'Amazon')

('Apple', 'MacBook Air', 'Intel', 'macOS 10.12 Sierra', 'Core i5', 882, '174.99', 'SSD', '128', '4.5', 13.3, 8, 'Amazon')

('acer', 'Laptop', 'AMD', 'Windows 11 S', 'Ryzen 3', 179, '299.99', 'SSD', '128', '4.6', 15.6, 8, 'Amazon')

('Lenovo', 'Newest Flagship Lenovo Chromebook', 'MediaTek', 'Chrome OS', 'Cortex', 425, '203.98', 'EMMC', '64', '4.5', 14.0, 4, 'Amazon')

('HP', 'TPN-Q222', 'Intel', 'Windows 11 Home', 'Core i3 Family', 63, '439.97', 'SS D', '2048', '4.5', 15.6, 32, 'Amazon')

('Dell', 'Dell Inspiron', 'Intel', 'Windows 11 Pro', 'Core i5', 140, '483.99', 'SS D', '2048', '4.4', 15.6, 16, 'Amazon')

('Apple', 'MacBook Air', 'Apple', 'Mac OS', 'Apple M1', 153, '446.49', 'SSD', '12 8', '4.4', 13.3, 8, 'Amazon')

('Apple', 'MacBook Pro', 'Apple', 'Mac OS', 'Apple M3 Max', 0, '2999', 'SSD', '204 8', '4', 16.2, 36, 'Amazon')

('MSI', 'Thin 15 B12VE-2023US', 'Intel', 'Windows 11 Home', 'Intel Core i7', 822, '899.99', 'SSD', '512', '4.3', 15.6, 16, 'Amazon')

('acer', 'Nitro V', 'Intel', 'Windows 11 Home', 'Intel Core i7', 305, '839', 'SS D', '512', '4.3', 15.6, 16, 'Amazon')

('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '575.1', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')

('Lenovo', 'ThinkPad', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 14, '1269', 'SS D', '8192', '4', 16.0, 40, 'Amazon')

('Lenovo', 'ThinkPad', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 22, '989', 'SS D', '4096', '4.1', 16.0, 40, 'Amazon')

('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A13', 1, '119.99', 'EMMC', '64', '4.4', 10.1, 2, 'Amazon')

('TPV', 'AceBook', 'Intel', 'Windows 11 Pro', 'Core i5', 13, '309.99', 'SSD', '51 2', '4.5', 15.6, 16, 'Amazon')

('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')

('HP', 'HP Newest Flagship LAPTOP', 'Intel', 'Windows 11 Pro', 'Core i3', 22, '599.98', 'SSD', '2048', '4.4', 15.6, 40, 'Amazon')

('Lenovo', 'IdeaPad 3', 'Intel', 'Chrome OS', 'Celeron P4500', 300, '260', 'EMMC', '64', '4.6', 15.6, 8, 'Amazon')

('Lenovo', 'Lenovo V15 G2 ALC', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 422, '489', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')

('Lenovo', 'V15', 'Intel', 'Windows 11 Pro', 'Celeron', 315, '499', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')

('acer', 'Aspire Go 15', 'Intel', 'Windows 11 S', 'Intel Core i3', 171, '279.99', 'SSD', '128', '4.4', 15.6, 8, 'Amazon')

('MSI', 'Katana A17 AI B8VG-879US', 'AMD', 'Windows 11 Home', 'Ryzen 9', 233, '1699.99', 'SSD', '4096', '4', 17.3, 64, 'Amazon')

('HP', 'HP 14inch Laptop', 'Intel', 'Windows 11', 'Celeron', 996, '152', 'SSD', '64', '4.5', 14.0, 4, 'Amazon')

('HP', 'HP 14inch Laptop', 'Intel', 'Windows 11', 'Celeron', 421, '168.93', 'SSD', '64', '4.5', 14.0, 4, 'Amazon')

('acer', 'NH.QLLAA.002', 'AMD', 'Windows 11 Home', 'AMD Ryzen 7', 379, '957.47', 'SSD', '1000', '4.1', 16.0, 16, 'Amazon')

('acer', 'Predator Helios Neo 16 Gaming Laptop', 'Intel', 'Windows 11 Home', 'Intel Core i7', 960, '1109', 'SSD', '512', '4', 16.0, 16, 'Amazon')

('HP', 'TPN-Q221', 'Intel', 'Windows 11 Home', 'Celeron', 480, '217.99', 'SSD', '64', '4.5', 14.0, 16, 'Amazon')

('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 10, '1296.71', 'SSD', '4096', '4', 15.6, 64, 'Amazon')

('HP', 'HP Essential', 'Intel', 'Windows 11 Home', 'Pentium N5000', 0, '379', 'SSD', '2048', '4.5', 14.0, 8, 'Amazon')

('acer', 'Swift Go 14', 'Intel', 'Windows 11 Home', 'Intel Core i7-1355U', 283, '599.99', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')

('ASUS', 'ROG Strix G16', 'Intel', 'Windows 11 Home', 'Core i9', 494, '1871.64', 'SSD', '2048', '4', 16.0, 16, 'Amazon')

('Apple', 'Macbook Pro', 'Intel', 'Mac OS', 'Core i5-4278U', 44, '249.97', 'SSD', '128', '4.6', 13.3, 8, 'Amazon')

('Lenovo', 'IdeaPad', 'Intel', 'Windows 11 Home', 'Core i3', 594, '327.98', 'SSD', '256', '4.5', 15.6, 12, 'Amazon')

('Apple', 'MacBook Air', 'Apple', 'Mac OS', 'Unknown', 968, '472', 'SSD', '256', '4.4', 13.3, 8, 'Amazon')

('HP', 'Pavilion', 'Intel', 'Windows 11', 'Core i3', 43, '599', 'SSD', '512', '4.4', 15.6, 32, 'Amazon')

('HP', 'HP Chromebook', 'Intel', 'Chrome OS', 'Celeron N', 428, '148.9', 'EMMC', '64', '4.2', 14.0, 4, 'Amazon')

('ASUS', 'TUF Gaming A15', 'AMD', 'Windows 11 Home', 'Ryzen 5', 630, '761.13', 'SSD', '512', '4.3', 15.6, 8, 'Amazon')

('Apple', 'MacBook Pro', 'Intel', 'Mac OS 9', 'Unknown', 869, '499', 'SSD', '512', '4.4', 16.0, 16, 'Amazon')

('ASUS', 'ASUS 15.5 Laptop', 'Intel', 'Windows 11 Home', 'Celeron', 48, '171.99', 'SSD', '128', '4.5', 15.5, 4, 'Amazon')

('acer', 'Acer 15" Laptop', 'Intel', 'Chrome OS', 'Celeron N', 174, '151.99', 'EMMC', '64', '4.5', 15.0, 4, 'Amazon')

('HP', 'hp laptop', 'Intel', 'Windows 11 Home', 'Intel Core i3', 693, '411.74', 'SSD', '2048', '4.5', 15.6, 16, 'Amazon')

('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '575.1', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')

('Molegar', '2024 Latest Laptop Computer', 'Intel', 'Windows 11', 'Celeron N5095', 5, '499.99', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 6, '1349', 'SSD', '4096', '4', 15.6, 64, 'Amazon')

('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A13', 1, '119.99', 'EMMC', '64', '4.4', 10.1, 2, 'Amazon')

('TPV', 'AceBook', 'Intel', 'Windows 11 Pro', 'Core i5', 13, '309.99', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')

('Lenovo', 'ThinkPad', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 14, '1049', 'SSD', '2048', '4', 16.0, 24, 'Amazon')
 ('Lenovo', 'IdeaPad 1 15IJL7', 'Intel', 'Windows 11 Home', 'Celeron', 396, '359', 'SSD', '512', '4.5', 15.6, 12, 'Amazon')
 ('Lenovo', 'ThinkPad X1 Carbon Gen 11 Laptop PC', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 25, '1374.77', 'SSD', '2048', '4.4', 14.0, 32, 'Amazon')
 ('Lenovo', 'Chromebook', 'MediaTek', 'Chrome OS', 'Mediatek Mt8173C', 249, '63.99', 'EMMC', '32', '4.4', 11.6, 4, 'Amazon')
 ('MSI', 'Katana 15 B13VGK-2000US', 'Intel', 'Windows 11 Home', 'Core i7', 353, '1290.68', 'SSD', '2048', '4', 15.6, 16, 'Amazon')
 ('Lenovo', 'ThinkPad E16 Gen 1', 'AMD', 'Windows 11 Pro', 'AMD R Series', 23, '617.99', 'SSD', '512', '4.4', 16.0, 16, 'Amazon')
 ('Dell', 'Latitude 7490', 'Intel', 'Windows 10 Pro', 'Core i7-8650U', 81, '249.99', 'SSD', '512', '4.6', 14.0, 16, 'Amazon')
 ('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Core i5', 599, '323.27', 'SSD', '256', '4.5', 13.0, 8, 'Amazon')
 ('HP', 'HP', 'Intel', 'Windows 11', 'Core i3', 346, '436.99', 'SSD', '2048', '4.5', 17.3, 16, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 24, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')
 ('HP', 'Elitebook', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 5, '1079', 'SSD', '2048', '4', 16.0, 32, 'Amazon')
 ('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
 ('Lenovo', 'Lenovo V15-IKB', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 49, '789', 'SSD', '2048', '4.3', 15.6, 24, 'Amazon')
 ('ASUS', 'Vivobook Go', 'AMD', 'Windows 11 Home', 'Ryzen 3', 199, '249', 'SSD', '128', '4.5', 15.0, 8, 'Amazon')
 ('Dell', 'Inspiron', 'Intel', 'Windows 11', 'Core i5 Family', 355, '414.97', 'SSD', '256', '4.5', 15.6, 12, 'Amazon')
 ('HEWLETT PACKARD', 'HP Probook', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 5, '144.99', 'SSD', '256', '4.5', 11.6, 8, 'Amazon')
 ('Dell', 'dell 3100', 'Intel', 'Chrome OS', 'Celeron N4000', 349, '59.53', 'HDD', '16', '4.4', 11.6, 4, 'Amazon')
 ('HP', 'HP Flagship', 'Intel', 'Windows 11', 'Celeron N', 8, '369.99', 'SSD', '128', '4.3', 14.0, 16, 'Amazon')
 ('Apple', 'MacBook Pro', 'Intel', 'macOS 10.14 Mojave', 'Core i5', 44, '269', 'SSD', '128', '4.6', 13.3, 8, 'Amazon')
 ('Lenovo', 'IdeaPad 3 81X800ENUS', 'Intel', 'Windows 11', 'Core i3', 104, '323.95', 'SSD', '256', '4.5', 15.6, 20, 'Amazon')
 ('Lenovo', 'Lenovo V15 G4 ABP', 'AMD', 'Windows 11 Pro', 'AMD Ryzen 7', 52, '699', 'SSD', '2048', '4.4', 15.6, 40, 'Amazon')
 ('Lenovo', 'V15', 'Intel', 'Windows 11 Pro', 'Celeron', 348, '549', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')
 ('Dell', 'Inspiron', 'Intel', 'Windows 11 Home', 'Core i5 Family', 405, '501.35', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')
 ('Lenovo', 'Lenovo Ideapad 1i', 'Intel', 'Windows 11', 'Celeron N4020', 536, '158.89', 'EMMC', '64', '4.5', 14.0, 4, 'Amazon')
 ('Lenovo', 'ThinkBook 16 G4+ IAP', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU', 0, '1069', 'SSD', '2048', '4.4', 16.0, 32, 'Amazon')
 ('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')
 ('Oemgenuine', 'ThinkPad E15 Gen 2', 'AMD', 'Windows 10 Pro', 'Ryzen 5 4500U', 2, '829.95', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
 ('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A13', 1, '119.99', 'EMMC', '64', '4.4', 10.1, 2, 'Amazon')
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 ('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
 ('MSI', 'Raider GE76 12UE-871', 'Intel', 'Windows 11 Home', 'Core i9', 39, '1199.99', 'SSD', '2048', '4.4', 17.3, 16, 'Amazon')
 ('Apple', 'MacBook Pro', 'Intel', 'macOS Catalina (version 10.15)', 'Core i5', 540, '488.5', 'SSD', '512', '4.4', 13.3, 16, 'Amazon')

('Apple', 'MacBook Pro', 'Apple', 'Mac OS', 'Apple M1', 617, '523.74', 'SSD', '256', '4.4', 13.3, 8, 'Amazon')
('Lenovo', 'ThinkPad E14 Gen 5', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 79, '664', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')
('Apple', 'MKGP3LL/A', 'Apple', 'Mac OS', 'Apple M1', 616, '999.99', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')
('ACEMAGIC', 'AX16PRO', 'AMD', 'Windows 11', 'AMD Ryzen 7', 7, '599.99', 'SSD', '512', '4.4', 16.1, 16, 'Amazon')
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('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 10, '1296.71', 'SSD', '4096', '4', 15.6, 64, 'Amazon')
('Apple', 'Macbook pro', 'Intel', 'Mac OS', 'Intel Core i9', 531, '573.99', 'SSD', '2048', '4.4', 16.0, 16, 'Amazon')
('Dell', 'nspiron 15 3530', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 42, '709.99', 'SSD', '2048', '3.8', 15.6, 32, 'Amazon')
('HP', 'HP Envy', 'Intel', 'Windows 11 Home', 'Core i7', 44, '670', 'SSD', '2048', '4.4', 14.0, 16, 'Amazon')
('SGIN', 'SGIN-M15N', 'Intel', '11', 'Celeron', 18, '169.98', 'SSD', '128', '4.5', 15.6, 4, 'Amazon')
('HP', 'HP 15 Laptop', 'Intel', 'Windows 11', 'Pentium', 75, '241.5', 'SSD', '128', '4.5', 15.6, 16, 'Amazon')
('Dell', 'Dell inspiron', 'Intel', 'Windows 11 Pro', 'Core i5', 62, '649.99', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')
('HP', 'HP Notebook', 'Intel', 'Windows 11 Home', 'Core i5', 442, '378', 'SSD', '256', '4.3', 15.0, 8, 'Amazon')
('HP', 'HP Stream', 'Intel', 'Windows 11 S', 'Celeron', 928, '309', 'EMMC', '128', '4.2', 14.0, 16, 'Amazon')
('Apple', 'MacBook Air', 'Intel', 'Catalina', 'Core i3', 282, '379', 'SSD', '128', '4.3', 13.3, 8, 'Amazon')
('HP', 'HP 15" Laptop', 'Intel', 'Windows 11', 'Pentium', 878, '207.26', 'SSD', '128', '4.5', 15.0, 8, 'Amazon')
('HP', 'HP Essential', 'Intel', 'Windows 11 Home', 'Pentium N5000', 0, '379', 'SSD', '2048', '4.5', 14.0, 8, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 38, '1299', 'SSD', '2048', '4', 15.6, 16, 'Amazon')
('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A13', 1, '119.99', 'EMMC', '64', '4.4', 10.1, 2, 'Amazon')
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('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 24, '959', 'SSD', '2048', '4.1', 15.6, 16, 'Amazon')
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('Apple', 'MacBook Air', 'Apple', 'Mac OS', 'Apple M2', 85, '849.5', 'SSD', '256', '4.3', 15.0, 8, 'Amazon')
('HP', 'TPN-I140_799**AV', 'AMD', 'Windows 11 Home', 'Ryzen 5', 146, '626.88', 'SSD', '2048', '4.4', 17.3, 32, 'Amazon')
('Dell', 'Dell Latitude 7490', 'Intel', 'Windows 10 Pro', 'Core i5', 527, '200', 'SSD', '256', '4.5', 14.1, 16, 'Amazon')
('Apple', 'Macbook Air', 'Intel', 'macOS 10.12 Sierra', 'Core i5-5250U', 600, '149.99', 'SSD', '128', '4.4', 13.3, 8, 'Amazon')
('Lenovo', 'IdeaPad 3i', 'Intel', 'Windows 11 Pro', 'Intel Core i3', 14, '799.99', 'SSD', '2048', '3.4', 15.6, 24, 'Amazon')
('HP', 'laptop', 'Intel', 'Windows 11', 'Intel Pentium 4', 195, '399', 'SSD', '128', '4.3', 15.6, 16, 'Amazon')
('HP', 'TPN-I139_320M3AV', 'Intel', 'Windows 11 Home', 'Core i3 Family', 180, '360', 'SSD', '256', '4.3', 17.3, 8, 'Amazon')

('Dell', 'Dell 11" Chromebook', 'Intel', 'Chrome OS', 'Celeron', 864, '66.99', 'SSD', '16', '4.4', 11.0, 4, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 0, '749', 'SSD', '4096', '4.3', 14.0, 32, 'Amazon')
('TPV', 'AceBook', 'Intel', 'Windows 11 Pro', 'Core i5', 13, '309.99', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')
('HP', 'TPN-Q284_632**AV', 'Intel', 'Windows 11 Home', 'Pentium', 606, '308.98', 'SSD', '128', '4.2', 15.6, 16, 'Amazon')
('ASUS', 'VivoBook 16', 'AMD', 'Windows 11 Home', 'Ryzen 7', 68, '499.99', 'SSD', '2048', '4.4', 16.0, 16, 'Amazon')
('HP', 'HP 14inch Chromebook', 'AMD', 'Chrome OS', 'AMD A4', 626, '79.95', 'SSD', '32', '4', 14.0, 4, 'Amazon')
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('Dell', 'Inspiron', 'Intel', 'Windows 11 Pro', 'Core i5', 9, '679', 'SSD', '2048', '4.4', 15.6, 64, 'Amazon')
('HP', 'hp eg2000', 'Intel', 'Windows 11', 'Core i7 Family', 124, '779.99', 'SSD', '2048', '4.5', 15.6, 32, 'Amazon')
('HP', '2024 HP 17 Pavilion Laptop', 'Intel', 'Windows 11 Pro', 'Core i3', 56, '549', 'SSD', '2048', '4.4', 17.3, 32, 'Amazon')
('Lenovo', 'Laptop', 'Intel', 'Windows 11 Home', 'Pentium', 117, '360.99', 'SSD', '2048', '4.5', 15.6, 16, 'Amazon')
('Dell', 'Dell 11.6inch Chromebook', 'Intel', 'Chrome OS', 'Celeron', 380, '68', 'SSD', '16', '4.5', 11.6, 4, 'Amazon')
('ASUS', '2026 Flagship ASUS Vivobook 14', 'Intel', 'Windows 11 Pro', 'Core i3', 0, '399', 'SSD', '512', '4.5', 14.0, 16, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 1, '729', 'SSD', '4096', '1', 14.0, 64, 'Amazon')
('Oemgenuine', 'ThinkPad E15 Gen 2', 'AMD', 'Windows 10 Pro', 'Ryzen 5 4500U', 2, '829.95', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A13', 1, '119.99', 'EMMC', '64', '4.4', 10.1, 2, 'Amazon')
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('TPV', 'AceBook', 'Intel', 'Windows 11 Pro', 'Core i5', 13, '309.99', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')
('HP', 'Chromebook 15', 'Intel', 'Chrome OS', 'Pentium', 59, '299.98', 'EMMC', '128', '4.6', 15.6, 8, 'Amazon')
('HP', 'TPN-I139_4V788AV', 'Intel', 'Windows 11 Home', 'Core i7 Family', 364, '919.59', 'SSD', '4096', '4.1', 17.3, 64, 'Amazon')
('Apple', 'MacBook Air', 'Apple', 'macOs Ventura', 'Unknown', 460, '769', 'SSD', '256', '4.3', 13.6, 8, 'Amazon')
('HP', 'ProBook 450 G10', 'Intel', 'Windows 11 Pro', 'Core i7', 4, '769', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')
('Apple', 'MacBook Pro', 'Intel', 'macOS 10.12 Sierra', 'Core i5', 623, '379', 'SSD', '256', '4.3', 13.3, 8, 'Amazon')
('Lenovo', 'Legion 5i', 'Intel', 'Windows 11 Home', 'Core i7', 40, '1551.5', 'SSD', '512', '4', 16.0, 32, 'Amazon')
('Lenovo', 'ThinkPad E16', 'AMD', 'Windows 11 Pro', 'AMD Ryzen 7', 61, '848', 'SSD', '4096', '4.3', 16.0, 40, 'Amazon')
('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Core i5', 62, '429', 'SSD', '256', '4.5', 13.3, 16, 'Amazon')
('Lenovo', 'Lenovo IdeaPad 1 Laptop', 'Intel', 'Windows 11 S', 'Celeron', 33, '174.99', 'EMMC', '128', '4.5', 14.0, 4, 'Amazon')
('ASUS', '5Z8N', 'Intel', 'Windows 11 Home', 'Core i3 Family', 12, '311.85', 'SSD', '512', '4.2', 14.0, 16, 'Amazon')
('Dell', 'Inspiron 15 3511', 'Intel', 'Windows 11 Home', 'Core i3 Family', 391, '343.99', 'SSD', '256', '4.5', 15.6, 8, 'Amazon')
('Lenovo', 'Lenovo Thinkpad', 'AMD', 'Windows 10 Pro', 'AMD Ryzen 7', 0, '479', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
('Lenovo', 'ThinkPad', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 14, '1269', 'SSD', '8192', '4', 16.0, 40, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 0, '749', 'SSD', '4096', '4.3', 14.0, 32, 'Amazon')

('HP', 'HP Chromebook x360 14b-cd0010nr', 'Intel', 'Chrome OS', 'Core i3', 577, '469.99', 'SSD', '128', '4.4', 14.0, 8, 'Amazon')

('ASUS', 'Vivobook Go', 'Intel', 'Windows 11 Home', 'Celeron', 704, '219.99', 'SSD', '128', '4.5', 11.6, 4, 'Amazon')

('ACEMAGIC', 'AX15', 'Intel', 'window11', 'Intel Mobile CPU', 17, '359.98', 'SSD', '512', '4.3', 15.6, 16, 'Amazon')

('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Core i7', 314, '341', 'SSD', '512', '4.5', 15.0, 16, 'Amazon')

('MSI', 'Thin 15 B12UCX-2041US', 'Intel', 'Windows 11 Home', 'Intel Core i5', 873, '595', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')

('Apple', 'MacBook Air', 'Intel', 'Mac OS', 'Core i5', 208, '179', 'SSD', '128', '4.4', 13.3, 4, 'Amazon')

('HP', 'HP Stream', 'Intel', 'Windows 11 S', 'Celeron N', 210, '296.65', 'EMMC', '64', '4.6', 14.0, 16, 'Amazon')

('acer', 'Chromebook Spin 311', 'Intel', 'Chrome OS', 'Celeron', 242, '229', 'SSD', '32', '4.5', 11.6, 4, 'Amazon')

('Lenovo', 'Legion Pro 7i Gen 9', 'Intel', 'Windows 11 Pro', 'Intel Core i9', 8, '2550', 'SSD', '4096', '4.3', 16.0, 32, 'Amazon')

('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')

('HP', 'TPN-C164', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU', 0, '1492.91', 'SSD', '2048', '4', 17.3, 32, 'Amazon')

('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')

('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')

('HP', 'Elitebook', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 5, '1229', 'SSD', '4096', '4', 16.0, 64, 'Amazon')

('Lenovo', 'ThinkPad', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 14, '1049', 'SSD', '2048', '4', 16.0, 24, 'Amazon')

('Apple', 'MacBook Air', 'Intel', 'Mac OS', 'Core i5', 208, '179', 'SSD', '128', '4.4', 13.3, 4, 'Amazon')

('Dell', '3180 chromebook', 'Intel', 'Chrome OS', 'Celeron', 300, '83.59', 'SSD', '32', '4.4', 11.6, 4, 'Amazon')

('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Core i7', 314, '341', 'SSD', '512', '4.5', 15.0, 16, 'Amazon')

('HP', 'HP Pro', 'Intel', 'Windows 11', 'Celeron', 329, '169.99', 'SSD', '64', '4.5', 14.0, 4, 'Amazon')

('HP', 'TPN-Q245', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 71, '812', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')

('HP', 'HP 14inch laptop', 'Intel', 'Chrome OS', 'Core i3', 81, '379', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')

('HP', 'HP', 'Intel', 'Windows 11', 'Pentium', 13, '299.99', 'SSD', '128', '4.6', 15.6, 16, 'Amazon')

('Apple', 'MK193LL/A', 'Apple', 'Mac OS', 'Apple M1', 577, '1294.95', 'SSD', '2048', '4.4', 16.0, 16, 'Amazon')

('HP', 'HP', 'Intel', 'Windows 11 Home', 'Pentium', 52, '579', 'SSD', '2048', '4.4', 17.3, 16, 'Amazon')

('HP', 'Essential', 'Intel', 'Windows 11 Pro', 'Core i5', 97, '569.99', 'SSD', '2048', '4.1', 15.6, 32, 'Amazon')

('TPV', 'AceBook', 'Intel', 'Windows 11 Pro', 'Core i5', 13, '309.99', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')

('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')

('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')

('Apple', 'MacBook Air', 'Intel', 'OS X 10.10 Yosemite', 'Core i5', 574, '324.99', 'SSD', '128', '4.3', 13.3, 8, 'Amazon')

('Dell', 'XPS 13 9315', 'Intel', 'Windows 11 Pro', 'Core i7', 7, '1399', 'SSD', '512', '4.4', 13.4, 16, 'Amazon')

('Apple', 'MacBook Air', 'Apple', 'Mac OS', 'Unknown', 488, '739.99', 'SSD', '256', '4.5', 13.6, 8, 'Amazon')

('ASUS', 'G834JZR-XS96', 'Intel', 'Windows 11 Pro', 'Core i9', 144, '2781.05', 'SSD', '2048', '4', 18.0, 32, 'Amazon')

('ACEMAGIC', 'AX15', 'Intel', 'window11', 'Intel Mobile CPU', 17, '359.98', 'SSD', '512', '4.3', 15.6, 16, 'Amazon')

('HP', 'HP Chromebook', 'AMD', 'Chrome OS', 'AMD A Series', 475, '64', 'SSD', '32', '4.4', 16.0, 4, 'Amazon')

('Lenovo', '500w Gen 3', 'Intel', 'Windows 11 Home', 'Core m3-8100Y', 174, '299.99', 'SSD', '256', '4.6', 11.6, 8, 'Amazon')

('HP', 'HP Spectre x360', 'Intel', 'Chrome OS', 'Celeron N4020', 562, '149.99', 'SSD', '64', '4.5', 14.0, 4, 'Amazon')

('HP', 'HP 15.6"', 'Intel', 'Windows 11', 'Intel Core i5', 201, '464.99', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')

('Dell', 'Dell latitude 5420 Laptop', 'Intel', 'Windows 10 Pro', 'Core i7', 32, '359.78', 'SSD', '512', '4.3', 14.0, 16, 'Amazon')

('Lenovo', 'ThinkPad', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 22, '899', 'SSD', '2048', '4.3', 16.0, 24, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 0, '749', 'SSD', '4096', '4.3', 14.0, 32, 'Amazon')

('Dell', 'Dell Inspiron', 'AMD', 'Windows 11 Pro', '1.2GHz Cortex A8 Processor', 0, '649', 'SSD', '2048', '4.4', 15.6, 36, 'Amazon')

('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')

('Lenovo', 'ThinkBook 16 G4+ IAP', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU', 1, '1159', 'SSD', '4096', '4.4', 16.0, 64, 'Amazon')

('HP', 'Elitebook', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 5, '1079', 'SSD', '2048', '4', 16.0, 32, 'Amazon')

('acer', 'Aspire', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 518, '689', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')

('acer', 'Acer Chromebook', 'MediaTek', 'Chrome OS', 'MediaTek MT8183', 12, '89.99', 'SSD', '32', '4.6', 11.6, 4, 'Amazon')

('ASUS', 'Asus', 'Intel', 'Windows 10', 'Celeron', 651, '150.88', 'EMMC', '64', '4.5', 14.0, 4, 'Amazon')

('MSI', 'MSI GF63', 'Intel', 'Windows 11', 'Core i5 Family', 134, '635', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')

('Microsoft', 'Surface Laptop Go 3', 'Intel', 'Windows 11 Home', 'Core i5-1235U', 104, '749', 'SSD', '256', '4.5', 12.45, 8, 'Amazon')

('ApoloSign', 'NJP1561P', 'Intel', 'Windows 11 Home', 'Celeron N', 32, '649.99', 'SSD', '512', '4.4', 15.6, 12, 'Amazon')

('Dell', 'Dell G Series 16 7630 Laptop', 'Intel', 'Windows 11 Home', 'Core i9', 11, '1535.3', 'SSD', '2048', '4', 16.0, 16, 'Amazon')

('Dell', 'dell 5480', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 600, '155', 'SSD', '256', '4.5', 14.0, 8, 'Amazon')

('HP', '14-dq0070nr', 'Intel', 'Windows 11 S', 'Celeron N4020', 859, '240.99', 'EMMC', '4', '4.5', 14.0, 4, 'Amazon')

('Dell', 'DELL XPS 15 9530', 'Intel', 'Windows 11 Pro', 'Core i7', 15, '1576.75', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')

('Apple', 'MacBook Pro', 'Intel', 'macOS 10.13 High Sierra', 'Core i7', 149, '398.99', 'SSD', '512', '4.4', 15.0, 16, 'Amazon')

('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '529', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 24, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 2, '729', 'SSD', '4096', '5', 14.0, 32, 'Amazon')

('Lenovo', 'Ideapad 3i', 'Intel', 'Windows 11 Pro', 'Core i5', 600, '422', 'SSD', '512', '4.5', 15.6, 8, 'Amazon')

('Apple', 'MacBook Pro', 'Apple', 'Mac OS', 'Others', 69, '1639.99', 'SSD', '2048', '4.4', 16.2, 32, 'Amazon')

('ASUS', 'FX607JV-ES73', 'Intel', 'Windows 11 Home', 'Core i7', 1, '1029.99', 'SSD', '512', '4', 16.0, 16, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 38, '1189', 'SSD', '2048', '4', 15.6, 32, 'Amazon')

('HP', 'G9', 'AMD', 'Windows 11', 'Athlon', 42, '499.99', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')

('ACEMAGIC', 'AX16PRO', 'AMD', 'Windows 11', 'AMD Ryzen 7', 68, '599.99', 'SSD', '512', '4.3', 16.1, 16, 'Amazon')

('acer', 'Chromebook 516 GE', 'Intel', 'Chrome OS', 'Core i5-1240P', 36, '580.67', 'SSD', '256', '4.4', 16.0, 16, 'Amazon')

('HP', 'TPN-Q278_599J4AV', 'Intel', 'Windows 11 Home', 'Core i5 Family', 8, '672.99', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')

('Lenovo', 'IdeaPad Flex 5i', 'Intel', 'Chrome OS', 'Core i3 Family', 211, '499.98', 'SSD', '256', '4.4', 14.0, 8, 'Amazon')

('ASUS', 'G814JIR-XS96', 'Intel', 'Windows 11 Pro', 'Core i9', 141, '2212.99', 'SSD', '2048', '4', 18.0, 32, 'Amazon')

('Lenovo', 'ThinkBook 15 Gen 4', 'Intel', 'Windows 11 Pro', 'Core i7', 18, '635', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')

('Lenovo', 'ThinkPad', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 14, '1049', 'SSD', '2048', '4', 16.0, 24, 'Amazon')

('Lenovo', 'ThinkPad', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 11, '869', 'SSD', '2048', '4.3', 16.0, 24, 'Amazon')

('Oemgenuine', 'ThinkPad E15 Gen 2', 'AMD', 'Windows 10 Pro', 'Ryzen 5 4500U', 2, '829.95', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')

('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')

('HP', 'Elitebook', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 5, '1229', 'SSD', '4096', '4', 16.0, 64, 'Amazon')

('Lenovo', 'ThinkBook 16 G4+ IAP', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU', 0, '1039', 'SSD', '4096', '4.4', 16.0, 64, 'Amazon')

('ist computers', 'V14 Laptop', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 11, '449.99', 'SSD', '512', '4.5', 14.0, 16, 'Amazon')

('Dell', 'Dell Inspiron 15 3525 Laptop', 'AMD', 'Windows 11 Home', 'Ryzen 5', 232, '448', 'SSD', '512', '4.2', 15.6, 16, 'Amazon')

('HP', 'HP 15.6 inch Laptop PC', 'Intel', 'Windows 11 Home', 'Core i5', 281, '450', 'SSD', '512', '4.4', 15.6, 8, 'Amazon')

('Lenovo', 'IdeaPad Flex 5i', 'Intel', 'Chrome OS', 'Core i3', 277, '469', 'SSD', '128', '4.4', 14.0, 8, 'Amazon')

('Lenovo', 'Yoga 7i', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 16, '999.99', 'SSD', '2048', '4.3', 16.0, 16, 'Amazon')

('Lenovo', '21JT', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 111, '717', 'SSD', '2048', '4.5', 16.0, 24, 'Amazon')

('Lenovo', 'ThinkPad X1 Carbon Gen 11 Laptop PC', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 8, '1339.77', 'SSD', '2048', '4', 14.0, 32, 'Amazon')

('acer', 'Acer Chromebook Plus 514', 'Intel', 'Chrome OS', 'Intel Core i3', 38, '344.98', 'SSD', '128', '4.5', 14.0, 8, 'Amazon')

('ASUS', 'Q420V', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 67, '899', 'SSD', '2048', '4.4', 14.5, 16, 'Amazon')

('HP', 'TPN-Q279_598U1AV', 'AMD', 'Windows 11 Home', 'Ryzen 5', 856, '674.87', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')

('Apple', 'FBA_MQD42LL/A', 'Intel', 'Mac OS', 'Core i5', 172, '184.34', 'SSD', '256', '4.5', 13.3, 8, 'Amazon')

('Dell', 'Dell 11" Chromebook', 'Intel', 'Chrome OS', 'Celeron N', 17, '74.99', 'SSD', '32', '4.4', 11.0, 4, 'Amazon')

('HP', 'TPN-I139_767K9AV', 'Intel', 'Windows 11 Home', 'Core i5 Family', 5, '795.63', 'SSD', '2048', '4.3', 17.3, 32, 'Amazon')

('TPV', 'AceBook', 'Intel', 'Windows 11 Pro', 'Core i5', 13, '309.99', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')

('Lenovo', 'ThinkPad', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 11, '1099', 'SSD', '8192', '4', 16.0, 40, 'Amazon')

('HP', 'HP Stream', 'Intel', 'Windows 11 S', 'Celeron', 413, '298', 'EMMC', '128', '4.6', 14.0, 16, 'Amazon')

('HP', 'EliteBook 840', 'Intel', 'Windows 10 Pro', 'Core i5 6200U', 543, '158.68', 'SSD', '256', '4.5', 14.0, 16, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 24, '889', 'SSD', '2048', '4.3', 15.6, 32, 'Amazon')

('Apple', 'MacBook Air', 'Intel', 'macOS 12 Monterey', 'Core i5 5300U', 441, '139.99', 'HDD', '128', '4.4', 11.6, 8, 'Amazon')

('Lenovo', 'IdeaPad 1 15IJL7', 'Intel', 'Windows 11 Home', 'Celeron', 297, '288.15', 'SSD', '512', '4.6', 15.6, 12, 'Amazon')

('Apple', 'MacBook Air', 'Intel', 'Mac OS', 'Core i5', 173, '384.95', 'SSD', '512', '4.5', 13.0, 8, 'Amazon')

('Lenovo', 'X1 Carbon Gen 11', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 29, '11 39.11', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')
('HP', 'TPN-Q278_599J4AV', 'Intel', 'Windows 11 Home', 'Core i5 Family', 5, '728', 'SSD', '2048', '4.5', 15.6, 32, 'Amazon')
('SAMSUNG', 'Samsung Chromebook Plus V2', 'Intel', 'Chrome OS', 'Celeron', 259, '2 79.98', 'SSD', '128', '4.6', 12.2, 4, 'Amazon')
('Hp', 'Multitasking Slim', 'Intel', 'Windows 11', 'Intel Mobile CPU', 29, '349.8 5', 'SSD', '128', '4.2', 15.6, 16, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 2, '729', 'SSD', '8192', '5', 14.0, 64, 'Amazon')
('HP', 'TPN-C164', 'Intel', 'Windows 11 Home', 'Intel Mobile CPU', 0, '1536.59', 'SSD', '4096', '4.4', 17.3, 64, 'Amazon')
('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMM C', '64', '4.5', 10.1, 2, 'Amazon')
('Lenovo', 'ThinkPad', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 14, '1049', 'SS D', '2048', '4', 16.0, 24, 'Amazon')
('Lenovo', 'ThinkPad', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 11, '869', 'SSD', '204 8', '4.3', 16.0, 24, 'Amazon')
('Apple', 'MacBook Pro', 'Apple', 'Mac OS', 'Apple M1', 269, '619.97', 'SSD', '51 2', '4.4', 13.3, 8, 'Amazon')
('ASUS', 'ROG Flow Z13', 'Intel', 'Windows 11 Home', 'Core i9', 96, '1574.99', 'SS D', '2048', '4', 13.4, 16, 'Amazon')
('Lenovo', 'ThinkPad P15v Gen 3', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 2, '1259', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')
('Lenovo', 'T480s', 'Intel', 'Windows 10 Pro', 'Intel Core i7', 405, '321.74', 'SS D', '512', '4.5', 14.0, 24, 'Amazon')
('FUNYET', 'DuetBook', 'Intel', 'Windows 11 Pro', 'Celeron', 531, '349.99', 'SSD', '512', '4.2', 16.0, 16, 'Amazon')
('Naclud', 'M17S', 'Intel', '11', 'Celeron', 34, '239.99', 'SSD', '128', '4.5', 1 7.3, 4, 'Amazon')
('BiTECOOL', 'HaloBook', 'Intel', 'Windows 11 Pro', 'Core i3', 266, '289', 'SSD', '512', '4.6', 15.6, 16, 'Amazon')
('SAMSUNG', 'Chromebook Plus V2', 'Intel', 'Chrome OS', 'Celeron', 83, '238.99', 'SSD', '64', '4.5', 12.2, 4, 'Amazon')
('NIAKUN', 'NiaBook', 'Intel', 'Windows 11 Pro', 'Celeron', 68, '359.99', 'SSD', '512', '4.3', 16.0, 16, 'Amazon')
('ist computers', 'Lenovo Thinkpad', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 60, '699. 99', 'SSD', '512', '4.4', 16.0, 16, 'Amazon')
('ASUS', 'TUF Gaming A16', 'AMD', 'Windows 11 Home', 'Ryzen 7', 48, '1568', 'SSD', '1000', '4', 16.0, 16, 'Amazon')
('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '529', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
('HP', 'Elitebook', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 5, '1079', 'SSD', '2048', '4', 16.0, 32, 'Amazon')
('acer', 'Chromebook Spin 713', 'Intel', 'Chrome OS', 'Core i3-10110U', 6, '104.9 9', 'EMMC', '64', '4.4', 13.5, 4, 'Amazon')
('Dell', 'Dell Latitude 7420 Laptop', 'Intel', 'Windows 11 Pro', 'Intel Core i7-11 65G7', 74, '386.65', 'SSD', '512', '4.5', 14.0, 16, 'Amazon')
('HP', 'HP Laptop', 'Intel', 'Windows 11 S', 'Core i3', 112, '342.97', 'SSD', '25 6', '4.5', 15.6, 8, 'Amazon')
('HP', 'HP', 'Intel', 'Windows 11 Pro', 'Intel Core i3', 70, '519', 'SSD', '2048', '4.4', 17.3, 32, 'Amazon')
('Dell', 'Dell XPS 15', 'Intel', 'Windows 11 Pro', 'Core i7', 149, '1759.99', 'SS D', '2048', '4', 15.6, 32, 'Amazon')
('HP', 'HP', 'Intel', 'Windows 11', 'Pentium', 50, '329.99', 'SSD', '128', '4.5', 15.6, 16, 'Amazon')
('HP', 'HP Chromebook 14a-na0031wm', 'Intel', 'Chrome OS', 'Celeron N', 851, '149. 99', 'EMMC', '64', '4.6', 14.0, 4, 'Amazon')
('HP', 'Pavilion', 'AMD', 'Windows 11', 'AMD R Series', 259, '412', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')
('HP', 'HP', 'Intel', 'Windows 11 Pro', 'Core i3', 61, '549', 'SSD', '2048', '4. 4', 17.3, 32, 'Amazon')

('jumper', 'EZbook S5Max', 'Intel', '11', 'Celeron', 65, '199.99', 'EMMC', '128', '4.4', 16.0, 4, 'Amazon')
 ('Apple', 'MacBook Pro', 'Apple', 'Mac OS', 'Unknown', 264, '799.98', 'SSD', '256', '4.4', 13.0, 8, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 2, '729', 'SSD', '2048', '5', 14.0, 16, 'Amazon')
 ('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
 ('TPV', 'AceBook', 'Intel', 'Windows 11 Pro', 'Core i5', 13, '309.99', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')
 ('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')
 ('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
 ('TPV', 'AceBook', 'Intel', 'Windows 11 Pro', 'Core i5', 13, '309.99', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')
 ('HP', 'HP EliteBook', 'Intel', 'Windows 10 Pro', 'Core i7', 750, '248', 'SSD', '512', '4.5', 14.0, 16, 'Amazon')
 ('HP', 'hp 15', 'Intel', 'Windows 11', 'Core i3', 17, '548.55', 'SSD', '512', '4.4', 15.6, 32, 'Amazon')
 ('Dell', 'Dell Chromebook 11', 'Intel', 'Chrome OS', 'Celeron N3060', 356, '54.99', 'SSD', '16', '4.1', 11.6, 4, 'Amazon')
 ('Lenovo', 'ThinkBook 15 G3 ACL', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 2, '603', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
 ('Lenovo', 'ThinkPad T14s', 'Intel', 'Windows 11 Pro', 'Core i7', 11, '469.99', 'SSD', '512', '4.4', 14.0, 32, 'Amazon')
 ('Lenovo', 'V15', 'Intel', 'Windows 11 Pro', 'Core i5', 42, '569', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
 ('ACEMAGIC', 'AX16PRO', 'AMD', 'Windows 11', 'AMD Ryzen 7', 48, '599.99', 'SSD', '512', '4.2', 16.1, 16, 'Amazon')
 ('HP', 'HP', 'AMD', 'Windows 11 Home', 'Ryzen 3', 80, '369', 'SSD', '256', '4.3', 17.3, 8, 'Amazon')
 ('HP', 'HP Laptop 14-dq5009nr', 'Intel', 'Windows 11 Home', 'Core i3', 240, '314.99', 'SSD', '256', '4.2', 14.0, 8, 'Amazon')
 ('Samsung', 'NP964XGK-KG1US', 'Intel', 'Windows 11 Pro', '1.2GHz Cortex A8 Processor', 20, '1799', 'SSD', '2048', '4.4', 16.0, 32, 'Amazon')
 ('ASUS', 'Business Laptop', 'Intel', 'Windows 11 Pro', 'Intel Core i3', 34, '499', 'SSD', '2048', '4.4', 14.0, 24, 'Amazon')
 ('ist computers', 'V15 G3 Business Laptop', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 14, '728.98', 'SSD', '2048', '4.5', 15.6, 40, 'Amazon')
 ('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')
 ('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '575.1', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
 ('HP', 'HP Essential', 'Intel', 'Windows 11 Home', 'Pentium N5000', 0, '379', 'SSD', '2048', '4.5', 14.0, 8, 'Amazon')
 ('WIPEMIK', 'M', 'Intel', '11 Pro', 'Celeron N', 8, '199', 'SSD', '256', '4.4', 14.0, 8, 'Amazon')
 ('ASUS', 'Asus Chromebook', 'Intel', 'Chrome OS', 'Celeron N3350', 659, '127.99', 'SSD', '64', '4.6', 14.0, 4, 'Amazon')
 ('acer', 'Aspire 5', 'AMD', 'Windows 10 Home', 'Ryzen 3 3200U', 929, '399', 'SSD', '128', '4.3', 15.6, 4, 'Amazon')
 ('HP', '15-ey0013dx', 'AMD', 'Windows 11 Home', 'AMD R Series', 86, '508.98', 'SSD', '256', '4.4', 15.6, 8, 'Amazon')
 ('Apple', 'MacBook Air', 'Intel', 'macOS 10.15 Catalina', 'Intel Core i5', 296, '466.9', 'SSD', '256', '4.4', 13.3, 8, 'Amazon')
 ('HP', 'HP Laptop 17', 'AMD', 'Windows 11 Home', 'Ryzen 5', 15, '519.99', 'SSD', '2048', '4.4', 17.3, 32, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 10 Pro', 'Pentium', 251, '102.8', 'SSD', '64', '4.4', 11.6, 4, 'Amazon')
 ('ASUS', 'FX507VI-F15.I74070', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 10, '1391.99', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')
 ('Lenovo', 'ThinkPad', 'Intel', 'Windows 10 Pro', 'Core i5', 460, '243.97', 'SSD', '512', '4.5', 14.0, 16, 'Amazon')

('Dell', 'Dell Inspiron Laptop', 'Intel', 'Windows 11', 'Intel Celeron D', 16, '469', 'SSD', '2048', '4.4', 15.6, 64, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 10, '1296.71', 'SSD', '4096', '4', 15.6, 64, 'Amazon')

('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 38, '1299', 'SSD', '2048', '4', 15.6, 16, 'Amazon')

('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')

('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '575.1', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')

('Lenovo', 'ThinkBook 16 G4+ IAP', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU', 1, '1159', 'SSD', '4096', '4.4', 16.0, 64, 'Amazon')

('jumper', 'EZbook S7Hi', 'Intel', 'Windows 11', 'Celeron 5205U', 8, '379.99', 'SSD', '128', '4.3', 15.6, 4, 'Amazon')

('MSI', 'Raider GE68HX 14VHG-286US', 'Intel', 'Windows 11 Home', 'Intel Core i9', 3, '3199', 'SSD', '4096', '3.4', 16.0, 64, 'Amazon')

('ist computers', 'EliteBook 845 G8', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 68, '579.99', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')

('Lenovo', 'Lenovo Thinkpad Yoga', 'Intel', 'Windows 10', 'Celeron N', 520, '99', 'SSD', '128', '4.5', 11.6, 4, 'Amazon')

('acer', 'CB315-4H-C8XU', 'Intel', 'Chrome OS', 'Celeron', 41, '189', 'SSD', '64', '4.4', 15.6, 4, 'Amazon')

('Dell', 'Latitude 7430', 'Intel', 'Windows 11 Pro', 'Core i7', 12, '594.02', 'SSD', '512', '4.4', 14.0, 32, 'Amazon')

('Dell', 'Inspiron 15 3520', 'Intel', 'Windows 11 Home', 'Core i7 Family', 51, '633.95', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')

('Lenovo', 'Lenovo V15 G2 IJL', 'Intel', 'Windows 11 Pro', 'Celeron', 0, '349', 'SSD', '2048', '3.8', 15.6, 16, 'Amazon')

('Dell', 'Latitude 3380', 'Intel', 'Windows 10 Pro', 'Core i3 Family', 136, '119.99', 'SSD', '128', '4.4', 13.3, 4, 'Amazon')

('HP', 'HP', 'Intel', 'Windows 11 Home', 'Core i3-1115G4E', 364, '417.99', 'SSD', '2048', '4.5', 15.6, 16, 'Amazon')

('MSI', 'Stealth 16 AI Studio A1VGG-036US', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU', 49, '2599', 'SSD', '2048', '4', 16.0, 64, 'Amazon')

('HP', 'Elitebook', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 5, '1079', 'SSD', '2048', '4', 16.0, 32, 'Amazon')

('Lenovo', 'ThinkPad', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 11, '869', 'SSD', '2048', '4.3', 16.0, 24, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 24, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')

('acer', 'Nitro V Gaming Laptop ANV15-51-92XK', 'Intel', 'Windows 11 Home', 'Intel Core i9', 305, '1349.99', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')

('Lenovo', 'V15', 'Intel', 'Windows 11 Home', 'Intel Pentium 4', 138, '325.98', 'SSD', '256', '4.5', 15.0, 40, 'Amazon')

('Lenovo', 'T14 Gen 1', 'Intel', 'Windows 11 Pro', 'Core i5 Family', 81, '314', 'SSD', '512', '4.5', 14.0, 16, 'Amazon')

('Lenovo', 'Ideapad', 'Intel', 'Windows 11 Home', 'Intel Core i3', 509, '320', 'SSD', '256', '4.5', 15.6, 8, 'Amazon')

('HP', 'HP', 'Intel', 'Windows 11', 'Pentium', 153, '329.98', 'EMMC', '2048', '4.2', 14.0, 16, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '829.99', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')

('ASUS', 'Zenbook Pro 14', 'Intel', 'Windows 11 Home', 'Core i9', 101, '2094.99', 'SSD', '2048', '4.3', 14.5, 32, 'Amazon')

('Oemgenuine', 'Latitude 3550', 'Intel', 'Windows 11 Pro', 'Core i5', 16, '819.95', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')

('ApoloSign', 'NJP1561P', 'Intel', 'Windows 11 Home', 'Celeron N', 8, '629.99', 'SSD', '512', '4.4', 15.6, 12, 'Amazon')

('Microsoft', 'Surface Laptop 3 15"', 'Intel', 'Windows 11 Pro', 'Core i5', 45, '394.03', 'SSD', '256', '4.3', 15.0, 16, 'Amazon')

('Lenovo', 'V15', 'Intel', 'Windows 11 Pro', 'Celeron', 2, '599.99', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')

('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')

('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')

('Lenovo', 'ThinkPad', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 22, '889', 'SSD', '2048', '4.3', 16.0, 16, 'Amazon')

('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMM C', '64', '4.5', 10.1, 2, 'Amazon')

('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')

('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')

('MSI', 'Titan 18 HX A14VIG-036US', 'Intel', 'Windows 11 Pro', 'Intel Core i9', 14, '4939', 'SSD', '8192', '5', 18.0, 128, 'Amazon')

('ist computers', 'ThinkPad T16', 'Intel', 'Windows 11 Pro', 'Core i7', 8, '1299', 'SSD', '2048', '4', 16.0, 32, 'Amazon')

('Lenovo', 'LOQ 15', 'AMD', 'Windows 11 Home', 'Ryzen 7', 17, '991.85', 'SSD', '512', '4.1', 15.6, 16, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 10, '1007.98', 'SSD', '512', '4', 15.6, 16, 'Amazon')

('Dell', 'Latitude E7470', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 521, '151.09', 'SSD', '256', '4.5', 14.0, 8, 'Amazon')

('Microsoft', 'Microsoft Surface', 'Intel', 'Windows 10', 'Core i7', 65, '374.99', 'SSD', '256', '4.3', 13.5, 16, 'Amazon')

('HP', 'HP Laptop', 'AMD', 'Windows 11 Home', 'Ryzen 5', 40, '759.99', 'SSD', '4096', '4.5', 17.3, 64, 'Amazon')

('Samsung', 'XE530QDA-KA1US', 'Intel', 'Chrome OS', 'Core i3', 191, '454.99', 'SSD', '128', '4.4', 13.3, 8, 'Amazon')

('acer', 'Spin 311 2H', 'Intel', 'Chrome OS', 'MediaTek MT8183', 480, '257.5', 'EMC', '64', '4.6', 11.6, 4, 'Amazon')

('Apple', 'MacBook Pro', 'Intel', 'macOS 10.12 Sierra', 'Core i7', 948, '404.97', 'SSD', '512', '4.5', 15.0, 16, 'Amazon')

('Dell', 'Inspiron 15 3000 3520', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 49, '511.02', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')

('HP', 'Newest HP 14 Inch Laptop', 'Intel', 'Windows 11 Home', 'Celeron N', 47, '249', 'EMMC', '64', '4.5', 14.0, 4, 'Amazon')

('TPV', 'AceBook', 'Intel', 'Windows 11 Pro', 'Core i5', 13, '309.99', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')

('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '575.1', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')

('HP', 'HP Essential', 'Intel', 'Windows 11 Home', 'Pentium N5000', 0, '379', 'SSD', '2048', '4.5', 14.0, 8, 'Amazon')

('HP', 'HP', 'Intel', 'Windows 11 Pro', 'Core i5-1235U', 280, '599', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')

('Lapbook', 'S15', 'Intel', 'Windows 11 Home S Edition', 'Celeron N4020', 154, '19.99', 'SSD', '512', '4.4', 15.6, 8, 'Amazon')

('HP', 'HP-840G6', 'Intel', 'Windows 10 Pro', 'Core i5', 141, '215.89', 'SSD', '256', '4.5', 14.0, 16, 'Amazon')

('Apple', 'MacBook Pro', 'Apple', 'macOS Sonoma', '1', 10, '1587', 'SSD', '512', '4.4', 14.2, 18, 'Amazon')

('HP', 'HP Stream', 'Intel', 'Windows 11 S', 'Celeron N', 480, '309', 'EMMC', '64', '4.5', 14.0, 16, 'Amazon')

('acer', 'A514-56M-576D', 'Intel', 'Windows 11 Home', 'Core i5', 40, '439.89', 'SSD', '512', '4.5', 14.0, 8, 'Amazon')

('jumper', 'EZbook S7MAX', 'Intel', 'Windows 11 Home', 'Celeron', 7, '327.96', 'SSD', '640', '4.2', 16.0, 12, 'Amazon')

('Dell', 'Inspiron 15 3520 Laptop', 'Intel', 'Windows 11 Home', 'Core i5', 36, '380', 'SSD', '256', '4.3', 15.6, 8, 'Amazon')

('HP', 'HP Chromebook', 'Intel', 'Chrome OS', 'Celeron N', 39, '154.99', 'EMMC', '64', '4.5', 14.0, 4, 'Amazon')

('HP', 'HP Laptop 17-cp2099nr', 'AMD', 'Windows 11 Home', 'Ryzen 5', 46, '550', 'SSD', '512', '4.4', 17.3, 16, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 10, '1296.71', 'SSD', '4096', '4', 15.6, 64, 'Amazon')

('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 6, '1499', 'SSD', '8192', '4', 15.6, 64, 'Amazon')

('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMM C', '64', '4.5', 10.1, 2, 'Amazon')

('Lenovo', 'ThinkPad', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 11, '1099', 'SSD', '8192', '4', 16.0, 40, 'Amazon')

('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')

('acer', 'AN515-58-525P', 'Intel', 'Windows 11 Home', 'Core i5', 827, '669.88', 'SSD', '512', '4.4', 15.6, 8, 'Amazon')

('HP', 'Notebook', 'AMD', 'Windows 11', 'Ryzen 3 3250U', 504, '379', 'SSD', '2048', '4.3', 14.0, 16, 'Amazon')

('acer', 'Predator Helios 16 PH16-71-71AV', 'Intel', 'Windows 11 Home', 'Intel Core i7', 3, '1189.99', 'SSD', '2048', '4.4', 16.0, 16, 'Amazon')

('Dell', 'Dell 11.5 Chromebook', 'Intel', 'Chrome OS', 'Celeron', 2, '74.99', 'SSD', '32', '4.4', 11.5, 4, 'Amazon')

('Apple', 'MacBook Pro', 'Apple', 'Mac OS', 'Apple M1', 61, '799.95', 'SSD', '512', '4.4', 13.3, 16, 'Amazon')

('Microsoft', 'Surface Laptop 5', 'Intel', 'Windows 11 Pro', 'Core i7', 1, '1231.1', 'SSD', '512', '4.4', 13.5, 16, 'Amazon')

('Lenovo', 'ThinkPad X1 Carbon Gen 12', 'Intel', 'Windows 11 Pro', 'Core i7', 0, '1543.99', 'SSD', '512', '4', 14.0, 32, 'Amazon')

('HP', 'TPN-I139', 'Intel', 'Windows 11 Home', 'Core i7 Family', 68, '795', 'SSD', '2048', '4.5', 17.3, 32, 'Amazon')

('ist computers', 'ThinkPad E16', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 13, '649.98', 'SSD', '512', '4.4', 16.0, 16, 'Amazon')

('ist computers', 'ThinkPad T14', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 31, '799.98', 'SSD', '512', '4.5', 14.0, 16, 'Amazon')

('Lenovo', 'ThinkPad', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 14, '1049', 'SSD', '2048', '4', 16.0, 24, 'Amazon')

('Lenovo', 'Lenovo Thinkpad', 'AMD', 'Windows 10 Pro', 'AMD Ryzen 7', 0, '479', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')

('Lenovo', 'ThinkBook 16 G4+ IAP', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU', 1, '1159', 'SSD', '4096', '4.4', 16.0, 64, 'Amazon')

('SGIN', 'SGIN-M15', 'Intel', '11', 'Celeron', 8, '189.99', 'SSD', '128', '4.4', 15.6, 4, 'Amazon')

('SAMSUNG', 'Lenovo', 'Intel', 'Windows 11 Pro', 'Core i7', 44, '699', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')

('ist computers', 'ThinkPad E15 Gen 4', 'AMD', 'Windows 11 Pro', 'AMD Ryzen 7', 50, '799.99', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')

('Lenovo', 'Lenovo 500E', 'Intel', 'Chrome OS', 'Celeron N3450', 509, '84.95', 'SSD', '32', '4.4', 11.6, 4, 'Amazon')

('Apple', 'MacBook Pro', 'Apple', 'Mac OS', 'Unknown', 86, '1347', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')

('Alienware', 'Alienware m18 AMD Gaming Laptop', 'AMD', 'Windows 11 Home', 'Ryzen 9', 204, '2650.68', 'SSD', '2048', '4.3', 18.0, 32, 'Amazon')

('Lenovo', 'ThinkPad X1 Carbon Gen 12', 'Intel', 'Windows 11 Pro', 'Core i7', 3, '939', 'SSD', '2048', '5', 14.0, 32, 'Amazon')

('Dell', 'Inspiron 3000', 'Intel', 'Windows 11 Pro', 'Core i5', 59, '467', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')

('Apple', 'MacBook Air', 'Apple', 'macOS 10.15 Catalina', 'Unknown', 130, '825', 'SSD', '256', '4.4', 15.0, 8, 'Amazon')

('Dell', 'Dell Latitude', 'Intel', 'Windows 11', 'Core i7', 139, '349.9', 'SSD', '2048', '4.5', 13.3, 16, 'Amazon')

('acer', 'Chromebook Spin 713', 'Intel', 'Chrome OS', 'Core i3-10110U', 6, '104.99', 'EMMC', '64', '4.4', 13.5, 4, 'Amazon')

('Oemgenuine', 'ThinkPad E16 Gen 1', 'Intel', 'Windows 11 Pro', 'Core i5', 42, '799.95', 'SSD', '250', '4.5', 15.6, 16, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 19, '949', 'SSD', '4096', '4.3', 14.0, 32, 'Amazon')

('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A13', 1, '119.99', 'EMMC', '64', '4.4', 10.1, 2, 'Amazon')

('HP', 'HP', 'Intel', 'Windows 11', 'Intel Core i3', 2, '449.99', 'SSD', '512', '4.2', 17.3, 16, 'Amazon')
 ('ASUS', 'Strix G16', 'Intel', 'Windows 11 Home', 'Core i7', 331, '1274.99', 'SSD', '2048', '4', 16.0, 16, 'Amazon')
 ('Lenovo', 'ThinkPad X1 Carbon Gen 12', 'Intel', 'Windows 11 Pro', 'Core i7', 0, '2298.83', 'SSD', '4096', '4.3', 14.0, 64, 'Amazon')
 ('SAMSUNG', 'Chromebook 4+', 'Intel', 'Chrome OS', 'Celeron N3450', 568, '210', 'SSD', '64', '4.5', 15.6, 4, 'Amazon')
 ('ist computers', 'Lenovo Thinkpad E16', 'Intel', 'Windows 11 Pro', 'Core i5 Family', 109, '799.99', 'SSD', '512', '4.5', 16.0, 16, 'Amazon')
 ('Oemgenuine', 'ThinkPad E16', 'Intel', 'Windows 11 Pro', 'Core i5', 42, '779.95', 'SSD', '500', '4.5', 15.6, 16, 'Amazon')
 ('HP', '250', 'Intel', 'Windows 11 Home', 'Celeron', 167, '569.99', 'SSD', '4096', '4.4', 15.6, 32, 'Amazon')
 ('Lenovo', 'N23 Yoga Chromebook', 'MediaTek', 'Chrome OS', 'H8S', 305, '74.99', 'SSD', '32', '4.4', 11.6, 4, 'Amazon')
 ('HP', '11-G2 X360', 'Intel', 'Windows 10 Pro', 'Intel Core M-5Y10 Processor', 108, '119', 'SSD', '128', '4.4', 11.6, 8, 'Amazon')
 ('Lenovo', 'ThinkPad X1 Carbon Gen 12', 'Intel', 'Windows 11 Pro', 'Others', 9, '1849.99', 'SSD', '4096', '4.4', 14.0, 32, 'Amazon')
 ('Apple', 'Macbook Pro', 'Apple', 'Mac OS', 'Apple M1', 0, '614.99', 'SSD', '256', '4.4', 13.3, 8, 'Amazon')
 ('Apple', 'MacBook Pro', 'Apple', 'Mac OS', 'Apple M1', 103, '624.95', 'SSD', '256', '4.4', 13.3, 8, 'Amazon')
 ('Dell', 'Latitude 7430', 'Intel', 'Windows 11 Pro', 'Core i7', 5, '597', 'SSD', '512', '4.4', 14.0, 32, 'Amazon')
 ('Lenovo', '82YN0002US', 'Intel', 'Windows 11 Home', 'Intel Core i7-1355U', 26, '841.68', 'SSD', '512', '4.3', 16.0, 16, 'Amazon')
 ('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
 ('jumper', 'EZbook S5', 'Intel', 'Windows 11', 'Celeron', 12, '409.99', 'SSD', '512', '4.5', 14.0, 12, 'Amazon')
 ('HP', 'Essential', 'Intel', 'Windows 11 S', 'Celeron', 0, '399.99', 'SSD', '256', '4.3', 15.6, 32, 'Amazon')
 ('acer', 'Acer Aspire 3', 'AMD', 'Windows 11 Home', 'Ryzen 7', 170, '445', 'SSD', '512', '4.2', 15.6, 16, 'Amazon')
 ('Apple', 'MV962LL/A', 'Intel', 'Mac OS', 'Core i5', 395, '404.05', 'SSD', '256', '4.5', 13.3, 8, 'Amazon')
 ('acer', 'Swift Go 14', 'Intel', 'Windows 11 Home', 'Intel Core i7', 69, '799.99', 'SSD', '2048', '4.3', 14.0, 16, 'Amazon')
 ('ASUS', 'FA617_280W', 'AMD', 'Windows 11 Home', 'Ryzen 7', 4, '1099', 'SSD', '4096', '4.4', 16.0, 32, 'Amazon')
 ('MSI', 'Raider GE78HX 14VIG-600US', 'Intel', 'Windows 11 Home', 'Intel Core i9', 5, '3499', 'SSD', '4096', '3.4', 17.0, 64, 'Amazon')
 ('Lenovo', 'Lenovo IdeaPad 3', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 83, '699', 'SSD', '2048', '4.4', 15.6, 40, 'Amazon')
 ('HP', 'HP Laptop 15-ef2024nr', 'AMD', 'Windows 11 Home', 'Ryzen 3', 489, '336.95', 'SSD', '256', '4.5', 15.0, 8, 'Amazon')
 ('Lenovo', 'lenovo', 'Intel', 'Windows 11', 'Celeron N', 243, '296.29', 'SSD', '256', '4.6', 15.6, 12, 'Amazon')
 ('LG', '17Z90SP-G.ADB9U1', 'Intel', 'Windows 11 Home', 'Intel Core Ultra 7', 42, '1849', 'SSD', '4096', '4', 17.0, 32, 'Amazon')
 ('ASUS', 'Zenbook S', 'Intel', 'Windows 11 Pro', 'Core i7', 8, '1399', 'SSD', '1000', '4.4', 13.3, 32, 'Amazon')
 ('HP', 'HP 14" Chromebook', 'Intel', 'Chrome OS', 'Celeron', 268, '199.99', 'SSD', '64', '4.4', 14.0, 4, 'Amazon')
 ('jumper', 'Ezbook S5MAX', 'Intel', 'Windows 11', 'Intel Mobile CPU', 41, '329.99', 'SSD', '512', '4.5', 16.0, 16, 'Amazon')
 ('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 1, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
 ('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A13', 1, '119.99', 'EMMC', '64', '4.4', 10.1, 2, 'Amazon')
 ('HP', 'TPN-C164', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU', 0, '1699', 'SSD', '2048', '4', 17.3, 16, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 1, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')

('jumper', 'EZbook S5 MAX', 'Intel', 'Windows 11 Home', 'Celeron', 12, '329.99', 'SSD', '512', '3', 16.0, 16, 'Amazon')

('Dell', 'Inspiron', 'Intel', 'Windows 11 Home', 'Core i5-1035G1', 619, '504.69', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')

('WIPEMIK', 'P15', 'Intel', 'Windows 11 Pro', 'core_m', 98, '289', 'SSD', '512', '4.6', 15.6, 16, 'Amazon')

('ACEMAGIC', 'AX16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 10, '341.96', 'SSD', '512', '4.5', 16.0, 16, 'Amazon')

('Lenovo', 'Laptop', 'Intel', 'Windows 11 Pro', 'Celeron', 66, '499.99', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')

('ApoloSign', 'NJP1561P', 'Intel', 'Windows 11', 'Celeron N5095', 7, '799.99', 'SSD', '512', '4.5', 15.6, 12, 'Amazon')

('acer', 'Acer Chromebook', 'Intel', 'Chrome OS', 'Celeron', 71, '51', 'EMMC', '32', '4.1', 11.6, 4, 'Amazon')

('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Intel Core i7', 224, '476.99', 'SSD', '256', '4', 15.4, 16, 'Amazon')

('Apple', 'MacBook Air', 'Apple', 'macOS Sonoma', 'Unknown', 3, '849', 'SSD', '256', '4.3', 13.6, 8, 'Amazon')

('Lenovo', 'ThinkPad E16 Gen 1', 'Intel', 'Windows 11 Pro', 'Core i7', 10, '818.98', 'SSD', '512', '4.4', 16.0, 16, 'Amazon')

('Dell', 'Dell Latitude 5420', 'Intel', 'Windows 10 Pro', 'Core i5', 78, '279.99', 'SSD', '512', '4.6', 14.0, 16, 'Amazon')

('HP', 'HP Elitebook 840 G5', 'Intel', 'Windows 11', 'Core i5', 193, '240', 'SSD', '512', '4.5', 14.0, 16, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 24, '819', 'SSD', '512', '4.3', 15.6, 16, 'Amazon')

('Oemgenuine', 'ThinkPad E15 Gen 2', 'AMD', 'Windows 10 Pro', 'Ryzen 5 4500U', 2, '829.95', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 1, '1319', 'SSD', '4096', '4', 15.6, 64, 'Amazon')

('jumper', 'Ezbook S5MAX', 'Intel', 'Windows 11', 'Intel Mobile CPU', 41, '329.99', 'SSD', '512', '4.5', 16.0, 16, 'Amazon')

('Microsoft', 'Microsoft Surface', 'Intel', 'Windows 11', 'Core i7', 15, '500.23', 'SSD', '256', '4.4', 13.5, 16, 'Amazon')

('Apple', 'MacBook Pro', 'Intel', 'macOS 10.15 Catalina', 'Core i7', 12, '519.99', 'SSD', '512', '4.4', 16.0, 32, 'Amazon')

('Dell', 'Latitude 7400', 'Intel', 'Windows 10 Pro', 'Core i7', 211, '229', 'SSD', '512', '4.5', 14.0, 16, 'Amazon')

('Lenovo', 'IdeaPad Slim 3i', 'Intel', 'Windows 11 Home', 'Core i5 Family', 12, '547.85', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')

('HP', 'HP', 'Intel', 'Windows 11', 'Celeron', 93, '237.59', 'EMMC', '128', '4.5', 14.0, 16, 'Amazon')

('HP', 'Newest HP 14 Inch Laptop', 'Intel', 'Windows 11 Home', 'Celeron N', 139, '239', 'EMMC', '64', '4.5', 14.0, 4, 'Amazon')

('Dell', 'Dell Mobile Workstation 7670', 'Intel', 'Windows 11 Pro', 'Core i7', 7, '1788.99', 'SSD', '4096', '4', 16.0, 64, 'Amazon')

('HP', 'HP Pavilion Laptop 15-eg2025nr', 'Intel', 'Windows 11 Pro', 'Core i7', 584, '764.03', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')

('Dell', 'Dell Latitude', 'Intel', 'Windows 10 Pro', 'Core i7', 58, '165.6', 'SSD', '512', '4.5', 14.0, 16, 'Amazon')

('HP', 'Laptop', 'Intel', 'Windows 11 Home', 'Core i5', 383, '569.99', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')

('HP', 'Elitebook', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 5, '1369', 'SSD', '8192', '4', 16.0, 64, 'Amazon')

('Lenovo', 'ThinkPad', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 11, '1159', 'SSD', '4096', '4', 16.0, 40, 'Amazon')

('Oemgenuine', 'ThinkPad E16 Gen 1', 'Intel', 'Windows 11 Pro', 'Core i5', 42, '799.95', 'SSD', '250', '4.5', 15.6, 16, 'Amazon')

('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')

('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')

('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')

('HP', 'Elite', 'Intel', 'Windows 11 Pro', 'Ryzen 3', 7, '449.68', 'SSD', '2048', '4.2', 15.6, 32, 'Amazon')

('HP', '2024 Newest HP 14" Chromebook', 'Intel', 'Chrome OS', 'Celeron N', 32, '206.1', 'EMMC', '64', '4.5', 14.0, 4, 'Amazon')

('NIAKUN', 'LAITMIN-G5', 'AMD', 'Windows 11 Pro', 'AMD Ryzen 7 5700U', 19, '599.99', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')

('Lenovo', 'Idea Premium Series', 'Intel', 'Windows 11 Pro', 'Core i3', 444, '669', 'SSD', '2048', '4.4', 15.6, 40, 'Amazon')

('HP', 'TPN-C160', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 91, '1329.99', 'SSD', '4096', '4.4', 17.3, 64, 'Amazon')

('HP', 'TPN-Q221', 'Intel', 'Windows 11 Home', 'Celeron N', 8, '339', 'SSD', '128', '4.2', 14.0, 16, 'Amazon')

('ACEMAGIC', 'AX16PRO', 'AMD', 'Windows 11', 'AMD Ryzen 7', 28, '759.54', 'SSD', '512', '3.9', 16.1, 16, 'Amazon')

('ist computers', 'ThinkPad E16 Gen 1', 'Intel', 'Windows 11 Pro', 'Core i7', 9, '999.99', 'SSD', '2048', '4.3', 16.0, 40, 'Amazon')

('HP', 'TPN-I140', 'AMD', 'Windows 11 Home', 'Ryzen 5', 86, '620.02', 'SSD', '2048', '4.4', 17.3, 32, 'Amazon')

('Apple', 'MacBook Pro', 'Intel', 'OS X 10.9 Mavericks', 'Core i7', 797, '348.19', 'SSD', '256', '4.3', 15.4, 16, 'Amazon')

('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '575.1', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')

('HP', 'HP Essential', 'Intel', 'Windows 11 Home', 'Pentium N5000', 0, '379', 'SSD', '2048', '4.5', 14.0, 8, 'Amazon')

('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')

('HP', 'HP 14 Laptop', 'Intel', 'Windows 11 Home', 'Celeron', 71, '279.98', 'SSD', '192', '4.6', 14.0, 16, 'Amazon')

('Lenovo', 'X1 Carbon Gen 11', 'Intel', 'Windows 11 Pro', 'Core i7', 3, '1390.76', 'SSD', '2048', '4.4', 14.0, 32, 'Amazon')

('ASUS', 'F1502Z', 'Intel', 'Windows 11 Home', 'Core i7 Family', 46, '639', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')

('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 25, '549', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')

('HP', 'HP Chromebook', 'Intel', 'Chrome OS', 'Celeron', 606, '53', 'SSD', '16', '4.4', 11.6, 4, 'Amazon')

('AimCare', 'Ideapad', 'Intel', 'Windows 11 S', 'Celeron', 22, '189', 'EMMC', '128', '4.4', 14.0, 4, 'Amazon')

('ASUS', 'F1505Z', 'Intel', 'Windows 11 Home', 'Core i7 Family', 35, '795.98', 'SSD', '4096', '4.3', 15.6, 40, 'Amazon')

('acer', 'Aspire', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 39, '599', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')

('Dell', 'Dell Latitude 7400', 'Intel', 'Windows 11', 'Core i5', 15, '267', 'SSD', '2048', '4.6', 14.0, 32, 'Amazon')

('ASUS', 'F1605Z', 'Intel', 'Windows 11 Home', 'Core i7 Family', 35, '615', 'SSD', '2048', '4.4', 16.0, 24, 'Amazon')

('NIAKUN', 'NIABook', 'Intel', 'Windows 11 Pro', 'Celeron', 36, '359.99', 'SSD', '2048', '4.3', 16.1, 16, 'Amazon')

('TPV', 'AceBook', 'Intel', 'Windows 11 Pro', 'Core i5', 13, '309.99', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 10, '1296.71', 'SSD', '4096', '4', 15.6, 64, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 38, '1299', 'SSD', '2048', '4', 15.6, 16, 'Amazon')

('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')

('Lenovo', 'ThinkPad', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 11, '999', 'SSD', '4096', '4.1', 16.0, 40, 'Amazon')

('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')

('HP', 'Essential', 'Intel', 'Windows 11', 'Intel Core i3', 2, '699', 'SSD', '512', '4.4', 17.3, 40, 'Amazon')

('Dell', 'Latitude 5300 2-in-1', 'Intel', 'Windows 10 Pro', 'Intel Core i7', 52, '238.89', 'SSD', '512', '4.5', 13.3, 16, 'Amazon')
 ('Harry Potter', 'ProBook X360 11 G4 EE', 'Intel', 'Windows 10 Pro', 'Core i5 Family', 1, '119.99', 'SSD', '256', '4.5', 11.6, 8, 'Amazon')
 ('SAMSUNG', 'Samsung 11.5" Chromebook', 'Intel', 'Chrome OS', 'Celeron N', 59, '133.99', 'SSD', '64', '4.6', 11.5, 4, 'Amazon')
 ('Dell', 'Dell Mobile Workstation 7670', 'Intel', 'Windows 11 Pro', 'Core i7', 7, '1788.99', 'SSD', '4096', '4', 16.0, 64, 'Amazon')
 ('HP', 'HP 14inch Touch Laptop', 'Intel', 'Windows 11', 'Celeron', 27, '229.99', 'SSD', '64', '4.5', 14.0, 4, 'Amazon')
 ('Lenovo', 'X1 Carbon Gen 11', 'Intel', 'Windows 11 Pro', 'Core i7', 3, '1390.77', 'SSD', '2048', '4.4', 14.0, 32, 'Amazon')
 ('HP', 'HP Chromebook', 'Intel', 'Chrome OS', 'Celeron', 606, '53', 'SSD', '16', '4.4', 11.6, 4, 'Amazon')
 ('MSI', 'Prestige 16 AI Evo B1MG-020US', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU', 173, '1549', 'SSD', '4096', '4', 16.0, 32, 'Amazon')
 ('HP', 'TPN-I140', 'AMD', 'Windows 11 Home', 'Ryzen 5', 86, '620.02', 'SSD', '2048', '4.4', 17.3, 32, 'Amazon')
 ('HP', '15.6 FHD', 'Intel', 'Windows 11', 'Core i7', 40, '659', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
 ('acer', 'Chromebook 11 N7 C731', 'Intel', 'Chrome OS', 'Celeron', 68, '48', 'SSD', '16', '3.8', 11.6, 4, 'Amazon')
 ('Lenovo', 'ThinkBook 16 G4+ IAP', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU', 0, '999', 'SSD', '512', '4.3', 16.0, 16, 'Amazon')
 ('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')
 ('HP', 'TPN-C164', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU', 0, '1634.21', 'SSD', '8192', '4', 17.3, 64, 'Amazon')
 ('Dell', 'Dell Latitude', 'Intel', 'Windows 10 Pro', 'Core i7', 790, '241.99', 'SSD', '512', '4.5', 14.0, 16, 'Amazon')
 ('Lenovo', 'Thinkpad T480', 'Intel', 'Windows 10 Pro', 'Core i5', 376, '199', 'SSD', '256', '4.4', 14.0, 16, 'Amazon')
 ('acer', 'CP314-1H-P1Q5', 'Intel', 'Chrome OS', 'Pentium', 244, '355', 'EMMC', '128', '4.3', 14.0, 8, 'Amazon')
 ('acer', 'CB315-3HT', 'Intel', 'Chrome OS', 'Celeron N4020', 865, '240.99', 'SSD', '64', '4.5', 15.6, 4, 'Amazon')
 ('Apple', 'MacBook Pro', 'Intel', 'OS X 10.9 Mavericks', 'Core i7', 797, '348.19', 'SSD', '256', '4.3', 15.4, 16, 'Amazon')
 ('Lenovo', 'IdeaPad Slim 5 16IRL8', 'Intel', 'Windows 11 Home', 'Core i7', 16, '439.99', 'SSD', '512', '4.5', 16.0, 16, 'Amazon')
 ('HP', '3NU63UT', 'Intel', 'Chrome OS', 'Celeron N3350', 600, '94.95', 'SSD', '16', '4.5', 14.0, 4, 'Amazon')
 ('HP', 'HP 14 Laptop', 'Intel', 'Windows 11 Home', 'Celeron', 71, '279.98', 'SSD', '192', '4.6', 14.0, 16, 'Amazon')
 ('NIAKUN', 'NIABook', 'Intel', 'Windows 11 Pro', 'Celeron', 36, '359.99', 'SSD', '2048', '4.3', 16.1, 16, 'Amazon')
 ('Dell', '3520', 'Intel', 'Windows 11 Home', 'Intel Core i5', 6, '349.99', 'SSD', '256', '4.2', 15.6, 8, 'Amazon')
 ('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Core i5', 220, '369', 'SSD', '256', '4.3', 13.3, 8, 'Amazon')
 ('HP', 'Elitebook', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 5, '1229', 'SSD', '4096', '4', 16.0, 64, 'Amazon')
 ('acer', 'Chromebook Spin 713', 'Intel', 'Chrome OS', 'Core i3-10110U', 6, '104.99', 'EMMC', '64', '4.4', 13.5, 4, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 2, '729', 'SSD', '2048', '5', 14.0, 16, 'Amazon')
 ('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')
 ('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
 ('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')
 ('KOOFORWAY', 'P8', 'Intel', 'Windows 11 Pro', 'Others', 73, '469', 'SSD', '2048', '4.4', 8.0, 12, 'Amazon')

('acer', 'Aspire', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 39, '599', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')
('Apple', 'MacBook Air', 'Intel', 'Mac OS', 'Core i5', 289, '170.07', 'SSD', '128', '4.5', 13.0, 8, 'Amazon')
('HP', 'HP', 'Intel', 'Windows 11 Home', 'Core i5-1235U', 12, '499.99', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
('Dell', '3190 2in1', 'Intel', 'Windows 10 Pro', 'Pentium N5000', 479, '107', 'SSD', '128', '4.4', 11.6, 8, 'Amazon')
('ist computers', 'ProBook 450 G10', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 2, '949.98', 'SSD', '2048', '4.3', 15.6, 32, 'Amazon')
('HP', 'hp', 'Intel', 'Chrome OS', 'Celeron', 66, '56', 'EMMC', '16', '4.1', 11.6, 4, 'Amazon')
('Dell', 'Latitude 7210 2-in-1', 'Intel', 'Windows 10 Pro', 'Core i7', 19, '495.97', 'SSD', '256', '4.3', 12.3, 16, 'Amazon')
('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Core i7', 97, '331.83', 'SSD', '256', '4.3', 15.4, 16, 'Amazon')
('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '575.1', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
('HP', 'HP Essential', 'Intel', 'Windows 11 Home', 'Pentium N5000', 0, '379', 'SSD', '2048', '4.5', 14.0, 8, 'Amazon')
('Razer', 'Razer Blade 16', 'Intel', 'Windows 11', 'Intel Core i9', 45, '3299.99', 'SSD', '2048', '3.4', 16.0, 32, 'Amazon')
('HP', 'Notebook', 'Intel', 'Windows 11 Home', 'Core i5 Family', 19, '454', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
('Apple', 'MacBook Pro', 'Intel', 'Chrome OS', 'Core i5-3210M', 234, '107.84', 'SSD', '500', '4.4', 13.3, 8, 'Amazon')
('HP', 'Essential 17', 'Intel', 'Windows 11', 'Intel Core i7', 17, '999', 'SSD', '4096', '4.3', 17.3, 64, 'Amazon')
('Apple', 'MacBook Pro 16-inch', 'Intel', 'Mac OS X 10.0 Cheetah', 'Core i7', 148, '569.99', 'SSD', '512', '4.4', 16.0, 16, 'Amazon')
('Lenovo', 'Yoga', 'Intel', 'Windows 11 Pro', 'Others', 4, '899.99', 'SSD', '2048', '4.4', 16.0, 16, 'Amazon')
('LG', '16T90SP-K.ADB9U1', 'Intel', 'Windows 11 Home', 'Intel Core Ultra 7', 10, '1889', 'SSD', '2048', '4', 16.0, 32, 'Amazon')
('Lenovo', 'Lenovo V15-IKB', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 148, '549', 'SSD', '2048', '4.4', 15.6, 24, 'Amazon')
('Apple', 'MacBook Pro', 'Intel', 'macOS 10.13 High Sierra', 'Core i5', 816, '339.97', 'SSD', '256', '4.3', 13.3, 8, 'Amazon')
('HP', 'Notebook', 'Intel', 'Windows 11 Home', 'Core i5 Family', 37, '520', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')
('ASUS', 'F1704ZA', 'Intel', 'Windows 11 Home', 'Pentium', 10, '539', 'SSD', '2048', '4.4', 17.3, 12, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 38, '1299', 'SSD', '2048', '4', 15.6, 16, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 6, '1499', 'SSD', '8192', '4', 15.6, 64, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 10, '1296.71', 'SSD', '4096', '4', 15.6, 64, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')
('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')
('Microsoft', 'Surface Laptop', 'Intel', 'Windows 11', 'Intel Core i5', 24, '610', 'SSD', '256', '4.4', 14.0, 16, 'Amazon')
('ASUS', '2024 Flagship ASUS Chromebook', 'Intel', 'Chrome OS', '2.8 GHz', 9, '279', 'EMMC', '64', '4.6', 17.3, 4, 'Amazon')
('HP', 'Essential', 'Intel', 'Windows 11', 'Intel Core i3', 2, '699', 'SSD', '512', '4.4', 17.3, 40, 'Amazon')
('Microsoft', 'Microsoft Surface Laptop 4', 'Intel', 'Windows 10 Home', 'AMD Ryzen 7', 21, '748.99', 'SSD', '256', '4.5', 15.0, 8, 'Amazon')

('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Core i5', 220, '369', 'SSD', '256', '4.3', 13.3, 8, 'Amazon')

('ASUS', 'Zephyrus Duo', 'AMD', 'Windows 11 Pro', 'Ryzen 9', 41, '3760.99', 'SSD', '4096', '3.4', 16.0, 32, 'Amazon')

('Dell', 'Dell 11 Chromebook', 'Intel', 'Chrome OS', 'Celeron', 3, '98.99', 'SSD', '32', '4.5', 11.0, 4, 'Amazon')

('HP', '2024 Newest HP 14" Chromebook', 'Intel', 'Chrome OS', 'Celeron N', 23, '21 7.08', 'EMMC', '64', '4.5', 14.0, 4, 'Amazon')

('Lenovo', 'ThinkPad L13 Yoga Laptop', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 33, '404.97', 'SSD', '512', '4.2', 13.3, 16, 'Amazon')

('KOOFORWAY', 'P8', 'Intel', 'Windows 11 Pro', 'Others', 73, '469', 'SSD', '2048', '4.4', 8.0, 12, 'Amazon')

('HP', 'Notebook', 'Intel', 'Windows 11 Home', 'Core i5 Family', 37, '520', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')

('HP', 'HP', 'Intel', 'Windows 11 Home', 'Core i5-1235U', 12, '499.99', 'SSD', '20 48', '4.4', 15.6, 16, 'Amazon')

('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '529', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 24, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')

('Lenovo', 'ThinkBook 16 G4+ IAP', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU', 1, '1159', 'SSD', '4096', '4.4', 16.0, 64, 'Amazon')

('Razer', 'Blade 18', 'Intel', 'Windows 11 Home', 'Intel Core i9', 7, '3899.99', 'SSD', '8192', '4.3', 18.0, 32, 'Amazon')

('HP', 'Notebook', 'Intel', 'Windows 11 Home', 'Core i5 Family', 19, '454', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')

('Lenovo', 'IdeaPad 3 15IAU7', 'Intel', 'Windows 11 Home', 'Core i5 Family', 2, '8 19.95', 'SSD', '2048', '5', 15.6, 40, 'Amazon')

('ist computers', 'ProBook 450 G10', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 2, '949.98', 'SSD', '2048', '4.3', 15.6, 32, 'Amazon')

('Dell', '7490', 'Intel', 'Windows 10 Pro', 'Core i7-8650U', 90, '402', 'SSD', '10 00', '4.5', 14.0, 32, 'Amazon')

('Apple', 'MacBook Pro', 'Intel', 'macOS 10.13 High Sierra', 'Core i5', 816, '339. 97', 'SSD', '256', '4.3', 13.3, 8, 'Amazon')

('Apple', 'MacBook Pro', 'Intel', 'Mac OS X 10.0 Cheetah', 'Core i9', 103, '589. 6', 'SSD', '2048', '4.4', 16.0, 16, 'Amazon')

('Lenovo', '82XQ006RUS', 'AMD', 'Windows 11 Home', 'AMD Ryzen 5 3450U', 30, '485', 'SSD', '256', '4.4', 15.6, 8, 'Amazon')

('Lenovo', 'ThinkBook 15 G3 ACL', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 7, '720', 'SSD', '2048', '4.5', 15.6, 40, 'Amazon')

('HP', 'HP Stream', 'Intel', 'Windows 11 S', 'Pentium', 21, '349', 'EMMC', '2048', '4.5', 14.0, 16, 'Amazon')

('HP', 'Elitebook', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 5, '1169', 'SSD', '2048', '4.4', 16.0, 64, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 2, '729', 'SSD', '8192', '5', 14.0, 64, 'Amazon')

('Oemgenuine', 'ThinkPad E15 Gen 2', 'AMD', 'Windows 10 Pro', 'Ryzen 5 4500U', 2, '829.95', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')

('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMM C', '64', '4.5', 10.1, 2, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 1, '729', 'SSD', '4096', '1', 14.0, 64, 'Amazon')

('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')

('HP', 'HP Chromebook', 'Intel', 'Chrome OS', 'Celeron N', 41, '182', 'EMMC', '12 8', '4.4', 14.0, 4, 'Amazon')

('HP', 'EliteBook 840 G10', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '759.77', 'SS D', '512', '4.5', 14.0, 16, 'Amazon')

('Panasonic', 'CF53RL1A', 'Intel', 'Windows 10 Pro', 'Core i5-2520M', 239, '448.9 9', 'SSD', '2048', '4.5', 14.0, 16, 'Amazon')

('Lenovo', 'Lenovo ThinkPad E15 Gen 2', 'AMD', 'Windows 10 Pro', 'Ryzen 5 4500U', 5, '380', 'SSD', '512', '4.3', 15.6, 16, 'Amazon')

('HP', 'HP', 'Intel', 'Windows 10 Pro', 'Core i3 Family', 96, '547.9', 'SSD', '204 8', '4.4', 17.3, 32, 'Amazon')

('Apple', 'MacBook Pro', 'Intel', 'macOS 10.15 Catalina', 'Core i5', 220, '438.97', 'SSD', '256', '4.4', 13.0, 8, 'Amazon')
('ZENAERO', 'AeonBook 2024', 'Intel', 'Windows 11 Pro', 'Celeron N', 35, '249.99', 'SSD', '512', '4.5', 15.6, 12, 'Amazon')
('INHONLAP', 'No', 'Intel', '11 Pro', 'Celeron N4000', 15, '198.99', 'SSD', '256', '4.4', 14.0, 8, 'Amazon')
('HP', 'Newest HP 14 Inch Laptop', 'Intel', 'Windows 11 Home', 'Celeron N', 41, '259', 'EMMC', '64', '4.4', 14.0, 4, 'Amazon')
('Microsoft', 'Surface Laptop', 'Intel', 'Windows 11', 'Intel Core i5', 24, '610', 'SSD', '256', '4.4', 14.0, 16, 'Amazon')
('Lenovo', 'Lenovo Thinkpad', 'AMD', 'Windows 10 Pro', 'AMD Ryzen 7', 0, '479', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 0, '899', 'SSD', '4096', '4.3', 14.0, 64, 'Amazon')
('HP', 'HP Stream', 'Intel', 'Windows 11 S', 'Celeron N', 338, '220.5', 'EMMC', '64', '4.5', 14.0, 16, 'Amazon')
('HP', 'HP Stream', 'Intel', 'Windows 11 S', 'Pentium', 21, '349', 'EMMC', '2048', '4.5', 14.0, 16, 'Amazon')
('Lenovo', 'Lenovo 15" Laptop', 'Intel', 'Windows 11', 'Pentium', 155, '219.99', 'SSD', '256', '4.5', 15.0, 8, 'Amazon')
('Lenovo', 'ThinkPad E16 Gen 1', 'Intel', 'Windows 11 Pro', 'Core i7', 2, '1049.99', 'SSD', '2048', '4.4', 16.0, 32, 'Amazon')
('Apple', 'MacBook Pro', 'Intel', 'Mac OS X 10.0 Cheetah', 'Core i9', 103, '589.6', 'SSD', '2048', '4.4', 16.0, 16, 'Amazon')
('ACEMAGIC', 'AX15', 'Intel', 'Windows 11', 'Intel Mobile CPU', 11, '899.99', 'SSD', '512', '4.3', 16.0, 16, 'Amazon')
('HP', 'Essential 17', 'Intel', 'Windows 11', 'Intel Core i7', 4, '1039.99', 'SSD', '4096', '4.4', 17.0, 64, 'Amazon')
('HP', '2024 Newest HP 14" Chromebook', 'Intel', 'Chrome OS', 'Celeron N', 23, '217.08', 'EMMC', '64', '4.5', 14.0, 4, 'Amazon')
('Dell', 'Latitude 5540', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '1159.99', 'SSD', '8192', '4.4', 15.6, 64, 'Amazon')
('ASUS', 'Zephyrus Duo', 'AMD', 'Windows 11 Pro', 'Ryzen 9', 41, '3760.99', 'SSD', '4096', '3.4', 16.0, 32, 'Amazon')
('ist computers', 'ThinkPad E14 Gen 5', 'Intel', 'Windows 11 Pro', 'Core i5', 2, '799.98', 'SSD', '512', '4.5', 14.0, 16, 'Amazon')
('HP', 'Elitebook', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 5, '1079', 'SSD', '2048', '4', 16.0, 32, 'Amazon')
('Lenovo', 'ThinkPad', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 11, '999', 'SSD', '4096', '4.1', 16.0, 40, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Core i5', 2, '929', 'SSD', '2048', '4.1', 15.6, 32, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')
('HP', 'Elitebook', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 5, '1229', 'SSD', '4096', '4', 16.0, 64, 'Amazon')
('Lenovo', 'ThinkPad', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 14, '1049', 'SSD', '2048', '4', 16.0, 24, 'Amazon')
('ASUS', 'TUF Gaming A16', 'AMD', 'Windows 11', 'Ryzen 7', 2, '884.99', 'SSD', '512', '4.4', 16.0, 16, 'Amazon')
('Dell', 'Dell Latitude E5470', 'Intel', 'Windows 10 Pro', 'Core i5 Family', 793, '148.99', 'SSD', '256', '4.6', 14.0, 8, 'Amazon')
('Dell', 'Latitude 5420 Rugged', 'Intel', 'Windows 10 Pro', '68LC040', 7, '929.95', 'SSD', '2048', '4.3', 14.0, 32, 'Amazon')
('HP', 'Essential 17', 'Intel', 'Windows 11', 'Intel Core i7', 17, '999', 'SSD', '4096', '4.3', 17.3, 64, 'Amazon')
('Lenovo', 'ThinkPad E16 Gen 1', 'Intel', 'Windows 11 Pro', 'Core i7', 2, '1049.99', 'SSD', '2048', '4.4', 16.0, 32, 'Amazon')
('Lenovo', 'IdeaPad 3i', 'Intel', 'Windows 11 Home', 'Celeron N4020', 236, '161.99', 'SSD', '128', '4.5', 14.0, 4, 'Amazon')
('FUNYET', 'NY-01', 'Intel', 'Windows 11 Pro', 'Celeron', 284, '259.99', 'SSD', '56', '4.4', 14.1, 8, 'Amazon')

('Lenovo', 'Lenovo 15" Laptop', 'Intel', 'Windows 11', 'Pentium', 155, '219.99', 'SSD', '256', '4.5', 15.0, 8, 'Amazon')

('Apple', 'MR9Q2LL/A', 'Intel', 'macOS 10.14 Mojave', 'Core i7', 72, '448.98', 'SSD', '512', '4.4', 13.3, 16, 'Amazon')

('Dell', '3520', 'Intel', 'Windows 11 Home', 'Intel Core i5', 6, '349.99', 'SSD', '256', '4.2', 15.6, 8, 'Amazon')

('Lenovo', 'ThinkPad', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 11, '869', 'SSD', '2048', '4.3', 16.0, 24, 'Amazon')

('Dell', 'Dell Inspiron', 'AMD', 'Windows 11 Pro', '1.2GHz Cortex A8 Processor', 0, '649', 'SSD', '2048', '4.4', 15.6, 36, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 19, '949', 'SSD', '4096', '4.3', 14.0, 32, 'Amazon')

('Panasonic', 'CF53RL1A', 'Intel', 'Windows 10 Pro', 'Core i5-2520M', 239, '448.99', 'SSD', '2048', '4.5', 14.0, 16, 'Amazon')

('Apple', 'MacBook Pro', 'Intel', 'macOS 10.15 Catalina', 'Core i5', 220, '438.97', 'SSD', '256', '4.4', 13.0, 8, 'Amazon')

('Lenovo', 'Lenovo T480 T480s', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 162, '201.5', 'SSD', '512', '4.5', 14.0, 16, 'Amazon')

('jumper', 'EZbook S7Max', 'Intel', 'Windows 11', 'Celeron', 9, '229.99', 'SSD', '128', '4.5', 16.0, 4, 'Amazon')

('ASUS', 'FA607PV-AS93', 'AMD', 'Windows 11 Home', 'Ryzen 9', 8, '1338.18', 'SSD', '512', '4', 16.0, 16, 'Amazon')

('Dell', 'Latitude 5540', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '1159.99', 'SSD', '8192', '4.4', 15.6, 64, 'Amazon')

('acer', 'Acer Chromebook Plus 514', 'Intel', 'Chrome OS', 'Intel Core i3', 11, '325', 'SSD', '128', '4.5', 14.0, 8, 'Amazon')

('HP', 'TPN-I139', 'Intel', 'Windows 11 Home', 'Core i7 Family', 0, '999', 'SSD', '4096', '4.1', 17.3, 64, 'Amazon')

('Apple', 'MacBook Pro', 'Intel', 'macOS Big Sur', 'Intel Core i7', 45, '525', 'SSD', '512', '4.5', 16.0, 32, 'Amazon')

('Alienware', 'Alienware X16 R1 Gaming Laptop', 'Intel', 'Windows 11 Home', 'Core i9', 165, '2766', 'SSD', '2048', '4.3', 16.0, 32, 'Amazon')

('HP', 'EliteBook 840 G10', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '759.77', 'SSD', '512', '4.5', 14.0, 16, 'Amazon')

('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '575.1', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')

('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')

('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')

('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC C', '64', '4.5', 10.1, 2, 'Amazon')

('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')

('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 0, '629', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')

('Dell', 'Dell Mobile Workstation 7670', 'Intel', 'Windows 11 Pro', 'Core i9', 1, '2099.99', 'SSD', '4096', '4', 16.0, 64, 'Amazon')

('HP', 'TPN-C147', 'Intel', 'Windows 11 Home', 'Intel Mobile CPU', 2, '719', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')

('HP', 'HP Chromebook', 'Intel', 'Chrome OS', 'Celeron N', 41, '182', 'EMMC', '128', '4.4', 14.0, 4, 'Amazon')

('HP', 'HP 11" Laptop', 'Intel', 'Windows 11', 'Pentium', 261, '214.99', 'SSD', '128', '4.5', 11.0, 8, 'Amazon')

('HP', 'A14M', 'AMD', 'Windows 11 Home', 'AMD R Series', 2, '797', 'SSD', '2048', '4.5', 15.6, 32, 'Amazon')

('Maxsignage', 'Notebook-NJP1561P', 'Intel', 'Windows 11 Home', 'Celeron', 13, '89.99', 'SSD', '512', '4.4', 15.6, 12, 'Amazon')

('ACEMAGIC', 'AX16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 4, '379.95', 'SSD', '512', '5', 16.0, 16, 'Amazon')

('ist computers', 'ThinkPad T14', 'Intel', 'Windows 11 Pro', 'Core i5', 17, '949.98', 'SSD', '512', '4.3', 14.0, 16, 'Amazon')

('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '575.1', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')

('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')

('HP', 'HP Essential', 'Intel', 'Windows 11 Home', 'Pentium N5000', 0, '379', 'SSD', '2048', '4.5', 14.0, 8, 'Amazon')

('HP', 'TPN-C169', 'Intel', 'Windows 11 Home', 'Core i7 Family', 12, '1199', 'SSD', '2048', '4.4', 16.1, 32, 'Amazon')

('Lenovo', 'IdeaPad Slim 3 Chromebook', 'MediaTek', 'Chrome OS', 'MediaTek Helio', 20, '249.98', 'SSD', '128', '4.5', 14.0, 4, 'Amazon')

('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Core i7', 59, '379.95', 'SSD', '256', '4.5', 13.3, 16, 'Amazon')

('CHUWI', 'HeroBook Pro Laptop', 'Intel', 'Windows 11', 'Celeron N4020', 565, '192.99', 'SSD', '256', '4.4', 14.1, 8, 'Amazon')

('HP', 'Chromebook 14', 'Intel', 'Chrome OS', 'Celeron', 9, '209.99', 'SSD', '128', '4.2', 14.0, 4, 'Amazon')

('acer', 'Acer Chromebook Plus 514 Laptop CB514-3HT-R8RB', 'AMD', 'Chrome OS', 'Ryzen 3', 101, '370', 'EMMC', '128', '4.3', 14.0, 8, 'Amazon')

('Lenovo', 'Legion Pro 9i Gen 9', 'Intel', 'Windows 11 Home', 'Core i9', 2, '3699.95', 'SSD', '4096', '4.2', 16.0, 32, 'Amazon')

('HP', 'TPN-I139', 'Intel', 'Windows 11 Home', 'Pentium', 42, '530.1', 'SSD', '2048', '4.4', 17.3, 16, 'Amazon')

('HP', 'FCFSV', 'Intel', 'Windows 11 S', 'Pentium Other', 78, '549', 'SSD', '2048', '4.4', 17.3, 20, 'Amazon')

('Lenovo', 'Lenovo', 'Intel', 'Windows 11 Home', 'Core i3-1215U', 33, '519', 'SSD', '2048', '4.4', 15.6, 24, 'Amazon')

('Microsoft', 'Microsoft Surface Laptop 5', 'Intel', 'Windows 11 Pro', 'Core i7', 3, '1680.18', 'SSD', '2048', '4', 15.0, 32, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 6, '1499', 'SSD', '8192', '4', 15.6, 64, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 38, '1299', 'SSD', '2048', '4', 15.6, 16, 'Amazon')

('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 1, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')

('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A13', 1, '119.99', 'EMMC', '64', '4.4', 10.1, 2, 'Amazon')

('HP', 'HP', 'Intel', 'Windows 11', 'Intel Core i3', 2, '449.99', 'SSD', '512', '4.2', 17.3, 16, 'Amazon')

('HP', 'Essential', 'Intel', 'Windows 11 S', 'Celeron', 6, '399.99', 'SSD', '256', '4.3', 15.6, 32, 'Amazon')

('Lenovo', 'Lenovo V15 G2 IJL', 'Intel', 'Windows 11 Home', 'Celeron N', 20, '279', 'SSD', '128', '4.6', 15.6, 8, 'Amazon')

('ASUS', 'TP3402Z', 'Intel', 'Windows 11 Pro', 'Intel Core i9', 5, '1029', 'SSD', '2048', '4.4', 16.0, 32, 'Amazon')

('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Core i5-6267U', 59, '359', 'SSD', '256', '4.3', 13.3, 8, 'Amazon')

('HP', 'ELITEBOOK X360 1040 G6', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 37, '349.99', 'SSD', '512', '4.2', 14.0, 16, 'Amazon')

('SGIN', 'M17', 'Intel', '11', 'Celeron', 3, '239.99', 'SSD', '128', '4.5', 17.3, 4, 'Amazon')

('HP', 'HP 15', 'Intel', 'Windows 10', 'Core I3 1115G4', 447, '303', 'SSD', '256', '4.5', 15.6, 8, 'Amazon')

('HP', 'Chromebook', 'Intel', 'Chrome OS', 'Celeron N', 373, '288.99', 'SSD', '4', '4.6', 14.0, 4, 'Amazon')

('HP', 'HP Notebook 15-dy1731ms', 'Intel', 'Windows 10', 'Intel Core i3', 876, '354.99', 'SSD', '128', '4.3', 15.6, 8, 'Amazon')

('Microsoft', 'Surface Laptop 5', 'Intel', 'Windows 11 Pro', 'Core i7', 1, '1570', 'SSD', '2048', '4.4', 15.0, 32, 'Amazon')

('ApoloMedia', 'NJP1561P', 'Intel', 'Windows 11 Home', 'Celeron N', 64, '288', 'SSD', '512', '4.2', 15.6, 12, 'Amazon')

('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')

('jumper', 'EZbook S5', 'Intel', 'Windows 11', 'Celeron', 12, '409.99', 'SSD', '512', '4.5', 14.0, 12, 'Amazon')

('LETSUNG', 'ABLE 1', 'Intel', 'Windows 11 Home', 'Celeron N3350', 16, '199', 'SSD', '256', '4.4', 14.0, 4, 'Amazon')

('Lenovo', 'Essential', 'Intel', 'Windows 11', 'Mobile Intel Celeron Processor', 2, '499.99', 'SSD', '512', '4.4', 15.6, 36, 'Amazon')

('ASUS', 'ROG Strix G17', 'AMD', 'Windows 11 Home', 'Ryzen 7', 162, '1148.99', 'SSD', '512', '4', 17.3, 16, 'Amazon')

('ACEMAGIC', 'AX15', 'Intel', 'Windows 11', 'Intel Mobile CPU', 18, '899.99', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')

('Microsoft', 'Surface Laptop 5', 'Intel', 'Windows 11 Pro', 'Core i7', 2, '1295.18', 'SSD', '512', '4.4', 15.0, 16, 'Amazon')

('acer', 'Aspire 5', 'AMD', 'Windows 11', 'Ryzen 3 3350U', 977, '385', 'SSD', '128', '4.3', 15.6, 4, 'Amazon')

('HP', 'HP', 'Intel', 'Windows 11 Home', 'Core i7', 34, '617', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')

('ASUS', 'ASUS ROG Strix G18 Gaming Laptop', 'Intel', 'Windows 11 Pro', 'Core i9', 6, '2939.65', 'SSD', '8192', '4.3', 18.0, 64, 'Amazon')

('Dell', 'Dell Latitude', 'Intel', 'Windows 10 Pro', 'Core i7-8650U', 183, '214', 'SSD', '512', '4.5', 14.0, 16, 'Amazon')

('ist computers', 'IdeaPad Flex 5i', 'Intel', 'Chrome OS', 'Core i3 Family', 3, '499.98', 'SSD', '256', '4.4', 14.0, 8, 'Amazon')

('acer', 'Acer Aspire 3', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 10, '699', 'SSD', '2048', '4.4', 15.6, 40, 'Amazon')

('SAMSUNG', 'Samsung Galaxy Book4', 'Intel', 'Windows 11 Pro', 'Intel Core 7', 104, '899', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')

('acer', 'A314-36P-35UU', 'Intel', 'Windows 11 S', 'Intel Core i3', 57, '299.09', 'SSD', '128', '4.6', 14.0, 8, 'Amazon')

('jumper', 'Ezbook S5MAX', 'Intel', 'Windows 11', 'Intel Mobile CPU', 41, '329.99', 'SSD', '512', '4.5', 16.0, 16, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 6, '1349', 'SSD', '4096', '4', 15.6, 64, 'Amazon')

('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 1, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')

('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')

('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')

('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')

('Lenovo', 'ThinkPad', 'AMD', 'Windows 11 Pro', 'AMD Ryzen 7', 18, '939', 'SSD', '4096', '4.3', 16.0, 40, 'Amazon')

('acer', 'Acer Nitro V Gaming Laptop', 'AMD', 'Windows 11 Home', 'Ryzen 5', 25, '769.99', 'SSD', '512', '4.3', 15.6, 8, 'Amazon')

('HP', 'HP ENVY x360', 'Intel', 'Windows 11 Pro', 'Core i7', 0, '1669', 'SSD', '8192', '4.4', 15.6, 64, 'Amazon')

('acer', 'Aspire', 'AMD', 'Windows 11', 'Ryzen 7', 1, '389', 'SSD', '512', '4.3', 15.6, 16, 'Amazon')

('HP', 'HP Laptop', 'Intel', 'Windows 11 S', 'Pentium', 2, '344', 'SSD', '128', '4.2', 17.3, 4, 'Amazon')

('ASUS', 'VivoBook 15', 'Intel', 'Windows 10 Home', 'Core i3-1005G1', 21, '323', 'SSD', '128', '4.5', 15.6, 8, 'Amazon')

('HP', 'HP laptop', 'Intel', 'Windows 11 Home', 'Core i3', 694, '609', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')

('ist computers', 'ThinkPad T16', 'Intel', 'Windows 11 Pro', 'Core i7', 21, '1349.99', 'SSD', '2048', '4.4', 16.0, 32, 'Amazon')

('ACEMAGIC', 'AX16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 25, '379.95', 'SSD', '512', '4.3', 16.0, 16, 'Amazon')

('TPV', 'RenoPad', 'Intel', 'Windows 11 Pro', 'Intel Processor N100', 21, '349', 'SSD', '512', '4.7', 14.0, 16, 'Amazon')

('HP', 'HP Stream', 'Intel', 'Windows 11 S', 'Celeron N', 338, '220.5', 'EMMC', '64', '4.5', 14.0, 16, 'Amazon')

('Lenovo', 'IdeaPad 3 14ITL05', 'Intel', 'Windows 11 Home', 'Core i5 Family', 3, '341', 'SSD', '512', '4.2', 14.0, 12, 'Amazon')

('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')

('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '575.1', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
('HP', 'HP Essential', 'Intel', 'Windows 11 Home', 'Pentium N5000', 0, '379', 'SSD', '2048', '4.5', 14.0, 8, 'Amazon')
('Lenovo', 'IdeaPad Slim 3i', 'Intel', 'Windows 11 Home', 'Core i7', 1, '636.77', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')
('Lenovo', 'ThinkPad T14 Gen 4', 'Intel', 'Windows 11 Pro', 'Core i7', 1, '1098', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')
('HP', 'Elitebook', 'Intel', 'Windows 11 Pro', 'Core i7', 22, '1079', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')
('acer', 'Spin', 'Intel', 'Chrome OS', 'Core i5', 24, '552.9', 'SSD', '128', '4.4', 13.5, 8, 'Amazon')
('ist computers', 'ProBook 450 G10', 'Intel', 'Windows 11 Pro', 'Core i5 Family', 8, '738.98', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')
('Lenovo', 'Lenovo Laptop', 'Intel', 'Windows 10 S', 'Celeron', 24, '64.99', 'SSD', '64', '4.4', 11.6, 4, 'Amazon')
('ASUS', 'FX507VI-F15.I74070', 'Intel', 'Windows 11 Home', 'Core i7 Family', 10, '1499.99', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
('Apple', 'MacBook Pro', 'Apple', 'Mac OS', '1', 5, '1189.99', 'SSD', '512', '4', 14.2, 8, 'Amazon')
('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Core i5', 178, '199.99', 'SSD', '256', '4.6', 13.3, 8, 'Amazon')
('HP', 'ProBook 445 G9', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 32, '599.98', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')
('Lenovo', 'IdeaPad 1 15IJL7', 'Intel', 'Windows 11 Home', 'Celeron N', 11, '359', 'SSD', '256', '4.3', 15.6, 12, 'Amazon')
('ZENAERO', 'AeonBook 2024', 'Intel', 'Windows 11 Pro', 'Celeron N', 35, '249.99', 'SSD', '512', '4.5', 15.6, 12, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 6, '1499', 'SSD', '8192', '4', 15.6, 64, 'Amazon')
('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 1, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 1, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')
('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '529', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
('HP', 'Elitebook', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 5, '1169', 'SSD', '2048', '4.4', 16.0, 64, 'Amazon')
('Dell', 'Latitude E6440', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 631, '153.26', 'SSD', '256', '4.5', 14.0, 8, 'Amazon')
('Lenovo', 'Lenovo Chromebook', 'Intel', 'Chrome OS', 'Celeron N', 54, '279', 'SSD', '64', '4.6', 15.6, 4, 'Amazon')
('ACEMAGIC', 'AX15', 'Intel', 'Windows 11', 'Intel Mobile CPU', 32, '359.98', 'SSD', '512', '3.5', 16.0, 16, 'Amazon')
('Dell', 'Vostro', 'Intel', 'Windows 11 Pro', 'Core i5', 2, '779', 'SSD', '2048', '4.5', 15.6, 32, 'Amazon')
('Lenovo', 'V15', 'Intel', 'Windows 11 Pro', 'Celeron', 24, '549', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')
('HP', 'HP Laptop', 'Intel', 'Windows 11 Pro', 'Pentium', 295, '659.99', 'SSD', '2048', '4.4', 17.3, 32, 'Amazon')
('Dell', 'DELL XPS 15 9530', 'Intel', 'Windows 11 Pro', 'Core i7', 12, '1798.99', 'SSD', '4096', '4.4', 15.6, 64, 'Amazon')
('HP', 'Essential 17', 'AMD', 'Windows 11', 'Ryzen 5', 15, '699', 'SSD', '2048', '4.4', 17.0, 32, 'Amazon')
('MSI', 'MSI Katana A15', 'Intel', 'Windows 11', 'Core i7', 2, '1129', 'SSD', '2048', '4', 15.6, 32, 'Amazon')
('HP', '2024 Flagship HP 17 Laptop', 'Intel', 'Windows 11 Pro', 'Core i3', 15, '558.2', 'SSD', '2048', '4.4', 17.3, 32, 'Amazon')
('Lenovo', 'ThinkBook', 'Intel', 'Windows 11 Pro', 'Intel Core Ultra 5', 18, '839', 'SSD', '2048', '4.4', 16.0, 32, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 0, '749', 'SSD', '4096', '4.3', 14.0, 32, 'Amazon')

('Lenovo', 'ThinkPad', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 22, '899', 'SSD', '2048', '4.3', 16.0, 24, 'Amazon')
('Lenovo', 'ThinkPad', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 14, '1149', 'SSD', '4096', '4', 16.0, 40, 'Amazon')
('Lenovo', 'Lenovo ThinkBook', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 14, '760', 'SSD', '2048', '4.5', 15.6, 40, 'Amazon')
('Dell', 'Dell Latitude 7480', 'Intel', 'Windows 10', 'Core i5', 453, '209', 'SSD', '256', '4.5', 14.0, 16, 'Amazon')
('ACEMAGIC', 'AX16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 6, '341.96', 'SSD', '512', '2.6', 16.0, 16, 'Amazon')
('jumper', 'Ezbook S5MAX', 'Intel', 'Windows 11', 'Intel Mobile CPU', 101, '679.99', 'SSD', '512', '4.4', 16.0, 16, 'Amazon')
('MSI', 'MSI Thin 15', 'Intel', 'Windows 11', 'Core i5', 2, '699', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
('HP', 'TPN-C159', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 2, '1178.1', 'SSD', '2048', '4.4', 16.0, 32, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Core i5', 2, '819.99', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
('HP', 'HP 17 Laptop', 'AMD', 'Windows 11 Home', 'Ryzen 5', 19, '564.99', 'SSD', '2048', '4.4', 17.3, 16, 'Amazon')
('acer', 'Aspire 5', 'AMD', 'Windows 11 S', 'Ryzen 3', 266, '498.88', 'SSD', '2048', '4.4', 15.6, 20, 'Amazon')
('HP', 'Elitebook', 'Intel', 'Windows 11 Pro', 'Core i7', 12, '1219', 'SSD', '4096', '4', 15.6, 64, 'Amazon')
('Dell', 'Dell Mobile Workstation 7670', 'Intel', 'Windows 11 Pro', 'Core i5', 1, '1299.99', 'SSD', '2048', '4', 16.0, 32, 'Amazon')
('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')
('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')
('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '575.1', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
('Lenovo', 'ThinkPad', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 11, '999', 'SSD', '4096', '4.1', 16.0, 40, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Core i5', 1, '799.99', 'SSD', '256', '4.5', 15.6, 16, 'Amazon')
('ASUS', 'F1504Z', 'Intel', 'Windows 11 Home', 'Core i7 Family', 28, '696', 'SSD', '2048', '4.4', 15.6, 40, 'Amazon')
('Microsoft', 'Microsoft Surface Laptop Studio', 'Intel', 'Windows 11 Home', 'Intel Core i7-11700', 159, '1699', 'SSD', '2048', '4.4', 14.4, 32, 'Amazon')
('HP', 'HP Essential', 'Intel', 'Windows 11', 'Intel Core i3', 3, '499', 'SSD', '2048', '4.4', 15.6, 64, 'Amazon')
('Lenovo', 'IdeaPad', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '479.99', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
('Lenovo', 'Lenovo Thinkpad', 'Intel', 'Windows 10 Pro', 'Core i5', 219, '178.17', 'SSD', '256', '4.4', 14.0, 16, 'Amazon')
('Dell', 'Latitude 7440', 'Intel', 'Windows 11 Pro', 'Core i7', 11, '1049', 'SSD', '512', '4', 14.0, 32, 'Amazon')
('HP', 'HP-830 G6', 'Intel', 'Windows 10 Pro', 'Intel Core i7', 144, '199.99', 'SSD', '256', '4.6', 14.0, 16, 'Amazon')
('Lenovo', 'IdeaPad', 'Intel', 'Windows 11 Home', 'Core i3 Family', 361, '446.99', 'SSD', '2048', '4.5', 14.0, 20, 'Amazon')
('LG', '17Z90S-G.AAB4U1', 'Intel', 'Windows 11 Home', 'Intel Core Ultra 5', 44, '1139.23', 'SSD', '512', '4', 17.0, 16, 'Amazon')
('HP', 'Elitebook', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 5, '1369', 'SSD', '8192', '4', 16.0, 64, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Core i5', 2, '929', 'SSD', '2048', '4.1', 15.6, 32, 'Amazon')
('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')

('Dell', 'Dell Inspiron', 'Intel', 'Windows 11 Home', 'Core i5', 56, '443.99', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')

('ist computers', 'ThinkPad P14s Gen 2', 'Intel', 'Windows 11 Pro', 'Core i7', 2, '1019.98', 'SSD', '2048', '4.4', 14.0, 32, 'Amazon')

('Lenovo', 'Lenovo Slim Pro 9 16IRP8', 'Intel', 'Windows 11 Home', 'Core i9', 30, '1079.99', 'SSD', '4096', '4.4', 16.0, 32, 'Amazon')

('Oemgenuine', 'Latitude 5550', 'Intel', 'Windows 11 Pro', 'Intel Core 7', 3, '1219.95', 'SSD', '2048', '4', 15.6, 32, 'Amazon')

('HP', 'TPN-Q278', 'Intel', 'Windows 11 Home', 'Core i5 Family', 26, '847.95', 'SSD', '2048', '4.3', 15.6, 32, 'Amazon')

('ist computers', 'ThinkPad E16', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 6, '848.99', 'SSD', '2048', '4.4', 16.0, 40, 'Amazon')

('ASUS', 'TUF Gaming F15', 'Intel', 'Windows 11 Home', 'Core i5', 56, '985', 'SSD', '2048', '4.1', 15.6, 16, 'Amazon')

('Apple', 'MacBook Air', 'Intel', 'OS X 10.10 Yosemite', 'Core i7', 204, '240', 'SSD', '256', '4.5', 13.3, 8, 'Amazon')

('CHUWI', 'CHUWI MiniBook X (N100)', 'Intel', 'Windows 11', 'Celeron', 62, '349', 'SSD', '512', '4.5', 10.51, 12, 'Amazon')

('Lenovo', 'Newest Lenovo Slim 3 Chromebook', 'MediaTek', 'Chrome OS', 'Cortex', 29, '216', 'EMMC', '64', '4.5', 14.0, 4, 'Amazon')

('Lenovo', 'ThinkPad T14 Gen4', 'Intel', 'Windows 11 Pro', 'Core i5', 2, '1049.99', 'SSD', '2048', '4.4', 14.0, 40, 'Amazon')

('Lenovo', 'ThinkPad', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 14, '1149', 'SSD', '4096', '4', 16.0, 40, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 0, '679', 'SSD', '2048', '4.4', 14.0, 16, 'Amazon')

('Oemgenuine', 'ThinkPad E15 Gen 2', 'AMD', 'Windows 10 Pro', 'Ryzen 5 4500U', 2, '829.95', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')

('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')

('HP', 'Elitebook', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 5, '1079', 'SSD', '2048', '4', 16.0, 32, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 0, '699', 'SSD', '2048', '4.4', 14.0, 32, 'Amazon')

('HP', 'HP EliteBook', 'Intel', 'Windows 10', 'Core i7 6600U', 985, '189.99', 'SSD', '512', '4.5', 14.1, 16, 'Amazon')

('LG', 'gram', 'Intel', 'Windows 11 Pro', 'Core i7', 2, '990', 'SSD', '2048', '4.1', 17.0, 16, 'Amazon')

('Lenovo', 'ThinkBook', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 30, '719', 'SSD', '512', '4.3', 16.0, 16, 'Amazon')

('Lenovo', 'ThinkPad E16 Gen 1', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 8, '610.18', 'SSD', '256', '4.4', 16.0, 8, 'Amazon')

('Lenovo', 'V15', 'Intel', 'Windows 11 Pro', 'Celeron', 101, '279', 'SSD', '256', '4.2', 15.6, 16, 'Amazon')

('acer', 'Newest Acer 15 Inch Chromebook', 'Intel', 'Chrome OS', 'Celeron', 22, '239', 'EMMC', '64', '4.5', 15.6, 4, 'Amazon')

('Lenovo', 'ThinkBook 16 G4+ IAP', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU', 1, '1159', 'SSD', '4096', '4.4', 16.0, 64, 'Amazon')

('Lenovo', 'Legion 5 16IRX9', 'Intel', 'Windows 11 Home', 'Core i9', 2, '1999.99', 'SSD', '4096', '4.4', 16.0, 64, 'Amazon')

('Dell', 'Inspiron', 'Intel', 'Windows 11 Home S', 'Intel Core i5', 22, '579', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')

('ASUS', 'ASUS VivoBook Go 14', 'Intel', 'Windows 11 Home S', 'Celeron', 287, '217', 'SSD', '64', '4.5', 14.0, 4, 'Amazon')

('HP', 'TPN-Q234', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU', 0, '1629', 'SSD', '4096', '4', 17.3, 64, 'Amazon')

('Lenovo', 'Lenovo Thinkpad', 'AMD', 'Windows 10 Pro', 'AMD Ryzen 7', 0, '479', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')

('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')

('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')

('VAIZMOYE', 'A25', 'Intel', 'Windows 11', 'Celeron', 0, '349.99', 'SSD', '2048', '4.5', 15.6, 32, 'Amazon')

('HP', '14-dq0703dx', 'Intel', 'Windows 11 Home', 'Pentium N5000', 0, '449.99', 'SSD', '1000', '4.2', 14.0, 16, 'Amazon')
('ASUS', 'Asus ROG Strix G18 G814', 'Intel', 'Windows 11', 'Core i9', 4, '2249', 'SSD', '8192', '4.3', 18.0, 64, 'Amazon')
('ASUS', 'ASUS Zenbook 14 OLED', 'Intel', 'Windows 11', 'Intel Mobile CPU', 9, '905', 'SSD', '2048', '4.3', 14.0, 16, 'Amazon')
('Panasonic', 'Panasonic Toughbook 31', 'Intel', 'Windows 10 Pro', 'Core i5 5300U', 93, '449.95', 'SSD', '2048', '4.4', 13.1, 16, 'Amazon')
('HP', '15-DY1031WM', 'Intel', 'Windows 10 Home', 'Core i3', 715, '315', 'SSD', '256', '4.5', 15.6, 8, 'Amazon')
('Lenovo', 'IdeaPad 1', 'Intel', 'Windows 11', 'Celeron N4000', 3, '219', 'SSD', '64', '4.5', 14.0, 4, 'Amazon')
('Lenovo', 'T480', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 48, '150', 'SSD', '256', '4.5', 14.0, 16, 'Amazon')
('AimCare', 'XPS', 'Intel', 'Windows 11 Pro', 'Core i7', 6, '1599', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')
('HP', 'HP Laptop 17-by4025nr', 'Intel', 'Windows 11 Home', 'Intel Core i3', 252, '346.99', 'SSD', '256', '4.5', 17.3, 4, 'Amazon')
('Lenovo', 'ThinkPad', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 11, '999', 'SSD', '4096', '4.1', 16.0, 40, 'Amazon')
('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 2, '729', 'SSD', '512', '5', 14.0, 16, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')
('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')
('HP', 'HP laptop', 'Intel', 'Windows 11', 'Pentium', 2, '599.99', 'SSD', '2048', '4.4', 17.3, 32, 'Amazon')
('HP', 'TPN-C164', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU', 0, '1650.72', 'SSD', '8192', '4', 17.3, 64, 'Amazon')
('Dell', 'Latitude 3540 7YN', 'Intel', 'Windows 10 Pro', 'Core i5', 12, '799', 'SSD', '256', '4.5', 15.6, 16, 'Amazon')
('Dell', 'Dell Touchscreen Laptop', 'Intel', 'Windows 11 Pro', 'Core i7', 834, '1059.99', 'SSD', '4096', '4.4', 15.6, 64, 'Amazon')
('ZENAERO', 'ExceBook', 'Intel', 'Windows 11 Pro', 'Celeron N4000', 32, '199.99', 'SSD', '256', '4.4', 15.6, 8, 'Amazon')
('Panasonic', 'Toughbook 55 MK1', 'Intel', 'Windows 10 Pro', 'Core i7-8665U', 7, '1100', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')
('Lenovo', 'ThinkPad X1 Carbon Gen 12', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 0, '2099.99', 'SSD', '2048', '4.3', 14.0, 64, 'Amazon')
('Lenovo', 'ThinkPad T16 Gen 2', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '888', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')
('Lenovo', 'Lenovo V15 G4 IRU', 'Intel', 'Windows 11 Pro', 'Core i5 Family', 6, '589', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
('Lenovo', 'LOQ', 'Intel', 'Windows 11 Home', 'Intel Core i5', 8, '728', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')
('Microsoft', 'Surface Laptop 5', 'Intel', 'Windows 11 Pro', 'Core i7', 0, '699.99', 'SSD', '256', '4.4', 13.5, 16, 'Amazon')
('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '575.1', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
('HP', 'HP Essential', 'Intel', 'Windows 11 Home', 'Pentium N5000', 0, '379', 'SSD', '2048', '4.5', 14.0, 8, 'Amazon')
('HP', '15-DY5033DX', 'Intel', 'Windows 10 Pro', 'Intel Core i3', 25, '549', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
('LG', '16Z90R-K.AAS8U1', 'Intel', 'Windows 11 Home', 'Core i7', 11, '935', 'SSD', '2048', '4.3', 16.0, 16, 'Amazon')
('Dell', 'Dell Mobile Workstation 7770', 'Intel', 'Windows 11 Pro', 'Core i7', 2, '1899.99', 'SSD', '2048', '4', 17.3, 64, 'Amazon')

('Lenovo', 'Lenovo IdeaPad', 'Intel', 'Windows 11 S', 'Pentium', 237, '399.99', 'SSD', '2048', '4.3', 15.6, 20, 'Amazon')

('HP', 'HP 11" Laptop', 'Intel', 'Windows 11', 'Celeron', 78, '152.99', 'SSD', '64', '4.5', 11.0, 4, 'Amazon')

('HP', 'HP 14inch Touch Laptop', 'Intel', 'Windows 11', 'Celeron', 15, '259.99', 'SSD', '64', '4.6', 14.0, 4, 'Amazon')

('HP', 'A14M', 'AMD', 'Windows 11 Home', 'AMD R Series', 0, '823', 'SSD', '4096', '4.4', 15.6, 32, 'Amazon')

('hp', 'DFSGSGD15', 'Intel', 'Windows 11', 'Pentium', 468, '359', 'SSD', '128', '4.5', 15.6, 16, 'Amazon')

('HP', 'TPN-W155', 'Intel', 'Windows 11 Home', 'Core i7 Family', 41, '1019.99', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')

('ASUS', 'Zenbook 14X', 'Intel', 'Windows 11 Home', 'Core i5', 33, '699.99', 'SSD', '512', '4.4', 14.5, 8, 'Amazon')

('HP', 'Chromebook 11 G4', 'Intel', 'Chrome OS', 'Celeron N2840', 177, '45.06', 'SSD', '16', '3.8', 11.6, 4, 'Amazon')

('Lenovo', 'Lenovo Chromebook', 'MediaTek', 'Chrome OS', 'MediaTek MT8183', 17, '369', 'SSD', '32', '4.3', 11.6, 4, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 6, '1499', 'SSD', '8192', '4', 15.6, 64, 'Amazon')

('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 1, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 1, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')

('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')

('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')

('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')

('KOOSMILE', 'p8', 'Intel', 'OS', 'Celeron N', 130, '469', 'SSD', '2048', '4.4', 8.0, 12, 'Amazon')

('Lenovo', 'Yoga 7', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 11, '999.99', 'SSD', '2048', '4.3', 16.0, 16, 'Amazon')

('Dell', 'Dell Latitude', 'Intel', 'Windows 10 Pro', 'Core i5', 770, '190', 'SSD', '256', '4.4', 14.0, 16, 'Amazon')

('HP', 'laptop', 'Intel', 'Windows 11 Pro', 'Core i7', 8, '1049', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')

('NIAKUN', 'VenBook', 'Intel', 'Windows 11 Pro', 'Celeron N4000', 46, '259.99', 'SSD', '256', '4.6', 15.6, 8, 'Amazon')

('Apple', 'MacBook Pro', 'Intel', 'macOS 10.14 Mojave', 'Core i7', 421, '326', 'SSD', '512', '4.2', 13.0, 16, 'Amazon')

('SAMSUNG', 'Chromebook 4', 'Intel', 'Chrome OS', 'Celeron N3450', 844, '229.99', 'SSD', '32', '4.5', 11.6, 4, 'Amazon')

('HP', 'ZBook Firefly G10', 'Intel', 'Windows 11 Pro', 'Core i7', 0, '1299.99', 'SSD', '512', '4.4', 16.0, 32, 'Amazon')

('VGKE', 'B15_Pro', 'Intel', 'Windows 11 Home', 'Celeron', 40, '279.99', 'SSD', '256', '4.4', 15.6, 12, 'Amazon')

('Microsoft', 'Surface Pro', 'Intel', 'Windows 11', '4.2 GHz', 188, '890', 'SSD', '256', '4.5', 13.0, 256, 'Amazon')

('acer', '2023 Newest Acer X360 Chromebook Spin', 'MediaTek', 'Chrome OS', 'MediaTek MT8183', 113, '225', 'EMMC', '64', '4.5', 11.6, 4, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 6, '1499', 'SSD', '8192', '4', 15.6, 64, 'Amazon')

('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '575.1', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 1, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')

('ist computers', 'Lenovo ThinkBook 15 Gen 4', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 43, '649.98', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')

('ApoloSign', 'NJP1561P', 'Intel', 'Windows 11', 'Intel Celeron D', 6, '299.99', 'HDD', '512', '4.6', 15.6, 12, 'Amazon')

('Dell', 'Latitude 5440', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 3, '899', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')

('HP', 'TPN-W146_300N1AV', 'Intel', 'Windows 11 Pro', 'Core i5 Family', 0, '869.99', 'SSD', '2048', '4.4', 17.3, 32, 'Amazon')
('SAMSUNG', 'Galaxy Book3 Pro 360', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 6, '1349.99', 'SSD', '2048', '4', 16.0, 16, 'Amazon')
('HP', 'TPN-I139_4V788AV', 'Intel', 'Windows 11 Home', 'Core i7 Family', 59, '809', 'SSD', '2048', '4.4', 17.3, 32, 'Amazon')
('HP', 'Newest HP 14 Inch Laptop', 'Intel', 'Windows 11 S', 'Celeron N', 66, '229', 'EMMC', '64', '4.5', 14.0, 4, 'Amazon')
('Lenovo', 'ThinkBook', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 49, '1149', 'SSD', '2048', '4', 16.0, 32, 'Amazon')
('Apple', 'MWP72LL/A', 'Intel', 'Mac OS', 'Core i5', 132, '524.99', 'SSD', '512', '4.4', 13.3, 16, 'Amazon')
('Apple', '2022 Apple MacBook Air M2, 16GB RAM, 1TB Storage - Midnight (Z160000B6)', 'Apple', 'macOS 12 Monterey', 'Unknown', 18, '1038.99', 'SSD', '2048', '4.4', 13.0, 16, 'Amazon')
('ANPCOWER', 'A26', 'Intel', 'Windows 11 Pro', 'Celeron', 12, '229.49', 'SSD', '512', '4.5', 16.0, 16, 'Amazon')
('Lenovo', 'ThinkPad X1 Titanium Yoga', 'Intel', 'Windows 11 Pro', 'Core i5', 18, '899.99', 'SSD', '2048', '4.4', 13.5, 16, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 38, '1299', 'SSD', '2048', '4', 15.6, 16, 'Amazon')
('HP', 'HP Essential', 'Intel', 'Windows 11 Home', 'Pentium N5000', 0, '379', 'SSD', '2048', '4.5', 14.0, 8, 'Amazon')
('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')
('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
('GIGABYTE', 'AORUS 17X AZF-D5US665SH', 'Intel', 'Windows 11 Home', 'Intel Core i9', 13, '2899', 'SSD', '4096', '4.3', 17.3, 32, 'Amazon')
('Lenovo', 'ThinkPad X1 Titanium Yoga', 'Intel', 'Windows 11 Pro', 'Core i5', 18, '899.99', 'SSD', '2048', '4.4', 13.5, 16, 'Amazon')
('ASUS', 'Zenbook Pro 14 Duo', 'Intel', 'Windows 11 Home', 'Core i9', 81, '999', 'SSD', '2048', '4.2', 14.5, 32, 'Amazon')
('Microsoft', 'Surface Laptop 5', 'Intel', 'Windows 11 Pro', 'Core i7', 0, '699.99', 'SSD', '256', '4.4', 13.5, 16, 'Amazon')
('HP', 'Newest HP 14 Inch Laptop', 'Intel', 'Windows 11 S', 'Celeron N', 66, '229', 'EMMC', '64', '4.5', 14.0, 4, 'Amazon')
('Dell', 'Dell Inspiron', 'Intel', 'Windows 11 Home', 'Core i5', 56, '443.99', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')
('Lenovo', 'Lenovo IdeaPad 3', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 5, '599', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
('HP', 'Elitebook x360 1040 G8', 'Intel', 'Windows 11 Pro', 'Core i7', 72, '499', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')
('Apple', 'MWP72LL/A', 'Intel', 'Mac OS', 'Core i5', 132, '524.99', 'SSD', '512', '4.4', 13.3, 16, 'Amazon')
('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')
('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '575.1', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
('HP', 'HP Essential', 'Intel', 'Windows 11 Home', 'Pentium N5000', 0, '379', 'SSD', '2048', '4.5', 14.0, 8, 'Amazon')
('ASUS', 'F1504Z', 'Intel', 'Windows 11 Home', 'Core i7 Family', 28, '696', 'SSD', '2048', '4.4', 15.6, 40, 'Amazon')
('HP', 'TPN-Q279', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 1, '759', 'SSD', '2048', '4.5', 15.6, 16, 'Amazon')
('Oemgenuine', 'Latitude 5550', 'Intel', 'Windows 11 Pro', 'Intel Core 7', 3, '1219.95', 'SSD', '2048', '4', 15.6, 32, 'Amazon')
('HP', '17', 'Intel', 'Windows 11 Home', 'Core i5 Family', 70, '678.24', 'SSD', '2048', '4.4', 17.3, 32, 'Amazon')
('Lenovo', 'Newest Lenovo Slim 3 Chromebook', 'MediaTek', 'Chrome OS', 'Cortex', 2

9, '216', 'EMMC', '64', '4.5', 14.0, 4, 'Amazon')
 ('HP', 'HP 17 Laptop', 'AMD', 'Windows 11 Home', 'Ryzen 5', 19, '564.99', 'SSD', '2048', '4.4', 17.3, 16, 'Amazon')
 ('Lenovo', 'ThinkBook', 'Intel', 'Windows 11 Pro', 'Intel Core Ultra 7', 20, '1119', 'SSD', '4096', '4.4', 16.0, 64, 'Amazon')
 ('HP', 'TPN-W155', 'Intel', 'Windows 11 Home', 'Core i7 Family', 41, '1019.99', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')
 ('ANPCOWER', 'A26', 'Intel', 'Windows 11 Pro', 'Celeron', 12, '229.49', 'SSD', '512', '4.5', 16.0, 16, 'Amazon')
 ('acer', 'Aspire 3', 'AMD', 'Windows 11 Pro', 'AMD Ryzen 7 5700U', 7, '489.99', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
 ('Dell', 'Precision 5540 Laptop', 'Intel', 'Windows 10 Pro', 'Core i9', 11, '875.96', 'SSD', '512', '3.7', 15.6, 32, 'Amazon')
 ('KOOSMILE', 'p8', 'Intel', 'OS', 'Celeron N', 130, '469', 'SSD', '2048', '4.4', 8.0, 12, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 6, '1499', 'SSD', '8192', '4', 15.6, 64, 'Amazon')
 ('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 1, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 1, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')
 ('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')
 ('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
 ('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')
 ('ApoloSign', 'NJP1561P-1', 'Intel', 'Windows 11', 'Celeron N5095', 23, '265.99', 'SSD', '512', '4.6', 15.6, 12, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 0, '749', 'SSD', '256', '4.3', 14.0, 16, 'Amazon')
 ('HP', 'HP', 'Intel', 'Windows 10', 'Celeron N4020', 477, '399.99', 'EMMC', '64', '4.3', 14.0, 16, 'Amazon')
 ('jumper', 'EZbook S7-Hi', 'Intel', 'Windows 11', 'Celeron 5205U', 23, '379.99', 'SSD', '128', '3.3', 15.6, 4, 'Amazon')
 ('ASUS', 'ASUS Laptop L410MA', 'Intel', 'Windows 10 S', 'Celeron N4020', 821, '152.11', 'SSD', '64', '4.5', 14.0, 4, 'Amazon')
 ('HP', 'TPN-Q279', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 0, '797.94', 'SSD', '2048', '4.5', 15.6, 32, 'Amazon')
 ('EXCaliberPC', 'ASUS ROG Zephyrus G16 GU605', 'Intel', 'Windows 11 Home', 'Intel Mobile CPU', 1, '1720.09', 'SSD', '2048', '4', 16.0, 16, 'Amazon')
 ('ASUS', 'TUF Gaming A16', 'AMD', 'Windows 11', 'Ryzen 7', 5, '899', 'SSD', '512', '4.4', 16.0, 16, 'Amazon')
 ('HP', '17', 'Intel', 'Windows 11 Home', 'Core i5 Family', 70, '678.24', 'SSD', '2048', '4.4', 17.3, 32, 'Amazon')
 ('LG', '16Z90S-G.ADB9U1', 'Intel', 'Windows 11 Home', 'Intel Core Ultra 7', 18, '1399.99', 'SSD', '4096', '4', 16.0, 32, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 6, '1499', 'SSD', '8192', '4', 15.6, 64, 'Amazon')
 ('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '575.1', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 1, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')
 ('Lenovo', 'Lenovo', 'MediaTek', 'Chrome OS', 'MediaTek Helio', 47, '221', 'SSD', '64', '4.5', 14.0, 4, 'Amazon')
 ('Dell', 'Latitude 7480', 'Intel', 'Windows 10 Pro', 'Core i7', 335, '214.99', 'SSD', '512', '4.5', 14.0, 16, 'Amazon')
 ('acer', 'Aspire 3', 'AMD', 'Windows 11 Pro', 'AMD Ryzen 7 5700U', 7, '489.99', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
 ('Lenovo', 'ThinkPad X1 Carbon Gen 12', 'Intel', 'Windows 11 Pro', 'Core i7', 0, '1690.99', 'SSD', '2048', '4.4', 14.0, 32, 'Amazon')
 ('Lenovo', 'Yoga 7i', 'Intel', 'Windows 11 Home', 'Core i5', 31, '649.98', 'SSD', '512', '4.4', 16.0, 8, 'Amazon')
 ('HP', 'HP Laptop', 'Intel', 'Windows 11 Pro', 'Core i5', 1, '539', 'SSD', '512',

'4.4', 15.6, 16, 'Amazon')
 ('Oemgenuine', 'ThinkPad E16 Gen 1', 'Intel', 'Windows 11 Pro', 'Core i7', 172, '1009.95', 'SSD', '2048', '4.4', 16.0, 40, 'Amazon')
 ('Microsoft', 'Surface Laptop Studio 2', 'Intel', 'Windows 11', 'Core i7', 0, '2634.96', 'SSD', '2048', '4', 14.4, 32, 'Amazon')
 ('Apple', 'MacBook Pro', 'Intel', 'macOS 10.14 Mojave', 'Core i5', 90, '309.99', 'SSD', '256', '4.5', 13.3, 8, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 38, '1299', 'SSD', '2048', '4', 15.6, 16, 'Amazon')
 ('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
 ('HP', 'HP Essential', 'Intel', 'Windows 11 Home', 'Pentium N5000', 0, '379', 'SSD', '2048', '4.5', 14.0, 8, 'Amazon')
 ('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 1, '729', 'SSD', '4096', '1', 14.0, 64, 'Amazon')
 ('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
 ('Dell', 'Latitude 5520', 'Intel', 'Windows 11 Pro', 'Core i7', 0, '1149.99', 'SSD', '2048', '4', 15.6, 32, 'Amazon')
 ('HP', 'HP 15', 'Intel', 'Windows 11 Home', 'Core i3 Family', 15, '399.99', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')
 ('EYY', 'N100 2 in 1 Laptop', 'Intel', 'Windows 11 Pro', 'Intel Processor N100', 18, '389.99', 'SSD', '512', '4.3', 14.0, 512, 'Amazon')
 ('ASUS', 'TUF Gaming A15', 'AMD', 'Windows 11 Home', 'Ryzen 7', 76, '1130.53', 'SSD', '2048', '4', 15.6, 16, 'Amazon')
 ('HP', 'Envy 16 120Hz Touch i7 RTX4060', 'Intel', 'Windows 11 Pro', 'Core i7', 5, '1179', 'SSD', '2048', '4.4', 16.0, 32, 'Amazon')
 ('HP', 'Elitebook x360 1040 G8', 'Intel', 'Windows 11 Pro', 'Core i7', 72, '499', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')
 ('HP', 'Elitebook 840 G7', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 26, '219', 'SSD', '256', '4.6', 14.0, 16, 'Amazon')
 ('Microsoft', 'Surface Laptop Go 2', 'Intel', 'Windows 11 Home', 'Intel Core i5', 391, '604.99', 'SSD', '256', '4.4', 12.45, 8, 'Amazon')
 ('Dell', 'Precision 5540 Laptop', 'Intel', 'Windows 10 Pro', 'Core i9', 11, '875.96', 'SSD', '512', '3.7', 15.6, 32, 'Amazon')
 ('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '575.1', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Core i5', 2, '929', 'SSD', '2048', '4.1', 15.6, 32, 'Amazon')
 ('Dell', 'Dell Inspiron', 'AMD', 'Windows 11 Pro', '1.2GHz Cortex A8 Processor', 0, '649', 'SSD', '2048', '4.4', 15.6, 36, 'Amazon')
 ('GIGABYTE', 'AORUS 17X AZF-D5US665SH', 'Intel', 'Windows 11 Home', 'Intel Core i9', 13, '2899', 'SSD', '4096', '4.3', 17.3, 32, 'Amazon')
 ('Lenovo', 'Lenovo Chromebook 100e 2nd Gen', 'ARM', 'Chrome OS', 'ARMv7', 33, '49.99', 'SSD', '32', '4.4', 11.6, 4, 'Amazon')
 ('HP', 'TPN-Q279', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 1, '759', 'SSD', '2048', '4.5', 15.6, 16, 'Amazon')
 ('Morostron', 'LeadBook T11', 'Intel', 'Windows 11', 'Celeron', 4, '169.99', 'SSD', '192', '4.5', 14.1, 4, 'Amazon')
 ('AimCare', 'Laptop', 'Intel', 'Windows 11 S', 'Pentium', 15, '229', 'SSD', '128', '4.5', 14.0, 4, 'Amazon')
 ('MSI', 'Cyborg 15 A12UCX-276US', 'Intel', 'Windows 11 Home', 'Core i5 Family', 30, '616', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
 ('HP', 'HP Spectre', 'Intel', 'Windows 11 Pro', 'Intel Core Ultra 7', 73, '1322.7', 'SSD', '2048', '4.4', 14.0, 16, 'Amazon')
 ('Lenovo', 'ThinkPad X1 Carbon Gen 12', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 0, '1509.99', 'SSD', '512', '4.4', 14.0, 32, 'Amazon')
 ('Lenovo', 'Slim 7 ProX', 'AMD', 'Windows 11 Home', 'Ryzen 9', 26, '998', 'SSD', '2048', '4.3', 14.5, 32, 'Amazon')
 ('acer', 'acer laptop', 'Intel', 'Windows 11 Home', 'Intel Core i3', 2, '350.24', 'SSD', '512', '4.3', 14.0, 8, 'Amazon')
 ('HP', 'HP 2024 Newest Laptop', 'Intel', 'Windows 11', 'Core i3', 2, '599.99', 'SSD', '256', '4.5', 14.0, 16, 'Amazon')

D', '2048', '4.4', 15.6, 64, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 0, '649', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')
('Dell', 'Dell Inspiron 15 3520 Laptop', 'Intel', 'Windows 11 Home', 'Core i5', 51, '829.99', 'SSD', '4096', '4.4', 15.6, 64, 'Amazon')
('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMM C', '64', '4.5', 10.1, 2, 'Amazon')
('HP', '14dq0760dx', 'Intel', 'Windows 11 Home', 'Celeron N4020', 0, '279', 'EMM C', '128', '4.6', 14.0, 16, 'Amazon')
('Lenovo', 'ThinkPad', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 11, '1099', 'SSD', '8192', '4', 16.0, 40, 'Amazon')
('HP', 'HP Laptop', 'Intel', 'Windows 11 Pro', 'Celeron', 802, '323', 'EMMC', '128', '4.5', 14.0, 16, 'Amazon')
('Lenovo', 'ThinkPad P14s Gen 3', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 10, '999', 'SSD', '2048', '4.3', 14.0, 32, 'Amazon')
('HP', 'HP 17t', 'Intel', 'Windows 11 Home', 'Core i5', 186, '651.97', 'SSD', '2048', '4.4', 17.3, 32, 'Amazon')
('Apple', 'MacBook Pro', 'Apple', 'Mac OS', 'Others', 11, '1949', 'SSD', '2048', '5', 16.0, 18, 'Amazon')
('Lenovo', 'Lenovo IdeaPad 3', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 5, '599', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
('Dell', 'Latitude E7470', 'Intel', 'Windows 10 Pro', 'Core i7', 165, '198.5', 'SSD', '512', '4.4', 14.1, 16, 'Amazon')
('ist computers', 'ProBook 455 G10', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 15, '749.98', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')
('Dell', 'Vostro', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 12, '679', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')
('ASUS', 'ASUS Business Laptop', 'Intel', 'Windows 11 S', 'Celeron', 0, '179', 'EMMC', '64', '4.4', 14.0, 4, 'Amazon')
('acer', 'Aspire 5', 'AMD', 'Windows 11', 'AMD Ryzen 5 5500U', 839, '449.97', 'SSD', '256', '4.5', 15.6, 8, 'Amazon')
('ASUS', 'TUF Dash 15 (2022)', 'Intel', 'Windows 11 Home', 'Core i7', 468, '1095', 'SSD', '512', '4', 15.6, 16, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 2, '729', 'SSD', '2048', '5', 14.0, 16, 'Amazon')
('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 0, '629', 'SSD', '256', '4.4', 14.0, 16, 'Amazon')
('AOC', 'AX15', 'Intel', 'Windows 11', 'Intel Mobile CPU', 3, '999.99', 'SSD', '512', '4.1', 15.6, 16, 'Amazon')
('HP', 'Laptop', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 11, '769', 'SSD', '2048', '4.5', 15.6, 32, 'Amazon')
('Lenovo', 'IdeaPad 3 15ITL6', 'Intel', 'Windows 11 Home', 'Core i5 Family', 173, '476.95', 'SSD', '2048', '4.2', 15.6, 24, 'Amazon')
('Dell', 'Latitude 5490', 'Intel', 'Windows 10 Pro', 'Core i5 7200U', 136, '171.22', 'SSD', '16', '4.5', 14.0, 16, 'Amazon')
('ASUS', 'CX1500', 'Intel', 'Chrome OS', 'Celeron N3350', 35, '118', 'SSD', '64', '4.4', 15.6, 4, 'Amazon')
('ist computers', 'ThinBook 14 Gen 6', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 14, '749.98', 'SSD', '512', '4.5', 14.0, 16, 'Amazon')
('HP', 'ENVY 17t-cr100', 'Intel', 'Windows 11 Pro', 'Core i7', 69, '1265.99', 'SSD', '4096', '4.4', 17.3, 64, 'Amazon')
('Microsoft', 'Surface Pro', 'Intel', 'Windows 11 Home', 'Core i7', 281, '1091', 'SSD', '256', '4.4', 13.0, 16, 'Amazon')
('HP', 'HP Pavilion', 'Intel', 'Windows 11', 'Intel Core i5-1135G7', 116, '479.01', 'SSD', '256', '4.4', 14.0, 8, 'Amazon')
('Morostron', 'LeadBook T7 Pro', 'Intel', 'Windows 11', 'Celeron', 28, '289.99', 'SSD', '2048', '4.6', 15.6, 16, 'Amazon')
('acer', 'Spin 513', 'Qualcomm', 'Chrome OS', 'Qualcomm Snapdragon S4 MSM8270', 26, '279.99', 'SSD', '192', '4.6', 13.3, 4, 'Amazon')
('Lenovo', 'Laptop', 'Intel', 'Windows 11 Home', 'Celeron N', 89, '387', 'SSD', '2

048', '4.5', 15.6, 16, 'Amazon')
('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '6
4', '4.6', 14.1, 6, 'Amazon')
('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '409
6', '4.4', 15.6, 8, 'Amazon')
('Lenovo', 'ThinkBook 16 G4+ IAP', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU',
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('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 24, '889', 'SSD',
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D', '4096', '4.4', 16.0, 64, 'Amazon')
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'2277.46', 'SSD', '2048', '4', 17.0, 32, 'Amazon')
('Dell', 'Dell Inspiron', 'Intel', 'Windows 11 Pro', 'Core i7', 0, '939.99', 'SS
D', '2048', '4.1', 15.6, 64, 'Amazon')
('Getac', 'GETAC K120', 'Intel', 'Windows 11 Pro', 'Core i5 8250U', 11, '440', 'SS
D', '512', '4.1', 12.5, 16, 'Amazon')
('Dell', 'Dell XPS Tower', 'Intel', 'Windows 11 Home', 'Core i7', 13, '845', 'HD
D', '2048', '4.4', 15.6, 16, 'Amazon')
('ist computers', 'ThinkPad T14 Gen4', 'Intel', 'Windows 11 Pro', 'Core i5', 29,
'1049.99', 'SSD', '2048', '4.4', 14.0, 40, 'Amazon')
('Dell', '5300', 'Intel', 'Windows 10 Pro', 'Core i7', 142, '252.99', 'SSD', '25
6', '4.6', 13.3, 16, 'Amazon')
('Dell', 'XPS 13 9340', 'Intel', 'Windows 11 Pro', '3.8 GHz none', 9, '1399.99',
'SSD', '2048', '4.4', 13.4, 16, 'Amazon')
('HP', '2024 Premium HP 14" Chromebook', 'Intel', 'Chrome OS', 'Celeron N', 134,
'249', 'EMMC', '64', '4.5', 14.0, 4, 'Amazon')
('HP', 'HP Essential', 'Intel', 'Windows 11 Home', 'Pentium N5000', 0, '379', 'SS
D', '2048', '4.5', 14.0, 8, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 6, '1499', 'SSD',
'8192', '4', 15.6, 64, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 1, '849', 'SSD',
'2048', '4.3', 15.6, 16, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMM
C', '64', '4.5', 10.1, 2, 'Amazon')
('HP', 'Elitebook', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 5, '1139', 'SSD',
'4096', '4', 16.0, 32, 'Amazon')
('Lenovo', 'ThinkPad', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 14, '1049', 'SS
D', '2048', '4', 16.0, 24, 'Amazon')
('Dell', 'Dell latitude 15.6" laptop', 'Intel', 'Windows 11 Pro', 'Intel Core i5',

1, '819', 'SSD', '512', '5', 15.6, 16, 'Amazon')
 ('Lenovo', 'ThinkBook', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 30, '719', 'SSD', '512', '4.3', 16.0, 16, 'Amazon')
 ('Lenovo', 'ThinkBook', 'Intel', 'Windows 11 Pro', 'Ryzen 5', 27, '699', 'SSD', '512', '4.4', 16.0, 16, 'Amazon')
 ('ASUS', 'Asus ROG Strix G17 G713 Gaming Laptop', 'AMD', 'Windows 11', 'Core i9', 5, '1539', 'SSD', '2048', '4', 17.3, 32, 'Amazon')
 ('Dell', 'Dell Latitude 7420 Laptop', 'Intel', 'Windows 11', 'Intel Core i5', 9, '329.99', 'SSD', '256', '4.5', 14.0, 16, 'Amazon')
 ('LG', 'gram', 'Intel', 'Windows 11 Pro', 'Core i7', 0, '1934.99', 'SSD', '4096', '4', 17.0, 32, 'Amazon')
 ('Lenovo', 'Business Laptop', 'Intel', 'Windows 11 Pro', 'Intel Core i3', 8, '899', 'SSD', '2048', '4.3', 15.6, 24, 'Amazon')
 ('Lenovo', 'Legion Pro 7i Gen 9 Intel', 'Intel', 'Windows 11 Home', 'Core i9', 4, '2899.99', 'SSD', '4096', '4', 16.0, 32, 'Amazon')
 ('HP', 'HP 15.6', 'Intel', 'Windows 11', 'Pentium', 4, '189.98', 'SSD', '128', '4.4', 15.6, 4, 'Amazon')
 ('ist computers', 'ThinkBook 14 Gen 4', 'Intel', 'Windows 11 Pro', 'Core i5', 3, '599.98', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')
 ('Dell', '1920 X 1080 Pixels', 'Intel', 'Windows 10 Pro', 'Core i7-8650U', 77, '254.99', 'SSD', '256', '4.6', 13.3, 16, 'Amazon')
 ('Lenovo', 'ThinkPad', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 22, '899', 'SSD', '2048', '4.3', 16.0, 24, 'Amazon')
 ('HP', 'HP laptop', 'Intel', 'Windows 11 Pro', 'Core i3', 0, '599.99', 'SSD', '2048', '4.4', 15.3, 40, 'Amazon')
 ('Lenovo', 'Lenovo Thinkpad', 'AMD', 'Windows 10 Pro', 'AMD Ryzen 7', 0, '479', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
 ('Lenovo', 'Legion 5 16IRX9', 'Intel', 'Windows 11 Home', 'Core i9', 2, '1999.99', 'SSD', '4096', '4.4', 16.0, 64, 'Amazon')
 ('Dell', 'Inspiron', 'Intel', 'Windows 11 Home S', 'Intel Core i5', 22, '579', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')
 ('Apple', 'MacBook Pro', 'Intel', 'macOS 10.15 Catalina', 'Core i7', 32, '388', 'SSD', '256', '4.4', 13.3, 16, 'Amazon')
 ('Microsoft', 'Surface Pro', 'Intel', 'Windows 10 Home', 'core_i7', 275, '383.9', 'SSD', '256', '4.4', 12.3, 16, 'Amazon')
 ('HP', 'HP', 'Intel', 'Windows 11 Home', 'Intel Core i3', 16, '565', 'SSD', '4096', '4.4', 17.3, 32, 'Amazon')
 ('HP', 'HP Stream Laptop', 'Intel', 'Windows 11 Home', 'Celeron', 255, '269', 'EMMC', '64', '4.4', 14.0, 16, 'Amazon')
 ('HP', 'HP Chromebook', 'Qualcomm', 'Chrome OS', 'Snapdragon', 165, '196.97', 'EMMC', '64', '4.4', 11.0, 8, 'Amazon')
 ('Naclud', 'Naclud-M15PRO', 'Intel', '11', 'Celeron', 15, '169.98', 'SSD', '256', '4', 15.6, 8, 'Amazon')
 ('Lenovo', 'Newest Lenovo 14" HD Laptop', 'Intel', 'Windows 11 Home', 'Celeron N4020', 6, '219', 'SSD', '64', '4.5', 14.0, 4, 'Amazon')
 ('HP', 'HP Stream', 'Intel', 'Windows 11 Pro', 'Celeron', 74, '249.99', 'EMMC', '320', '4.5', 14.0, 16, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 0, '699', 'SSD', '2048', '4.4', 14.0, 32, 'Amazon')
 ('Dell', 'Dell Latitude 7390', 'Intel', 'Windows 11', 'Core i7', 0, '245', 'SSD', '256', '4.5', 13.3, 16, 'Amazon')
 ('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
 ('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')
 ('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
 ('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
 ('HP', 'HP Touch', 'Intel', 'Windows 11', 'Celeron', 30, '359.99', 'SSD', '256', '4.5', 15.6, 8, 'Amazon')
 ('Lenovo', 'IdeaPad', 'Intel', 'Windows 11', 'Pentium', 131, '174', 'SSD', '128', '4.5', 14.0, 4, 'Amazon')
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8.88', 'SSD', '256', '4.5', 14.0, 16, 'Amazon')
 ('HP', 'HP Laptop', 'Intel', 'Windows 11 Pro', 'Core i3', 122, '579.97', 'SSD', '2048', '4.4', 17.3, 32, 'Amazon')
 ('AimCare', 'XPS', 'Intel', 'Windows 11 Pro', 'Core i7', 6, '1599', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')
 ('HP', 'HP Laptop 17-by4025nr', 'Intel', 'Windows 11 Home', 'Intel Core i3', 252, '346.99', 'SSD', '256', '4.5', 17.3, 4, 'Amazon')
 ('Lenovo', 'T470', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 575, '175', 'SSD', '256', '4.4', 14.0, 16, 'Amazon')
 ('HP', 'HP Omen 16 165Hz i9 RTX4060', 'Intel', 'Windows 11 Pro', 'Core i9', 3, '1329', 'SSD', '2048', '4', 16.1, 32, 'Amazon')
 ('HP', 'Newest HP 14 Inch Laptop', 'Intel', 'Windows 11 Home', 'Celeron N', 41, '268', 'EMMC', '128', '4.4', 14.0, 4, 'Amazon')
 ('Lenovo', 'IdeaPad 15sIIL', 'AMD', 'Windows 11 Home', 'Ryzen 5', 51, '410', 'SSD', '512', '4.2', 15.6, 16, 'Amazon')
 ('Apple', 'MacBook Pro', 'Apple', 'Mac OS', 'Apple M1', 37, '1699.99', 'SSD', '2048', '4.4', 16.0, 32, 'Amazon')
 ('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')
 ('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '575.1', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
 ('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 1, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
 ('HP', 'TPN-I139_320M3AV', 'Intel', 'Windows 11 Home', 'Core i3 Family', 24, '455.76', 'SSD', '512', '4.4', 17.3, 16, 'Amazon')
 ('Molegar', 'A146G', 'Intel', 'Windows 11', 'Celeron', 25, '228.99', 'SSD', '512', '4.5', 14.0, 8, 'Amazon')
 ('Dell', 'Latitude 5000', 'Intel', 'Windows 11 Pro', 'Core i5', 11, '318.88', 'SSD', '512', '3.9', 14.0, 16, 'Amazon')
 ('Lenovo', 'ThinkBook 15 G4 ABA', 'AMD', 'Windows 11 Pro', 'AMD Ryzen 7', 4, '538', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
 ('HP', 'HP Victus', 'Intel', 'Windows 10', 'Ryzen 5', 5, '667.99', 'SSD', '512', '4.4', 15.6, 8, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Core i5', 1, '829.99', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
 ('ist computers', 'EliteBook 860 G9', 'Intel', 'Windows 11 Pro', 'Core i5', 1, '949.99', 'SSD', '2048', '4.1', 16.0, 32, 'Amazon')
 ('HP', 'TPN-W155_', 'Intel', 'Windows 11 Home', 'Core i7 Family', 53, '799', 'SSD', '2048', '4.5', 15.6, 32, 'Amazon')
 ('Dell', 'Latitude Rugged Extreme 7230 Laptop', 'Intel', 'Windows 11 Professional', 'Core i5', 2, '899.99', 'SSD', '256', '4.4', 12.0, 16, 'Amazon')
 ('LG', 'LG gram 16', 'Intel', 'Windows 11', 'Core i7', 4, '989.99', 'SSD', '2048', '4.3', 16.0, 16, 'Amazon')
 ('Lenovo', 'ThinkPad P14s Gen 2', 'Intel', 'Windows 11 Pro', 'Core i7', 0, '1149.99', 'SSD', '4096', '4.4', 14.0, 32, 'Amazon')
 ('GIGABYTE', 'AERO 16 OLED BSF-A3US964SP', 'Intel', 'Windows 11 Pro', 'Core i9', 42, '1799', 'SSD', '2048', '4.4', 16.0, 32, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 1, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 6, '1499', 'SSD', '8192', '4', 15.6, 64, 'Amazon')
 ('HP', 'HP Essential', 'Intel', 'Windows 11 Home', 'Pentium N5000', 0, '379', 'SSD', '2048', '4.5', 14.0, 8, 'Amazon')
 ('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 0, '749', 'SSD', '4096', '4.3', 14.0, 32, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 24, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')
 ('acer', 'AN515-58-725A', 'Intel', 'Windows 11 Home', 'Core i7', 57, '910', 'SSD', '512', '4.1', 15.6, 16, 'Amazon')
 ('Lenovo', 'Lenovo Thinkpad Yoga', 'Intel', 'Windows 10 Pro', 'Core i5', 14, '289.9', 'SSD', '512', '4.6', 13.3, 16, 'Amazon')
 ('HP', 'HP EliteBook', 'Intel', 'Windows 10', 'Core i7 6600U', 985, '189.99', 'SSD', '256', '4.4', 15.6, 16, 'Amazon')

D', '512', '4.5', 14.1, 16, 'Amazon')
 ('HP', 'HP Laptop', 'Intel', 'Windows 11 S', 'Celeron', 132, '314.99', 'EMMC', '64', '4.2', 14.0, 16, 'Amazon')
 ('MSI', 'MSI Katana A15 144Hz 13th i7 RTX4060', 'Intel', 'Windows 11 Pro', 'Core i7', 1, '1149', 'SSD', '2048', '4', 15.6, 32, 'Amazon')
 ('Dell', 'DECHB252066SA', 'Intel', 'Chrome OS', 'Celeron 330', 156, '44.79', 'EMMC', '32', '4.4', 11.6, 4, 'Amazon')
 ('Dell', 'Inspiron 7440 2 in 1', 'Intel', 'Windows 11 Pro', 'Core i7', 20, '999.99', 'SSD', '2048', '4.3', 14.0, 16, 'Amazon')
 ('Dell', 'Inspiron 7620', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 23, '1599.99', 'SSD', '4096', '4.4', 16.0, 64, 'Amazon')
 ('HP', 'HP Pavilion x360', 'Intel', 'Windows 11 Pro', 'Core i3', 4, '549.98', 'SSD', '512', '4.4', 14.0, 8, 'Amazon')
 ('Lenovo', 'Lenovo IdeaPad 3i', 'Intel', 'Windows 11 Home', 'Intel Core i5', 0, '599', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')
 ('HP', 'Chromebook X360 G1', 'Intel', 'Chrome OS', 'Core i5-8350U', 827, '419.99', 'HDD', '64', '4.5', 14.0, 8, 'Amazon')
 ('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '575.1', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
 ('Lenovo', 'ThinkPad', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 11, '999', 'SSD', '4096', '4.1', 16.0, 40, 'Amazon')
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 ('HP', 'TPN-I130', 'Intel', 'Windows 11 Home', 'Celeron N', 45, '199.99', 'SSD', '64', '4.4', 14.0, 8, 'Amazon')
 ('ECOHERO', 'Gamma', 'Intel', 'Windows 11 Pro', 'Celeron N', 38, '199', 'SSD', '256', '4.4', 14.0, 8, 'Amazon')
 ('acer', 'Nitro V Gaming Laptop ANV15-51-99XD', 'Intel', 'Windows 11 Home', 'Intel Core i9', 305, '1299.99', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
 ('Dell', 'Dell Latitude E7450', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 683, '129.35', 'SSD', '256', '4.6', 14.0, 8, 'Amazon')
 ('Lenovo', 'V15', 'Intel', 'Windows 11 Pro', 'Celeron', 101, '279', 'SSD', '256', '4.2', 15.6, 16, 'Amazon')
 ('Lenovo', 'ThinkPad X1 Extreme Gen 4', 'Intel', 'Windows 11 Pro', 'Core i7', 5, '1799.99', 'SSD', '4096', '4.4', 16.0, 64, 'Amazon')
 ('HP', 'Pavilion', 'Intel', 'Windows 11 Pro', 'Intel Core i7-1165G7', 934, '768.16', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')
 ('Apple', 'MacBook Pro', 'Apple', 'Mac OS', 'Apple M1', 1, '1525', 'SSD', '2048', '4.4', 14.0, 32, 'Amazon')
 ('Dell', 'Dell Inspiron', 'Intel', 'Windows 11 Pro', 'Core i7', 8, '699', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')
 ('HP', 'Elitebook', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 5, '1139', 'SSD', '4096', '4', 16.0, 32, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 1, '729', 'SSD', '4096', '1', 14.0, 64, 'Amazon')
 ('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
 ('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')
 ('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '529', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
 ('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
 ('HP', 'TPN-W150', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU', 5, '796.52', 'SSD', '4096', '4.5', 14.0, 16, 'Amazon')
 ('acer', 'A515-57-53T2', 'Intel', 'Windows 11 Home', 'Core i5', 106, '427', 'SSD', '512', '4.5', 15.6, 8, 'Amazon')
 ('Dell', 'Dell Latitude', 'Intel', 'Windows 10 Pro', 'Intel Core i7', 185, '195.6', 'SSD', '256', '4.5', 14.0, 16, 'Amazon')
 ('Lenovo', 'Thinkpad', 'Intel', 'Windows 11', 'Intel Mobile CPU', 19, '129.99', 'SSD', '128', '4.6', 11.6, 8, 'Amazon')
 ('Razer', 'Blade 17', 'Intel', 'Windows 11', 'Core i7', 81, '2049', 'SSD', '2048',

'4', 17.3, 16, 'Amazon')
('ASUS', 'Zenbook', 'AMD', 'Windows 11 Home', 'AMD Ryzen 7', 1, '799.99', 'SSD', '512', '4.5', 14.0, 16, 'Amazon')
('HP', 'HP 14in', 'Intel', 'Windows 11 Home', 'Mobile Intel Celeron Processor', 97, '229.99', 'EMMC', '64', '4.5', 14.0, 16, 'Amazon')
('HP', 'ENVY', 'AMD', 'Windows 10', 'Ryzen 5 3500U', 56, '539.99', 'SSD', '256', '4.4', 15.6, 8, 'Amazon')
('Panasonic', 'Panasonic Toughbook 31', 'Intel', 'Windows 10 Pro', 'Core i5 5300U', 93, '449.95', 'SSD', '2048', '4.4', 13.1, 16, 'Amazon')
('ASUS', 'ASUS Chromebook C203XA', 'Intel', 'Chrome OS', 'Mediatek 8317 Dual Core', 28, '59.99', 'SSD', '32', '4.4', 11.6, 4, 'Amazon')
('Dell', 'Dell Chromebook 3120', 'Intel', 'Chrome OS', 'Celeron', 717, '59.99', 'SSD', '16', '4.1', 11.0, 4, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 1, '729', 'SSD', '4096', '1', 14.0, 64, 'Amazon')
('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')
('HP', 'ProBook 455 G10', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 0, '688', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
('jumper', 'EZbook S5', 'Intel', 'Windows 11 Home', 'Celeron', 32, '409.99', 'SSD', '256', '3.7', 14.0, 12, 'Amazon')
('HP', 'Newest HP 14 Inch Laptop', 'Intel', 'Windows 11 Home', 'Celeron N', 135, '249', 'EMMC', '64', '4.5', 14.0, 4, 'Amazon')
('ACEMAGIC', 'AX16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 5, '379.98', 'SSD', '512', '4.5', 16.0, 16, 'Amazon')
('ASUS', 'Vivobook S 14', 'AMD', 'Windows 11 Home', 'Ryzen 9', 48, '1199.99', 'SSD', '2048', '4', 14.0, 24, 'Amazon')
('ASUS', 'Zenbook', 'Intel', 'Windows 11 Pro', 'Others', 1, '625', 'SSD', '512', '4.4', 14.0, 8, 'Amazon')
('ASUS', 'Asus TUF Gaming A16', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 7, '1076.95', 'SSD', '4096', '4.4', 16.0, 32, 'Amazon')
('ASUS', 'ASUS Chromebook Flip CX5', 'Intel', 'Chrome OS', 'Intel Core i5', 1, '599.99', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')
('LG', '16T90R-K.ADB9U1', 'Intel', 'Windows 11 Home', 'Core i7', 27, '1159.97', 'SSD', '2048', '4.4', 16.0, 32, 'Amazon')
('HP', '15-dy2035tg', 'AMD', 'Windows 10 S', 'Core i3', 41, '304.99', 'SSD', '256', '4.5', 15.6, 8, 'Amazon')
('Samsung', 'Samsung Chromebook', 'Intel', 'Chrome OS', 'Celeron N4000', 42, '235', 'SSD', '64', '4.5', 15.6, 4, 'Amazon')
('HP', 'HP Laptop 15-ef2099nr', 'AMD', 'Windows 11 Home', 'Ryzen 5', 267, '359', 'SSD', '256', '4.3', 15.6, 8, 'Amazon')
('Dell', 'Dell Inspiron', 'AMD', 'Windows 11 Pro', '1.2GHz Cortex A8 Processor', 0, '649', 'SSD', '2048', '4.4', 15.6, 36, 'Amazon')
('Dell', 'Dell Inspiron 15 3520 Laptop', 'Intel', 'Windows 11 Home', 'Core i5', 51, '709.99', 'SSD', '2048', '4.5', 15.6, 32, 'Amazon')
('Lenovo', 'ThinkPad', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 11, '1099', 'SSD', '8192', '4', 16.0, 40, 'Amazon')
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('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
('Lenovo', 'V15', 'Intel', 'Windows 11 Pro', 'Core i5', 13, '509', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
('Dell', 'Dell-5500', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 99, '192.6', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
('Lenovo', 'E14 G5', 'Intel', 'Windows 11 Pro', 'Core i7', 0, '929.99', 'SSD', '512', '4.1', 14.0, 16, 'Amazon')
('acer', 'Newest Acer 15 Inch Chromebook', 'Intel', 'Chrome OS', 'Celeron', 22, '239', 'EMMC', '64', '4.5', 15.6, 4, 'Amazon')
('Lenovo', 'IdeaPad Flex 5i', 'Intel', 'Windows 11 Home', 'Core i3', 9, '399.99',

'SSD', '256', '4.5', 14.0, 8, 'Amazon')
 ('Lenovo', 'IdeaPad 1', 'Intel', 'Windows 11 Home', 'Core i3 Family', 15, '399.99', 'SSD', '512', '4.3', 15.6, 16, 'Amazon')
 ('VAIZMOYE', 'a25', 'Intel', 'Windows 11 Pro', 'Mobile Intel Celeron Processor', 0, '349.99', 'SSD', '512', '4.5', 15.6, 32, 'Amazon')
 ('Dell', 'Dell Latitude 7490', 'Intel', 'Windows 11 Pro', 'Core i7-8650U', 1, '279.98', 'SSD', '512', '4.6', 14.0, 16, 'Amazon')
 ('HP', 'HP 13.8" Laptop', 'Intel', 'Windows 11', 'Celeron N', 124, '172', 'SSD', '64', '4.5', 13.8, 4, 'Amazon')
 ('Dell', 'Dell Latitude', 'Intel', 'Windows 10 Pro', 'Core i5 6200U', 357, '162', 'SSD', '256', '4.5', 14.0, 8, 'Amazon')
 ('HP', '14-dq0030nr', 'Intel', 'Windows 11 S', 'Celeron N4020', 172, '209.49', 'EMMC', '64', '4.5', 14.0, 4, 'Amazon')
 ('Dell', 'Latitude 5540', 'Intel', 'Windows 11 Pro', 'Core i7', 9, '944.26', 'SSD', '2048', '4.3', 15.6, 32, 'Amazon')
 ('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')
 ('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '575.1', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
 ('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 1, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
 ('Apple', 'MacBook Pro', 'Apple', 'MacOS Ventura', 'Unknown', 45, '1759', 'SSD', '2048', '4.4', 16.0, 16, 'Amazon')
 ('ASUS', 'Zephyrus', 'Intel', 'Windows 11 Pro', 'Core i7', 2, '2119', 'SSD', '2048', '5', 16.0, 48, 'Amazon')
 ('hp', 'HP 17 Laptop', 'Intel', 'Windows 11 Pro', 'Core i7', 17, '849.99', 'SSD', '2048', '4.4', 17.3, 32, 'Amazon')
 ('Dell', 'Inspiron', 'AMD', 'Windows 11 Home', 'Ryzen 5', 4, '425.99', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')
 ('Dell', 'Alienware M18 R2 Gaming Laptop', 'Intel', 'Windows 11 Pro', 'Intel Core i9', 0, '4399', 'SSD', '4', '3.6', 13.3, 64, 'Amazon')
 ('Lenovo', 'Lenovo ThinkPad T14 Gen 4', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '929.95', 'SSD', '512', '4.3', 14.0, 16, 'Amazon')
 ('hp', 'HP EliteBook', 'Intel', 'Windows 10 Pro', 'Core i5', 7, '450.06', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')
 ('HP', 'HP ProBook 445 G8', 'AMD', 'Windows 10 Pro', 'Ryzen 5', 58, '269.99', 'SSD', '512', '4.6', 14.0, 16, 'Amazon')
 ('Dell', 'Inspiron', 'Intel', 'Windows 11 Home', 'Core i5 Family', 177, '444', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')
 ('HP', '2024 Newest HP 15.6 Inch Laptop', 'Intel', 'Windows 11 Home', 'Pentium Other', 8, '379', 'SSD', '128', '4.5', 15.6, 16, 'Amazon')
 ('ist computers', 'x17 R2', 'Intel', 'Windows 11 Home', 'Core i9', 0, '2499.99', 'SSD', '4096', '4.3', 17.3, 64, 'Amazon')
 ('Lenovo', 'Lenovo 16', 'Intel', 'Windows 11 Pro', 'Core i3', 25, '579.99', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 1, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 6, '1499', 'SSD', '8192', '4', 15.6, 64, 'Amazon')
 ('HP', 'HP Essential', 'Intel', 'Windows 11 Home', 'Pentium N5000', 0, '379', 'SSD', '2048', '4.5', 14.0, 8, 'Amazon')
 ('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')
 ('Lenovo', 'ThinkPad', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 14, '1049', 'SSD', '2048', '4', 16.0, 24, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 1, '729', 'SSD', '4096', '1', 14.0, 64, 'Amazon')
 ('HP', 'TPN-Q234', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU', 0, '1629', 'SSD', '4096', '4', 17.3, 64, 'Amazon')
 ('HP', 'HP 15.6', 'AMD', 'Windows 11', 'AMD Ryzen 7 5700U', 8, '499.99', 'SSD', '512', '4.8', 15.6, 16, 'Amazon')
 ('LG', '14Z90R-K.ADB9U1', 'Intel', 'Windows 11 Home', 'Core i7', 14, '1377.99', 'SSD', '2048', '4.4', 14.0, 32, 'Amazon')
 ('HP', '14-dq0054dx', 'Intel', 'Windows 11', 'Celeron N4000', 1, '209.99', 'SSD',

'64', '4.5', 14.0, 4, 'Amazon')
('HP', '15-DY1031WM', 'Intel', 'Windows 10 Home', 'Core i3', 715, '315', 'SSD', '256', '4.5', 15.6, 8, 'Amazon')
('ASUS', 'ASUS VivoBook Go 14', 'Intel', 'Windows 11 Home S', 'Celeron', 287, '217', 'SSD', '64', '4.5', 14.0, 4, 'Amazon')
('Dell', 'Dell Latitude 5400', 'Intel', 'Windows 10 Pro', 'Core i5', 170, '196.99', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')
('HP', 'ProBook 450 G10', 'Intel', 'Windows 11 Pro', 'Core i7', 0, '799.1', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')
('Microsoft', 'Surface Laptop', 'Intel', 'Windows 10', 'Intel Core i5', 20, '224', 'SSD', '256', '4.5', 13.5, 8, 'Amazon')
('ASUS', 'ASUS Vivobook 17', 'Intel', 'Windows 11 Home', 'Core i7', 17, '799', 'SSD', '512', '4.5', 17.3, 16, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 19, '949', 'SSD', '4096', '4.3', 14.0, 32, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 0, '629', 'SSD', '256', '4.4', 14.0, 16, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 24, '959', 'SSD', '2048', '4.1', 15.6, 16, 'Amazon')
('Dell', 'Dell Chromebook 3180', 'Intel', 'Chrome OS', 'Celeron', 242, '79.99', 'SSD', '64', '3.7', 11.6, 4, 'Amazon')
('Dell', 'Latitude 3440', 'Intel', 'Windows 11 Pro', 'Core i5', 10, '899.98', 'SSD', '2048', '4.4', 14.0, 32, 'Amazon')
('Lenovo', 'Lenovo ThinkPad P16 Gen 2', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 0, '2899', 'SSD', '8192', '4.3', 16.0, 128, 'Amazon')
('Lenovo', 'IdeaPad 1', 'Intel', 'Windows 11', 'Celeron N4000', 3, '219', 'SSD', '64', '4.5', 14.0, 4, 'Amazon')
('Apple', 'MacBook Pro', 'Intel', 'OS X 10.10 Yosemite', 'Core i7', 354, '229.96', 'SSD', '256', '4.5', 15.4, 16, 'Amazon')
('Lenovo', 'Lenovo Flex', 'Intel', 'Windows 11 Home', 'Core i5', 1, '569.99', 'SSD', '512', '5', 14.0, 16, 'Amazon')
('Gina Joyfurno', '15.6 Laptop', 'Intel', 'Windows 11 Home', 'Celeron N', 15, '169.99', 'SSD', '256', '4.4', 15.6, 8, 'Amazon')
('Lenovo', 'Lenovo V15 G3 IAP', 'Intel', 'Windows 10 Pro', 'Core i7 Family', 0, '919', 'SSD', '4096', '4.3', 15.6, 40, 'Amazon')
('LG', 'gram', 'Intel', 'Windows 11 Pro', 'Core i7', 2, '990', 'SSD', '2048', '4.1', 17.0, 16, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU', 20, '249', 'SSD', '128', '4.5', 11.6, 8, 'Amazon')
('Lenovo', 'IdeaPad 1 15IAU7', 'Intel', 'Windows 11 Home', 'Core i3 Family', 3, '412', 'SSD', '2048', '4.2', 15.6, 16, 'Amazon')
('HP', 'Newest HP 14 Inch Laptop', 'Intel', 'Windows 11 Home', 'Celeron N', 47, '279', 'EMMC', '64', '4.4', 14.0, 8, 'Amazon')
('Lenovo', 'ThinkPad', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 11, '799', 'SSD', '512', '4.3', 16.0, 16, 'Amazon')
('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A13', 1, '119.99', 'EMMC', '64', '4.4', 10.1, 2, 'Amazon')
('HP', 'Elitebook', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 5, '1079', 'SSD', '2048', '4', 16.0, 32, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 19, '949', 'SSD', '4096', '4.3', 14.0, 32, 'Amazon')
('Lenovo', 'Legion Slim 5', 'AMD', 'Windows 11 Home', 'Ryzen 5', 10, '1189', 'SSD', '2048', '4', 16.0, 32, 'Amazon')
('Dell', 'Latitude 7440', 'Intel', 'Windows 11 Pro', 'Core i7', 0, '1750', 'SSD', '512', '4.4', 14.0, 32, 'Amazon')
('Microsoft', 'Microsoft Surface', 'Intel', 'Windows 10', 'Core i5', 171, '329', 'SSD', '256', '4.5', 13.5, 8, 'Amazon')
('HP', 'A14M', 'AMD', 'Windows 11 Home', 'AMD R Series', 3, '758', 'SSD', '2048', '4.5', 15.6, 16, 'Amazon')
('Lenovo', 'ThinkPad T16 Gen 2', 'Intel', 'Windows 11 Pro', 'Core i7', 2, '1179',

'SSD', '512', '4.4', 16.0, 16, 'Amazon')
 ('jumper', 'Ezbook S5MAX', 'Intel', 'Windows 11', 'Celeron N', 114, '599.99', 'SSD', '512', '4.4', 16.0, 16, 'Amazon')
 ('HP', '15-FD', 'Intel', 'Windows 11 S', 'Pentium', 89, '294.99', 'SSD', '128', '4.4', 15.6, 16, 'Amazon')
 ('AimCare', 'Workstation', 'Intel', 'Windows 11 Pro', 'Others', 0, '4199', 'SSD', '16384', '5', 16.0, 64, 'Amazon')
 ('Microsoft', 'Surface Laptop 5', 'Intel', 'Windows 11 Pro', 'Core i7', 3, '1175', 'SSD', '512', '4.2', 13.5, 16, 'Amazon')
 ('HP', 'Essential', 'Intel', 'Windows 11 Pro', 'Intel Core i3', 9, '599', 'SSD', '2048', '4.4', 15.6, 40, 'Amazon')
 ('Lenovo', 'Lenovo Chromebook', 'MediaTek', 'Chrome OS', '2.05 GHz none', 8, '319', 'SSD', '576', '4.5', 14.0, 4, 'Amazon')
 ('HP', '4RU73UP#ABA', 'Intel', 'Windows 10 Pro', '1.1 GHz', 125, '95', 'SSD', '128', '4.5', 11.6, 4, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 24, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')
 ('Lenovo', 'ThinkPad', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 14, '1049', 'SSD', '2048', '4', 16.0, 24, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 0, '629', 'SSD', '256', '4.4', 14.0, 16, 'Amazon')
 ('HP', 'EliteBook', 'Intel', 'Windows 11 Professional', 'Intel Core i7', 10, '1389', 'SSD', '2048', '4', 16.0, 32, 'Amazon')
 ('HP', 'HP Touchscreen Laptop', 'Intel', 'Windows 11 Pro', 'Core i3', 105, '540', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')
 ('SAMSUNG', 'Samsung Galaxy Book4 Pro', 'Intel', 'Windows 11', 'Intel Mobile CPU', 1, '2049', 'SSD', '8192', '4', 16.0, 32, 'Amazon')
 ('Apple', 'MacBook Pro', 'Apple', 'macOS 10.12 Sierra', 'Core i7', 69, '435.55', 'SSD', '256', '4.5', 13.3, 8, 'Amazon')
 ('Lenovo', 'ThinkPad X1 Carbon Gen 11', 'Intel', 'Windows 11 Pro', 'Core i7', 1, '1599.99', 'SSD', '512', '4.4', 14.0, 32, 'Amazon')
 ('Apple', 'MacBook Air', 'Intel', 'macOS 10.13 High Sierra', 'Core i5', 137, '406.88', 'SSD', '256', '4.5', 13.0, 8, 'Amazon')
 ('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Intel Core i5', 1, '449', 'SSD', '256', '3', 13.3, 16, 'Amazon')
 ('Microsoft', 'Surface Laptop', 'Intel', 'Windows 11 Home', 'Intel Core i5', 97, '875', 'SSD', '256', '4.4', 14.4, 16, 'Amazon')
 ('ist computers', 'ThinkBook 15 Gen 4', 'Intel', 'Windows 11 Pro', 'Core i7', 17, '799.99', 'SSD', '2048', '4.5', 15.6, 32, 'Amazon')
 ('HP', '14-dq0703dx', 'Intel', 'Windows 11 Home', 'Pentium N5000', 0, '449.99', 'SSD', '1000', '4.2', 14.0, 16, 'Amazon')
 ('HP', 'Envy', 'Intel', 'Windows 11 Pro', 'Core i7', 3, '1349.99', 'SSD', '4096', '4', 17.3, 64, 'Amazon')
 ('LG', 'LG Gram 16 I7', 'Intel', 'Windows 11 Pro', 'Core i7', 0, '1049', 'SSD', '2048', '4.4', 16.0, 32, 'Amazon')
 ('Lenovo', 'ThinkPad', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 11, '1099', 'SSD', '8192', '4', 16.0, 40, 'Amazon')
 ('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Core i7', 5, '1029', 'SSD', '512', '4', 15.6, 16, 'Amazon')
 ('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC C', '64', '4.5', 10.1, 2, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 24, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')
 ('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
 ('Microsoft', 'Laptop 4 13 i7/16GB/512GB BLACK', 'Intel', 'Windows 10 Home', 'Intel Core i7', 391, '1290.99', 'SSD', '512', '4.4', 13.5, 16, 'Amazon')
 ('ASUS', 'F1704VAP', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU', 0, '659', 'SSD', '2048', '4.4', 17.3, 16, 'Amazon')
 ('HP', 'Newest HP 14 Inch Laptop', 'Intel', 'Windows 11 Home', 'Celeron N', 66, '259', 'EMMC', '192', '4.4', 14.0, 8, 'Amazon')
 ('Dell', 'Latitude 5540 Laptop', 'Intel', 'Windows 11 Professional', 'Core i7', 0,

'1128', 'SSD', '1000', '4.4', 15.6, 32, 'Amazon')
('Dell', 'Dell Inspiron', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '689.99', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')
('Microsoft', 'Surface Pro', 'Intel', 'Windows 11 Home', '4.2 GHz', 77, '870.99', 'SSD', '256', '4.5', 13.0, 512, 'Amazon')
('HP', 'laptop', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 3, '699', 'SSD', '1048576', '4.4', 15.6, 16, 'Amazon')
('Dell', 'Dell Latitude 5480', 'Intel', 'Windows 10 Pro', 'Core i7 6600U', 78, '209.78', 'SSD', '512', '4.5', 14.0, 16, 'Amazon')
('HP', 'HP Envy x360', 'Intel', 'Windows 11 Pro', '2.3 GHz none', 1, '799.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
('ist computers', 'ThinkPad E16 Gen 1', 'Intel', 'Windows 11 Pro', 'Core i7', 8, '1149.98', 'SSD', '2048', '4.4', 16.0, 40, 'Amazon')
('Lenovo', 'Lenovo 14" Laptop', 'Intel', 'Windows 11', 'Pentium', 227, '169.99', 'SSD', '256', '4.5', 14.0, 4, 'Amazon')
('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '529', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
('acer', 'Chromebook Spin 713', 'Intel', 'Chrome OS', 'Core i3-10110U', 6, '104.99', 'EMMC', '64', '4.4', 13.5, 4, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 2, '729', 'SSD', '4096', '5', 14.0, 32, 'Amazon')
('LG', '14Z90S-G.ADB8U1', 'Intel', 'Windows 11', 'Intel Core Ultra 7', 16, '1289.99', 'SSD', '2048', '4', 14.0, 32, 'Amazon')
('ASUS', 'ASUS Zenbook 14 OLED', 'Intel', 'Windows 11', 'Intel Mobile CPU', 9, '905', 'SSD', '2048', '4.3', 14.0, 16, 'Amazon')
('Toughbook', 'FZ-55 MK1', 'Intel', 'Windows 10 Pro', 'Core i5-8365U', 4, '988.95', 'SSD', '512', '4.3', 14.0, 16, 'Amazon')
('HP', 'TPN-I139', 'Intel', 'Windows 11 Home', 'Core i7 Family', 113, '952.99', 'SSD', '4096', '4.1', 17.3, 64, 'Amazon')
('ASUS', 'F1704ZA', 'Intel', 'Windows 11 Home', 'Core i3 Family', 7, '639', 'SSD', '2048', '4.4', 17.3, 20, 'Amazon')
('MSI', 'MSI GF63 Thin Gaming', 'Intel', 'Windows 10', 'Corei5-10300H', 9, '649', 'SSD', '256', '4.4', 15.6, 8, 'Amazon')
('ASUS', 'ASUS VivoBook 14', 'Intel', 'Windows 11 Home', 'Core i3', 781, '263', 'SSD', '128', '4.6', 14.0, 4, 'Amazon')
('Apple', 'MacBook Pro', 'Apple', 'Mac OS', 'Apple M1', 71, '607.58', 'SSD', '512', '4.4', 13.3, 8, 'Amazon')
('Apple', 'MacBook Pro', 'Intel', 'macOS 10.12 Sierra', 'Core i7', 285, '295.23', 'SSD', '256', '4.3', 15.4, 16, 'Amazon')
('Lenovo', 'Lenovo Flex', 'Intel', 'Chrome OS', 'Celeron', 5, '249.99', 'SSD', '64', '4.5', 11.6, 4, 'Amazon')
('Oemgenuine', 'ThinkPad E16 Gen 1', 'Intel', 'Windows 11 Pro', 'Core i5', 42, '799.95', 'SSD', '250', '4.5', 15.6, 16, 'Amazon')
('Lenovo', 'ThinkPad', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 22, '899', 'SSD', '2048', '4.3', 16.0, 24, 'Amazon')
('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 1, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 1, '1319', 'SSD', '4096', '4', 15.6, 64, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 6, '1249', 'SSD', '4096', '4', 15.6, 32, 'Amazon')
('HP', 'Essential', 'Intel', 'Windows 11 S', 'Celeron', 1, '399.99', 'SSD', '256', '4.3', 15.6, 32, 'Amazon')
('Lenovo', 'V15', 'Intel', 'Windows 11 Pro', 'Core i5', 9, '569', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
('HP', 'HP 14 Inch Laptop', 'Intel', 'Windows 11 Pro', 'Celeron', 391, '305.99', 'EMMC', '128', '4.5', 14.0, 16, 'Amazon')
('Dell', 'Latitude 5511', 'Intel', 'Windows 10 Pro', 'Core i7', 38, '349.12', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')
('HP', 'Pavilion x360 2-in-1', 'Intel', 'Windows 11', 'Intel Core i5', 82, '548.88', 'SSD', '512', '4.4', 14.0, 8, 'Amazon')
('Lenovo', 'Lenovo Thinkpad', 'Intel', 'Windows 10 Pro', 'Core i5', 258, '174.68',

'SSD', '256', '4.5', 14.0, 8, 'Amazon')
('Gateway', '2-in-1 Convertible Notebook', 'Intel', 'Windows 10 S', 'Pentium D', 2
15, '164.99', 'SSD', '64', '4.5', 11.6, 4, 'Amazon')
('Molegar', '2024 Latest Laptop Computer', 'Intel', 'Windows 11', 'Celeron N5095',
5, '499.99', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
('Lenovo', 'Lenovo Yoga 7i AI PC Laptop', 'Intel', 'Windows 11', 'Intel Mobile CP
U', 20, '739', 'SSD', '512', '4.3', 14.0, 16, 'Amazon')
('HP', 'ZBook Power G9', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 2, '1559',
'SSD', '2048', '4', 15.6, 32, 'Amazon')
('Lenovo', 'Legion Slim 5', 'AMD', 'Windows 11', 'Ryzen 5', 0, '1099.99', 'SSD',
'512', '4', 16.0, 16, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMM
C', '64', '4.5', 10.1, 2, 'Amazon')
('TPV', 'AceBook', 'Intel', 'Windows 11 Pro', 'Core i5', 13, '309.99', 'SSD', '51
2', '4.5', 15.6, 16, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 38, '1348', 'SS
D', '2048', '4', 15.6, 64, 'Amazon')
('Microsoft', 'Surface Laptop', 'Intel', 'Windows 11 Home', 'Intel Core i7-11700',
141, '1450', 'SSD', '512', '4.4', 12.3, 16, 'Amazon')
('Lenovo', 'Lenovo ThinkPad T460s', 'Intel', 'Windows 10 Pro', 'Core i5-6300U', 1
3, '250', 'SSD', '256', '4.3', 14.0, 8, 'Amazon')
('Dell', 'Alienware m18 Ryzen Edition Laptop', 'AMD', 'Windows 11 Home', 'AMD Ryze
n 7', 0, '1884.58', 'SSD', '1000', '4', 18.0, 16, 'Amazon')
('acer', 'Acer Chromebook', 'Intel', 'Chrome OS', 'Core i3', 526, '449', 'SSD', '5
12', '4.5', 14.0, 8, 'Amazon')
('acer', 'Chromebook Spin 713', 'Intel', 'Chrome OS', 'Core i3-10110U', 6, '104.9
9', 'EMMC', '64', '4.4', 13.5, 4, 'Amazon')
('Microsoft', 'Surface Laptop Go', 'Intel', 'Windows 10 S', 'Core i5-1035G1', 481,
'299', 'SSD', '256', '4.3', 12.4, 8, 'Amazon')
('HP', 'Chromebook X 360', 'Intel', 'Chrome OS', 'Celeron N', 739, '315.99', 'SS
D', '32', '4.5', 14.0, 4, 'Amazon')
('Dell', 'Latitude 5000', 'Intel', 'Windows 11 Pro', 'Unknown', 0, '1179.77', 'SS
D', '512', '4.4', 14.0, 16, 'Amazon')
('Lenovo', 'ThinkPad T590 Laptop', 'Intel', 'Windows 10 Pro', 'Core i7', 28, '346.
99', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')
('Apple', 'Macbook Pro', 'Apple', 'macOS 10.15 Catalina,macOS 10.14 Mojave', 'Appl
e M1', 6, '1929.99', 'SSD', '2048', '4.4', 16.2, 64, 'Amazon')
('HP', 'TPN-W146_300N1AV', 'Intel', 'Windows 11 Home', 'Core i5 Family', 0, '799',
'SSD', '2048', '4.5', 17.3, 32, 'Amazon')
('Lenovo', 'IdeaPad', 'Intel', 'Windows 11 Home', 'Core i3', 1, '479', 'SSD', '204
8', '4.4', 15.6, 16, 'Amazon')
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('Dell', 'Dell Latitude', 'Intel', 'Windows 10 Pro', 'Core i5', 24, '158', 'SSD',
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('Dell', 'Inspiron 15 3520', 'Intel', 'Windows', 'Intel Core i7', 3, '590', 'SSD',
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('KAIGERR', 'AX16PRO', 'AMD', 'Windows 11', 'AMD Ryzen 7', 0, '1699.99', 'SSD', '5

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'2048', '4', 15.6, 32, 'Amazon')
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('HP', '250 G9', 'Intel', 'Windows 11 Pro', 'Core i5', 2, '460', 'SSD', '512', '4.
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'SSD', '2048', '4.4', 14.0, 16, 'Amazon')
('ANPCOWER', 'R01', 'Intel', 'Windows 11 Pro', 'Celeron', 18, '199.99', 'SSD', '51
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 ('Lenovo', 'ThinkPad X13 Gen 2', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '664.99', 'SSD', '512', '4.4', 13.3, 16, 'Amazon')
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 ('Maxsignage', 'Notebook-NJP1561P', 'Intel', 'Windows 11 Home', 'Celeron N', 2, '899.99', 'SSD', '512', '5', 15.6, 12, 'Amazon')
 ('HP', 'i7 11th gen', 'Intel', 'Windows 11 Home', 'Core i7', 60, '579', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
 ('Dell', 'Dell Inspiron 14 7440 Laptop', 'Intel', 'Windows 11 Home', 'Core i7 Family', 1, '1199.99', 'SSD', '2048', '4.4', 14.0, 32, 'Amazon')
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 ('Lenovo', 'ThinkPad', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 11, '999', 'SSD', '4096', '4.1', 16.0, 40, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 2, '729', 'SSD', '8192', '5', 14.0, 64, 'Amazon')
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 ('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
 ('HP', 'Pavilion', 'Intel', 'Windows 11 Pro', 'Core i7', 15, '886.03', 'SSD', '512', '4.2', 16.0, 16, 'Amazon')
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 ('HP', 'HP 17 laptop', 'AMD', 'Windows 11 S', 'Ryzen 3', 5, '369', 'SSD', '256', '4.3', 17.0, 8, 'Amazon')
 ('Lenovo', 'Lenovo Thinkpad', 'Intel', 'Windows 10 Pro', 'Core i7', 62, '988.77', 'SSD', '2048', '4.3', 15.6, 32, 'Amazon')
 ('SAMSUNG', 'Samsung Galaxy Book 4', 'Intel', 'Windows 11', 'Intel Mobile CPU', 4, '769', 'SSD', '2048', '4.5', 15.6, 16, 'Amazon')
 ('ist computers', 'ThinkPad E14 Gen 5', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 23, '699.98', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')
 ('Dell', 'DELL G15 5530 360Hz i7 RTX4060', 'Intel', 'Windows 11 Pro', 'Core i7', 0, '1199', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')
 ('HP', 'Essential', 'Intel', 'Windows 11', 'Intel Pentium MMX', 0, '459.99', 'SSD', '128', '4.4', 15.6, 32, 'Amazon')
 ('Dell', 'Alienware m18 R2', 'Intel', 'Windows 11 Home', 'Intel Core i9', 0, '3299', 'SSD', '2048', '3.4', 18.0, 32, 'Amazon')
 ('HP', 'Touchscreen', 'Intel', 'Windows 11 Home', 'Core i3', 16, '499.99', 'SSD', '2048', '4.4', 15.6, 40, 'Amazon')
 ('HP', 'Essential', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 4, '1149', 'SSD',

'4096', '4.4', 15.6, 64, 'Amazon')
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('HP', '14dq0760dx', 'Intel', 'Windows 11 Home', 'Celeron N4020', 0, '279', 'EMM C', '128', '4.6', 14.0, 16, 'Amazon')
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('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 19, '849', 'SSD', '512', '4.4', 14.0, 32, 'Amazon')
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('Rumtuk', 'DQ160', 'Intel', 'Windows 11 Pro', 'Others', 36, '422.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
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('Lenovo', 'T460', 'Intel', 'Windows 10', 'Intel Core i5', 650, '189', 'SSD', '2048', '4.4', 14.0, 16, 'Amazon')
('Dell', 'Dell XPS 15 Business Laptop', 'Intel', 'Windows 11 Pro', 'Core i7', 124, '1779.99', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')
('Lenovo', 'ThinkPad', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 11, '799', 'SSD', '512', '4.3', 16.0, 16, 'Amazon')
('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
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('Lenovo', 'IdeaPad 1 15IAU7', 'Intel', 'Windows 11 Home', 'Core i3 Family', 3, '412', 'SSD', '2048', '4.2', 15.6, 16, 'Amazon')
('Rumtuk', 'DQ160', 'Intel', 'Windows 11 Pro', 'Others', 36, '422.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
('Toughbook', 'CF-54 MK3', 'Intel', 'Windows 10 Pro', 'Core i5', 12, '469', 'SSD', '512', '3.7', 14.0, 16, 'Amazon')
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('ASUS', 'Chromebook Flip', 'Intel', 'Chrome OS', 'core_m', 390, '368', 'EMMC', '64', '4.3', 14.0, 8, 'Amazon')
('HP', 'HP Chromebook X360 14b', 'Intel', 'Chrome OS', 'Celeron', 51, '319.98', 'EMMC', '64', '4.5', 14.0, 4, 'Amazon')
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('Dell', 'Dell Latitude', 'Intel', 'Windows 10 Pro', 'Core i5', 24, '158', 'SSD', '512', '4', 14.0, 8, 'Amazon')
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('Lenovo', 'ThinkPad E15 Gen 4', 'Intel', 'Windows 11 Pro', 'Core i7', 11, '939.99', 'SSD', '512', '4.3', 15.6, 16, 'Amazon')
('Lenovo', 'Lenovo V15 G3 ABA', 'Intel', 'Windows 11 Home', 'Core i5 Family', 14, '529', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
('Dell', 'Latitude 9000', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '1131.77', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')
('MTWZMM', 'MTL1732N', 'Intel', 'Windows 11 Home', 'Celeron', 55, '287.79', 'SSD', '512', '4.4', 17.3, 8, 'Amazon')
('Dell', 'Latitude 15 5590', 'Intel', 'Windows 10 Pro', 'Core i5 8250U', 86, '198.99', 'SSD', '256', '4.4', 15.6, 8, 'Amazon')
('ASUS', 'Zenbook', 'Intel', 'Windows 11 Pro', 'Others', 5, '910', 'SSD', '2048', '4.1', 14.0, 16, 'Amazon')
('HP', 'Essential 17', 'Intel', 'Windows 11', 'Core i7', 4, '1099', 'SSD', '4096', '4.4', 17.0, 64, 'Amazon')
('HP', 'HP Envy', 'Intel', 'Windows 11 Home', 'Core i5', 283, '594', 'SSD', '256', '4.4', 15.6, 8, 'Amazon')
('Lenovo', 'T460', 'Intel', 'Windows 10', 'Intel Core i5', 650, '189', 'SSD', '2048', '4.4', 14.0, 16, 'Amazon')
('LG', 'LG Gram 16', 'Intel', 'Windows 11 Home', 'Core i7', 0, '929.99', 'SSD', '2048', '4.3', 16.0, 16, 'Amazon')
('HP', 'A39JBPA#UUU', 'Intel', 'Windows 11 Pro', 'Core i5', 2, '797.97', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
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('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
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('Dell', 'Latitude', 'Intel', 'Windows 10 Pro', 'Core i7-8650U', 60, '272', 'SSD', '512', '4.6', 13.3, 16, 'Amazon')
('Microsoft', 'Surface Pro', 'Intel', 'Windows 10 Home', 'Core i5', 829, '890', 'SSD', '256', '4.4', 12.3, 16, 'Amazon')
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('HP', 'ENVY x360', 'Intel', 'Windows 11', 'Intel Core i7', 1, '1049', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
('Lenovo', 'IdeaPad 1 15AMN7', 'AMD', 'Windows 11 Home', 'Ryzen 3', 14, '295', 'SSD', '256', '4.4', 15.6, 8, 'Amazon')
('HP', 'ProBook 440 G10', 'Intel', 'Windows 11 Pro', 'Core i7', 0, '975.99', 'SSD', '512', '4.3', 14.0, 16, 'Amazon')
('ASUS', 'F1502Z', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 25, '799', 'SSD', '4096', '4.3', 15.6, 40, 'Amazon')
('HP', 'HP OMEN Extreme', 'Intel', 'Windows 11 Pro', 'Core i9', 0, '3299', 'SSD', '2048', '4.2', 16.0, 96, 'Amazon')
('Lenovo', 'Lenovo ThinkBook 14 G7', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 0, '999', 'SSD', '4096', '4.3', 14.0, 64, 'Amazon')
('HP', 'laptop', 'AMD', 'Windows 11', 'AMD R Series', 381, '447', 'SSD', '512', '4.5', 15.6, 8, 'Amazon')

('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 1, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
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('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 1, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')
('Lenovo', '16 G6', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 1, '999', 'SSD', '2048', '4.3', 16.0, 32, 'Amazon')
('ASUS', 'ASUS ROG Zephyrus', 'AMD', 'Windows 11 Home', 'AMD Ryzen 7', 0, '1049.99', 'SSD', '2048', '4.4', 14.0, 16, 'Amazon')
('MSI', 'GE76 Raider', 'Intel', 'Windows 11 Home', 'Core i7 Family', 154, '1599.99', 'SSD', '4096', '4.4', 17.3, 64, 'Amazon')
('Dell', 'Latitude 5000', 'Intel', 'Windows 10 Pro', 'Core i7', 6, '859.77', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')
('HP', 'i5 11th gen', 'Intel', 'Windows 11 Home', 'Intel Core i5-1135G7', 238, '415', 'SSD', '256', '4.5', 15.6, 8, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Core i7', 3, '1058', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
('HP', 'ZBook Power G11', 'Intel', 'Windows 11 Pro', 'Unknown', 0, '1870', 'SSD', '512', '4.4', 16.0, 16, 'Amazon')
('SAMSUNG', 'Samsung Chromebook', 'Intel', 'Chrome OS', 'Celeron N4000', 128, '85.95', 'EMMC', '32', '4.6', 11.6, 4, 'Amazon')
('Lenovo', 'T14 Gen 1', 'Intel', 'Windows 11 Pro', 'Ryzen 5', 6, '424.99', 'SSD', '2048', '4.8', 14.0, 32, 'Amazon')
('ASUS', 'FA707XU-MS94', 'AMD', 'Windows 11 Home', 'Ryzen 9', 68, '1319.79', 'SSD', '1000', '4', 17.3, 16, 'Amazon')
('Lenovo', 'Lenovo Yoga 6 2-in-1', 'AMD', 'Windows 11', 'Ryzen 5', 10, '549', 'SSD', '512', '4.4', 13.3, 8, 'Amazon')
('ASUS', 'ASUS ZenBook Pro Duo 15', 'Intel', 'Windows 11 Pro', 'Core i9', 36, '2949', 'SSD', '2048', '4.5', 15.6, 32, 'Amazon')
('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '575.1', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 6, '1499', 'SSD', '8192', '4', 15.6, 64, 'Amazon')
('HP', 'HP Essential', 'Intel', 'Windows 11 Home', 'Pentium N5000', 0, '379', 'SSD', '2048', '4.5', 14.0, 8, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', '1.8 GHz a13', 1, '119.99', 'EMMC', '64', '4.5', 10.1, 2, 'Amazon')
('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
('Dell', 'Dell Inspiron 15 3520 Laptop', 'Intel', 'Windows 11 Home', 'Core i5', 51, '829.99', 'SSD', '4096', '4.4', 15.6, 64, 'Amazon')
('ASUS', 'Chromebook Vibe C55 Flip', 'Intel', 'Chrome OS', 'Intel Core i5', 79, '439.99', 'SSD', '512', '4.2', 15.6, 16, 'Amazon')
('HP', '14dq0760dx', 'Intel', 'Windows 11 Home', 'Celeron N4020', 0, '279', 'EMMC', '128', '4.6', 14.0, 16, 'Amazon')
('Dell', 'Latitude 15 5590', 'Intel', 'Windows 10 Pro', 'Core i5 8250U', 86, '198.99', 'SSD', '256', '4.4', 15.6, 8, 'Amazon')
('acer', 'acer Chromebook Plus 514 Touchscreen Laptop', 'Intel', 'Chrome OS', 'Celeron', 0, '355', 'SSD', '512', '4.3', 14.0, 8, 'Amazon')
('Lenovo', 'IdeaPad 3 15ITL6', 'Intel', 'Windows 11 Home', 'Core i3', 28, '429.98', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')
('acer', 'Chromebook Spin', 'Intel', 'Chrome OS', 'Intel Core i5', 10, '549.9', 'SSD', '256', '4.4', 14.0, 8, 'Amazon')
('HP', 'ZBook Power G10 A', 'AMD', 'Windows 11 Pro', 'AMD R Series', 0, '1425', 'SSD', '4096', '4.4', 15.6, 64, 'Amazon')
('HP', 'EliteBook 845 G8', 'AMD', 'Windows 10 Pro', 'Ryzen 5', 4, '399.99', 'SSD', '256', '4.3', 14.0, 16, 'Amazon')
('ist computers', 'm16 R2', 'Intel', 'Windows 11 Home', 'Core i7 Family', 5, '1949.99', 'SSD', '4096', '4.4', 16.0, 64, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 24, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')
('Oemgenuine', 'ThinkPad E16 Gen 1', 'Intel', 'Windows 11 Pro', 'Core i5', 42, '799.95', 'SSD', '250', '4.5', 15.6, 16, 'Amazon')

('HP', '14dq0760dx', 'Intel', 'Windows 11 Home', 'Celeron N4020', 0, '279', 'EMM C', '128', '4.6', 14.0, 16, 'Amazon')

('hp', 'HP EliteBook', 'Intel', 'Windows 10', 'Core i5', 15, '129.99', 'SSD', '512', '4.5', 14.0, 8, 'Amazon')

('LG', 'LG Gram 16', 'Intel', 'Windows 11 Home', 'Core i7', 0, '929.99', 'SSD', '2048', '4.3', 16.0, 16, 'Amazon')

('Lenovo', 'ThinkPad X1 Carbon Gen 12', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 0, '1419.99', 'SSD', '512', '4', 14.0, 16, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 19, '849', 'SSD', '512', '4.4', 14.0, 32, 'Amazon')

('Lenovo', 'Lenovo Legion Pro 7i Laptop', 'Intel', 'Windows 11 Pro', 'Intel Core i9', 109, '3259.99', 'SSD', '8192', '4.2', 16.0, 64, 'Amazon')

('Lenovo', 'Yoga 9i', 'Intel', 'Windows 11 Home', 'Core i7', 0, '1349.99', 'SSD', '2048', '4.3', 14.0, 16, 'Amazon')

('HP', 'HP 15', 'AMD', 'Windows 11', 'Ryzen 3 3250U', 0, '499', 'SSD', '512', '4.4', 15.0, 16, 'Amazon')

('Lenovo', '21JT', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 17, '799', 'SSD', '2048', '4.5', 16.0, 40, 'Amazon')

('ASUS', 'Vivobook 15', 'Intel', 'Windows 11 Pro', 'Intel Core i9', 0, '1329', 'SSD', '4096', '4', 15.6, 48, 'Amazon')

('Lenovo', '2023 Lenovo IdeaPad Flex 3i Chromebook', 'Intel', 'Chrome OS', 'Pentium Other', 27, '349.13', 'EMMC', '64', '4.5', 15.6, 8, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 0, '749', 'SSD', '4096', '4.3', 14.0, 32, 'Amazon')

('Lenovo', 'ThinkPad', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 22, '899', 'SSD', '2048', '4.3', 16.0, 24, 'Amazon')

('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 1, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 1, '1319', 'SSD', '4096', '4', 15.6, 64, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 6, '1249', 'SSD', '4096', '4', 15.6, 32, 'Amazon')

('Lenovo', 'Lenovo Flex', 'Intel', 'Chrome OS', 'Celeron', 5, '249.99', 'SSD', '64', '4.5', 11.6, 4, 'Amazon')

('ASUS', 'ASUS Vivobook Go 15', 'Intel', 'Windows 11 S', 'Celeron', 271, '169.99', 'EMMC', '64', '4.5', 15.6, 4, 'Amazon')

('Dell', 'Dell Latitude 5400', 'Intel', 'Windows 10 Pro', 'Core i7-8665U', 0, '279', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')

('Dell', 'Latitude 5320 Laptop', 'Intel', 'Windows 10 Pro', 'Intel Core i7', 10, '346.99', 'SSD', '512', '4.5', 13.3, 32, 'Amazon')

('Apple', 'MacBook Pro', 'Apple', 'Mac OS', 'ARM 7100', 7, '1549.99', 'SSD', '512', '4.4', 14.2, 32, 'Amazon')

('Lenovo', 'IdeaPad Gaming 3', 'AMD', 'Windows 11', 'Ryzen 5 5500U', 3, '759.99', 'SSD', '2048', '4.5', 15.6, 32, 'Amazon')

('MSI', 'Cyborg 15 A12VF', 'Intel', 'Windows 11 Home', 'Core i7 Family', 101, '1075', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')

('HP', '17-cn2083dx', 'Intel', 'Windows 11 Pro', 'Intel Core i3', 15, '618.75', 'SSD', '4096', '4.4', 17.3, 32, 'Amazon')

('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Core i5-6267U', 121, '379.99', 'SSD', '512', '4.5', 13.0, 16, 'Amazon')

('HP', 'HP Pavilion Plus 14 inch Laptop PC', 'Intel', 'Windows 11 Home', 'Core i7', 61, '1096.98', 'SSD', '2048', '4.4', 14.0, 16, 'Amazon')

('Lenovo', 'IdeaPad 1 15ALC7', 'AMD', 'Windows 11 Home', 'Ryzen 5', 5, '450', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')

('HP', 'HP Envy', 'Intel', 'Windows 11 Home', 'Core i3', 42, '299.99', 'SSD', '512', '4.4', 17.3, 8, 'Amazon')

('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A13', 1, '119.99', 'EMMC', '64', '4.4', 10.1, 2, 'Amazon')

('TPV', 'AceBook', 'Intel', 'Windows 11 Pro', 'Core i5', 13, '309.99', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 38, '1348', 'SSD', '2048', '4', 15.6, 64, 'Amazon')

('HP', '17-cn0615ds', 'Intel', 'Windows 11 S', 'Celeron N4020', 137, '292.89', 'SSD', '128', '4.6', 17.3, 4, 'Amazon')
('Molegar', 'Y156N', 'AMD', 'Windows 11 Pro', 'AMD Ryzen 7 5700U', 7, '599.99', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
('jumper', 'EZbook S5', 'Intel', 'Windows 11', 'Celeron', 12, '409.99', 'SSD', '512', '4.5', 14.0, 12, 'Amazon')
('Apple', '2022 Apple MacBook Air M2, 24GB RAM, 1TB Storage - Midnight (Z160000B7)', 'Apple', 'macOS 12 Monterey', 'Unknown', 2, '1159.99', 'SSD', '2048', '4.4', 13.6, 24, 'Amazon')
('HP', 'HP Laptop', 'Intel', 'Windows 11 Pro', 'Intel Core i5-1135G7', 10, '506', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Intel Core i5', 1, '449', 'SSD', '256', '3', 13.3, 16, 'Amazon')
('Lenovo', 'N42-20', 'Intel', 'Chrome OS', 'Celeron', 75, '82', 'SSD', '32', '4.4', 14.0, 4, 'Amazon')
('Lenovo', '83DL', 'Intel', 'Windows 11 Pro', 'Others', 0, '789.99', 'SSD', '512', '4.3', 16.0, 16, 'Amazon')
('Lenovo', 'Lenovo', 'Intel', 'Windows 11 Home', 'Core i7', 10, '799.99', 'SSD', '2048', '4.5', 14.0, 16, 'Amazon')
('Lenovo', '15ITL6', 'Intel', 'Windows 11 Pro', 'Core i5 Family', 23, '572.69', 'SSD', '2048', '4.4', 15.6, 20, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 10 Pro', 'Core i7-8650U', 60, '272', 'SSD', '512', '4.6', 13.3, 16, 'Amazon')
('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '579.99', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')
('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 1, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A13', 1, '119.99', 'EMMC', '64', '4.4', 10.1, 2, 'Amazon')
('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '575.1', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
('HP', 'Elitebook', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 5, '1079', 'SSD', '2048', '4', 16.0, 32, 'Amazon')
('ASUS', 'Vivobook S 16 Flip', 'Intel', 'Windows 11 Pro', 'Core i9', 0, '1099.99', 'SSD', '4096', '4', 16.0, 40, 'Amazon')
('ACEMAGIC', 'AX15', 'Intel', 'Windows 11', 'Intel Mobile CPU', 4, '899.99', 'SSD', '512', '4.3', 15.6, 16, 'Amazon')
('Lenovo', 'Lenovo IdeaPad Flex 5i Chromebook Plus', 'Intel', 'Chrome OS', 'Core i3', 104, '483.99', 'EMMC', '128', '4.4', 14.0, 8, 'Amazon')
('AOC', 'AX15', 'Intel', 'Windows 11', 'Intel Mobile CPU', 14, '359.99', 'SSD', '512', '4.3', 15.6, 16, 'Amazon')
('Lenovo', 'N42-20', 'Intel', 'Chrome OS', 'Celeron', 75, '82', 'SSD', '32', '4.4', 14.0, 4, 'Amazon')
('acer', 'Acer Nitro V 16 165Hz R7 RTX4060', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 1, '1249', 'SSD', '4096', '4', 16.0, 32, 'Amazon')
('Dell', 'Inspiron 15', 'Intel', 'Windows 11 Pro', 'Intel Core i3', 3, '499', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
('acer', '2023 Newest Acer X360 Chromebook Spin', 'MediaTek', 'Chrome OS', 'MediaTek MT8183', 26, '249', 'SSD', '64', '4.5', 11.6, 4, 'Amazon')
('Apple', 'MacBook Air', 'Apple', 'macOS Ventura', 'Apple M2', 2, '1039.49', 'SSD', '2048', '4.4', 13.6, 16, 'Amazon')
('Dell', 'Dell Latitude', 'Intel', 'Windows 10 Pro', 'Unknown', 21, '389.99', 'SSD', '256', '4.3', 14.0, 16, 'Amazon')
('HP', 'HP Laptop', 'Intel', 'Windows 11 Pro', 'Pentium', 137, '659.99', 'SSD', '2048', '4.4', 17.3, 32, 'Amazon')
('HP', 'ProBook 450 G10', 'Intel', 'Windows 11 Pro', 'Core i7', 0, '949.95', 'SSD', '2048', '4.3', 15.6, 32, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 0, '749', 'SSD', '4096', '4.3', 14.0, 32, 'Amazon')
('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Core i7', 5, '1029', 'SSD', '512', '4.6', 14.0, 16, 'Amazon')

'2', '4', 15.6, 16, 'Amazon')
 ('HP', 'HP', 'Intel', 'Windows 11', 'Celeron', 352, '319.99', 'SSD', '64', '4.5', 14.0, 16, 'Amazon')
 ('Toughbook', 'CF-54 MK3', 'Intel', 'Windows 10 Pro', 'Core i5', 12, '469', 'SSD', '512', '3.7', 14.0, 16, 'Amazon')
 ('Dell', 'Dell Latitude', 'Intel', 'Windows 10 Pro', 'Core i7-8650U', 442, '226.73', 'SSD', '512', '4.5', 13.3, 16, 'Amazon')
 ('Lenovo', 'IdeaPad 5 2-in-1 14AHP9', 'AMD', 'Windows 11 Home', 'Ryzen 7', 0, '899', 'SSD', '2048', '4.3', 14.0, 16, 'Amazon')
 ('ASUS', 'TP3402Z', 'Intel', 'Windows 11 Pro', 'Intel Core i9', 0, '1299', 'SSD', '8192', '4', 16.0, 40, 'Amazon')
 ('Lenovo', 'Lenovo ThinkPad T14 Gen 4', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 0, '1159.77', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')
 ('ASUS', 'Laptop17', 'AMD', 'Windows 10 Home', 'Ryzen 9', 201, '1449.99', 'SSD', '2048', '4.4', 14.0, 16, 'Amazon')
 ('Lenovo', 'ThinkPad X1 Carbon Gen 10', 'Intel', 'Windows 11 Pro', 'Core i5', 1, '899.99', 'SSD', '512', '4.3', 14.0, 16, 'Amazon')
 ('Microsoft', 'Surface Laptop 5', 'Intel', 'Windows 11 Pro', 'Core i7', 2, '1447', 'SSD', '256', '4.4', 15.0, 16, 'Amazon')
 ('ASUS', 'ASUS L210', 'Intel', 'Windows 10 S', 'Celeron N4020', 436, '195', 'EMM C', '64', '4.4', 11.6, 4, 'Amazon')
 ('Lenovo', 'ThinkPad', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 35, '254.79', 'SSD', '500', '4.6', 14.0, 16, 'Amazon')
 ('Lenovo', 'IdeaPad 1 15ALC7', 'AMD', 'Windows 11 Home', 'Ryzen 5', 5, '450', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 1, '729', 'SSD', '4096', '1', 14.0, 64, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 1, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')
 ('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
 ('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A13', 1, '119.99', 'EMMC', '64', '4.4', 10.1, 2, 'Amazon')
 ('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
 ('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
 ('ist computers', 'Lenovo ThinkBook 15 G4 IAP', 'Intel', 'Windows 11 Pro', 'Core i7', 48, '899.98', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
 ('Lenovo', 'Ideapad 1 15" - 82R400EMUS', 'AMD', 'Windows 11 Pro', 'AMD R Series', 0, '599', 'SSD', '4096', '4.4', 15.6, 8, 'Amazon')
 ('Microsoft', 'Surface Laptop', 'Intel', 'Windows 11 Home', 'Intel Core i7-11700', 73, '1810.99', 'SSD', '4096', '4.4', 14.4, 32, 'Amazon')
 ('Dell', 'Dell Inspiron', 'Intel', 'Windows 10 Pro', 'Core i5', 26, '550', 'HDD', '2048', '4.4', 15.6, 16, 'Amazon')
 ('Dell', 'Dell Latitude', 'Intel', 'Windows 10 Pro', 'Core i5', 14, '180', 'SSD', '256', '4.4', 14.0, 8, 'Amazon')
 ('ASUS', 'Chromebook Flip', 'Intel', 'Chrome OS', 'core_m', 390, '368', 'EMMC', '64', '4.3', 14.0, 8, 'Amazon')
 ('acer', 'PH16-71-74UU', 'Intel', 'Windows 11 Home', 'Intel Core i7', 133, '1299', 'SSD', '2048', '4', 16.0, 16, 'Amazon')
 ('HP', '17-cn2083dx', 'Intel', 'Windows 11 Pro', 'Intel Core i3', 15, '618.75', 'SSD', '4096', '4.4', 17.3, 32, 'Amazon')
 ('ASUS', 'Strix G18', 'Intel', 'Windows 11 Pro', 'Core i9', 3, '2569.99', 'SSD', '8192', '4', 18.0, 64, 'Amazon')
 ('Dell', '7400', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 18, '309', 'SSD', '512', '4.5', 14.0, 32, 'Amazon')
 ('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 1, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 1, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')
 ('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '499.99', 'SSD', '512', '4.4', 15.6, 8, 'Amazon')
 ('Dell', 'Latitude 7420', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '649.99', 'SSD', '512', '4.4', 15.6, 8, 'Amazon')

D', '256', '4.4', 14.0, 16, 'Amazon')
('Lenovo', 'IdeaPad 1 14IGL7', 'Intel', 'Windows 11 Home', 'Celeron N', 10, '165.28', 'SSD', '128', '4.5', 14.0, 4, 'Amazon')
('HP', 'HP Laptop', 'Intel', 'Windows 11 Home', 'Core i5', 28, '663.29', 'SSD', '2048', '4.4', 17.3, 32, 'Amazon')
('Dell', 'Dell Latitude 7490 Laptop', 'Intel', 'Windows 11 Pro', 'Core i7-8650U', 58, '383.15', 'SSD', '512', '4.3', 14.0, 32, 'Amazon')
('HP', 'TPN-Q245', 'Intel', 'Windows 11 Home', 'Core i7 Family', 0, '889.99', 'SSD', '2048', None, 15.6, 32, 'Amazon')
('HP', 'TPN-I139_767L0AV', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 6, '752.94', 'SSD', '2048', '4.5', 17.3, 32, 'Amazon')
('HP', 'HP Laptop', 'Intel', 'Windows 11 Pro', 'Intel Core i5-1135G7', 10, '506', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
('Lenovo', 'Lenovo Ideapad', 'Intel', 'Windows 11 Home', 'Intel Core i5-1135G7', 124, '433', 'SSD', '256', '4.5', 15.6, 12, 'Amazon')
('Dell', 'Dell Mobile Workstation 7770', 'Intel', 'Windows 11 Pro', 'Core i7', 1, '2099.99', 'SSD', '8192', '4', 17.3, 64, 'Amazon')
('HP', 'HP Laptop 15-dy2021nr', 'Intel', 'Windows 10 Home', 'Core i5', 396, '404.99', 'SSD', '256', '4.5', 15.6, 8, 'Amazon')
('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '575.1', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 6, '1499', 'SSD', '8192', '4', 15.6, 64, 'Amazon')
('HP', 'HP Essential', 'Intel', 'Windows 11 Home', 'Pentium N5000', 0, '379', 'SSD', '2048', '4.5', 14.0, 8, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A13', 1, '119.99', 'EMMC', '64', '4.4', 10.1, 2, 'Amazon')
('HP', 'Elitebook', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 5, '1139', 'SSD', '4096', '4', 16.0, 32, 'Amazon')
('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '529', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
('Apple', 'MacBook pro', 'Intel', 'Os Catalina', 'Core i7', 2, '629', 'SSD', '2048', '5', 16.0, 32, 'Amazon')
('NBVCXSD', 'MTL1732', 'Intel', 'Windows 11 Pro', 'Celeron N', 7, '298.99', 'SSD', '256', '4.4', 17.3, 8, 'Amazon')
('Dell', 'Dell G15 5530 15 165Hz i9 RTX4060', 'Intel', 'Windows 11 Pro', 'Core i9', 0, '1348.99', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')
('Dell', 'Latitude Rugged 5420 Laptop', 'Intel', 'Windows 10 Pro', 'Core i5', 6, '579.99', 'SSD', '512', '4.4', 14.0, 32, 'Amazon')
('Dell', 'Latitude 7400 Laptop', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 13, '188.89', 'SSD', '256', '4.5', 14.0, 16, 'Amazon')
('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Core i7', 12, '670', 'SSD', '512', '4.4', 13.0, 32, 'Amazon')
('Apple', 'MacBook Pro', 'Intel', 'macOS 11 Big Sur', 'Intel Core i9', 9, '601.79', 'SSD', '512', '4.5', 16.0, 32, 'Amazon')
('ECOHERO', 'Gamma', 'Intel', 'Windows 11 Pro', 'Celeron', 29, '218', 'SSD', '256', '4.5', 14.1, 8, 'Amazon')
('acer', '2023 Flagship Acer Chromebook', 'Intel', 'Chrome OS', 'Celeron', 36, '229', 'EMMC', '64', '4.5', 15.6, 4, 'Amazon')
('Lenovo', 'ThinkPad E16 Gen 1', 'Intel', 'Windows 11 Pro', 'Core i7', 2, '1149.99', 'SSD', '2048', '4', 16.0, 40, 'Amazon')
('acer', 'Aspire 5', 'Intel', 'Windows 11 Home', 'Core i3', 920, '325', 'SSD', '128', '4.5', 15.6, 4, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 2, '729', 'SSD', '2048', '5', 14.0, 16, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 19, '949', 'SSD', '4096', '4.3', 14.0, 32, 'Amazon')
('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
('ASUS', 'B9403CVA-XVE77', 'Intel', 'Windows 11 Pro', 'Core i7', 0, '1751.6', 'SSD', '4096', '4.4', 14.0, 32, 'Amazon')
('Rumtuk', 'HL-K710', 'Intel', 'Windows 11 Pro', 'Others', 23, '399.99', 'SSD', '512', '4.5', 16.0, 12, 'Amazon')
('ASUS', 'ASUS Chromebook Flip CX3', 'Intel', 'Chrome OS', 'Intel Core i7', 35, '7

89.99', 'SSD', '512', '4.5', 14.0, 16, 'Amazon')
 ('Dell', 'Dell Latitude 5400', 'Intel', 'Windows 10 Pro', 'Core i7-8665U', 0, '279', 'SSD', '512', '4.4', 14.0, 16, 'Amazon')
 ('EXCaliberPC', 'ASUS ROG Zephyrus G16 GA605', 'AMD', 'Windows 11 Pro', 'Ryzen 9', 0, '2279', 'SSD', '2048', None, 16.0, 32, 'Amazon')
 ('MSI', 'Raider GE68HX 14VIG-285US', 'Intel', 'Windows 11 Home', 'Intel Core i9', 4, '3749', 'SSD', '4096', '3.4', 16.0, 64, 'Amazon')
 ('HP', '17-cn0615ds', 'Intel', 'Windows 11 S', 'Celeron N4020', 137, '292.89', 'SSD', '128', '4.6', 17.3, 4, 'Amazon')
 ('Apple', 'MacBook Pro', 'Intel', 'Mac OS', '68000', 41, '366.12', 'SSD', '256', '4.5', 13.3, 16, 'Amazon')
 ('HP', 'HP Stream Laptop', 'Intel', 'Windows 11 Home', 'Celeron', 161, '167.99', 'EMMC', '64', '4.5', 14.0, 16, 'Amazon')
 ('ASUS', 'ASUS Vivobook 16X', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 3, '799', 'SSD', '2048', '4.4', 15.6, 40, 'Amazon')
 ('RIANIFEL', 'F15', 'Intel', 'Windows 11 Pro', 'Intel Core i3', 5, '299', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 24, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 0, '699', 'SSD', '2048', '4.4', 14.0, 32, 'Amazon')
 ('Lenovo', 'ThinkPad', 'AMD', 'Windows 11 Pro', 'Ryzen 5', 11, '799', 'SSD', '512', '4.3', 16.0, 16, 'Amazon')
 ('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A13', 1, '119.99', 'EMMC', '64', '4.4', 10.1, 2, 'Amazon')
 ('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
 ('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')
 ('Apple', '2022 Apple MacBook Air M2, 24GB RAM, 1TB Storage - Midnight (Z160000B7)', 'Apple', 'macOS 12 Monterey', 'Unknown', 2, '1159.99', 'SSD', '2048', '4.4', 13.6, 24, 'Amazon')
 ('Microsoft', '1Y9-00001', 'Intel', 'Windows 10 Pro', '2.8 GHz', 11, '547', 'SSD', '256', '4.5', 12.3, 16, 'Amazon')
 ('Lenovo', 'Lenovo IdeaPad 1i', 'Intel', 'Windows 11 S', 'Core i5-1235U', 0, '379.99', 'SSD', '512', '4.3', 15.6, 8, 'Amazon')
 ('MSI', 'Raider GE76 12UE', 'Intel', 'Windows 11 Pro', 'Intel Core i9', 0, '2369', 'SSD', '4096', '4', 17.3, 64, 'Amazon')
 ('Lenovo', 'Lenovo V15 G2 IJL', 'Intel', 'Windows 11 Pro', 'Celeron N', 27, '319', 'SSD', '256', '4.5', 15.6, 8, 'Amazon')
 ('Lenovo', 'Lenovo Ideapad', 'Intel', 'Windows 11 S', 'Core i5', 0, '509.99', 'SSD', '512', '4.4', 14.0, 8, 'Amazon')
 ('BHW', 'WH-BHW-160BP-Silver', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 6, '459.99', 'SSD', '2048', '4.4', 16.1, 32, 'Amazon')
 ('Apple', 'MacBookPro11,5', 'Intel', 'MacOS v10.14 Mojave,macOS 10.14 Mojave', 'Core i7-4870HQ', 308, '189', 'SSD', '512', '4.3', 15.4, 16, 'Amazon')
 ('Toughbook', 'FZ-55 MK2', 'Intel', 'Windows 10 Pro', 'Intel Core i5 1145G7', 4, '2329.99', 'SSD', '512', '4.3', 14.0, 16, 'Amazon')
 ('Lenovo', 'G3IAP', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 0, '699', 'SSD', '2048', '4.4', 15.6, 40, 'Amazon')
 ('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 1, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')
 ('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 1, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')
 ('acer', 'Aspire', 'Intel', 'Windows 11 Pro', 'Core i5', 0, '499.99', 'SSD', '512', '4.4', 15.6, 8, 'Amazon')
 ('HP', '1', 'Intel', 'Windows 11 Home', 'Pentium', 186, '399', 'SSD', '256', '4.3', 15.6, 8, 'Amazon')
 ('Lenovo', 'T480', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 48, '150', 'SSD', '256', '4.5', 14.0, 16, 'Amazon')
 ('LG', 'LG Gram 17 Ultra 7', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU', 2, '1099', 'SSD', '2048', '4', 17.0, 16, 'Amazon')
 ('Dell', 'Inspiron 3530', 'Intel', 'Windows 11', 'Intel Core i7', 0, '1199', 'SSD', '4096', '4.4', 15.6, 64, 'Amazon')

('HP', '15-DY5033DX', 'Intel', 'Windows 11 Pro', 'Intel Core i3', 0, '399', 'SSD', '256', '4.5', 15.6, 8, 'Amazon')
('Dell', 'Dell Inspiron 14 7440 2-in-1', 'Intel', 'Windows 11', 'Intel Mobile CPU', 0, '1099', 'SSD', '2048', '4.4', 14.0, 64, 'Amazon')
('HP', '15a-na2', 'Intel', 'Chrome OS', 'Celeron N', 20, '259.99', 'SSD', '64', '4.6', 15.6, 8, 'Amazon')
('HP', 'Essential', 'Intel', 'Windows 11 Pro', 'AMD Athlon 4', 7, '499', 'SSD', '512', '4.4', 15.6, 32, 'Amazon')
('Dell', 'Dell Latitude 5420', 'Intel', 'Windows 11 Pro', 'Core i5 Family', 3, '799.99', 'SSD', '2048', '4.5', 14.0, 16, 'Amazon')
('Apple', 'MacBook Pro', 'Intel', 'macOS 10.15 Catalina', 'Core i7', 36, '534.69', 'SSD', '512', '4.4', 13.0, 32, 'Amazon')
('BiTECOOL', 'HaloBook Plus', 'Intel', 'Windows 11 Pro', 'Celeron', 10, '249', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')
('HP', 'TPN-Q287', 'AMD', 'Windows 11 Pro', 'Ryzen 7', 21, '575.1', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 6, '1499', 'SSD', '8192', '4', 15.6, 64, 'Amazon')
('HP', 'HP Essential', 'Intel', 'Windows 11 Home', 'Pentium N5000', 0, '379', 'SSD', '2048', '4.5', 14.0, 8, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 24, '889', 'SSD', '2048', '4.3', 15.6, 32, 'Amazon')
('Lenovo', 'ThinkPad', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 11, '1099', 'SSD', '2048', '4', 16.0, 40, 'Amazon')
('HP', 'TPN-C164', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU', 0, '1634.21', 'SSD', '8192', '4', 17.3, 64, 'Amazon')
('Dell', 'Dell Latitude', 'Intel', 'Windows 11 Pro', 'Core i5 8250U', 6, '228', 'SSD', '256', '4.5', 14.1, 8, 'Amazon')
('Apple', 'MacBook Pro', 'Apple', 'macOS Sonoma', '1', 7, '2099', 'SSD', '512', '4.3', 16.2, 36, 'Amazon')
('ECOHERO', 'Lambda', 'Intel', 'Windows 11 Pro', 'Core i3-5005U', 32, '349', 'SSD', '512', '4.2', 15.6, 16, 'Amazon')
('ASUS', 'UM3504D', 'AMD', 'Windows 11 Home', 'Ryzen 7', 0, '849', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')
('Apple', 'MacBook Air', 'Intel', 'macOS 11 Big Sur', 'Intel Core i5', 7, '449', 'SSD', '256', '4.5', 13.0, 16, 'Amazon')
('Dell', 'Precision 3581 Workstation', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 0, '1149', 'SSD', '2048', '4.4', 15.6, 32, 'Amazon')
('Lenovo', 'IdeaPad 3 15ITL6', 'Intel', 'Windows 11 Home', 'Core i5 Family', 56, '488', 'SSD', '512', '4.4', 15.6, 20, 'Amazon')
('HP', 'HP 2024 Essential 17 Laptop', 'Intel', 'Windows 11 Pro', 'Core i3', 19, '551.61', 'SSD', '2048', '4.4', 17.3, 32, 'Amazon')
('HP', 'Touchscreen', 'Intel', 'Windows 11 Home', 'Core i3', 16, '699.99', 'SSD', '2048', '4.4', 15.6, 40, 'Amazon')
('Dell', 'I5640jkxew', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 0, '1079', 'SSD', '2048', '4', 16.0, 32, 'Amazon')
('HP', 'HP 13.8" Touch Laptop', 'Intel', 'Windows 11', 'Celeron N', 14, '259.99', 'EMMC', '64', '4.6', 13.8, 4, 'Amazon')
('Lenovo', 'ThinkBook 16 G4+ IAP', 'Intel', 'Windows 11 Pro', 'Intel Mobile CPU', 1, '1159', 'SSD', '4096', '4.4', 16.0, 64, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 1, '849', 'SSD', '2048', '4.3', 15.6, 16, 'Amazon')
('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 1, '1319', 'SSD', '4096', '4', 15.6, 64, 'Amazon')
('Lenovo', 'Lenovo T490s', 'Intel', 'Windows 10 Pro', 'Intel Core i5', 12, '222.82', 'SSD', '512', '4.5', 14.0, 16, 'Amazon')
('HP', 'TPN-Q278_599J4AV', 'Intel', 'Windows 11 Home', 'Core i5 Family', 0, '799', 'SSD', '2048', '4.3', 15.6, 32, 'Amazon')
('HP', 'HP', 'Intel', 'Chrome OS', 'Celeron N', 20, '229', 'EMMC', '64', '4.5', 14.0, 4, 'Amazon')
('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Core i5-6267U', 121, '379.99', 'SSD', '512', '4.5', 13.0, 16, 'Amazon')
('Dell', 'Dell Latitude 7480', 'Intel', 'Windows 10 Pro', 'Core i5', 514, '186', 'SSD', '256', '4.4', 14.0, 16, 'Amazon')

('ASUS', 'X515E', 'Intel', 'Windows 11 Home', 'Core i5 Family', 114, '609', 'SSD', '4096', '4.4', 15.6, 36, 'Amazon')

('HP', 'Essential 17', 'Intel', 'Windows 11', 'Core i7', 4, '1099', 'SSD', '4096', '4.4', 17.0, 64, 'Amazon')

('Lenovo', 'ThinkBook 15 G4 IAP', 'Intel', 'Windows 11 Pro', 'Core i7 Family', 1, '1029', 'SSD', '4096', '4.4', 15.6, 40, 'Amazon')

('HP', 'HP 14" Chromebook', 'Intel', 'Chrome OS', 'Pentium', 134, '159.99', 'SSD', '128', '4.5', 14.0, 4, 'Amazon')

('Dell', 'Dell Inspiron', 'Intel', 'Windows 10 Pro', 'Core i5-1035G1', 56, '457', 'SSD', '2048', '4.4', 15.6, 16, 'Amazon')

('HP', 'TPN-I139_767K9AV', 'Intel', 'Windows 11 Home', 'Core i5 Family', 5, '795.63', 'SSD', '2048', '4.3', 17.3, 32, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i5', 6, '1249', 'SSD', '4096', '4', 15.6, 32, 'Amazon')

('Dell', 'Latitude', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 38, '1407', 'SSD', '4096', '4', 15.6, 64, 'Amazon')

('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A13', 1, '119.99', 'EMMC', '64', '4.4', 10.1, 2, 'Amazon')

('SAIWAN', 'A1407N', 'Intel', 'Windows 10', 'Celeron N3350', 0, '149', 'EMMC', '64', '4.6', 14.1, 6, 'Amazon')

('Zuleisy', 'VB16', 'Intel', 'Windows 11', 'Intel Mobile CPU', 2, '399.99', 'SSD', '2048', '4.5', 16.0, 16, 'Amazon')

('Microsoft', 'Surface Laptop', 'Intel', 'Windows 11 Home', 'Intel Core i7', 26, '749', 'SSD', '512', '4.5', 14.4, 16, 'Amazon')

('Lenovo', 'ThinkPad T15', 'Intel', 'Windows 11 Pro', 'Core i7', 4, '345.99', 'SSD', '512', '4.2', 15.6, 16, 'Amazon')

('Lenovo', 'V15 G3 ABA', 'Intel', 'Windows 11 Home', 'Core i5 Family', 0, '599', 'SSD', '2048', '4.4', 15.6, 40, 'Amazon')

('Lenovo', 'V15', 'AMD', 'Windows 11 Pro', 'Ryzen 3', 56, '399', 'SSD', '2048', '4.5', 15.6, 16, 'Amazon')

('acer', '2023 Flagship Acer Spin Chromebook', 'MediaTek', 'Chrome OS', 'MediaTek MT8183', 31, '249', 'EMMC', '64', '4.5', 11.6, 4, 'Amazon')

('Dell', 'Latitude 5540 Laptop', 'Intel', 'Windows 11 Professional', 'Intel Core i7', 0, '1928.59', 'SSD', '512', '4.4', 15.6, 16, 'Amazon')

('Apple', 'MacBook Air', 'Apple', 'Mac OS', 'Apple M2', 0, '849', 'SSD', '256', '4', 13.6, 8, 'Amazon')

('Apple', 'MacBook Pro', 'Apple', 'Mac OS', 'Apple M2 Pro', 0, '1869.99', 'SSD', '512', '4.4', 16.2, 16, 'Amazon')

('Apple', 'MacBook Pro', 'Apple', 'Mac OS', 'Apple M2 Pro', 0, '1649.95', 'SSD', '2048', '4.4', 14.2, 16, 'Amazon')

('Naclud', 'Naclud-X15', 'Intel', 'Windows 11', 'Celeron', 44, '259.99', 'SSD', '512', '4.6', 15.6, 12, 'Amazon')

('Dell', 'Inspiron 3000', 'Intel', 'Windows 11 Pro', 'Intel Core i5-1155G7', 30, '449.99', 'SSD', '512', '4.2', 15.6, 16, 'Amazon')

('Lenovo', 'IdeaPad Flex 5 14ABR8', 'AMD', 'Windows 11 Pro', 'AMD Ryzen 7', 20, '429.99', 'SSD', '512', '4.2', 14.0, 16, 'Amazon')

('Apple', 'MacBook Air', 'Apple', 'Mac OS', 'M2', 0, '808.84', 'SSD', '256', '4.7', 15.3, 8, 'Amazon')

('Naclud', 'Naclud-X15', 'Intel', '11 HOME', 'Celeron', 2, '849.99', 'SSD', '512', '4.4', 15.6, 12, 'Amazon')

('Dell', 'Dell Latitude', 'Intel', 'Windows 10', 'i5-8350U', 326, '188.59', 'SSD', '256', '4.4', 13.3, 8, 'Amazon')

('Dell', 'Dell Latitude', 'Intel', 'Windows 10', 'i5-8350U', 326, '188.59', 'SSD', '256', '4.4', 13.3, 8, 'Amazon')

('HP', 'HP Chromebook', 'Intel', 'Chrome OS', 'Celeron N4020', 258, '298.98', 'SSD', '64', '4.6', 14.0, 4, 'Amazon')

('Naclud', 'Naclud-M17PRO', 'Intel', 'Windows 11', 'Celeron', 2, '499.99', 'SSD', '512', '5', 17.3, 8, 'Amazon')

('HP', 'HP Chromebook', 'Intel', 'Chrome OS', 'Celeron N4020', 258, '298.98', 'SSD', '64', '4.6', 14.0, 4, 'Amazon')

('Lenovo', 'Thinkpad T490', 'Intel', 'Windows 10 Pro', '8550u', 112, '262.86', 'SSD', '256', '4.6', 14.0, 16, 'Amazon')

('acer', 'Chromebook', 'AMD', 'Chrome OS', 'A6', 14, '184', 'SSD', '32', '3.6', 15.6, 4, 'Amazon')

('Apple', 'MacBook Pro', 'Apple', 'Mac OS', 'Apple M3 Pro 12C CPU - 18C GPU Chip', 1, '3099', 'SSD', '2048', '3.4', 16.0, 36, 'Amazon')
('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Core i5-10500', 1, '449', 'SSD', '256', '3', 13.3, 16, 'Amazon')
('SAINTDISE', 'ANL5-N5095', 'Intel', 'DOS', 'N5095', 10, '236.99', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')
('ASUS', 'ROG Ally', 'AMD', 'Windows 11 Home', 'AMD R Series', 15, '689.69', 'SSD', '512', '4.4', 7.0, 16, 'Amazon')
('SAINTDISE', 'ANL5-N5095', 'Intel', 'DOS', 'N5095', 10, '236.99', 'SSD', '512', '4.5', 15.6, 16, 'Amazon')
('HP', 'HP', 'Intel', 'Windows 11 Pro', 'Intel Core i7', 2, '319.9', 'SSD', '512', '4.5', 14.0, 32, 'Amazon')
('Apple', 'MacBook Pro', 'Apple', 'Mac OS', 'Apple M2', 0, '1325.71', 'SSD', '512', '4.7', 13.3, 8, 'Amazon')
('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Core i5-10500', 1, '449', 'SSD', '256', '3', 13.3, 16, 'Amazon')
('HP', '250', 'Intel', 'Windows 11 Home', 'N4500', 169, '569.99', 'SSD', '4096', '4.4', 15.6, 32, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A133', 1, '119.99', 'SSD', '2', '4.5', 10.1, 2, 'Amazon')
('Dell', 'Dell Inspiron', 'AMD', 'Windows 11 Pro', 'Ryzen 5 7530U', 0, '649', 'SSD', '2048', '4.4', 15.6, 36, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A133', 1, '119.99', 'SSD', '2', '4.5', 10.1, 2, 'Amazon')
('Apple', 'MacBook Pro', 'Apple', 'Mac OS', 'Apple M1 Max', 71, '1729.78', 'SSD', '2048', '4.4', 16.2, 32, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A133', 1, '119.99', 'SSD', '2', '4.5', 10.1, 2, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A133', 1, '119.99', 'SSD', '2', '4.5', 10.1, 2, 'Amazon')
('SAMSUNG', 'NP964XGK-KG1US', 'Intel', 'Windows 11 Pro', 'Intel Core 7 Ultra 155H', 22, '1779', 'SSD', '2048', '4.4', 16.0, 32, 'Amazon')
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('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A133', 1, '119.99', 'SSD', '2', '4.5', 10.1, 2, 'Amazon')
('Lenovo', 'ThinkPad X1 Carbon Gen 12', 'Intel', 'Windows 11 Pro', 'Intel Core Ultra 7 165U', 9, '1649.99', 'SSD', '4096', '4.4', 14.0, 32, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A133', 1, '119.99', 'SSD', '2', '4.5', 10.1, 2, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A133', 1, '119.99', 'SSD', '2', '4.5', 10.1, 2, 'Amazon')
('KOOFORWAY', 'P8', 'Intel', 'Windows 11 Pro', 'Intel® Processor N-series /Alder Lake-N N100', 78, '469', 'SSD', '2048', '4.4', 8.0, 12, 'Amazon')
('Lenovo', 'Yoga', 'Intel', 'Windows 11 Pro', '155U', 4, '898', 'SSD', '2048', '4.4', 16.0, 16, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A133', 1, '119.99', 'SSD', '2', '4.5', 10.1, 2, 'Amazon')
('ASUS', '2024 Flagship ASUS Chromebook', 'MediaTek', 'Chrome OS', 'MediaTek Kompanio 520', 9, '239', 'SSD', '64', '4.5', 14.0, 4, 'Amazon')
('KOOFORWAY', 'P8', 'Intel', 'Windows 11 Pro', 'Intel® Processor N-series /Alder Lake-N N100', 78, '469', 'SSD', '2048', '4.4', 8.0, 12, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A133', 1, '119.99', 'SSD', '2', '4.5', 10.1, 2, 'Amazon')
('ZHAOHUIXIN', 'PC1068', 'Alwinner', 'Android', 'A133', 1, '119.99', 'SSD', '2', '4.5', 10.1, 2, 'Amazon')
('Dell', 'Dell Inspiron', 'AMD', 'Windows 11 Pro', 'Ryzen 5 7530U', 0, '649', 'SSD', '2048', '4.4', 15.6, 36, 'Amazon')
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('SAMSUNG', 'Galaxy Book4', 'Intel', 'Windows 11', 'Core i7 13th Gen 1355U', 11, '916.88', 'SSD', '512', '4.4', 13.0, 16, 'Flipkart')
('SAMSUNG', 'Galaxy Book4', 'Intel', 'Windows 11', 'Core i5 13th Gen 1335U', 91, '785.88', 'SSD', '512', '4.5', 13.0, 16, 'Flipkart')
('SAMSUNG', 'Galaxy Book4 Metal', 'Intel', 'Windows 11', 'Core i3 13th Gen 1315U', 1, '523.88', 'SSD', '512', '5', 13.0, 8, 'Flipkart')
('SAMSUNG', 'Galaxy Book4 Pro 360 Evo AI PC', 'Intel', 'Windows 11', 'Core Ultra 7 155H', 0, '2143.5', 'SSD', '1024', '5', 16.0, 16, 'Flipkart')
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('SAMSUNG', 'Galaxy Book4 Pro 360 Evo AI PC', 'Intel', 'Windows 11', 'Core Ultra 7 155H', 0, '2143.5', 'SSD', '1024', '5', 16.0, 16, 'Flipkart')
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('SAMSUNG', 'Galaxy Book3', 'Intel', 'Windows 11', 'Core i5 13th Gen 1335U', 124, '1190.78', 'SSD', '512', '4.3', 13.0, 16, 'Flipkart')
('SAMSUNG', 'Galaxy Book3', 'Intel', 'Windows 11', 'Core i5 13th Gen 1335U', 124, '696.56', 'SSD', '512', '4.3', 13.0, 8, 'Flipkart')
('SAMSUNG', 'Galaxy Book4', 'Intel', 'Windows 11', 'Core i7 13th Gen 1355U', 11, '916.88', 'SSD', '512', '4.4', 13.0, 16, 'Flipkart')
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 ('SAMSUNG', 'Galaxy Book4', 'Intel', 'Windows 11', 'Core i7 13th Gen 1355U', 11, '916.88', 'SSD', '512', '4.4', 13.0, 16, 'Flipkart')
 ('HP', 'No Model', 'Intel', 'Windows11', 'Core i7 - 15-DY5073DX', 1939, '529.99', 'SSD', '512', '4.6', 15.6, 16, 'BestBuy')
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 ('HP', 'No Model', 'AMD Ryzen', 'Windows11', '5 - 15-fc0025dx', 232, '399.99', 'SSD', '512', '4.6', 15.6, 8, 'BestBuy')
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 ('Dell', 'Inspiron', 'Intel', 'Windows11', 'Core 7 - i7440-7304BLU-PUS', 207, '699.99', 'SSD', '1024', '4.5', 14.0, 16, 'BestBuy')
 ('HP', 'No Model', 'Intel', 'Windows11', 'Celeron - 14-dq0760dx', 468, '139.99', 'eMMC', '128eMMC', '4.2', 14.0, 4, 'BestBuy')
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('ASUS', 'ProArt P16', 'No Info', 'Windows11', 'No Info - H7606WV-P16.R3704060', 52, '1699.99', 'SSD', '1024', '4.3', 16.0, 32, 'BestBuy')
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 ('Lenovo', 'Yoga', 'AMD Ryzen', 'Windows11', '7 8840HS - 83DK000AUS', 83, '899.99', 'SSD', '1024', '4.5', 14.0, 16, 'BestBuy')
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 ('HP', 'Envy', 'Intel', 'Windows11', 'Core Ultra - 16-ac0013dx', 201, '899.99', 'SSD', '512', '4.6', 16.0, 16, 'BestBuy')
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9, '522.99', 'SSD', '256', '4.3', 14.0, 8, 'BestBuy')
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'9', 'SSD', '1024', '4.7', 15.6, 16, 'BestBuy')
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 9.99', 'SSD', '512', '5', 14.0, 16, 'BestBuy')
 ('LG', 'gram', 'Intel', 'Windows11', 'Evo Platform - 17Z90S-H.ADB7U1', 0, '1799.9
 9', 'SSD', '2048', '0 Reviews', 17.0, 16, 'BestBuy')
 ('ASUS', 'ROG Flow', 'Intel', 'Windows11', 'Core i9 - GZ301VU-DS94', 18, '1645.9
 9', 'SSD', '1024', '4.7', 13.4, 16, 'BestBuy')
 ('ASUS', 'Vivobook', 'Intel', 'Windows11', '13th Gen - TP3604VA-EB94T', 27, '949.
 99', 'SSD', '1024', '4.4', 16.0, 16, 'BestBuy')
 ('ASUS', 'ROG Strix SCAR', 'Intel', 'Windows11', 'Core i9 - G634JYR-XS97', 10, '3
 636.99', 'SSD', '2048', '4.8', 16.0, 32, 'BestBuy')
 ('MSI', 'Vector', 'No Info', 'Windows11', 'No Info - Vector GP68HX 13VI-255US', 7,
 '3039.99', 'SSD', '2048', '3.4', 16.0, 32, 'BestBuy')
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 - ZXX-00062', 11, '1499.99', 'SSD', '1024', '4.9', 13.8, 16, 'BestBuy')
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 9.99', 'SSD', '1024', '3.3', 16.0, 16, 'BestBuy')
 ('ASUS', 'ROG Zephyrus', 'Intel', 'Windows11', 'Core i9 - GU604VZ-CS94', 47, '229
 9.99', 'SSD', '1024', '4.2', 16.0, 16, 'BestBuy')
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 9.99', 'SSD', '1024', '4.8', 18.0, 32, 'BestBuy')
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 99', 'SSD', '256', '5', 14.0, 16, 'BestBuy')
 ('Lenovo', 'ThinkPad', 'No Info', 'Windows11', 'No Info - 21FJ002DUS', 1, '1229.9
 9', 'SSD', '512', '5', 13.3, 16, 'BestBuy')
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 9', 'SSD', '1024', '4.5', 17.0, 16, 'BestBuy')
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 '1899.99', 'SSD', '1024', '4', 13.4, 32, 'BestBuy')
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 9', 'SSD', '1024', '4', 17.3, 16, 'BestBuy')
 ('Lenovo', 'ThinkPad X1', 'No Info', 'Windows11', 'No Info - 21HM000GUS', 1, '159
 9.99', 'SSD', '256', '4', 14.0, 16, 'BestBuy')
 ('Lenovo', 'ThinkPad X1', 'Intel', 'Windows11', 'Core i7 - 21HM000RUS', 1, '2499.
 99', 'SSD', '1024', '5', 14.0, 32, 'BestBuy')
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 99', 'SSD', '256', '0 Reviews', 15.6, 4, 'BestBuy')
 ('Lenovo', 'ThinkPad', 'AMD Ryzen', 'Windows11', '7 - 21MC000HUS', 0, '1379.99',
 'SSD', '512', '0 Reviews', 14.0, 32, 'BestBuy')
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 9', 'SSD', '512', '4.5', 16.0, 16, 'BestBuy')
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 'SSD', '256', '0 Reviews', 16.0, 16, 'BestBuy')
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 9', 'SSD', '512', '5', 14.0, 24, 'BestBuy')
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 9', 'SSD', '512', '4.6', 16.0, 16, 'BestBuy')
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 9.99', 'SSD', '1024', '3.2', 16.3, 32, 'BestBuy')
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 '199.99', 'SSD', '512', '5', 14.0, 4, 'BestBuy')
 ('Thomson', 'NEOZ3 Laptop', 'No Info', 'Windows11', 'No Info - WWZ313Q8508T256',
 1, '299.99', 'SSD', '512', '5', 14.0, 8, 'BestBuy')
 ('LG', 'gram', 'Intel', 'Windows11', 'Evo Platform - 14T90S-G.AAB6U1', 0, '1299.9
 9', 'SSD', '1024', '0 Reviews', 14.0, 16, 'BestBuy')
 ('ASUS', 'ProArt PX13 13', 'No Info', 'Windows11', 'No Info - HN7306WV-PB99T', 3,
 '1999.99', 'SSD', '1024', '4.3', 14.0, 32, 'BestBuy')
 ('Lenovo', 'Refurbished', 'No Info', 'Windows11', 'No Info - 82XJ002DUS', 1, '169.
 99', 'eMMC', '64eMMC', '5', 14.0, 4, 'BestBuy')
 ('Razer', 'Blade', 'Intel', 'Windows11', 'i9 HX - RZ09-0510TEM4-R3U1', 0, '3691.9
 9', 'SSD', '2048', '0 Reviews', 16.0, 32, 'BestBuy')
 ('MSI', 'Summit', 'Intel', 'Windows11', 'Core i7 - SUME1312026', 25, '799.99', 'S
 SD', '1024', '4.5', 13.4, 16, 'BestBuy')
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'9', 'SSD', '512', '0 Reviews', 15.6, 32, 'BestBuy')
 ('Dell', 'Latitude 3000', 'Intel', 'Windows11', 'Core i7 - T56PM', 0, '1059.99',
 'SSD', '512', '0 Reviews', 14.0, 16, 'BestBuy')
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 9', 'SSD', '256', '4.7', 14.0, 8, 'BestBuy')
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 D', '1024', '4', 14.0, 16, 'BestBuy')
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 SD', '256', '4.8', 15.6, 16, 'BestBuy')
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 '929.99', 'SSD', '512', '0 Reviews', 14.0, 16, 'BestBuy')
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 9', 'SSD', '256', '0 Reviews', 14.0, 16, 'BestBuy')
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 'SSD', '512', '0 Reviews', 14.0, 16, 'BestBuy')
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 'SSD', '256', '0 Reviews', 14.0, 8, 'BestBuy')
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 9', 'SSD', '512', '0 Reviews', 14.0, 16, 'BestBuy')
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 9', 'SSD', '512', '0 Reviews', 16.0, 16, 'BestBuy')
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 'SSD', '512', '0 Reviews', 17.3, 32, 'BestBuy')
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 S', 6, '1249.99', 'SSD', '512', '4.5', 14.0, 16, 'BestBuy')
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 9', 'SSD', '1024', '0 Reviews', 14.0, 16, 'BestBuy')
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 D', '512', '4.7', 15.6, 32, 'BestBuy')
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 'SSD', '256', '3.8', 14.0, 8, 'BestBuy')
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 D', '512', '0 Reviews', 15.6, 16, 'BestBuy')
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 'SSD', '1024', '0 Reviews', 14.0, 32, 'BestBuy')
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 'SSD', '512', '0 Reviews', 14.0, 16, 'BestBuy')
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 SD', '1024', '3.5', 14.0, 16, 'BestBuy')
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 P', 0, '229.99', 'SSD', '256', '0 Reviews', 14.0, 16, 'BestBuy')
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 9.99', 'SSD', '1024', '0 Reviews', 14.0, 16, 'BestBuy')
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 9', 'SSD', '1024', '4', 14.0, 16, 'BestBuy')
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 9', 'SSD', '256', '0 Reviews', 14.0, 16, 'BestBuy')
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 64SH', 25, '1949.99', 'SSD', '1024', '4.8', 16.0, 32, 'BestBuy')
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 99', 'SSD', '1024', '4.6', 13.5, 16, 'BestBuy')
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 99.99', 'SSD', '1024', '4.7', 16.0, 16, 'BestBuy')
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 9.99', 'SSD', '2048', '0 Reviews', 18.0, 16, 'BestBuy')
 ('Microsoft', 'No Model', 'Intel', 'Windows11', 'Evo Platform - RKL-00001', 47,
 '1900.99', 'SSD', '1024', '4.8', 15.0, 32, 'BestBuy')
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 '512', '5', 14.0, 16, 'BestBuy')
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 9', 'eMMC', '64eMMC', '0 Reviews', 14.0, 4, 'BestBuy')
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 '1329.99', 'SSD', '1024', '4.7', 15.6, 16, 'BestBuy')
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'SSD', '512', '0 Reviews', 14.0, 16, 'BestBuy')
 ('HP', 'Refurbished', 'Intel', 'Windows11', ' 13th Gen - 17-CN3033CL', 0, '599.99', 'SSD', '512', '0 Reviews', 17.3, 16, 'BestBuy')
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 ('MSI', 'Crosshair', 'Intel', 'Windows11', ' 13TH Gen - Crosshair 16 A13VGK-815US', 262, '1329.99', 'SSD', '1024', '4.6', 16.0, 16, 'BestBuy')
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 ('ASUS', 'ROG Strix G16', 'Intel', 'Windows11', ' Core i9 - G614JIR-XS96', 5, '229.99', 'SSD', '1024', '5', 16.0, 32, 'BestBuy')
 ('GIGABYTE', 'Gaming Laptop IPS', 'Intel', 'Windows11', ' i7 - G6 MF-H2US854KH', 4, '969.99', 'SSD', '1024', '4', 16.0, 16, 'BestBuy')
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 ('Acer', 'Predator Helios', 'Intel', 'Windows11', ' i5 - PHN16-71-50JG', 649, '113.99', 'SSD', '512', '4.7', 16.0, 16, 'BestBuy')
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 ('Alienware', 'm16', 'No Info', 'Windows11', 'No Info - AWM16-9272BLK-PUS', 188, '2375.99', 'SSD', '1024', '4.3', 14.0, 16, 'BestBuy')
 ('ASUS', 'No Model', 'AMD Ryzen', 'Windows11', ' 5-7535HS - FA506NC-ES51', 4, '79.99', 'SSD', '512', '5', 15.6, 8, 'BestBuy')
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'2199.99', 'SSD', '1024', '4.5', 16.0, 32, 'BestBuy')
 ('Dell', 'XPS', 'Intel', 'Windows11', 'Core Ultra - XPS9350-7715BLK-PUS', 0, '1399.99', 'SSD', '512', '0 Reviews', 13.4, 16, 'BestBuy')
 ('MSI', 'Bravo 15', 'No Info', 'Windows11', 'No Info - BRAV015B7001', 159, '854.99', 'NVMe', '512', '4.3', 15.6, 16, 'BestBuy')
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 ('ASUS', 'No Model', 'Intel', 'Windows11', 'Celeron N4020 - L210MA-DS04', 15, '235.99', 'eMMC', '128eMMC', '3.7', 11.6, 4, 'BestBuy')
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 ('MSI', 'Prestige', 'Intel', 'Windows11', 'Evo Edition - PRE13EV014027', 4, '1299', 'SSD', '1024', '4', 13.0, 32, 'BestBuy')
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'9', 'SSD', '512', '2.5', 14.0, 32, 'BestBuy')
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 9', 'SSD', '1024', '0 Reviews', 16.0, 32, 'BestBuy')
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 9', 'SSD', '1024', '0 Reviews', 14.0, 32, 'BestBuy')
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 9', 'SSD', '1024', '0 Reviews', 14.0, 32, 'BestBuy')
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 9', 'SSD', '256', '0 Reviews', 16.0, 16, 'BestBuy')
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 5.99', 'SSD', '2048', '0 Reviews', 15.6, 16, 'BestBuy')
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 99', 'SSD', '512', '0 Reviews', 16.0, 16, 'BestBuy')
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 9', 'SSD', '2048', '4', 17.3, 16, 'BestBuy')
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 99', 'SSD', '512', '5', 15.6, 16, 'BestBuy')
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 4, '3299.99', 'SSD', '1024', '3.6', 13.4, 32, 'BestBuy')
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 '829.99', 'SSD', '256', '0 Reviews', 13.5, 8, 'BestBuy')
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 ('Lenovo', 'Chromebook', 'No Info', 'Windows11', 'No Info - 82N40045US', 13, '429', 'SSD', '128', '4.5', 15.0, 8, 'BestBuy')
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 ('Lenovo', 'LOQ', 'AMD Ryzen', 'Windows11', '5 7235HS - 83JC0001US', 36, '799.99', 'SSD', '512', '4.6', 15.6, 12, 'BestBuy')
 ('Apple', 'MacBook Pro', 'Apple', 'Mac OS', 'M3 Max chip Built for Apple - MUW63L L/A', 155, '3499', 'SSD', '1024', '4.9', 16.0, 16, 'BestBuy')
 ('MSI', 'Cyborg', 'Intel', 'Windows11', 'i7 - Cyborg 15 A13VE-218US', 1, '799.99', 'NVMe', '512', '5', 15.6, 16, 'BestBuy')
 ('Acer', 'Chromebook', 'Intel', 'Windows11', 'Evo Laptop - CP714-2W-56B2', 213, '549.99', 'SSD', '256', '4.5', 14.0, 8, 'BestBuy')
 ('Apple', 'MacBook Air', 'Apple', 'Mac OS', 'M3 chip Built for Apple ligence - MRY V3LL/A', 136, '1499', 'SSD', '512', '4.8', 15.0, 8, 'BestBuy')
 ('Acer', 'Predator Helios', 'Intel', 'Windows11', 'Core i9 - PHN16-72-99PA', 36, '1499.99', 'SSD', '1024', '4.2', 16.0, 16, 'BestBuy')
 ('HP', 'Chromebook', 'Intel', 'Windows11', 'Core i3 - 14c-cd0053dx', 387, '548.99', 'SSD', '256', '4.6', 14.0, 8, 'BestBuy')

('HP', 'Envy', 'Intel', 'Windows11', 'Core Ultra - 14-fc0033dx', 80, '1249.99', 'SSD', '1024', '4.8', 14.0, 32, 'BestBuy')
 ('Lenovo', 'Flex', 'Intel', 'Windows11', 'N100 with - 82XH0001US', 314, '349', 'eMMC', '64eMMC', '4.6', 12.2, 4, 'BestBuy')
 ('Lenovo', 'Flex', 'Intel', 'Windows11', 'i3 - 83EK0000UX', 284, '499', 'SSD', '128', '4.3', 14.0, 8, 'BestBuy')
 ('Apple', 'MacBook Air', 'Apple', 'Mac OS', 'M2 chip - MLY43LL/A', 2434, '1199', 'SSD', '512', '4.9', 13.6, 8, 'BestBuy')
 ('ASUS', 'Chromebook', 'MediaTek', 'Windows11', 'Kompanio 520 - CM3001DM2A-M8186', 36, '299', 'eMMC', '64eMMC', '4.4', 10.5, 4, 'BestBuy')
 ('HP', 'Chromebook', 'Intel', 'Windows11', 'Core i3 - 15a-nb0033dx', 400, '499', 'UFS', '128UFS', '4.6', 15.6, 8, 'BestBuy')
 ('Apple', 'MacBook Air', 'Apple', 'Mac OS', 'M2 chip - MQKX3LL/A', 1685, '1299', 'SSD', '512', '4.9', 15.0, 8, 'BestBuy')
 ('Dell', 'No Model', 'Intel', 'Windows11', 'Core i9 - G7630-9302GRY-PUS', 20, '1599.99', 'SSD', '1024', '4.4', 16.0, 8, 'BestBuy')
 ('Apple', 'MacBook Air', 'Apple', 'Mac OS', 'M2 chip - MQTM3LL/A', 632, '1699', 'SD', '1024', '4.9', 15.0, 16, 'BestBuy')
 ('Acer', 'Predator Helios', 'Intel', 'Windows11', 'Core i9 - PHN16-72-91P6', 3, '1699.99', 'SSD', '1024', '4.3', 14.0, 16, 'BestBuy')
 ('HP', 'Envy', 'Intel', 'Windows11', 'Core Ultra - 14-fc0013dx', 108, '999.99', 'SSD', '512', '4.7', 14.0, 16, 'BestBuy')
 ('ASUS', 'No Model', 'Intel', 'Windows11', 'Core i5 - FX707ZC-ES53', 5, '843.99', 'SSD', '512', '5', 17.3, 16, 'BestBuy')
 ('HP', 'Chromebook', 'Intel', 'Windows11', 'Processor N100 - 14b-cd0013dx', 25, '429', 'eMMC', '64eMMC', '4.4', 14.0, 4, 'BestBuy')
 ('ASUS', 'Zenbook', 'Intel', 'Windows11', 'Core Ultra - UX8406MA-PS99T', 33, '1699.99', 'SSD', '1024', '4', 14.0, 32, 'BestBuy')
 ('ASUS', 'Vivobook', 'Intel', 'Windows11', 'Core 7 - F1605VAP-DS74', 0, '599.99', 'SSD', '1024', '0 Reviews', 14.0, 16, 'BestBuy')
 ('MSI', 'No Model', 'Intel', 'Windows11', 'Core i5 - THIN15131451', 36, '899.99', 'SSD', '512', '4.3', 15.6, 16, 'BestBuy')
 ('Razer', 'Blade', 'Intel', 'Windows11', 'Core i9 - RZ09-05092EP9-R3U1', 7, '4559.99', 'SSD', '2048', '3.9', 18.0, 16, 'BestBuy')
 ('ASUS', 'Chromebook', 'Intel', 'Windows11', 'Core i3 - CX5601FBA-I3128', 236, '599', 'SSD', '128', '4.5', 16.0, 8, 'BestBuy')
 ('Acer', 'Chromebook', 'Intel', 'Windows11', 'Core Ultra - CP714-1H-54UB', 22, '699', 'SSD', '256', '4.5', 14.0, 8, 'BestBuy')
 ('ASUS', 'Vivobook', 'AMD Ryzen', 'Windows11', '5 7530U - TN3604YA-DS51T', 0, '499.99', 'SSD', '512', '0 Reviews', 16.0, 8, 'BestBuy')
 ('HP', 'Chromebook', 'Intel', 'Windows11', 'Celeron - 3V2Y2UT#ABA', 7, '234.99', 'eMMC', '32eMMC', '5', 11.6, 4, 'BestBuy')
 ('ASUS', 'Vivobook', 'Intel', 'Windows11', '13th Gen - TP3604VA-DS74T', 0, '799.99', 'SSD', '512', '0 Reviews', 16.0, 16, 'BestBuy')
 ('Geek', 'Geek Squad Certified Refurbished MacBook Air', 'Apple', 'Windows11', 'M2 chip - GSRF MLY33LL/A', 59, '749.99', 'SSD', '256', '4.4', 13.6, 8, 'BestBuy')
 ('ASUS', 'ROG Zephyrus', 'AMD Ryzen', 'Windows11', '9 - GX650PY-XS97', 6, '3760.99', 'SSD', '2048', '4', 16.0, 32, 'BestBuy')
 ('Alienware', 'No Model', 'Intel', 'Windows11', 'Core Ultra - AW16R2-9517SLV-PU S', 2, '2699.99', 'SSD', '1024', '5', 14.0, 32, 'BestBuy')
 ('ASUS', 'ROG Strix G16', 'Intel', 'Windows11', 'Core i9 - G614JVR-ES96', 21, '1799.99', 'SSD', '1024', '4.4', 16.0, 32, 'BestBuy')
 ('Razer', 'Blade', 'Intel', 'Windows11', 'Core i9 - RZ09-05092EK4-R3U1', 2, '4049.99', 'SSD', '2048', '3', 18.0, 32, 'BestBuy')
 ('Samsung', 'Chromebook', 'Intel', 'Windows11', 'Celeron - XE520QEA-KB1US', 218, '426.99', 'SSD', '512', '4.6', 12.4, 4, 'BestBuy')
 ('ASUS', 'TUF A15', 'AMD Ryzen', 'Windows11', '7 7735HS - FA507NV-EH74', 0, '1034.99', 'SSD', '1024', '0 Reviews', 15.0, 16, 'BestBuy')
 ('ASUS', 'Vivobook', 'Intel', 'Windows11', 'Core 13th - K3704VA-DH96-S', 3, '899.99', 'SSD', '1024', '4.7', 17.3, 16, 'BestBuy')
 ('Alienware', 'm18 165', 'Intel', 'Windows11', 'Core i9 - BBY-3380KFX', 0, '3799.99', 'SSD', '2048', '0 Reviews', 14.0, 16, 'BestBuy')
 ('ASUS', 'ROG Zephyrus', 'AMD Ryzen', 'Windows11', '9 - GX650PZ-XS96', 1, '3290.99', 'SSD', '1024', '5', 16.0, 32, 'BestBuy')

('Apple', 'Geek Squad Certified Refurbished MacBook Air', 'Apple', 'Mac OS', 'M2 chip - GSRF MQKW3LL/A', 5, '929.99', 'SSD', '256', '4.2', 15.0, 8, 'BestBuy')
 ('ASUS', 'TUF Gaming A17', 'AMD Ryzen', 'Windows11', '7 7735HS - FA707NU-DS74', 5, '1175.99', 'SSD', '1024', '5', 17.3, 16, 'BestBuy')
 ('Apple', 'Geek Squad Certified Refurbished MacBook Air', 'Intel', 'Mac OS', 'Core i3 - GSRF MWTL2LL/A', 111, '414.99', 'SSD', '256', '4.4', 13.3, 8, 'BestBuy')
 ('Geek', 'Geek Squad Certified Refurbished MacBook Pro', 'Apple', 'Windows11', 'M1 chip - GSRF MYD82LL/A', 116, '649.99', 'SSD', '256', '4.4', 13.3, 8, 'BestBuy')
 ('Geek', 'Geek Squad Certified Refurbished MacBook Pro', 'Apple', 'Windows11', 'M1 chip - GSRF MYD92LL/A', 31, '699.99', 'SSD', '512', '4', 13.3, 8, 'BestBuy')
 ('Apple', 'Geek Squad Certified Refurbished MacBook Air', 'Intel', 'Mac OS', 'Core i3 - GSRF MWTK2LL/A', 111, '429.99', 'SSD', '256', '4.4', 13.3, 8, 'BestBuy')
 ('Geek', 'Geek Squad Certified Refurbished MacBook Air', 'Apple', 'Windows11', 'M1 chip - GSRF MGND3LL/A', 207, '609.99', 'SSD', '256', '4.4', 13.3, 8, 'BestBuy')
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 ('ASUS', 'Vivobook', 'Intel', 'Windows11', 'Core 5 - F1504VAP-ES51', 1, '599.99', 'SSD', '512', '4', 15.6, 8, 'BestBuy')
 ('Acer', 'Chromebook', 'Intel', 'Windows11', 'Core 5 - CBG516-2H-59S4', 18, '649', 'SSD', '256', '4.6', 16.0, 8, 'BestBuy')
 ('Geek', 'Geek Squad Certified Refurbished MacBook Air', 'Apple', 'Windows11', 'M1 chip - GSRF MGN73LL/A', 36, '659.99', 'SSD', '512', '3.9', 13.3, 8, 'BestBuy')
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 ('HP', 'OmniBook', 'No Info', 'Windows11', 'No Info - 14-fd0013dx', 15, '1499.99', 'SSD', '1024', '4.8', 14.0, 32, 'BestBuy')
 ('Apple', 'Geek Squad Certified Refurbished MacBook Air', 'Intel', 'Mac OS', 'Core i5 - GSRF MVFH2LL/A', 84, '429.99', 'SSD', '128', '4.2', 13.3, 8, 'BestBuy')
 ('Apple', 'Geek Squad Certified Refurbished MacBook Air', 'Intel', 'Mac OS', 'Core i5 - GSRF MVH22LL/A', 34, '469.99', 'SSD', '512', '4.1', 13.3, 8, 'BestBuy')
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 ('Apple', 'Geek Squad Certified Refurbished MacBook Pro', 'Intel', 'Mac OS', 'Core i5 - GSRF MXK32LL/A', 50, '549.99', 'SSD', '256', '4.1', 13.0, 8, 'BestBuy')
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 ('Apple', 'Geek Squad Certified Refurbished MacBook Air', 'Intel', 'Mac OS', 'Core i3 - GSRF MWTJ2LL/A', 111, '399.99', 'SSD', '256', '4.4', 13.3, 8, 'BestBuy')
 ('Geek', 'Geek Squad Certified Refurbished MacBook Air', 'Apple', 'Windows11', 'M1 chip - GSRF MGN93LL/A', 207, '609.99', 'SSD', '256', '4.4', 13.3, 8, 'BestBuy')
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 ('Apple', 'Geek Squad Certified Refurbished MacBook Air', 'Intel', 'Mac OS', 'Core i5 - GSRF MVH52LL/A', 34, '579.99', 'SSD', '512', '4.1', 13.3, 8, 'BestBuy')
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 ('Apple', 'Refurbished', 'No Info', 'Mac OS', 'No Info - GSRF MRX33LL/A', 1, '1529.99', 'SSD', '512', '5', 14.0, 18, 'BestBuy')
 ('Apple', 'Geek Squad Certified Refurbished MacBook Air', 'Apple', 'Mac OS', 'M2 chip - GSRF MQKX3LL/A', 1, '1099.99', 'SSD', '512', '5', 15.0, 8, 'BestBuy')
 ('HP', 'Chromebook', 'No Info', 'Windows11', 'No Info - Chromebook 11A G6', 22, '119.99', 'SSD', '16', '5', 11.6, 4, 'BestBuy')
 ('Apple', 'Geek Squad Certified Refurbished MacBook Pro', 'Intel', 'Mac OS', 'Core i5 - GSRF MV992LL/A', 14, '579.99', 'SSD', '256', '4.7', 13.0, 8, 'BestBuy')
 ('Geek', 'Geek Squad Certified Refurbished MacBook Air', 'Apple', 'Windows11', 'M2 chip - GSRF MLY43LL/A', 9, '949.99', 'SSD', '512', '5', 13.6, 8, 'BestBuy')
 ('Apple', 'Geek Squad Certified Refurbished MacBook Pro', 'Intel', 'Mac OS', 'Core i9 - GSRF MVVK2LL/A', 45, '899.99', 'SSD', '1024', '3.9', 16.0, 16, 'BestBuy')
 ('Geek', 'Geek Squad Certified Refurbished MacBook Air', 'Apple', 'Windows11', 'M2 chip - GSRF MLXY3LL/A', 59, '819.99', 'SSD', '256', '4.4', 13.6, 8, 'BestBuy')
 ('Apple', 'Geek Squad Certified Refurbished MacBook Pro', 'Intel', 'Mac OS', 'Core i5 - GSRF MUHN2LL/A', 56, '489.99', 'SSD', '128', '4.1', 13.0, 8, 'BestBuy')
 ('Apple', 'Geek Squad Certified Refurbished MacBook Air', 'Intel', 'Mac OS', 'Core i5 - GSRF MRE82LL/A', 58, '429.99', 'Flash Storage', '128', '4.3', 13.3, 8, 'Bes')

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('Geek', 'Geek Squad Certified Refurbished MacBook Air', 'Apple', 'Windows11', 'M2 chip - GSRF MLXX3LL/A', 9, '899.99', 'SSD', '512', '5', 13.6, 8, 'BestBuy')
('Acer', 'Chromebook', 'Intel', 'Windows11', 'Celeron with - NX.AYSAA.001', 0, '391.99', 'eMMC', '32eMMC', '0 Reviews', 11.6, 4, 'BestBuy')
('Apple', 'Geek Squad Certified Refurbished MacBook Air', 'Intel', 'Mac OS', 'Core i5 - GSRF MVFN2LL/A', 31, '539.99', 'SSD', '256', '4.2', 13.3, 8, 'BestBuy')
('Geek', 'Geek Squad Certified Refurbished MacBook Pro', 'Apple', 'Windows11', 'M2 chip - GSRF MNEJ3LL/A', 4, '1079.99', 'SSD', '512', '4.8', 13.3, 8, 'BestBuy')
('Apple', 'Geek Squad Certified Refurbished MacBook Pro', 'Intel', 'Mac OS', 'Core i5 - GSRF MWP42LL/A', 56, '699.99', 'SSD', '512', '4.4', 13.0, 16, 'BestBuy')
('MSI', 'Creator 16', 'Intel', 'Windows11', 'Core Ultra - C1614074', 0, '3929.99', 'SSD', '2048', '0 Reviews', 16.0, 16, 'BestBuy')
('ASUS', 'No Model', 'Intel', 'Windows11', 'Core i7 - FX607JV-ES73', 1, '1222.99', 'SSD', '512', '4', 16.0, 16, 'BestBuy')
('MSI', 'Raider', 'Intel', 'Windows11', 'i9 - Raider GE78HX 13VI-086US', 2, '3499.99', 'NVMe', '1024', '5', 17.0, 16, 'BestBuy')
('Apple', 'Geek Squad Certified Refurbished MacBook Pro', 'Intel', 'Mac OS', 'Core i5 - GSRF MWP72LL/A', 56, '689.99', 'SSD', '512', '4.4', 13.0, 16, 'BestBuy')
('ASUS', 'TUF Gaming A17', 'AMD Ryzen', 'Windows11', '7 7735HS - FA707NV-ES74', 4, '1410.99', 'SSD', '1024', '5', 17.3, 16, 'BestBuy')
('Razer', 'Blade', 'Intel', 'Windows11', 'Core i9 - RZ09-0509TEK3-R3U1', 2, '3594.99', 'SSD', '1024', '5', 18.0, 32, 'BestBuy')
('Apple', 'Geek Squad Certified Refurbished MacBook Pro', 'Intel', 'Mac OS', 'Core i7 - GSRF MVVJ2LL/A', 75, '809.99', 'SSD', '512', '4.1', 16.0, 16, 'BestBuy')
('Apple', 'Refurbished', 'No Info', 'Mac OS', 'No Info - GSRF MRW23LL/A', 1, '2159.99', 'SSD', '512', '1', 16.0, 16, 'BestBuy')
('MSI', 'CreatorPro', 'Intel', 'Windows11', 'Core Ultra - CPR01614090', 1, '2799.99', 'SSD', '1024', '5', 16.0, 32, 'BestBuy')
('MSI', 'CreatorPro', 'Intel', 'Windows11', 'Core Ultra - CPR01614076', 1, '4999.99', 'SSD', '2048', '5', 16.0, 16, 'BestBuy')
('ASUS', 'ROG Zephyrus', 'No Info', 'Windows11', 'No Info - GA605WI-XB96', 0, '2299.99', 'SSD', '1024', '0 Reviews', 16.0, 32, 'BestBuy')
('Apple', 'Geek Squad Certified Refurbished MacBook Air', 'Intel', 'Mac OS', 'Core i5 - GSRF MVFL2LL/A', 31, '479.99', 'SSD', '256', '4.2', 13.3, 8, 'BestBuy')
('MSI', 'Creator 16', 'Intel', 'Windows11', 'Core Ultra - C1614073', 2, '2899.99', 'SSD', '1024', '4', 16.0, 32, 'BestBuy')
('ASUS', 'Vivobook', 'Snapdragon', 'Windows11', 'X Elite - S5507QAD-PS96', 1, '1099.99', 'SSD', '1024', '5', 15.6, 16, 'BestBuy')
('Apple', 'Geek Squad Certified Refurbished MacBook Pro', 'Intel', 'Mac OS', 'Core i5 - GSRF MR9Q2LL/A', 34, '499.99', 'SSD', '256', '4', 13.0, 8, 'BestBuy')
('ASUS', 'Chromebook', 'Intel', 'Windows11', 'Core Ultra - CX5403CMA-DB588', 1, '663.99', 'SSD', '128', '4', 14.0, 8, 'BestBuy')
('Geek', 'Geek Squad Certified Refurbished MacBook Air', 'Apple', 'Windows11', 'M2 chip - GSRF MLY13LL/A', 59, '839.99', 'SSD', '256', '4.4', 13.6, 8, 'BestBuy')
('Apple', 'Geek Squad Certified Refurbished MacBook Air', 'Intel', 'Mac OS', 'Core i5 - GSRF MRE92LL/A', 30, '429.99', 'Flash Storage', '256', '3.9', 13.3, 8, 'BestBuy')
('ASUS', 'Vivobook', 'Intel', 'Windows11', 'Core 5 - F1605VAP-DS52', 0, '499.99', 'SSD', '512', '0 Reviews', 14.0, 8, 'BestBuy')
('Lenovo', 'Refurbished', 'No Info', 'Windows11', 'No Info - 82N4002HUS', 24, '159.99', 'eMMC', '64eMMC', '4.3', 15.6, 4, 'BestBuy')
('ASUS', 'No Model', 'AMD Ryzen', 'Windows11', '\u020f9 - G733PYV-XH97', 4, '3681.99', 'SSD', '2048', '4.8', 17.3, 32, 'BestBuy')
('Apple', 'Geek Squad Certified Refurbished MacBook Air', 'Apple', 'Mac OS', 'M2 chip - GSRF MQKP3LL/A', 5, '989.99', 'SSD', '256', '4.2', 15.0, 8, 'BestBuy')
('MSI', 'Raider', 'Intel', 'Windows11', 'Core i9 - RAIDERGE6813202', 2, '3499.99', 'SSD', '512', '5', 16.0, 16, 'BestBuy')
('Apple', 'Geek Squad Certified Refurbished MacBook Air', 'Intel', 'Mac OS', 'Core i5 - GSRF MVH42LL/A', 34, '619.99', 'SSD', '512', '4.1', 13.3, 8, 'BestBuy')
('MSI', 'Stealth', 'Intel', 'Windows11', 'Core Ultra - STEALTH16A1026', 1, '4099.99', 'SSD', '512', '4', 16.0, 16, 'BestBuy')
('Apple', 'Geek Squad Certified Refurbished MacBook Pro', 'Intel', 'Mac OS', 'Core i9 - GSRF MV912LL/A', 12, '749.99', 'SSD', '512', '3.4', 15.4, 16, 'BestBuy')
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('ASUS', 'Zenbook', 'Intel', 'Windows11', 'Core i9 - UX7602VI-DH99T', 2, '2699.99', 'SSD', '1024', '4.5', 14.0, 32, 'BestBuy')
 ('Apple', 'MacBook Pro', 'Apple', 'Mac OS', 'M2 chip - MNEW3LL/A', 255, '2099', 'SSD', '1024', '4.8', 13.3, 24, 'BestBuy')
 ('Apple', 'MacBook Air', 'Intel', 'Mac OS', 'Core i5 - MQD32LL/A Silver', 146, '259.99', 'SSD', '128', '4', 13.3, 8, 'BestBuy')
 ('ASUS', 'ROG Zephyrus', 'No Info', 'Windows11', 'No Info - GA605WV-XB96', 1, '2099.99', 'SSD', '1024', '3', 16.0, 32, 'BestBuy')
 ('ASUS', 'ROG Flow', 'AMD Ryzen', 'Windows11', '9 7940HS - GV302XV-CH94', 9, '1649.99', 'SSD', '1024', '4.1', 13.4, 16, 'BestBuy')
 ('HP', 'Chromebook', 'Intel', 'Windows11', 'Celeron - 14b-cb0033dx', 795, '269.99', 'eMMC', '64eMMC', '4.6', 14.0, 4, 'BestBuy')
 ('HP', 'Chromebook', 'Intel', 'Windows11', '10th Gen - PROC640', 9, '189.99', 'SSD', '512', '3.9', 14.0, 8, 'BestBuy')
 ('Acer', 'Chromebook', 'Intel', 'Windows11', 'Core i3 - CBV514-1H-38VS', 12, '499.99', 'SSD', '128', '4.2', 14.0, 8, 'BestBuy')
 ('Dell', 'Latitude 3000', 'AMD Ryzen', 'Windows11', '3 - 4R2G7', 0, '599.99', 'eMMC', '64eMMC', '0 Reviews', 14.0, 4, 'BestBuy')
 ('Apple', 'Refurbished', 'Intel', 'Mac OS', 'Core i7 - GSRF MR942LL/A', 15, '729.99', 'SSD', '512', '3.2', 15.0, 16, 'BestBuy')
 ('Apple', 'Refurbished', 'No Info', 'Mac OS', 'No Info - GSRF MRW13LL/A', 0, '1799.99', 'SSD', '512', '0 Reviews', 16.0, 18, 'BestBuy')
 ('Apple', 'Geek Squad Certified Refurbished MacBook Pro', 'Intel', 'Mac OS', 'Core i5 - GSRF MPXY2LL/A', 15, '649.99', 'Flash Storage', '512', '3.9', 13.0, 8, 'BestBuy')
 ('ASUS', 'No Model', 'AMD Ryzen', 'Windows11', '7 7735HS - FA507NU-DS74', 5, '1199.99', 'SSD', '1024', '2.6', 14.0, 16, 'BestBuy')
 ('Apple', 'Geek Squad Certified Refurbished MacBook Air', 'Apple', 'Mac OS', 'M2 chip - GSRF MQKU3LL/A', 5, '949.99', 'SSD', '256', '4.2', 15.0, 8, 'BestBuy')
 ('Apple', 'Geek Squad Certified Refurbished MacBook Air', 'Apple', 'Mac OS', 'M2 chip - GSRF MQKT3LL/A', 1, '1099.99', 'SSD', '512', '5', 15.0, 8, 'BestBuy')
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 ('Apple', 'Geek Squad Certified Refurbished MacBook Pro', 'Intel', 'Mac OS', 'Core i5 - GSRF MPXX2LL/A', 21, '499.99', 'Flash Storage', '256', '4.1', 13.0, 8, 'BestBuy')
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 ('Geek', 'Geek Squad Certified Refurbished MacBook Air', 'Apple', 'Windows11', 'M2 chip - GSRF MLY23LL/A', 9, '969.99', 'SSD', '512', '5', 13.6, 8, 'BestBuy')
 ('ASUS', 'ROG Zephyrus', 'No Info', 'Windows11', 'No Info - GA605WV-G16.R94060', 3, '1899.99', 'SSD', '512', '1.7', 16.0, 16, 'BestBuy')
 ('Acer', 'Predator Triton', 'No Info', 'Windows11', 'No Info - NHQK9AA003', 0, '1799.99', 'SSD', '512', '0 Reviews', 16.0, 16, 'BestBuy')
 ('Apple', 'Geek Squad Certified Refurbished MacBook Pro', 'Intel', 'Mac OS', 'Core i5 - GSRF MR9U2LL/A', 34, '549.99', 'SSD', '256', '4', 13.0, 8, 'BestBuy')
 ('Geek', 'Geek Squad Certified Refurbished MacBook Pro', 'Apple', 'Windows11', 'Apple M1 Pro chip - GSRF MK1E3LL/A', 15, '1799.99', 'SSD', '512', '4.5', 16.0, 16, 'BestBuy')
 ('Apple', 'Geek Squad Certified Refurbished MacBook Pro', 'Intel', 'Mac OS', 'Core i9 - GSRF MVVM2LL/A', 45, '999.99', 'SSD', '1024', '3.9', 16.0, 16, 'BestBuy')
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 ('Apple', 'Geek Squad Certified Refurbished MacBook Air', 'Intel', 'Mac OS', 'Core i5 - GSRF MREC2LL/A', 30, '449.99', 'Flash Storage', '256', '3.9', 13.3, 8, 'BestBuy')

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('MSI', 'Creator 16', 'Intel', 'Windows11', 'Core Ultra - C1614072', 0, '3099.99', 'SSD', '1024', '0 Reviews', 16.0, 16, 'BestBuy')
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('Microsoft', 'GSRF Surface', 'Intel', 'Windows11', 'Evo Platform - GSRF QZI-00001', 1, '649.99', 'SSD', '256', '1', 13.5, 8, 'BestBuy')
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('MSI', 'Vector', 'Intel', 'Windows11', '14th Gen - VECTOR17A1219', 0, '2239.99', 'SSD', '512', '0 Reviews', 17.0, 32, 'BestBuy')
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('MSI', 'Vector', 'Intel', 'Windows11', '14th Gen - VECTOR16HX14254', 0, '2099.99', 'SSD', '512', '0 Reviews', 16.0, 32, 'BestBuy')
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 ('MSI', 'Prestige', 'Intel', 'Windows11', 'Core i5 - PRE13EV012070', 0, '999.99', 'SSD', '512', '0 Reviews', 13.3, 16, 'BestBuy')
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 ('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Core i5 - MWP42LL/A', 22, '649.99', 'SSD', '512', '3.9', 13.0, 16, 'BestBuy')
 ('Apple', 'MacBook Air', 'Intel', 'Mac OS', 'Core i5 - A1466', 11, '259.99', 'Flash Storage', '256', '4.1', 13.3, 8, 'BestBuy')
 ('Geek', 'Geek Squad Certified Refurbished MacBook Air', 'Apple', 'Windows11', 'M2 chip - GSRF MLXW3LL/A', 59, '829.99', 'SSD', '256', '4.4', 13.6, 8, 'BestBuy')
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 ('Dell', 'Refurbished', 'Intel', 'Windows11', '7th Gen - 5480', 1, '309.99', 'SSD', '256', '5', 14.0, 16, 'BestBuy')
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 ('Microsoft', 'Refurbished', 'Intel', 'Windows11', 'Core i5 - GSRF JRR-00001', 0, '1079', 'SSD', '128', '0 Reviews', 13.5, 4, 'BestBuy')
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 ('Apple', 'Refurbished', 'Intel', 'Mac OS', 'Core M3 - GSRF MNYF2LL/A', 4, '359.99', 'Flash Storage', '256', '4', 12.0, 8, 'BestBuy')
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 ('Apple', 'Geek Squad Certified Refurbished MacBook Pro', 'Intel', 'Mac OS', 'Core i7 - GSRF MR972LL/A', 0, '999.99', 'SSD', '512', '0 Reviews', 15.0, 16, 'BestBuy')
 ('Apple', 'MacBook Pro', 'Intel', 'Mac OS', '8th Gen - MV912LL/A', 2, '779.99', 'SSD', '512', '4', 15.0, 16, 'BestBuy')
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'No price available', 'SSD', '1024', '4.8', 14.0, 16, 'BestBuy')
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529.99', 'NVMe', '1024', '0 Reviews', 16.0, 16, 'BestBuy')
 ('HP', 'Refurbished', 'Intel', 'Windows11', 'Core i7 - GSRF V1P80UT', 0, '1241.99', 'SSD', '256', '0 Reviews', 15.6, 8, 'BestBuy')
 ('Razer', 'Refurbished', 'Intel', 'Windows11', 'Core i7 - GSRF RZ09-03571EM2-R3U1', 0, '1799.99', 'SSD', '512', '0 Reviews', 13.4, 16, 'BestBuy')
 ('Razer', 'Refurbished', 'Intel', 'Windows11', 'Core i7 - GSRF RZ09-03272E82-R3U1', 0, '1799.99', 'SSD', '512', '0 Reviews', 13.3, 16, 'BestBuy')
 ('Microsoft', 'Refurbished', 'Intel', 'Windows11', 'Core i7 - GSRF VEF-00064', 0, '1279.99', 'SSD', '256', '0 Reviews', 13.5, 16, 'BestBuy')
 ('Razer', 'Refurbished', 'Intel', 'Windows11', 'Core i7 - GSRF RZ09-01964E32-R3U1', 0, '1599.99', 'SSD', '512', '0 Reviews', 13.3, 16, 'BestBuy')
 ('Razer', 'Refurbished', 'Intel', 'Windows11', 'Core i7 - GSRF RZ09-01962E52-R3U1', 0, '1599.99', 'SSD', '512', '0 Reviews', 12.5, 16, 'BestBuy')
 ('HP', 'Refurbished', 'Intel', 'Windows11', '8th Gen - 840 G6', 0, '583.99', 'SSD', '512', '0 Reviews', 14.0, 16, 'BestBuy')
 ('Microsoft', 'Refurbished', 'Intel', 'Windows11', 'Core i7 - GSRF SMV-00001', 1, '2399.99', 'SSD', '1024', '1', 14.0, 32, 'BestBuy')
 ('Apple', 'Geek Squad Certified Refurbished MacBook Air', 'Intel', 'Mac OS', 'Core i5 - 3PL GSRF MMGG2LL/A', 1, '119.99', 'Flash Storage', '256', '5', 13.3, 8, 'BestBuy')
 ('Apple', 'Geek Squad Certified Refurbished MacBook Pro', 'Intel', 'Mac OS', 'Core i7 - GSRF MD103LL/A', 0, '129.99', 'HDD', '500', '0 Reviews', 15.4, 4, 'BestBuy')
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 ('Dell', 'Latitude', 'Intel', 'Windows11', 'Core i7 - TDKWD', 4, '1179.99', 'SSD', '512', '4.3', 15.6, 16, 'BestBuy')
 ('Geek', 'Geek Squad Certified Refurbished MacBook Pro', 'Apple', 'Windows11', 'Apple M1 Pro chip - GSRF MKGQ3LL/A', 21, '999.99', 'SSD', '1024', '2.9', 14.0, 16, 'BestBuy')
 ('MSI', 'Stealth', 'Intel', 'Windows11', 'Core Ultra - STEALTH16A1036', 2, '2599.99', 'SSD', '512', '3.5', 16.0, 16, 'BestBuy')
 ('Geek', 'Geek Squad Certified Refurbished MacBook Pro', 'Apple', 'Windows11', 'Apple M1 Pro chip - GSRF MK193LL/A', 19, '1109.99', 'SSD', '1024', '3.8', 16.0, 16, 'BestBuy')
 ('ASUS', 'Chromebook', 'Intel', 'Windows11', 'Celeron N4500 - CX1700CK-CL464', 343, '199.99', 'eMMC', '64eMMC', '4.6', 17.3, 4, 'BestBuy')
 ('Samsung', 'Chromebook', 'Intel', 'Windows11', 'Celeron - XE350XBA-K02US', 301, '255.99', 'eMMC', '64eMMC', '4.6', 15.6, 4, 'BestBuy')
 ('Alienware', 'No Model', 'Intel', 'Windows11', 'Core Ultra - BBY-0NCW5FX', 0, '2599.99', 'SSD', '2048', '0 Reviews', 16.0, 16, 'BestBuy')
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 ('Apple', 'Geek Squad Certified Refurbished MacBook Pro', 'Intel', 'Mac OS', 'Core i5 - GSRF MPXQ2LL/A', 49, '269.99', 'Flash Storage', '128', '3.4', 13.0, 8, 'BestBuy')
 ('ASUS', 'ROG Strix G16', 'Intel', 'Windows11', '13th Gen - G614JU-ES94', 2, '1499.99', 'SSD', '1024', '5', 16.0, 16, 'BestBuy')
 ('ASUS', 'Zenbook', 'Intel', 'Windows11', '13 Gen - UX8402VV-PS96T', 10, '2399.99', 'SSD', '1024', '4.3', 14.5, 32, 'BestBuy')
 ('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Core i5 - A1502', 7, '339.99', 'Flash Storage', '512', '3.7', 13.3, 8, 'BestBuy')
 ('ASUS', 'Zenbook', 'AMD Ryzen', 'Windows11', '7 7735U - UM3504DA-DS76', 1, '1299.99', 'SSD', '1024', '1', 15.6, 32, 'BestBuy')
 ('Apple', 'Geek Squad Certified Refurbished MacBook Pro', 'Intel', 'Mac OS', 'Core i7 - GSRF MPTT2LL/A', 16, '539.99', 'Flash Storage', '512', '4.3', 15.0, 16, 'BestBuy')
 ('Microsoft', 'GSRF Surface', 'Intel', 'Windows11', 'Core i7 - GSRF AI2-00001', 1, '1499.99', 'SSD', '2048', '5', 14.4, 32, 'BestBuy')

('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Core i5 - A1502', 15, '279.99', 'Flash Storage', '128', '4.5', 13.3, 8, 'BestBuy')
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 ('Microsoft', 'GSRF Surface', 'Intel', 'Windows11', 'Evo Platform - GSRF R1S-00051', 2, '799.99', 'SSD', '512', '3', 13.5, 8, 'BestBuy')
 ('Microsoft', 'GSRF Surface', 'Intel', 'Windows11', 'Evo Platform - GSRF R1S-00062', 2, '799.99', 'SSD', '512', '3', 13.5, 8, 'BestBuy')
 ('Microsoft', 'GSRF Surface', 'Intel', 'Windows11', 'Evo Platform - GSRF R1S-00026', 2, '799.99', 'SSD', '512', '3', 13.5, 8, 'BestBuy')
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 ('Microsoft', 'GSRF Surface', 'Intel', 'Windows11', 'Core i5 - GSRF 9WI-00001', 0, '1099.99', 'SSD', '512', '0 Reviews', 14.4, 16, 'BestBuy')
 ('Microsoft', 'GSRF Surface', 'Intel', 'Windows11', 'Core i5 - GSRF KSR-00001', 0, '639.99', 'SSD', '128', '0 Reviews', 13.5, 8, 'BestBuy')
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 ('Microsoft', 'GSRF Surface', 'AMD Ryzen', 'Windows11', '5 - GSRF 7IP-00026/7IP-00099', 0, '719.99', 'SSD', '256', '0 Reviews', 13.5, 16, 'BestBuy')
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('Microsoft', 'GSRF Surface', 'Intel', 'Windows11', 'Core m3 - GSRF DAP-00001', 0, '529.99', 'SSD', '128', '0 Reviews', 13.5, 4, 'BestBuy')
 ('Microsoft', 'GSRF Surface', 'Intel', 'Windows11', 'Core i5 - GSRF 5AI-00047', 0, '1199.99', 'SSD', '512', '0 Reviews', 13.5, 16, 'BestBuy')
 ('Microsoft', 'GSRF Surface', 'Intel', 'Windows11', 'Core i5 - GSRF 5AI-00001', 0, '1199.99', 'SSD', '512', '0 Reviews', 13.5, 16, 'BestBuy')
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 ('Apple', 'Geek Squad Certified Refurbished MacBook Air', 'Intel', 'Mac OS', 'Core i5 - GSRF MD760LL/B', 1, '179.99', 'Flash Storage', '128', '5', 13.3, 4, 'BestBuy')
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 ('Apple', 'Geek Squad Certified Refurbished MacBook Pro', 'Intel', 'Mac OS', 'Core i5 - GSRF MR9V2LL/A', 15, '379.99', 'SSD', '512', '4.1', 13.0, 8, 'BestBuy')
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 ('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Core i5 - MPXQ2LL/A', 28, '369.99', 'SSD', '128', '3.7', 13.0, 8, 'BestBuy')
 ('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Core i5 - A1502', 19, '299.99', 'Flash Storage', '256', '3.9', 13.3, 8, 'BestBuy')
 ('Apple', 'Geek Squad Certified Refurbished MacBook Air', 'Intel', 'Mac OS', 'Core i5 - GSRF MREA2LL/A', 58, '399.99', 'Flash Storage', '128', '4.3', 13.3, 8, 'BestBuy')
 ('Apple', 'Geek Squad Certified Refurbished MacBook Pro', 'Intel', 'Mac OS', 'Core i5 - GSRF MPXV2LL/A', 21, '399.99', 'Flash Storage', '256', '4.1', 13.0, 8, 'BestBuy')
 ('Apple', 'Geek Squad Certified Refurbished MacBook Air', 'Intel', 'Mac OS', 'Core i5 - GSRF MD223LL/A', 0, '809.99', 'SSD', '64', '0 Reviews', 11.6, 4, 'BestBuy')
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 ('Apple', 'Geek Squad Certified Refurbished MacBook Pro', 'Intel', 'Mac OS', 'Core i5 - GSRF MPXU2LL/A', 62, '369.99', 'Flash Storage', '256', '3.5', 13.0, 8, 'BestBuy')
 ('Apple', 'Geek Squad Certified Refurbished Macbook®', 'Intel', 'Mac OS', 'Core M3 - GSRF MNYK2LL/A', 5, '349.99', 'Flash Storage', '256', '3.2', 12.0, 8, 'BestBuy')
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 ('Samsung', 'Refurbished', 'Intel', 'Windows11', 'Core i3 - GSRF XE530QDA-KA1US', 8, '269.99', 'eMMC', '128eMMC', '4.9', 13.3, 8, 'BestBuy')
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('Apple', 'Geek Squad Certified Refurbished MacBook Pro', 'Intel', 'Mac OS', 'Core i7 - GSRF Z0UK9LL/A', 1, '699.99', 'SSD', '512', '1', 13.3, 16, 'BestBuy')
('Apple', 'MacBook Pro', 'Intel', 'Mac OS', 'Core i5 - MLL42LL/A', 23, '389.99', 'SSD', '256', '3.6', 13.3, 8, 'BestBuy')
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('Apple', 'Geek Squad Certified Refurbished MacBook Air', 'Intel', 'Mac OS', 'Core i5 - GSRF MD231LL/A', 0, '899.99', 'SSD', '128', '0 Reviews', 13.3, 4, 'BestBuy')
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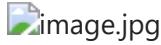
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 ('Apple', 'Geek Squad Certified Refurbished MacBook Pro', 'Intel', 'Mac OS', 'Core i7 - GSRF 13687677', 0, '1199.99', 'SSD', '512', '0 Reviews', 13.0, 16, 'BestBuy')
 ('Apple', 'Geek Squad Certified Refurbished MacBook Pro', 'Intel', 'Mac OS', 'Core i7 - GCRF MC721LL/A', 0, '1999.99', 'Hard Drive', '500', '0 Reviews', 15.4, 4, 'BestBuy')
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Observation

- The data has been successfully transferred to SQLite Database.

Database Schema



Database Dataview



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7. [DB Browser for SQLite](#): A GUI application to view database files in easy to understand format.