import pandas as pd
import numpy as np

df = pd.read_csv('/content/Amazon Sales data.csv')
df

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	Region	Country	Item Type	Sales Channel	Order Priority	Order Date	Order ID	Ship Date	Units Sold	Unit Price	Unit Cost	Total Revenue	Total Cost	
0	Australia and Oceania	Tuvalu	Baby Food	Offline	Н	5/28/2010	669165933	6/27/2010	9925	255.28	159.42	2533654.00	1582243.50	95
1	Central America and the Caribbean	Grenada	Cereal	Online	С	8/22/2012	963881480	9/15/2012	2804	205.70	117.11	576782.80	328376.44	24
2	Europe	Russia	Office Supplies	Offline	L	5/2/2014	341417157	5/8/2014	1779	651.21	524.96	1158502.59	933903.84	22
3	Sub- Saharan Africa	Sao Tome and Principe	Fruits	Online	С	6/20/2014	514321792	7/5/2014	8102	9.33	6.92	75591.66	56065.84	1!
4	Sub- Saharan Africa	Rwanda	Office Supplies	Offline	L	2/1/2013	115456712	2/6/2013	5062	651.21	524.96	3296425.02	2657347.52	63

95	Sub- Saharan Africa	Mali	Clothes	Online	М	7/26/2011	512878119	9/3/2011	888	109.28	35.84	97040.64	31825.92	6
96	Asia	Malaysia	Fruits	Offline	L	11/11/2011	810711038	12/28/2011	6267	9.33	6.92	58471.11	43367.64	1

df.head()

	Region	Country	Item Type	Sales Channel	Order Priority	Order Date	Order ID	Ship Date	Units Sold
0	Australia and Oceania	Tuvalu	Baby Food	Offline	Н	5/28/2010	669165933	6/27/2010	9925
1	Central America and the Caribbean	Grenada	Cereal	Online	С	8/22/2012	963881480	9/15/2012	2804
2	Europe	Russia	Office Supplies	Offline	L	5/2/2014	341417157	5/8/2014	1779
4		San							+

df.dtypes

Region	object			
Country	object			
Item Type	object			
Sales Channel	object			
Order Priority	object			
Order Date	object			
Order ID	int64			
Ship Date	object			
Units Sold	int64			
Unit Price	float64			
Unit Cost	float64			
Total Revenue	float64			
Total Cost	float64			
Total Profit	float64			
dtype: object				

len(df)

100

df.info()

```
<class 'pandas.core.frame.DataFrame'>
     RangeIndex: 100 entries, 0 to 99
     Data columns (total 14 columns):
     # Column
                         Non-Null Count Dtype
     0
         Region
                         100 non-null
                                         object
         Country
                         100 non-null
                                          object
         Item Type
                                         object
                         100 non-null
         Sales Channel
                         100 non-null
                                         object
         Order Priority 100 non-null
                                          object
                                         object
         Order Date
                         100 non-null
         Order ID
                         100 non-null
                                         int64
         Ship Date
                         100 non-null
                                         object
      8
         Units Sold
                         100 non-null
                                          int64
         Unit Price
                         100 non-null
                                          float64
      10 Unit Cost
                         100 non-null
                                          float64
                                         float64
     11 Total Revenue
                         100 non-null
     12 Total Cost
                         100 non-null
                                          float64
     13 Total Profit
                                          float64
                         100 non-null
     dtypes: float64(5), int64(2), object(7)
     memory usage: 11.1+ KB
df.isnull().sum()
     Region
                       0
     Country
                      0
     Item Type
                       0
     Sales Channel
                       0
     Order Priority
                       0
    Order Date
                      0
```

0

0

0

0

0

0

0

df = df.drop_duplicates()
df.head()

Order ID Ship Date

Units Sold

Unit Price

Unit Cost

Total Cost

Total Profit

dtype: int64

Total Revenue

	Region	Country	Item Type	Sales Channel	Order Priority	Order Date	Order ID	Ship Date	Units Sold
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2	Europe	Russia	Office Supplies	Offline	L	5/2/2014	341417157	5/8/2014	1779
		San							
4									•

len(df)

100

df.describe()

	Order ID	Units Sold	Unit Price	Unit Cost	Total Revenue	Total Cost	
count	1.000000e+02	100.000000	100.000000	100.000000	1.000000e+02	1.000000e+02	1.000
mean	5.550204e+08	5128.710000	276.761300	191.048000	1.373488e+06	9.318057e+05	4.416
std	2.606153e+08	2794.484562	235.592241	188.208181	1.460029e+06	1.083938e+06	4.38
min	1.146066e+08	124.000000	9.330000	6.920000	4.870260e+03	3.612240e+03	1.258
25%	3.389225e+08	2836.250000	81.730000	35.840000	2.687212e+05	1.688680e+05	1.214
50%	5.577086e+08	5382.500000	179.880000	107.275000	7.523144e+05	3.635664e+05	2.907
75%	7.907551e+08	7369.000000	437.200000	263.330000	2.212045e+06	1.613870e+06	6.358
4							•