

HomeNewAmazonSales

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JupyterLabPython 3 (ipykernel)

[19]:import numpy as npimport pandas as pdimport matplotlib.pyplot as pltimport seaborn as snsfrom datetime import datetime

[20]:data = pd.read_csv(r"C:\Users\HP\Downloads\Amazon Sales data.csv")

[21]:data.head()

[21]:

	Region	Country	Item Type	Sales Channel	Order Priority	Order Date	Order ID	Ship Date	Units Sold	Unit Price	Unit Cost	Total Revenue	Total Cost	Total Profit
0	Australia and Oceania	Tuvalu	Baby Food	Offline	H	5/28/2010	669165933	6/27/2010	9925	255.28	159.42	2533654.00	1582243.50	951410.50
1	Central America and the Caribbean	Grenada	Cereal	Online	C	8/22/2012	963881480	9/15/2012	2804	205.70	117.11	576782.80	328376.44	248406.36
2	Europe	Russia	Office Supplies	Offline	L	5/2/2014	341417157	5/8/2014	1779	651.21	524.96	1158502.59	933903.84	224598.75
3	Sub-Saharan Africa	Sao Tome and Principe	Fruits	Online	C	6/20/2014	514321792	7/5/2014	8102	9.33	6.92	75591.66	56065.84	19525.82
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	639077.50

[22]:data.tail()

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[22]: data.tail()

[22]:

	Region	Country	Item Type	Sales Channel	Order Priority	Order Date	Order ID	Ship Date	Units Sold	Unit Price	Unit Cost	Total Revenue	Total Cost	Total Profit
95	Sub-Saharan Africa	Mali	Clothes	Online	M	7/26/2011	512878119	9/3/2011	888	109.28	35.84	97040.64	31825.92	65214.72
96	Asia	Malaysia	Fruits	Offline	L	11/11/2011	810711038	12/28/2011	6267	9.33	6.92	58471.11	43367.64	15103.47
97	Sub-Saharan Africa	Sierra Leone	Vegetables	Offline	C	6/1/2016	728815257	6/29/2016	1485	154.06	90.93	228779.10	135031.05	93748.05
98	North America	Mexico	Personal Care	Offline	M	7/30/2015	559427106	8/8/2015	5767	81.73	56.67	471336.91	326815.89	144521.02
99	Sub-Saharan Africa	Mozambique	Household	Offline	L	2/10/2012	665095412	2/15/2012	5367	668.27	502.54	3586605.09	2697132.18	889472.91

[23]: data.shape

[23]: (100, 14)

[24]: data.columns

[24]: Index(['Region', 'Country', 'Item Type', 'Sales Channel', 'Order Priority', 'Order Date', 'Order ID', 'Ship Date', 'Units Sold', 'Unit Price', 'Unit Cost', 'Total Revenue', 'Total Cost', 'Total Profit'], dtype='object')

[25]: data.describe()

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[25]: data.describe()

	Order ID	Units Sold	Unit Price	Unit Cost	Total Revenue	Total Cost	Total Profit
count	1.000000e+02	100.000000	100.000000	100.000000	1.000000e+02	1.000000e+02	1.000000e+02
mean	5.550204e+08	5128.710000	276.761300	191.048000	1.373488e+06	9.318057e+05	4.416820e+05
std	2.606153e+08	2794.484562	235.592241	188.208181	1.460029e+06	1.083938e+06	4.385379e+05
min	1.146066e+08	124.000000	9.330000	6.920000	4.870260e+03	3.612240e+03	1.258020e+03
25%	3.389225e+08	2836.250000	81.730000	35.840000	2.687212e+05	1.688680e+05	1.214436e+05
50%	5.577086e+08	5382.500000	179.880000	107.275000	7.523144e+05	3.635664e+05	2.907680e+05
75%	7.907551e+08	7369.000000	437.200000	263.330000	2.212045e+06	1.613870e+06	6.358288e+05
max	9.940222e+08	9925.000000	668.270000	524.960000	5.997055e+06	4.509794e+06	1.719922e+06

[26]: data.info()

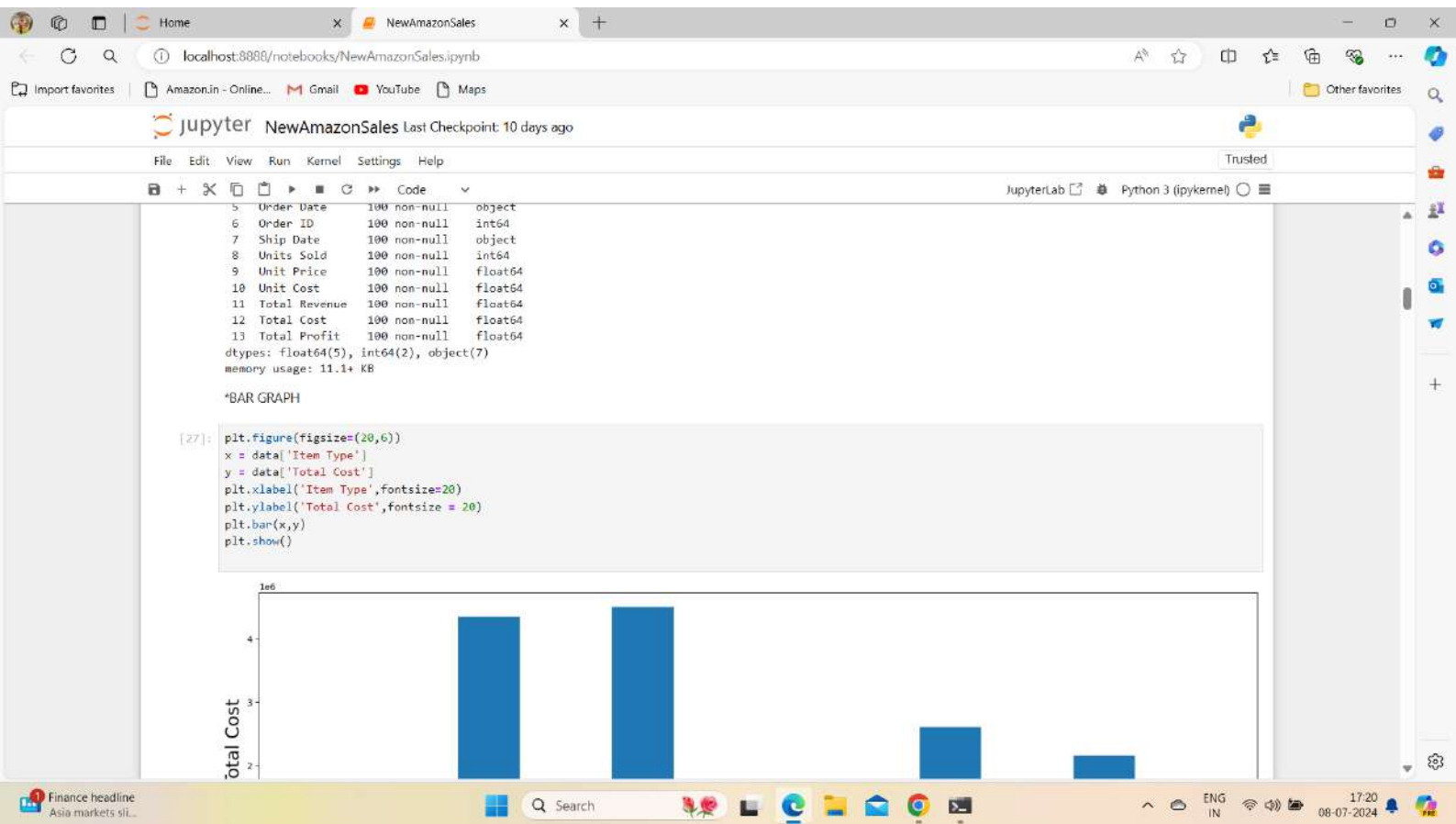
```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 100 entries, 0 to 99
Data columns (total 14 columns):
 #   Column                Non-Null Count  Dtype
---  -
 0   Region                100 non-null   object
 1   Country               100 non-null   object
 2   Item Type             100 non-null   object
 3   Sales Channel         100 non-null   object
 4   Order Priority        100 non-null   object
 5   Order Date            100 non-null   object
 6   Order ID              100 non-null   int64
 7   Ship Date             100 non-null   object
```

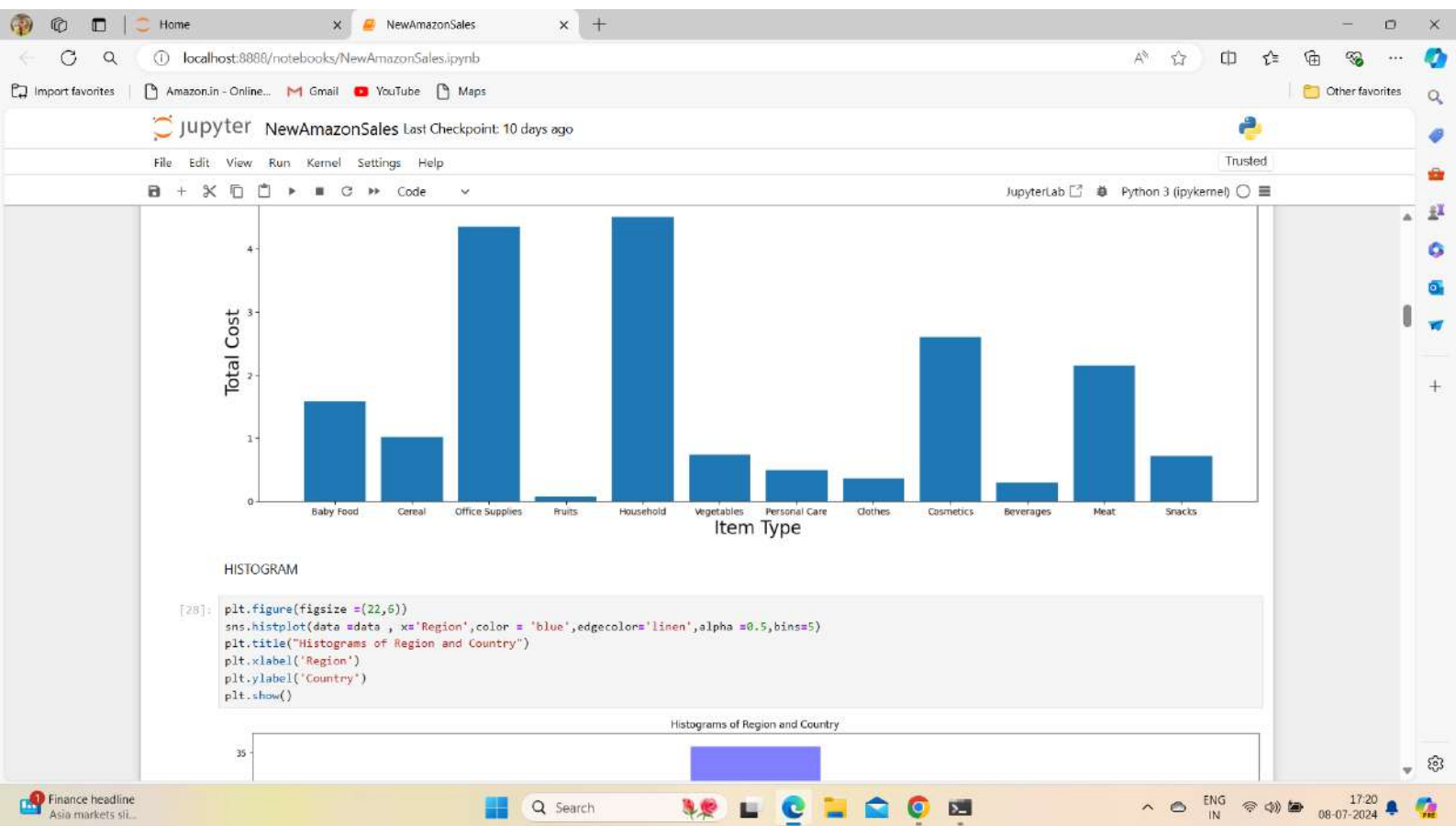
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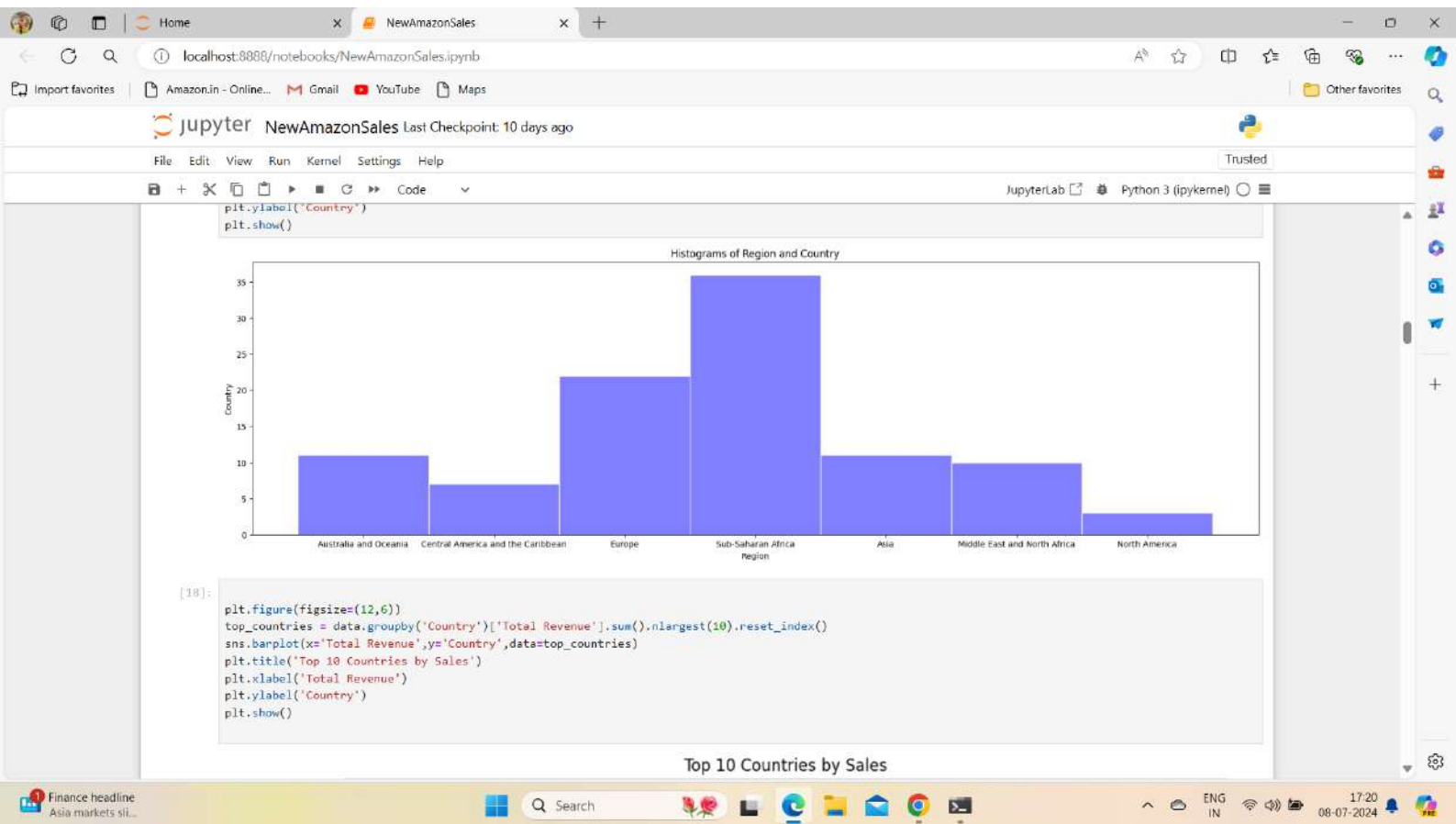
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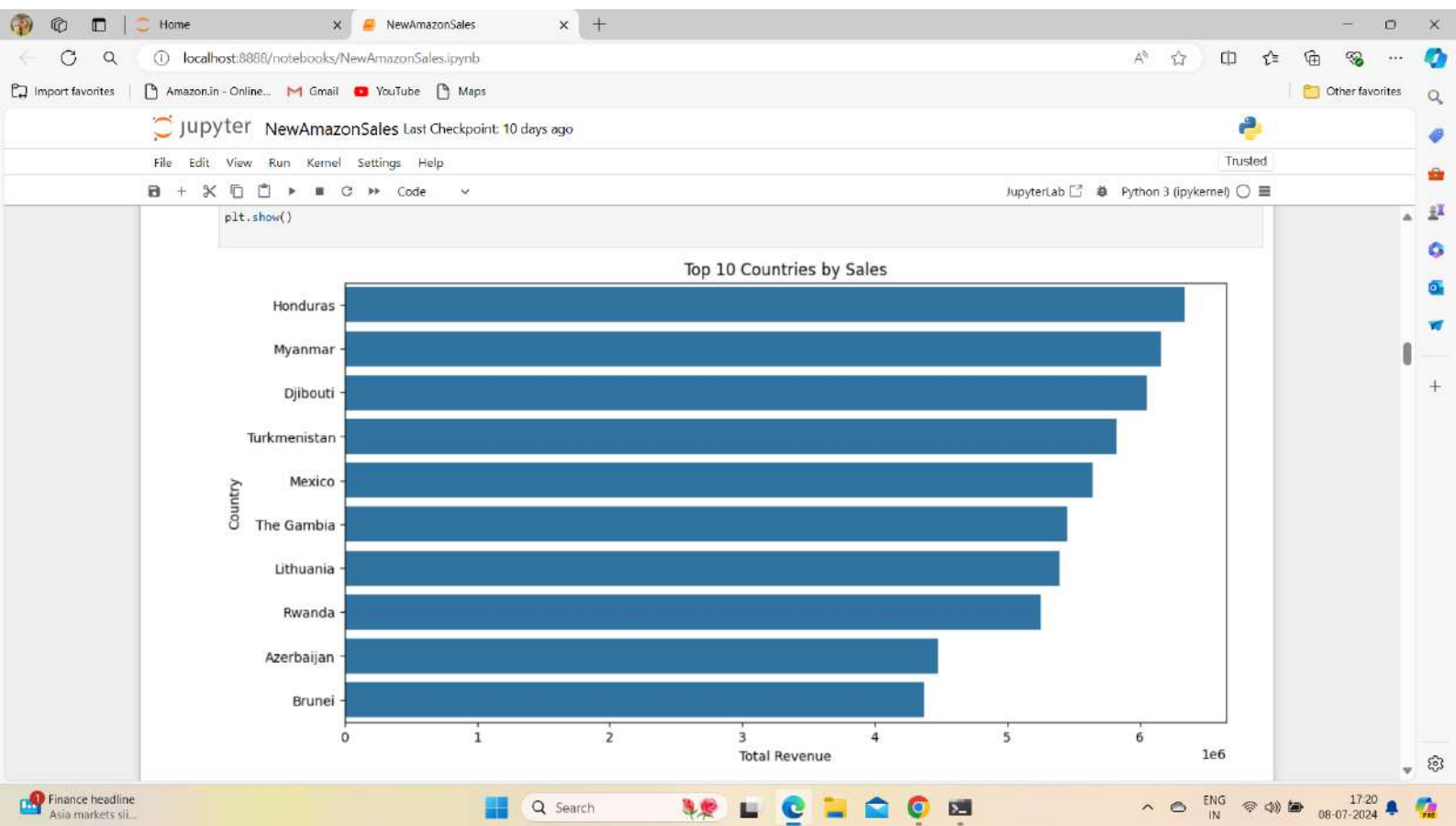
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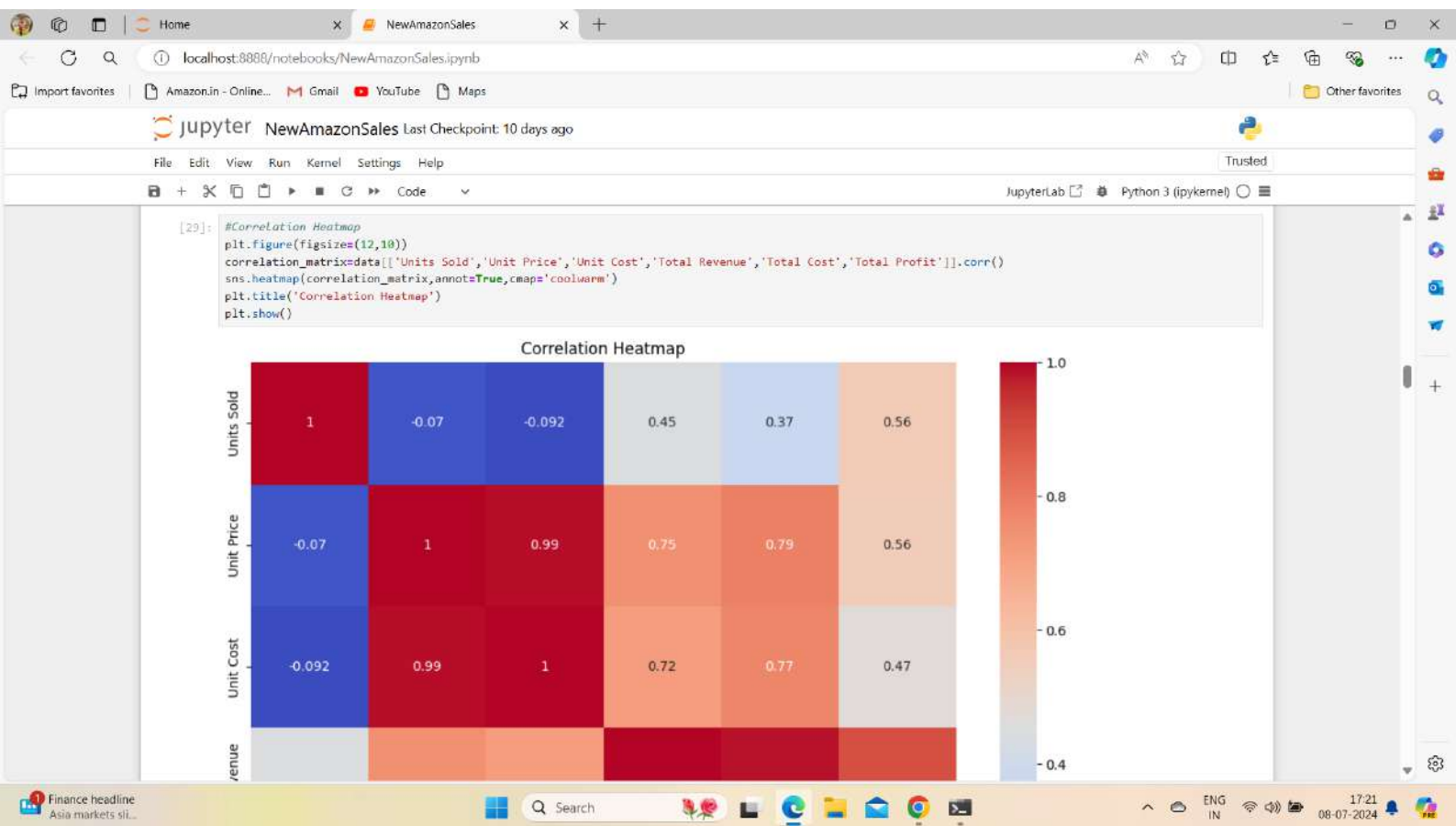
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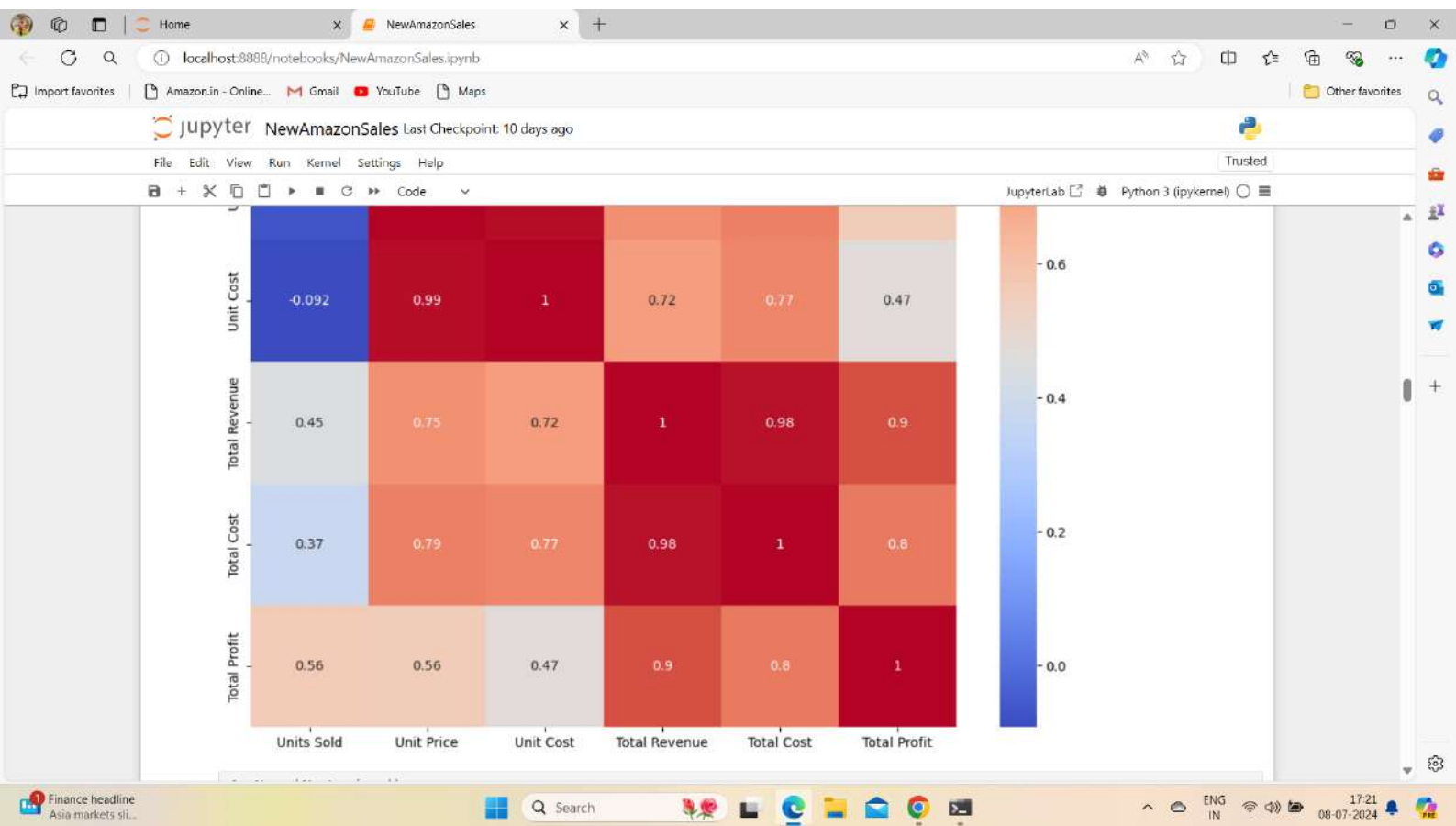


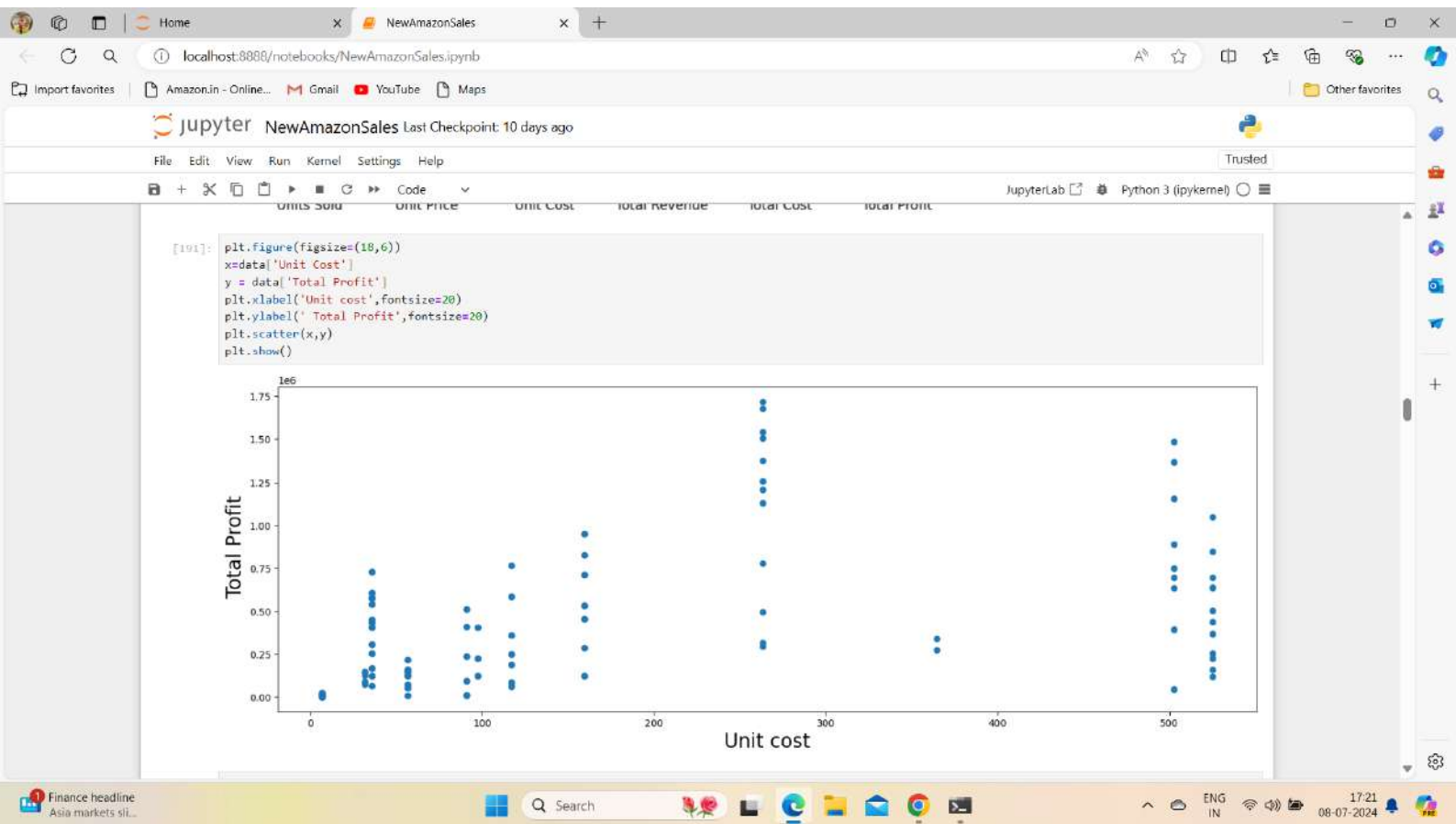












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```
[192]: # Changing the data type of different column for model training and analysis
data['Order Date'] = pd.to_datetime(data['Order Date'])
data['Ship Date'] = pd.to_datetime(data['Ship Date'])

[193]: data['Region'] = data['Region'].astype(str)
data['Country'] = data['Country'].astype(str)
data['Item Type'] = data['Item Type'].astype(str)
data['Sales Channel'] = data['Sales Channel'].astype(str)
data['Order Priority'] = data['Order Priority'].astype(str)

[194]: # Adding extra column to dataframe which contain only month, year and month with year
data['Order Month'] = data['Order Date'].dt.month
data['Order Year'] = data['Order Date'].dt.year
data['Order Date MonthYear'] = data['Order Date'].dt.strftime('%Y-%m')
data = data.drop(columns=['Order Date'])

[195]: # Saving the data dataframe to df
df = data

[196]: # Checking out total null value in the all the column of dataframe
df.isnull().sum()

[196]: Region      0
Country      0
Item Type     0
Sales Channel 0
Order Priority 0
Order ID      0
Ship Date     0
Units Sold    0
Unit Price    0
```

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```
Item Type      0
Sales Channel  0
Order Priority  0
Order ID       0
Ship Date      0
Units Sold     0
Unit Price     0
Unit Cost      0
Total Revenue  0
Total Cost     0
Total Profit   0
Order Month    0
Order Year     0
Order Date MonthYear 0
dtype: int64
```

```
[197]: # Display total values of all country
pd.set_option('display.max_rows', None)
df['Country'].value_counts()
```

```
[197]: Country
The Gambia      4
Sierra Leone   3
Sao Tome and Principe 3
Mexico          3
Australia       3
Djibouti        3
Switzerland     2
Myanmar         2
Norway          2
Turkmenistan    2
Cameroon        2
Bulgaria        2
Honduras        2
Azerbaijan      2
Lithua          2
```

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Norway	2
Turkmenistan	2
Cameroon	2
Bulgaria	2
Honduras	2
Azerbaijan	2
Libya	2
Rwanda	2
Mali	2
Gabon	1
Belize	1
Haiti	1
Lithuania	1
San Marino	1
United Kingdom	1
Austria	1
Fiji	1
Madagascar	1
Cote d'Ivoire	1
Tuvalu	1
Democratic Republic of the Congo	1
Zambia	1
Malaysia	1
Nicaragua	1
Romania	1
Slovenia	1
Kuwait	1
Kenya	1
Iran	1
Pakistan	1
Lebanon	1
Spain	1
Samoa	1
Monaco	1
Laos	1

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```
Iran 1
Pakistan 1
Lebanon 1
Spain 1
Samoa 1
Monaco 1
Laos 1
Saudi Arabia 1
Federated States of Micronesia 1
Slovakia 1
Lesotho 1
Albania 1
Russia 1
Solomon Islands 1
Angola 1
Burkina Faso 1
Republic of the Congo 1
Senegal 1
Kyrgyzstan 1
Cape Verde 1
Bangladesh 1
Mongolia 1
Sri Lanka 1
East Timor 1
Portugal 1
New Zealand 1
Moldova 1
France 1
Kiribati 1
South Sudan 1
Costa Rica 1
Syria 1
Brunei 1
Niger 1
Grenada 1
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