import lib
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
import seaborn as sns
import warnings
warnings.filterwarnings('ignore')

In [3]: # Read csv data

 $sale_data=pd.read_csv(r"C:\Users\DELL\Desktop\unified\ Mentor\Amazon\ sales\ data\Amazon\ sales\ data\Am$

In [4]: sale_data.head(10)

ut[4]:		Region	Country	Item Type	Sales Channel	Order Priority	Order Date	Order ID	Ship Date	Units Sold	Unit Price
	0	Australia and Oceania	Tuvalu	Baby Food	Offline	Н	5/28/2010	669165933	6/27/2010	9925	255.28
	1	Central America and the Caribbean	Grenada	Cereal	Online	C	8/22/2012	963881480	9/15/2012	2804	205.70
	2	Europe	Russia	Office Supplies	Offline	L	5/2/2014	341417157	5/8/2014	1779	651.21
	3	Sub- Saharan Africa	Sao Tome and Principe	Fruits	Online	С	6/20/2014	514321792	7/5/2014	8102	9.33
	4	Sub- Saharan Africa	Rwanda	Office Supplies	Offline	L	2/1/2013	115456712	2/6/2013	5062	651.21
	5	Australia and Oceania	Solomon Islands	Baby Food	Online	С	2/4/2015	547995746	2/21/2015	2974	255.28
	6	Sub- Saharan Africa	Angola	Household	Offline	М	4/23/2011	135425221	4/27/2011	4187	668.27
	7	Sub- Saharan Africa	Burkina Faso	Vegetables	Online	Н	7/17/2012	871543967	7/27/2012	8082	154.06
	8	Sub- Saharan Africa	Republic of the Congo	Personal Care	Offline	М	7/14/2015	770463311	8/25/2015	6070	81.73
	9	Sub- Saharan Africa	Senegal	Cereal	Online	Н	4/18/2014	616607081	5/30/2014	6593	205.70
	4							_			

In [8]: sale_data.tail(10)

24, 11:13 PM				Amazon	sales data F	Project July	2024_Finished-	Copy1					
Out[8]:		Region	Country	Item Type	Sales Channel	Order Priority	Order Date	Order ID	Ship Date	Units Sold			
	90	Sub- Saharan Africa	Sierra Leone	Office Supplies	Offline	Н	12/6/2016	621386563	12/14/2016	948			
	91	Australia and Oceania	Australia	Beverages	Offline	Н	7/7/2014	240470397	7/11/2014	9389			
	92	Middle East and North Africa	Azerbaijan	Office Supplies	Online	М	6/13/2012	423331391	7/24/2012	2021			
	93	Europe	Romania	Cosmetics	Online	Н	11/26/2010	660643374	12/25/2010	7910			
	94	Central America and the Caribbean	Nicaragua	Beverages	Offline	С	2/8/2011	963392674	3/21/2011	8156			
	95	Sub- Saharan Africa	Mali	Clothes	Online	М	7/26/2011	512878119	9/3/2011	888			
	96	Asia	Malaysia	Fruits	Offline	L	11/11/2011	810711038	12/28/2011	6267			
	97	Sub- Saharan Africa	Sierra Leone	Vegetables	Offline	С	6/1/2016	728815257	6/29/2016	1485			
	98	North America	Mexico	Personal Care	Offline	М	7/30/2015	559427106	8/8/2015	5767			
	99	Sub- Saharan Africa	Mozambique	Household	Offline	L	2/10/2012	665095412	2/15/2012	5367			
	4												
In [6]:	sale_data.shape (100, 14)												
Out[6]:													
In [7]:													
Out[7]:	<pre>Index(['Region', 'Country', 'Item Type', 'Sales Channel', 'Order Priority',</pre>												
In [8]:		•	total number ber of rows:	-			number of	columns:	{sale_data	.shape			
	Num	ber of ro	ws: 100 and	number of	columns	: 14							
In [9]:	sa	le_data.i	nfo()										

```
<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		
8	Units Sold	100 non-null	int64		
9	Unit Price	100 non-null	float64		
10	Unit Cost	100 non-null	float64		
11	Total Revenue	100 non-null	float64		
12	Total Cost	100 non-null	float64		
13	Total Profit	100 non-null	float64		
<pre>dtypes: float64(5),</pre>		int64(2), object	(7)		

memory usage: 11.1+ KB

```
In [15]:
         # Check for missing value
          sale_data.isnull().sum()
```

Region 0 Out[15]: Country 0 0 Item Type Sales Channel 0 Order Priority 0 Order Date 0 Order ID 0 Ship Date 0 0 Units Sold Unit Price 0 Unit Cost 0 Total Revenue Total Cost 0 Total Profit

In [10]: # Summary statistics sale_data.describe()

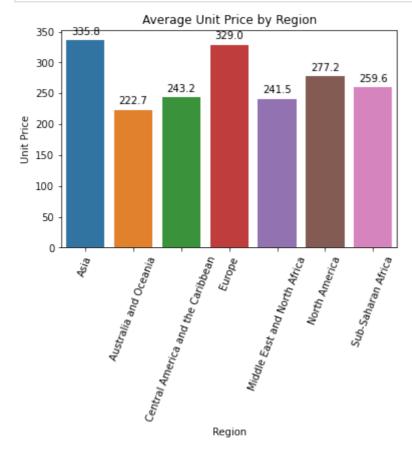
dtype: int64

Out[10]:

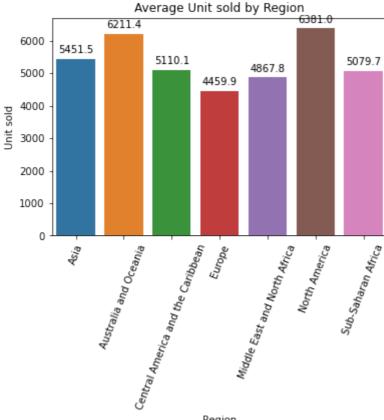
	Order ID	Units Sold	Unit Price	Unit Cost	Total Revenue	Total Cost	Total Profit
count	1.000000e+02	100.000000	100.000000	100.000000	1.000000e+02	1.000000e+02	1.000000e+02
mean	5.550204e+08	5128.710000	276.761300	191.048000	1.373488e+06	9.318057e+05	4.416820e+05
std	2.606153e+08	2794.484562	235.592241	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

```
In [69]:
          sale_data.duplicated()
               False
Out[69]:
         1
               False
         2
               False
         3
               False
         4
               False
         95
               False
         96
               False
         97
               False
         98
               False
         99
               False
         Length: 100, dtype: bool
In [11]:
          sale_data['Item Type'].unique()
         array(['Baby Food', 'Cereal', 'Office Supplies', 'Fruits', 'Household',
Out[11]:
                'Vegetables', 'Personal Care', 'Clothes', 'Cosmetics', 'Beverages',
                'Meat', 'Snacks'], dtype=object)
In [12]:
          sale_data['Country'].unique()
         Out[12]:
                'Republic of the Congo', 'Senegal', 'Kyrgyzstan', 'Cape Verde',
                'Bangladesh', 'Honduras', 'Mongolia', 'Bulgaria', 'Sri Lanka',
                'Cameroon', 'Turkmenistan', 'East Timor', 'Norway', 'Portugal',
                'New Zealand', 'Moldova ', 'France', 'Kiribati', 'Mali',
                'The Gambia', 'Switzerland', 'South Sudan', 'Australia', 'Myanmar',
                'Djibouti', 'Costa Rica', 'Syria', 'Brunei', 'Niger', 'Azerbaijan',
                'Slovakia', 'Comoros', 'Iceland', 'Macedonia', 'Mauritania',
                'Albania', 'Lesotho', 'Saudi Arabia', 'Sierra Leone',
                "Cote d'Ivoire", 'Fiji', 'Austria', 'United Kingdom', 'San Marino',
                'Libya', 'Haiti', 'Gabon', 'Belize', 'Lithuania', 'Madagascar',
                'Democratic Republic of the Congo', 'Pakistan', 'Mexico',
                'Federated States of Micronesia', 'Laos', 'Monaco', 'Samoa',
                'Spain', 'Lebanon', 'Iran', 'Zambia', 'Kenya', 'Kuwait',
                'Slovenia', 'Romania', 'Nicaragua', 'Malaysia', 'Mozambique'],
               dtype=object)
In [14]:
          # check profit margin
          sale_data['Profit Margin'] = (sale_data['Total Profit'] / sale_data['Total Revenue']
In [15]:
          profit_margin_head = sale_data['Profit Margin'].head(10)
In [16]:
          print("profit margin :",profit_margin_head)
         profit margin : 0
                             37.550924
         1
             43.067574
         2
              19.386987
         3
              25.830654
         4
             19.386987
         5
              37.550924
         6
              24.799856
         7
              40.977541
         8
              30.661936
```

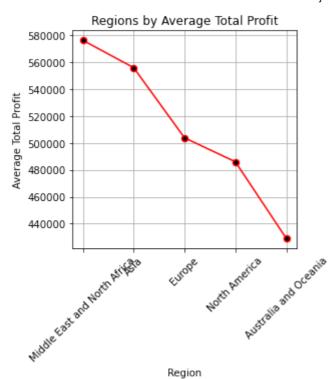
```
43.067574
         Name: Profit Margin, dtype: float64
In [17]:
          # convert order date and ship date
          sale_data['Order Date'] = pd.to_datetime(sale_data['Order Date'])
          sale_data['Ship Date'] = pd.to_datetime(sale_data['Ship Date'])
In [18]:
          sale_data['Order Date'].dtype
         dtype('<M8[ns]')</pre>
Out[18]:
In [19]:
          #Average Unit Price by Region
          Avg_unit_price_by_region = sale_data.groupby ('Region') ['Unit Price'].mean()
          print(Avg_unit_price_by_region)
         Region
                                               335.809091
         Asia
         Australia and Oceania
                                               222.672727
         Central America and the Caribbean
                                               243.172857
                                               328.979545
         Europe
         Middle East and North Africa
                                               241.506000
         North America
                                               277,243333
         Sub-Saharan Africa
                                               259.618889
         Name: Unit Price, dtype: float64
In [20]:
          #Average Unit Cost by Region
          Avg_unit_cost_by_region = sale_data.groupby ('Region') ['Unit Cost'].mean()
          print(Avg_unit_cost_by_region)
         Region
                                               239.587273
         Asia
         Australia and Oceania
                                               154.744545
         Central America and the Caribbean
                                               157.817143
         Europe
                                               223,166364
         Middle East and North Africa
                                               152.450000
         North America
                                               205.293333
         Sub-Saharan Africa
                                               183.677500
         Name: Unit Cost, dtype: float64
In [21]:
          #Average Unit Cost by Region
          Avg unit sold by region = sale data.groupby ('Region') ['Units Sold'].mean()
          print(Avg_unit_sold_by_region)
         Region
                                               5451.545455
         Asia
         Australia and Oceania
                                               6211.363636
         Central America and the Caribbean
                                               5110.142857
                                               4459.863636
         Middle East and North Africa
                                               4867.800000
         North America
                                               6381.000000
         Sub-Saharan Africa
                                               5079.722222
         Name: Units Sold, dtype: float64
In [23]:
          #Bar graph for unit price by region
          import matplotlib.pyplot as plt
          import seaborn as sns
          ax = sns.barplot(x = 'Region', y = 'Unit Price', data =Avg_unit_price_by_region.rese
          plt.xlabel('Region')
```



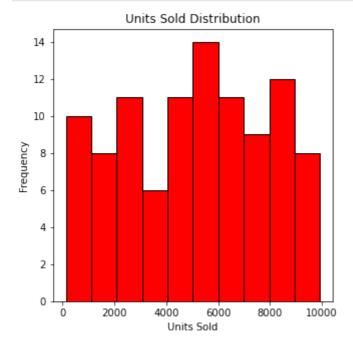
```
In [64]:
          #Bar graph for unit price by region
          import matplotlib.pyplot as plt
          import seaborn as sns
          ax = sns.barplot(x = 'Region', y = 'Units Sold', data =Avg_unit_sold_by_region.reset)
          plt.xlabel('Region')
          plt.ylabel('Unit sold')
          plt.title('Average Unit sold by Region')
          for p in ax.patches:
              ax.annotate(format(p.get_height(), '.1f'),
                           (p.get_x() + p.get_width() / 2, p.get_height()),
                           ha='center', va='center',
                           xytext=(0, 9),
                           textcoords='offset points')
          plt.xticks(rotation=69)
          plt.show()
```



```
Region
In [24]:
          avg_total_profit_by_region = sale_data.groupby('Region')['Total Profit'].mean()
          avg_total_profit_by_region
         Region
Out[24]:
         Asia
                                               555804.170000
         Australia and Oceania
                                               429287.275455
         Central America and the Caribbean
                                               406701.121429
         Europe
                                               503769.937727
         Middle East and North Africa
                                               576119.186000
         North America
                                               485980.920000
                                               338422.538889
         Sub-Saharan Africa
         Name: Total Profit, dtype: float64
In [25]:
          # Regions by Average Total Profit
          regions = avg_total_profit_by_region.nlargest()
          plt.figure(figsize=(4, 4))
          regions.plot(kind='line', color='r', marker='o', markerfacecolor='black', markeredge
          plt.xlabel('Region')
          plt.ylabel('Average Total Profit')
          plt.title('Regions by Average Total Profit')
          plt.xticks(rotation=45)
          plt.grid(True)
          plt.show()
```

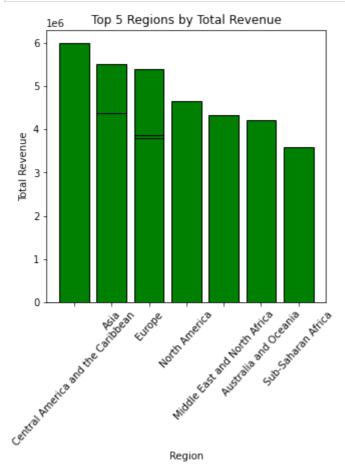


```
plt.figure(figsize=(5, 5))
# Create a histogram of Units Sold
plt.hist(sale_data['Units Sold'], color='r',edgecolor='black', bins=10)
# Labeling and title
plt.xlabel('Units Sold')
plt.ylabel('Frequency')
plt.title('Units Sold Distribution')
# Show the plot
plt.show()
```



```
import numpy as np
sorted_sale_data = sale_data.sort_values(by='Total Revenue', ascending=False)
total_revenue = sorted_sale_data['Total Revenue'].head(10)
colors = plt.cm.Reds(np.linspace(0.2, 1, len(total_revenue)))
plt.figure(figsize=(5, 5))
plt.bar(sorted_sale_data['Region'].head(10), total_revenue, color='g', edgecolor='bl
plt.xlabel('Region')
```

```
plt.ylabel('Total Revenue')
plt.title('Top 5 Regions by Total Revenue')
plt.xticks(rotation=48)
plt.show()
```



In [79]:

sale_data.head

Offline

99

Out[79]:

<bd< th=""><th>ound method NDF</th><th>rame.head of</th><th>Re</th><th>gion</th><th>Co</th></bd<>	ound method NDF	rame.head of	Re	gion	Co
unt	try Item	Type \			
0	Α	ustralia and Oceania	Tuvalu	Baby Food	
1	Central Ameri	ca and the Caribbean	Grenada	Cereal	
2		Europe	Russia C	ffice Supplies	
3		Sub-Saharan Africa Sac	Tome and Principe	Fruits	
4		Sub-Saharan Africa	Rwanda C	ffice Supplies	
		•••	• • •		
95		Sub-Saharan Africa	Mali	Clothes	
96		Asia	Malaysia	Fruits	
97		Sub-Saharan Africa	Sierra Leone	Vegetables	
98		North America	Mexico	Personal Care	
99		Sub-Saharan Africa	Mozambique	Household	
	Sales Channel	Order Priority Order Date	e Order ID Ship Dat	e Units Sold	\
0	Offline	H 2010-05-28	3 669165933 2010-06-2	7 9925	
1	Online	C 2012-08-22	963881480 2012-09-1	5 2804	
2	Offline	L 2014-05-02	341417157 2014-05-0	8 1779	
3	Online	C 2014-06-20	514321792 2014-07-0	5 8102	
4	Offline	L 2013-02-01	115456712 2013-02-0	6 5062	
	• • •	•••			
95	Online	M 2011-07-26	5 512878119 2011-09-0	3 888	
96	Offline	L 2011-11-11	810711038 2011-12-2	8 6267	
97	Offline	C 2016-06-01	728815257 2016-06-2	9 1485	
98	Offline	M 2015-07-30	559427106 2015-08-0	8 5767	

L 2012-02-10 665095412 2012-02-15

5367

```
Amazon sales data Project July 2024 Finished-Copy1
   Unit Price Unit Cost Total Revenue Total Cost Total Profit \
0
                           2533654.00 1582243.50
       255.28 159.42
                                                     951410.50
1
       205.70
                 117.11
                            576782.80 328376.44
                                                     248406.36
2
       651.21
                524.96
                            1158502.59 933903.84
                                                    224598.75
                            75591.66 56065.84
3
        9.33
                  6.92
                                                     19525.82
                            3296425.02 2657347.52
4
       651.21
                  524.96
                                                     639077.50
       109.28
                 35.84
                            97040.64
                                       31825.92
                                                     65214.72
95
96
        9.33
                  6.92
                            58471.11
                                       43367.64
                                                     15103.47
97
       154.06
                 90.93
                            228779.10 135031.05
                                                      93748.05
98
        81.73
                  56.67
                            471336.91
                                       326815.89
                                                     144521.02
99
       668.27
                  502.54
                            3586605.09 2697132.18
                                                     889472.91
   Profit Margin
       37.550924
0
       43.067574
1
2
       19.386987
3
       25.830654
4
       19.386987
95
       67.203514
96
       25.830654
97
       40.977541
98
       30.661936
99
       24.799856
[100 rows x 15 columns]>
sale data.head()
```

In [10]:

Out[10]:

	Region	Country	Item Type	Sales Channel	Order Priority	Order Date	Order ID	Ship Date	Units Sold	Unit Price	
0	Australia and Oceania	Tuvalu	Baby Food	Offline	Н	5/28/2010	669165933	6/27/2010	9925	255.28	1
1	Central America and the Caribbean	Grenada	Cereal	Online	С	8/22/2012	963881480	9/15/2012	2804	205.70	1
2	Europe	Russia	Office Supplies	Offline	L	5/2/2014	341417157	5/8/2014	1779	651.21	5
3	Sub- Saharan Africa	Sao Tome and Principe	Fruits	Online	С	6/20/2014	514321792	7/5/2014	8102	9.33	
4	Sub- Saharan Africa	Rwanda	Office Supplies	Offline	L	2/1/2013	115456712	2/6/2013	5062	651.21	5

In [27]:

```
pivot table = pd.pivot table(sale data,
                             values=['Total Revenue', 'Total Cost', 'Total Profit'],
                             index='Region',
                             aggfunc='sum')
print(pivot_table)
```

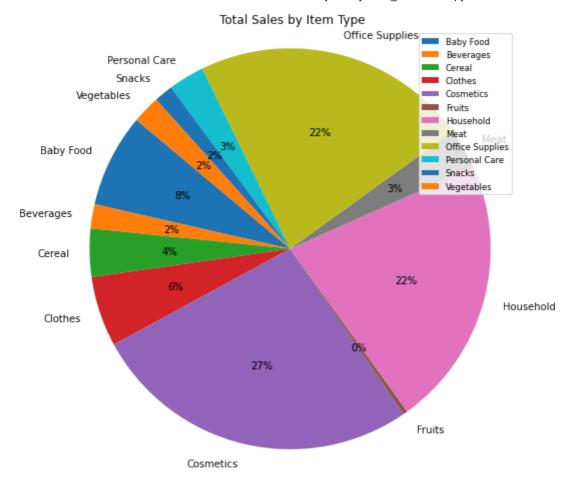
Total Cost Total Profit Total Revenue

```
Asia
                                15233245.15 6113845.87
                                                           21347091.02
                                                           14094265.13
Australia and Oceania
                                 9372105.10 4722160.03
                                6323477.64 2846907.85
Central America and the Caribbean
                                                           9170385.49
Europe
                                22285993.48 11082938.63
                                                           33368932.11
                                             5761191.86
Middle East and North Africa
                                                           14052706.58
                                8291514.72
North America
                                 4185413.79
                                              1457942.76
                                                           5643356.55
Sub-Saharan Africa
                                             12183211.40
                                27488820.03
                                                           39672031.43
```

```
Unit Cost Unit Price Units Sold
Region
                                    2635.46
                                                3693.90
                                                              59967
Asia
Australia and Oceania
                                    1702.19
                                                2449.40
                                                              68325
Central America and the Caribbean
                                    1104.72
                                                1702.21
                                                              35771
Europe
                                    4909.66
                                                7237.55
                                                             98117
Middle East and North Africa
                                    1524.50
                                                             48678
                                                2415.06
North America
                                                             19143
                                     615.88
                                                831.73
Sub-Saharan Africa
                                    6612.39
                                                9346.28
                                                             182870
```

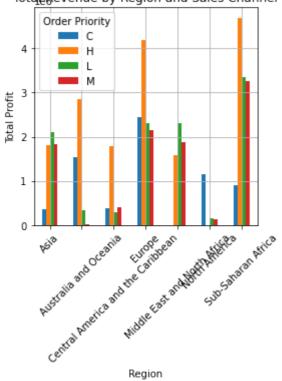
```
Sales Channel
                 Offline Online
Item Type
Baby Food
                     3.0
                             4.0
                     6.0
                             2.0
Beverages
Cereal
                             4.0
                     3.0
Clothes
                     6.0
                             7.0
                    7.0
                             6.0
Cosmetics
                     2.0
                             8.0
Fruits
Household
                     8.0
                             1.0
Meat
                     NaN
                             2.0
Office Supplies
                             6.0
                     6.0
Personal Care
                     7.0
                             3.0
                             3.0
Snacks
                     NaN
Vegetables
                     2.0
                             4.0
```

```
In [36]:
    total_sales_by_item = sale_data.groupby('Item Type')['Total Revenue'].sum()
    plt.figure(figsize=(8,8))
    plt.pie(total_sales_by_item, labels=total_sales_by_item.index, autopct='%0.0f%%', st
    plt.title('Total Sales by Item Type')
    plt.legend(loc='upper right',fontsize='small')
    plt.axis('equal')
    plt.show()
```

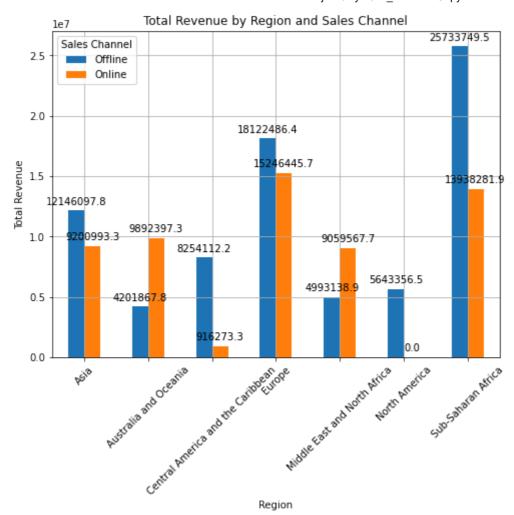


```
In [37]:
    pivot_table = sale_data.pivot_table(values='Total Profit', index='Region', columns='
    pivot_table.plot(kind='bar', figsize=(4, 4))
    plt.xlabel('Region')
    plt.ylabel('Total Profit')
    plt.title('Total Revenue by Region and Sales Channel')
    plt.xticks(rotation=45)
    plt.legend(title='Order Priority')
    plt.grid()
    plt.show()
```





In [38]: pivot_table = sale_data.pivot_table(values='Total Revenue', index='Region', columns= ax = pivot_table.plot(kind='bar', figsize=(8, 6)) plt.xlabel('Region') plt.ylabel('Total Revenue') plt.title('Total Revenue by Region and Sales Channel') plt.xticks(rotation=45) plt.legend(title='Sales Channel') plt.grid(True) # Add data LabeLs for p in ax.patches: ax.annotate(format(p.get_height(), '.1f'), (p.get_x() + p.get_width() / 2., p.get_height()), ha='center', va='center', xytext=(0, 9),textcoords='offset points') plt.show()



In [39]: sale_data.head(5)

Out[39]:

	Region	Country	Item Type	Sales Channel	Order Priority	Order Date	Order ID	Ship Date	Units Sold	Unit Price	Unit Cost	
0	Australia and Oceania	Tuvalu	Baby Food	Offline	Н	2010- 05-28	669165933	2010- 06-27	9925	255.28	159.42	2
1	Central America and the Caribbean	Grenada	Cereal	Online	С	2012- 08-22	963881480	2012- 09-15	2804	205.70	117.11	
2	Europe	Russia	Office Supplies	Offline	L	2014- 05-02	341417157	2014- 05-08	1779	651.21	524.96	1
3	Sub- Saharan Africa	Sao Tome and Principe	Fruits	Online	С	2014- 06-20	514321792	2014- 07-05	8102	9.33	6.92	
4	Sub- Saharan Africa	Rwanda	Office Supplies	Offline	L	2013- 02-01	115456712	2013- 02-06	5062	651.21	524.96	

```
In [41]:
    df=sale_data
    df['Ship Date']=pd.to_datetime(df['Ship Date'])
```

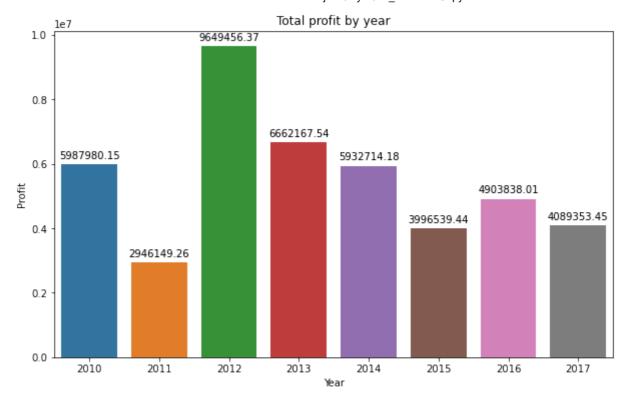
```
df['Year']=df['Ship Date'].dt.year
df[['Ship Date','Year']].head(10)
```

```
Out[41]:
              Ship Date Year
          0 2010-06-27 2010
            2012-09-15 2012
          2 2014-05-08 2014
            2014-07-05 2014
          4 2013-02-06 2013
            2015-02-21 2015
            2011-04-27 2011
            2012-07-27 2012
            2015-08-25 2015
            2014-05-30 2014
In [42]:
           df['month']=df['Ship Date'].dt.strftime("%B")
           df[['Ship Date','month']].head(10)
Out[42]:
              Ship Date
                           month
          0 2010-06-27
                             June
          1 2012-09-15 September
          2 2014-05-08
                             May
          3 2014-07-05
                             July
            2013-02-06
                         February
            2015-02-21
                          February
          6 2011-04-27
                             April
            2012-07-27
                             July
          8 2015-08-25
                           August
          9 2014-05-30
                             May
In [43]:
           Total_Profit_per_year=df.groupby(df['Year'])['Total Profit'].sum()
           Total_Profit_per_year
          Year
Out[43]:
                  5987980.15
          2010
          2011
                  2946149.26
          2012
                  9649456.37
          2013
                  6662167.54
          2014
                  5932714.18
          2015
                  3996539.44
          2016
                  4903838.01
                  4089353.45
          2017
          Name: Total Profit, dtype: float64
```

plt.show()

```
In [44]:
          profit_df=Total_Profit_per_year.reset_index()
          profit_df.columns=['Year', 'Total Profit']
          profit_df
```

```
Out[44]:
             Year Total Profit
          0 2010
                  5987980.15
          1 2011 2946149.26
          2 2012 9649456.37
          3 2013 6662167.54
          4 2014 5932714.18
          5 2015 3996539.44
          6 2016 4903838.01
          7 2017 4089353.45
In [45]:
          import seaborn as sns
          import matplotlib.pyplot as plt
          plt.figure(figsize=(10, 6))
          ax = sns.barplot(x='Year', y='Total Profit', data=profit_df)
          plt.xlabel('Year')
          plt.ylabel('Profit')
          plt.title("Total profit by year")
          for p in ax.patches:
               ax.annotate(format(p.get_height(),'.2f'),
                           (p.get_x()+p.get_width()/2,p.get_height()),
                           ha='center', va='center',
                           xytext=(0,9),
                             textcoords='offset points') #This specifies that the coordinates g
```



In [49]: df.to_excel(r'C:\Users\DELL\Desktop\unified Mentor\Amazon sales data\Amazon Sales da

File "C:\Users\DELL\AppData\Local\Temp/ipykernel_4772/2394076817.py", line 1
 df.to_excel(r'C:\Users\DELL\Desktop\unified Mentor\Amazon sales data\Amazon Sales
data.csv")'', index=False)

SyntaxError: EOL while scanning string literal

In [47]: pip install openpyxl

Requirement already satisfied: openpyxl in g:\anaconda\lib\site-packages (3.0.9)
Requirement already satisfied: et-xmlfile in g:\anaconda\lib\site-packages (from open pyxl) (1.1.0)

Note: you may need to restart the kernel to use updated packages.

In []: