

In [1]:

```
import pandas as pd  
import numpy as np
```

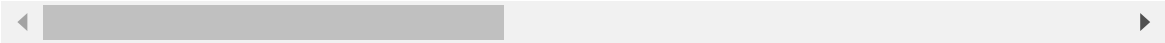
In [3]:

```
df = pd.read_csv("Sample - Superstore.csv", encoding='cp1252')
df
```

Out[3]:

	Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Cc
0	1	CA-2016-152156	11/8/2016	11/11/2016	Second Class	CG-12520	Claire Gute	Consumer	
1	2	CA-2016-152156	11/8/2016	11/11/2016	Second Class	CG-12520	Claire Gute	Consumer	
2	3	CA-2016-138688	6/12/2016	6/16/2016	Second Class	DV-13045	Darrin Van Huff	Corporate	
3	4	US-2015-108966	10/11/2015	10/18/2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	
4	5	US-2015-108966	10/11/2015	10/18/2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	
...
9989	9990	CA-2014-110422	1/21/2014	1/23/2014	Second Class	TB-21400	Tom Boeckenhauer	Consumer	
9990	9991	CA-2017-121258	2/26/2017	3/3/2017	Standard Class	DB-13060	Dave Brooks	Consumer	
9991	9992	CA-2017-121258	2/26/2017	3/3/2017	Standard Class	DB-13060	Dave Brooks	Consumer	
9992	9993	CA-2017-121258	2/26/2017	3/3/2017	Standard Class	DB-13060	Dave Brooks	Consumer	
9993	9994	CA-2017-119914	5/4/2017	5/9/2017	Second Class	CC-12220	Chris Cortes	Consumer	

9994 rows × 21 columns



In [4]:

```
df.shape
```

Out[4]:

```
(9994, 21)
```

In [5]:

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 9994 entries, 0 to 9993
Data columns (total 21 columns):
 #   Column                Non-Null Count  Dtype  
---  -
 0   Row ID                9994 non-null  int64  
 1   Order ID              9994 non-null  object  
 2   Order Date            9994 non-null  object  
 3   Ship Date              9994 non-null  object  
 4   Ship Mode              9994 non-null  object  
 5   Customer ID           9994 non-null  object  
 6   Customer Name          9994 non-null  object  
 7   Segment                9994 non-null  object  
 8   Country                9994 non-null  object  
 9   City                   9994 non-null  object  
10   State                  9994 non-null  object  
11   Postal Code            9994 non-null  int64  
12   Region                 9994 non-null  object  
13   Product ID             9994 non-null  object  
14   Category                9994 non-null  object  
15   Sub-Category           9994 non-null  object  
16   Product Name           9994 non-null  object  
17   Sales                   9994 non-null  float64 
18   Quantity                9994 non-null  int64  
19   Discount                9994 non-null  float64 
20   Profit                  9994 non-null  float64 
dtypes: float64(3), int64(3), object(15)
memory usage: 1.6+ MB
```

In [6]:

```
df.columns
```

Out[6]:

```
Index(['Row ID', 'Order ID', 'Order Date', 'Ship Date', 'Ship Mode',
       'Customer ID', 'Customer Name', 'Segment', 'Country', 'City', 'State',
       'Postal Code', 'Region', 'Product ID', 'Category', 'Sub-Category',
       'Product Name', 'Sales', 'Quantity', 'Discount', 'Profit'],
      dtype='object')
```

In [7]:

```
df.describe()
```

Out[7]:

	Row ID	Postal Code	Sales	Quantity	Discount	Profit
count	9994.000000	9994.000000	9994.000000	9994.000000	9994.000000	9994.000000
mean	4997.500000	55190.379428	229.858001	3.789574	0.156203	28.656896
std	2885.163629	32063.693350	623.245101	2.225110	0.206452	234.260108
min	1.000000	1040.000000	0.444000	1.000000	0.000000	-6599.978000
25%	2499.250000	23223.000000	17.280000	2.000000	0.000000	1.728750
50%	4997.500000	56430.500000	54.490000	3.000000	0.200000	8.666500
75%	7495.750000	90008.000000	209.940000	5.000000	0.200000	29.364000
max	9994.000000	99301.000000	22638.480000	14.000000	0.800000	8399.976000

In [8]:

```
df.isna().sum()
```

Out[8]:

```

Row ID      0
Order ID    0
Order Date  0
Ship Date   0
Ship Mode   0
Customer ID  0
Customer Name  0
Segment     0
Country     0
City        0
State       0
Postal Code  0
Region      0
Product ID  0
Category    0
Sub-Category  0
Product Name  0
Sales       0
Quantity    0
Discount    0
Profit      0
dtype: int64

```

In [9]:

```
df.duplicated().sum()
```

Out[9]:

0

In [10]:

```
df_cat = df[['Ship Mode', 'Customer ID', 'Customer Name',
             'Segment', 'Country', 'City', 'State', 'Region',
             'Product ID', 'Category', 'Sub-Category', 'Product Name']]
```

In [11]:

```
df_cat.head()
```

Out[11]:

	Ship Mode	Customer ID	Customer Name	Segment	Country	City	State	Region	Product ID
0	Second Class	CG-12520	Claire Gute	Consumer	United States	Henderson	Kentucky	South	FUR-BK1000179
1	Second Class	CG-12520	Claire Gute	Consumer	United States	Henderson	Kentucky	South	FUR-CI1000049
2	Second Class	DV-13045	Darrin Van Huff	Corporate	United States	Los Angeles	California	West	OFF-L1000029
3	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale	Florida	South	FUR-T1000059
4	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale	Florida	South	OFF-S1000079

In [12]:

```
for feature in df_cat.columns:
    print(feature,':',df[feature].nunique())
```

```
Ship Mode : 4
Customer ID : 793
Customer Name : 793
Segment : 3
Country : 1
City : 531
State : 49
Region : 4
Product ID : 1862
Category : 3
Sub-Category : 17
Product Name : 1850
```

In [13]:

```
df['Order Date'].nunique()
```

Out[13]:

1237

In [14]:

```
df['Ship Date'].nunique()
```

Out[14]:

1334

In [15]:

```
df.head()
```

Out[15]:

	Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Country
0	1	CA-2016-152156	11/8/2016	11/11/2016	Second Class	CG-12520	Claire Gute	Consumer	United States
1	2	CA-2016-152156	11/8/2016	11/11/2016	Second Class	CG-12520	Claire Gute	Consumer	United States
2	3	CA-2016-138688	6/12/2016	6/16/2016	Second Class	DV-13045	Darrin Van Huff	Corporate	United States
3	4	US-2015-108966	10/11/2015	10/18/2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States
4	5	US-2015-108966	10/11/2015	10/18/2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States

5 rows × 21 columns



In [16]:

df.tail()

Out[16]:

	Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Cou
9989	9990	CA-2014-110422	1/21/2014	1/23/2014	Second Class	TB-21400	Tom Boeckenhauer	Consumer	Un St
9990	9991	CA-2017-121258	2/26/2017	3/3/2017	Standard Class	DB-13060	Dave Brooks	Consumer	Un St
9991	9992	CA-2017-121258	2/26/2017	3/3/2017	Standard Class	DB-13060	Dave Brooks	Consumer	Un St
9992	9993	CA-2017-121258	2/26/2017	3/3/2017	Standard Class	DB-13060	Dave Brooks	Consumer	Un St
9993	9994	CA-2017-119914	5/4/2017	5/9/2017	Second Class	CC-12220	Chris Cortes	Consumer	Un St

5 rows × 21 columns

In [17]:

```
product_group = df.groupby(["Product Name"]).sum()["Sales"]
product_group.head()
```

Out[17]:

```
Product Name
"While you Were Out" Message Book, One Form per Page    25.228
#10 Gummed Flap White Envelopes, 100/Box                41.300
#10 Self-Seal White Envelopes                          108.682
#10 White Business Envelopes,4 1/8 x 9 1/2              488.904
#10- 4 1/8" x 9 1/2" Recycled Envelopes                286.672
Name: Sales, dtype: float64
```

In [18]:

```
top_selling_products = product_group.sort_values(ascending=False)
top_5_selling_products = pd.DataFrame(top_selling_products.head())
top_5_selling_products
```

Out[18]:

	Sales
Product Name	
Canon imageCLASS 2200 Advanced Copier	61599.824
Fellowes PB500 Electric Punch Plastic Comb Binding Machine with Manual Bind	27453.384
Cisco TelePresence System EX90 Videoconferencing Unit	22638.480
HON 5400 Series Task Chairs for Big and Tall	21870.576
GBC DocuBind TL300 Electric Binding System	19823.479

In [19]:

```
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline
```

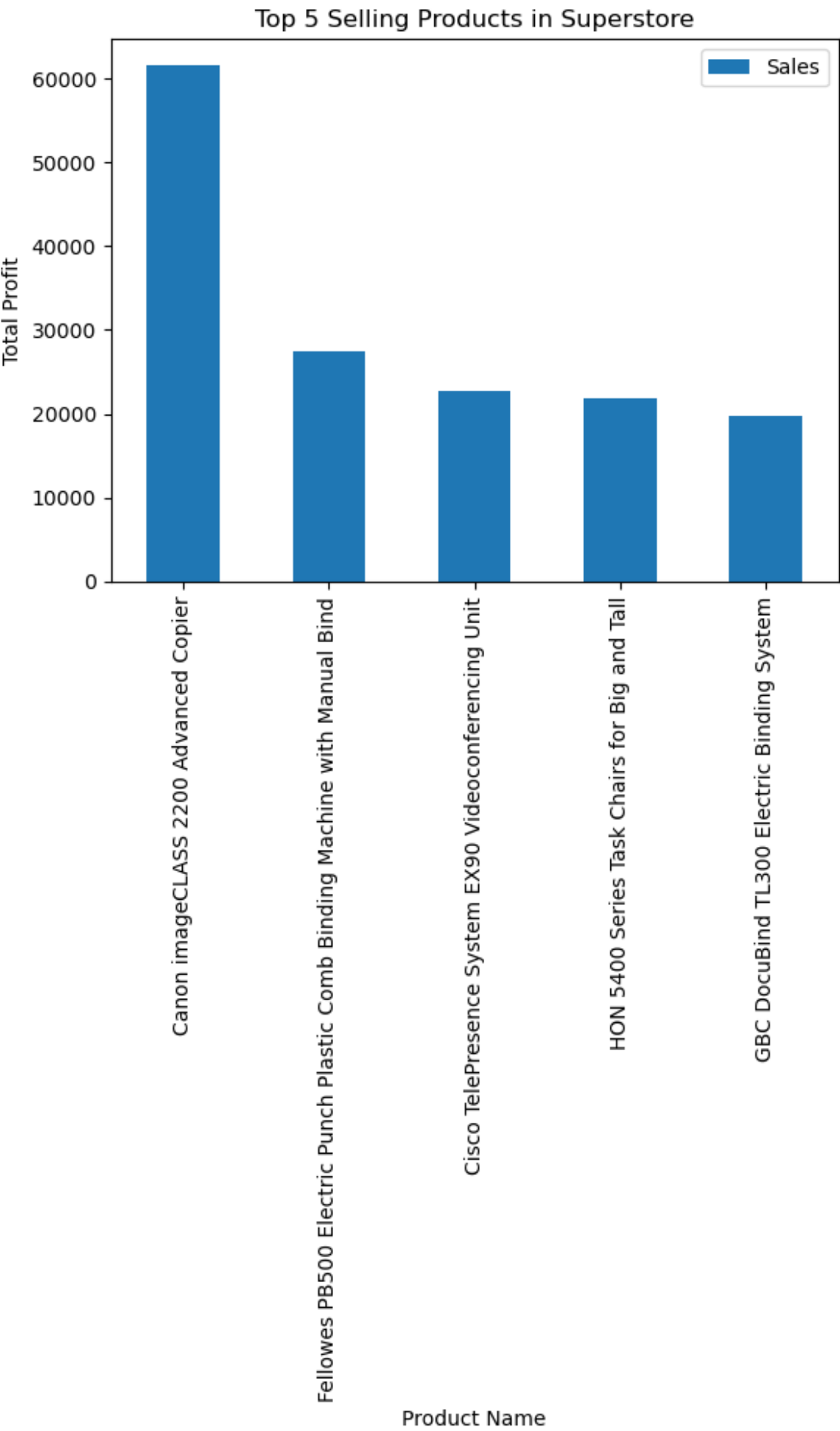

In [20]:

```
top_5_selling_products.plot(kind="bar")

# Add a title to the plot
plt.title("Top 5 Selling Products in Superstore")

# Add labels to the x and y axes
plt.xlabel("Product Name")
plt.ylabel("Total Profit")

# Show the plot
plt.show()
```



In [21]:

```
product_group = df.groupby(["Product Name"]).sum()["Profit"]

top_profit_products = product_group.sort_values(ascending=False)

top_5_profit_products =pd.DataFrame(top_profit_products[:5])
top_5_profit_products
```

Out[21]:

	Profit
Product Name	
Canon imageCLASS 2200 Advanced Copier	25199.9280
Fellowes PB500 Electric Punch Plastic Comb Binding Machine with Manual Bind	7753.0390
Hewlett Packard LaserJet 3310 Copier	6983.8836
Canon PC1060 Personal Laser Copier	4570.9347
HP Designjet T520 Inkjet Large Format Printer - 24" Color	4094.9766

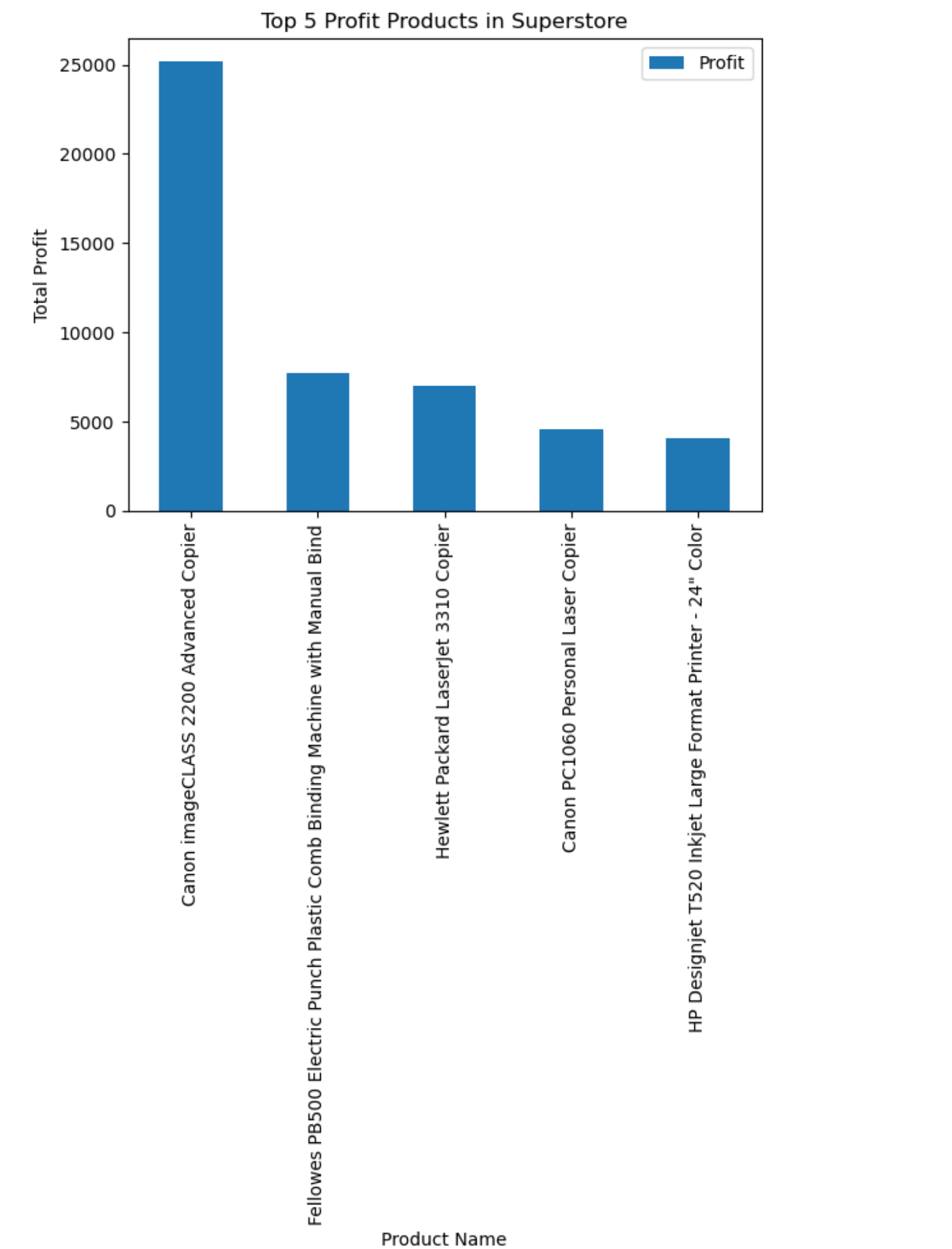
In [22]:

```
top_5_profit_products.plot(kind="bar")

plt.title("Top 5 Profit Products in Superstore")

plt.xlabel("Product Name")
plt.ylabel("Total Profit")

plt.show()
```



In [23]:

```
top_5_profit_products.index == top_5_selling_products.index
```

Out[23]:

```
array([ True,  True, False, False, False])
```

In [24]:

```
fig, (ax1, ax2) = plt.subplots(1, 2, figsize=(15,5))

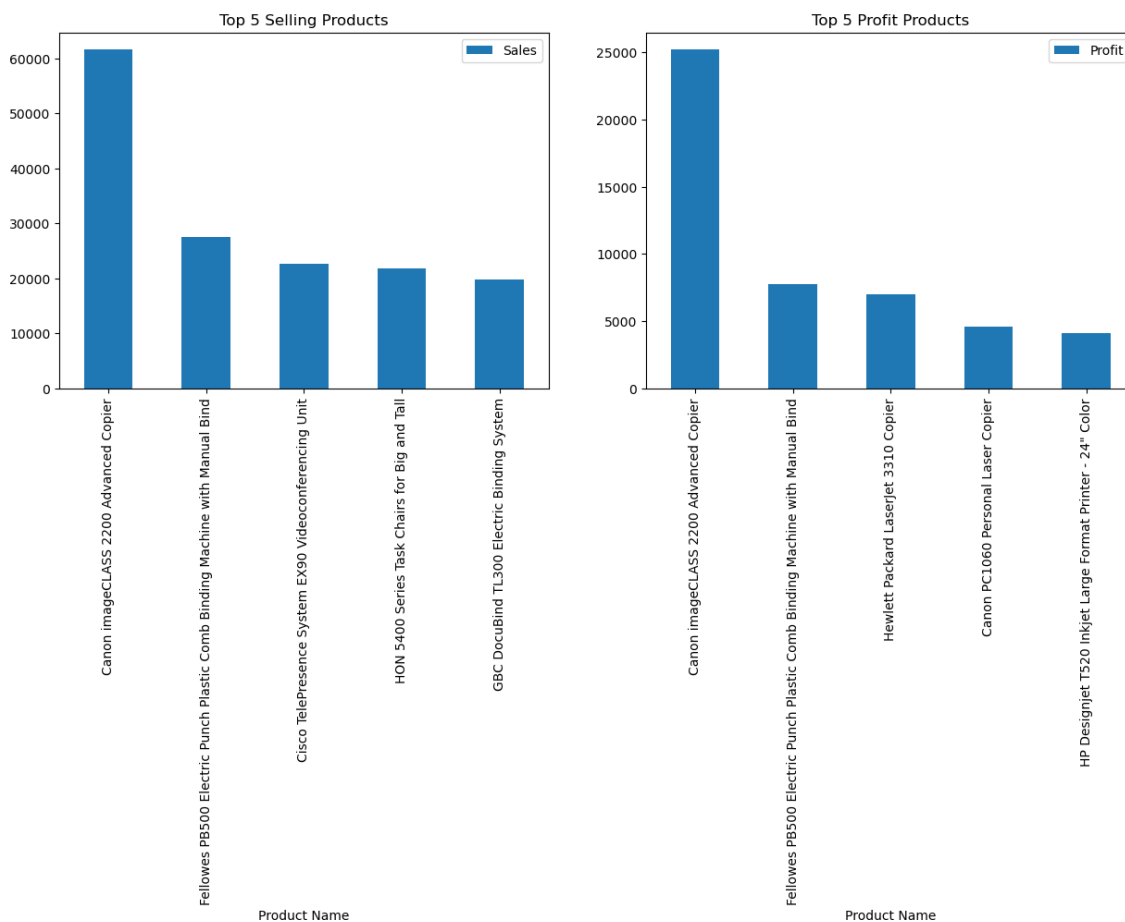
# Plot the top 5 selling products in the first column
top_5_selling_products.plot(kind="bar", y="Sales", ax=ax1)

# Set the title for the first plot
ax1.set_title("Top 5 Selling Products")

# Plot the top 5 profit products in the second column
top_5_profit_products.plot(kind="bar", y="Profit", ax=ax2)

# Set the title for the second plot
ax2.set_title("Top 5 Profit Products")

# Show the plot
plt.show()
```



In [25]:

```
list(top_5_profit_products.index)
```

Out[25]:

```
['Canon imageCLASS 2200 Advanced Copier',  
 'Fellowes PB500 Electric Punch Plastic Comb Binding Machine with Manual B  
ind',  
 'Hewlett Packard LaserJet 3310 Copier',  
 'Canon PC1060 Personal Laser Copier',  
 'HP Designjet T520 Inkjet Large Format Printer - 24" Color']
```

In [26]:

```
list(top_5_selling_products.index)
```

Out[26]:

```
['Canon imageCLASS 2200 Advanced Copier',  
 'Fellowes PB500 Electric Punch Plastic Comb Binding Machine with Manual B  
ind',  
 'Cisco TelePresence System EX90 Videoconferencing Unit',  
 'HON 5400 Series Task Chairs for Big and Tall',  
 'GBC DocuBind TL300 Electric Binding System']
```

In [27]:

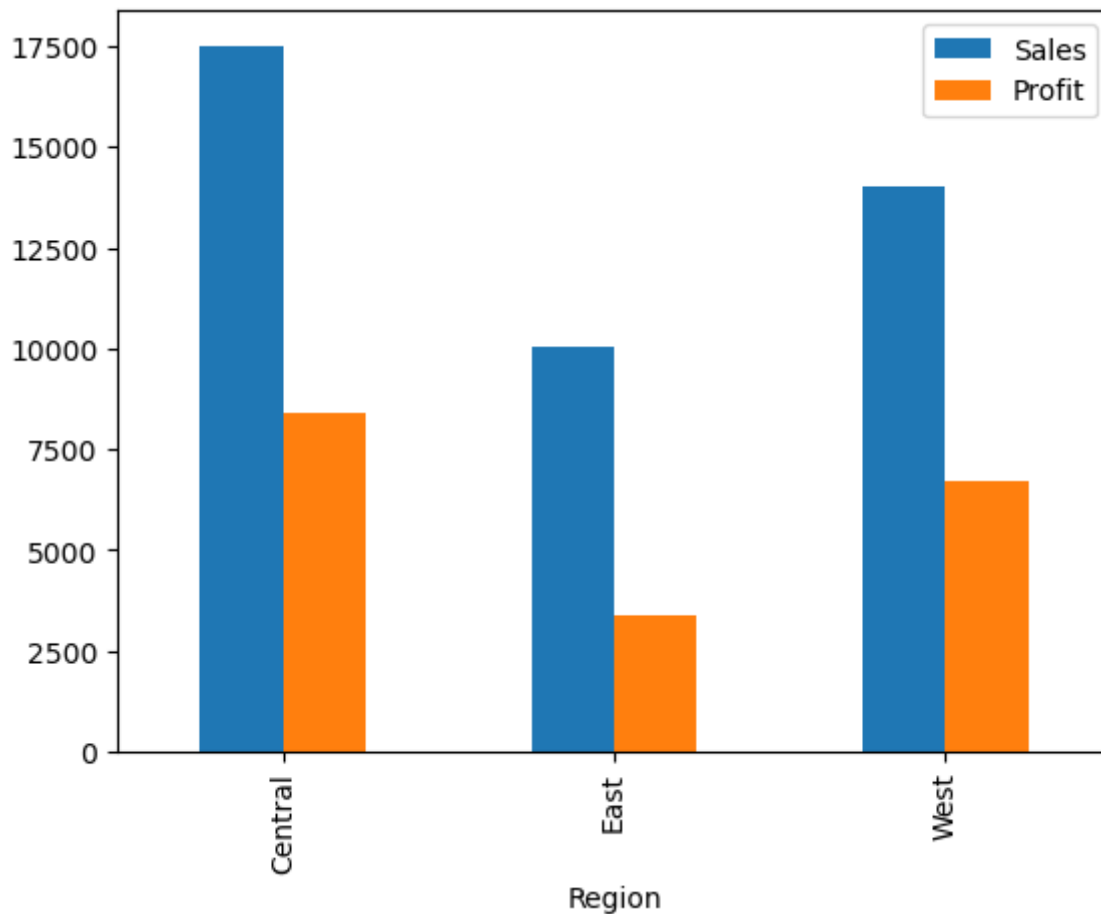
```
df.Region.value_counts()
```

Out[27]:

```
West      3203  
East      2848  
Central   2323  
South     1620  
Name: Region, dtype: int64
```

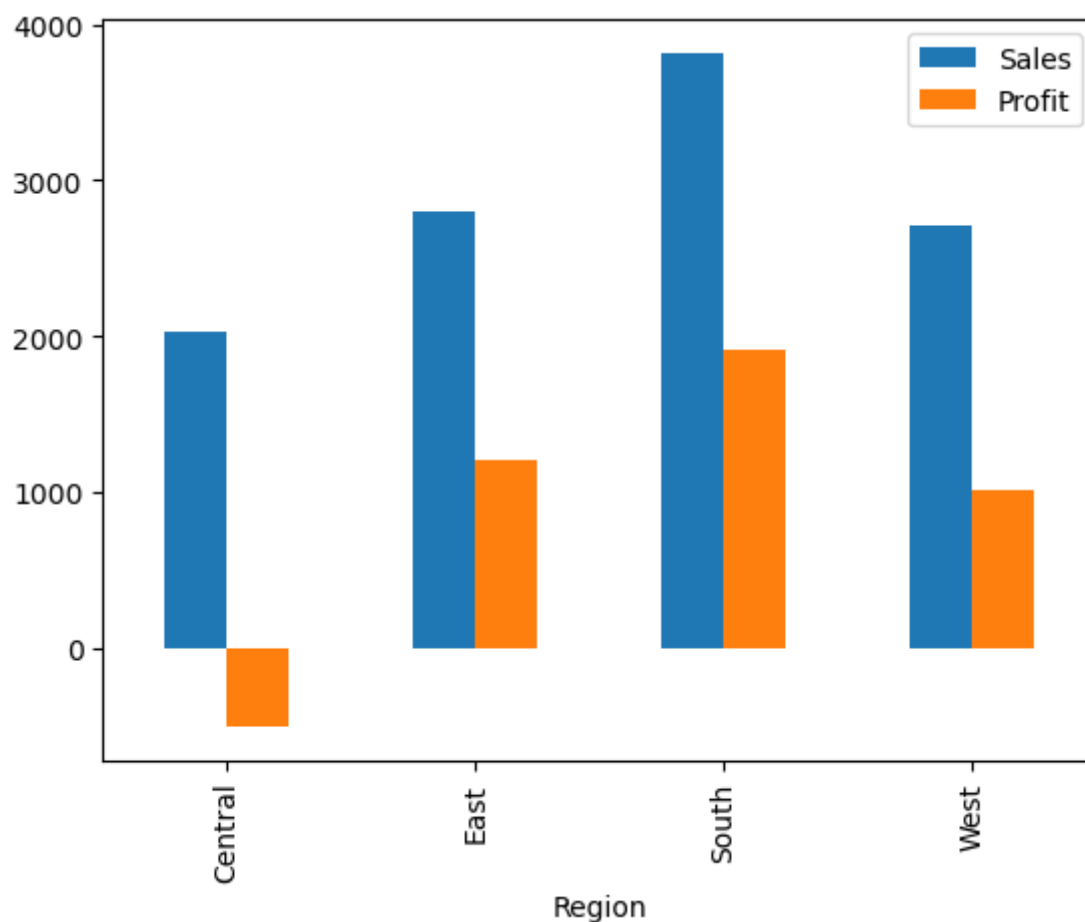
In [28]:

```
product = df[df["Product Name"] == "Canon imageCLASS 2200 Advanced Copier"]  
  
# Group the data by Region  
region_group = product.groupby(["Region"]).mean()[["Sales", "Profit"]]  
  
# Plotting  
region_group.plot(kind="bar")  
  
plt.show()
```



In [29]:

```
product = df[df["Product Name"] == "Fellowes PB500 Electric Punch Plastic Comb Binding M"]  
  
# Group the data by Region  
region_group = product.groupby(["Region"]).mean()[["Sales", "Profit"]]  
  
# Plot the average sales and profit by region  
region_group.plot(kind="bar")  
  
# Show the plot  
plt.show()
```



In [30]:

```
product = df[(df["Product Name"] == "Fellowes PB500 Electric Punch Plastic Comb Binding I
product
```

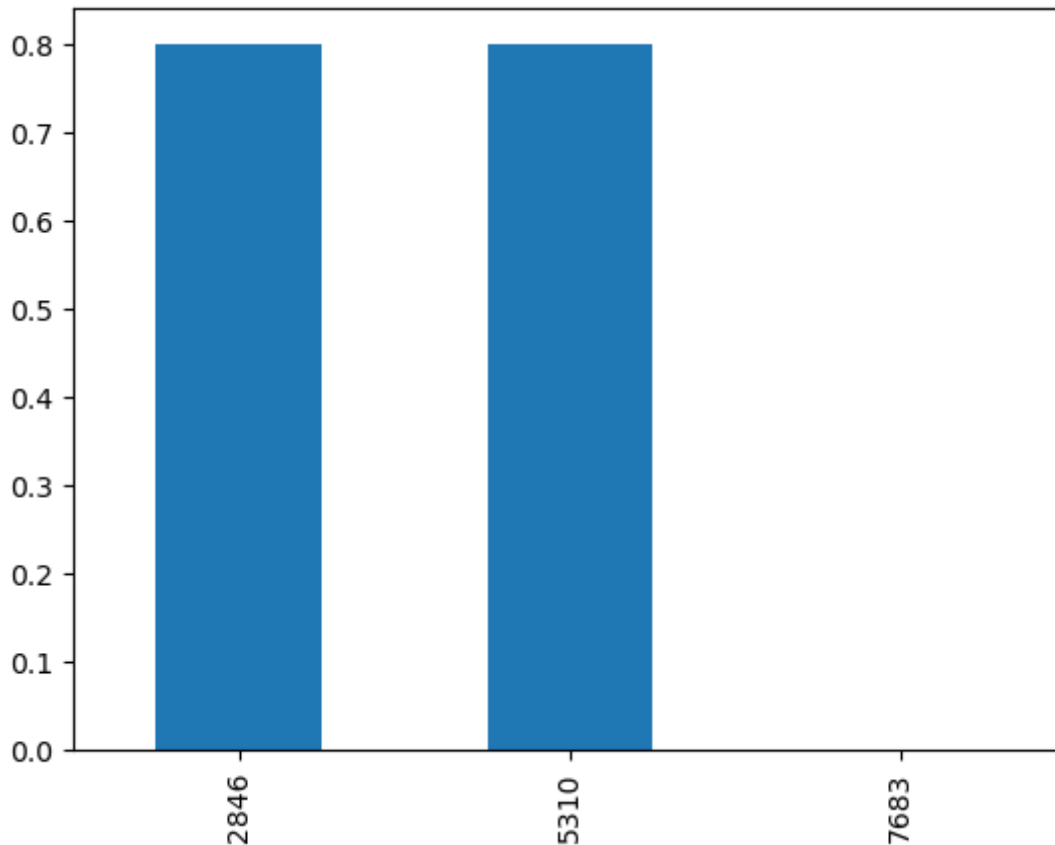
Out[30]:

	Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Count
2846	2847	CA-2017-152093	9/10/2017	9/15/2017	Standard Class	SN-20560	Skye Norling	Home Office	Unit Stati
5310	5311	CA-2017-131254	11/19/2017	11/21/2017	First Class	NC-18415	Nathan Cano	Consumer	Unit Stati
7683	7684	CA-2015-120782	4/28/2015	5/1/2015	First Class	SD-20485	Shirley Daniels	Home Office	Unit Stati

3 rows × 21 columns

In [31]:

```
product = df[(df["Product Name"] == "Fellowes PB500 Electric Punch Plastic Comb Binding I  
  
# Plot a histogram of the discounts offered for the product in the central region  
product["Discount"].plot(kind="bar")  
  
# Show the plot  
plt.show()  
product
```



Out[31]:

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Count
--------	----------	------------	-----------	-----------	-------------	---------------	---------	-------

In [32]:

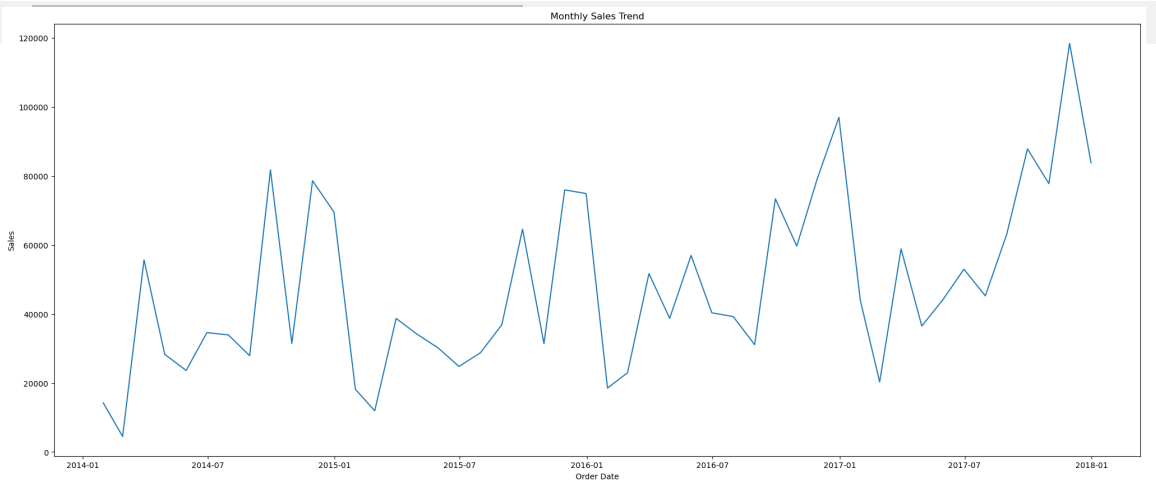
df['Order Date'] = pd.to_datetime(df['Order Date'])	CA-152093	2017-10-10	2017-10-13	Standard Class	SK-20560	Skye Norling	Home Office	Unit Stati
---	-----------	------------	------------	----------------	----------	--------------	-------------	------------

In [33]:

```
monthly_sales = df.groupby(['Order Date'], as_index=False).sum()

# Set the Order Date column as the index of the dataframe
monthly_sales = monthly_sales.set_index('Order Date')
# Resample the data into monthly intervals
monthly_sales = monthly_sales.resample('M').sum() # M for month

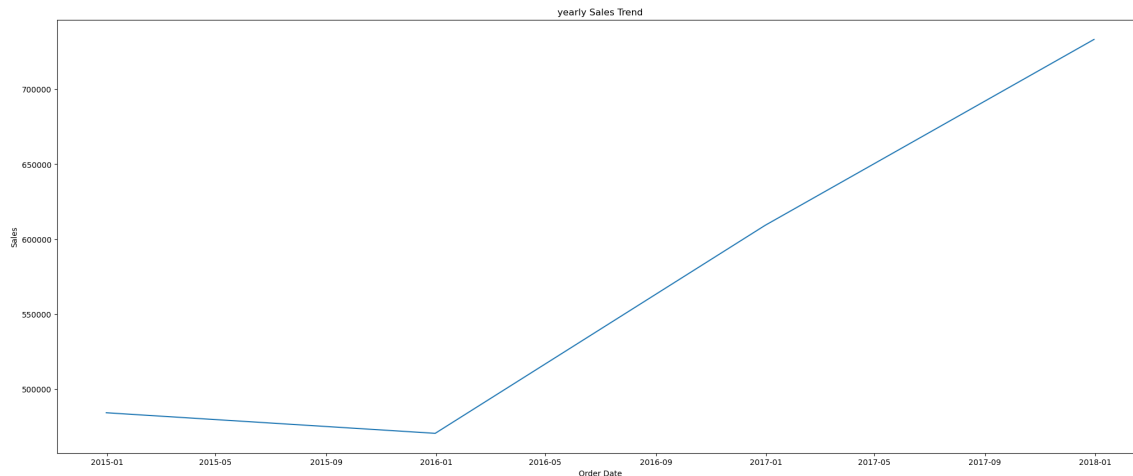
# Plot
plt.figure(figsize=(25,10))
plt.plot(monthly_sales['Sales'])
plt.xlabel("Order Date")
plt.ylabel("Sales")
plt.title("Monthly Sales Trend")
plt.show()
```



In [34]:

```
yearly_sales = monthly_sales.resample('Y').sum()
```

```
plt.figure(figsize=(25,10))
plt.plot(yearly_sales['Sales'])
plt.xlabel("Order Date")
plt.ylabel("Sales")
plt.title("yearly Sales Trend")
plt.show()
```



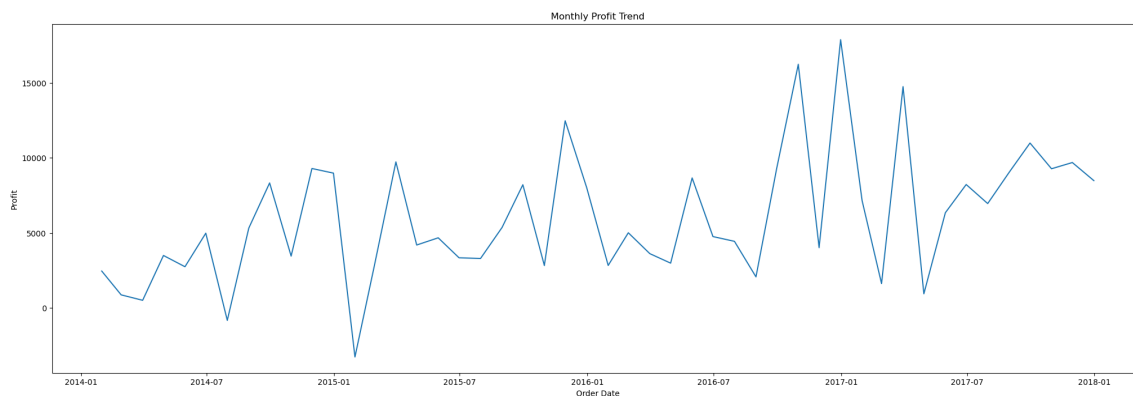
In [35]:

```
monthly_sales = df.groupby(['Order Date'], as_index=False).sum()

# Set the Order Date column as the index of the dataframe
monthly_sales = monthly_sales.set_index('Order Date')

# Resample the data into monthly intervals
monthly_sales = monthly_sales.resample('M').sum() # M for month

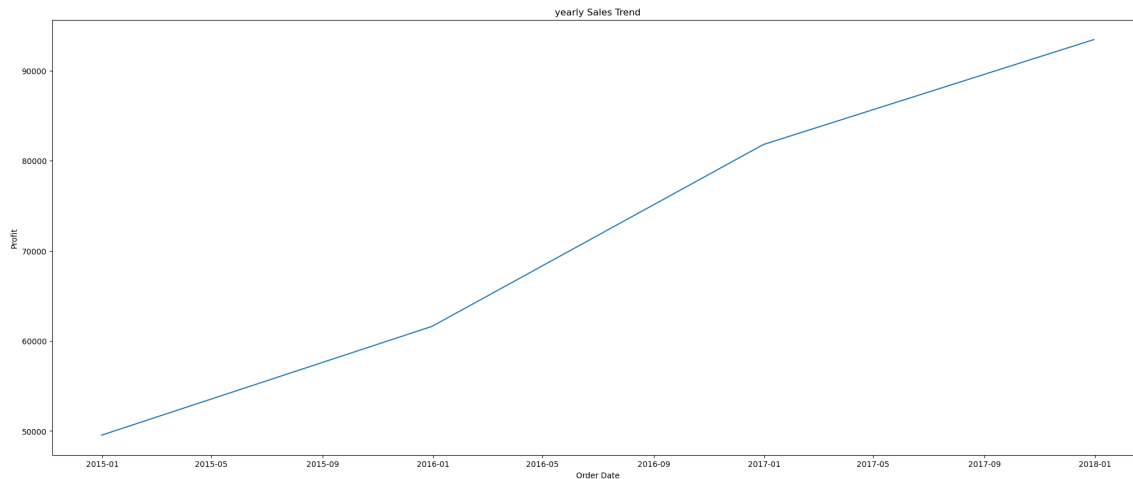
# Plot
plt.figure(figsize=(25,8))
plt.plot(monthly_sales['Profit'])
plt.xlabel("Order Date")
plt.ylabel("Profit")
plt.title("Monthly Profit Trend")
plt.show()
```



In [36]:

```
yearly_sales = monthly_sales.resample('Y').sum()

plt.figure(figsize=(25,10))
plt.plot(yearly_sales['Profit'])
plt.xlabel("Order Date")
plt.ylabel("Profit")
plt.title("yearly Sales Trend")
plt.show()
```



In [37]:

```
df_places = df[['Country', 'City', 'State', 'Region']]
df_places.head()
```

Out[37]:

	Country	City	State	Region
0	United States	Henderson	Kentucky	South
1	United States	Henderson	Kentucky	South
2	United States	Los Angeles	California	West
3	United States	Fort Lauderdale	Florida	South
4	United States	Fort Lauderdale	Florida	South

In [38]:

```
for place in df_places.columns:
    print(place,':',df_places[place].nunique())
```

```
Country : 1
City : 531
State : 49
Region : 4
```

In [39]:

```
df_places = df[['City', 'State', 'Region', 'Sales', 'Profit']]
df_places.head()
```

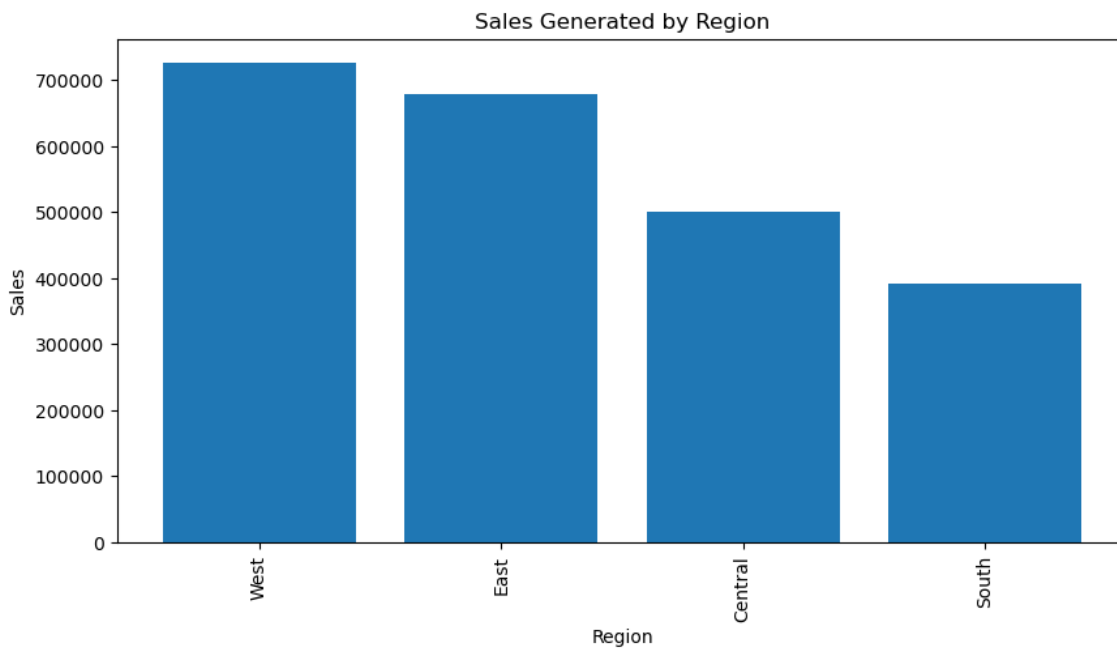
Out[39]:

	City	State	Region	Sales	Profit
0	Henderson	Kentucky	South	261.9600	41.9136
1	Henderson	Kentucky	South	731.9400	219.5820
2	Los Angeles	California	West	14.6200	6.8714
3	Fort Lauderdale	Florida	South	957.5775	-383.0310
4	Fort Lauderdale	Florida	South	22.3680	2.5164

In [40]:

```
region_sales = df_places.groupby(['Region'], as_index=False).sum()
region_sales.sort_values(by='Sales', ascending=False, inplace=True)

# Plot the total sales generated by each region and city
plt.figure(figsize=(10,5))
plt.bar(region_sales['Region'], region_sales['Sales'], align='center',)
plt.xlabel("Region")
plt.ylabel("Sales")
plt.title("Sales Generated by Region")
plt.xticks(rotation=90)
plt.show()
region_sales
```



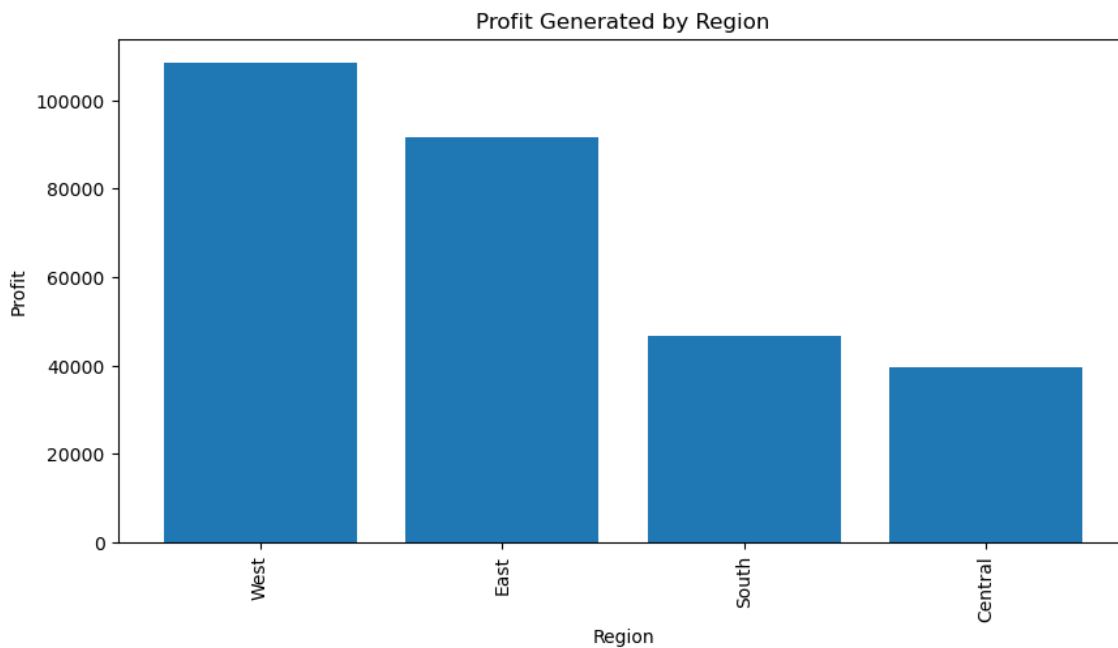
Out[40]:

	Region	Sales	Profit
3	West	725457.8245	108418.4489
1	East	678781.2400	91522.7800
0	Central	501239.8908	39706.3625
2	South	391721.9050	46749.4303

In [41]:

```
region_profit = df_places.groupby(['Region'], as_index=False).sum()
region_profit.sort_values(by='Profit', ascending=False, inplace=True)

# Plot the total sales generated by each region and city
plt.figure(figsize=(10,5))
plt.bar(region_profit['Region'], region_profit['Profit'], align='center',)
plt.xlabel("Region")
plt.ylabel("Profit")
plt.title("Profit Generated by Region")
plt.xticks(rotation=90)
plt.show()
region_profit
```



Out[41]:

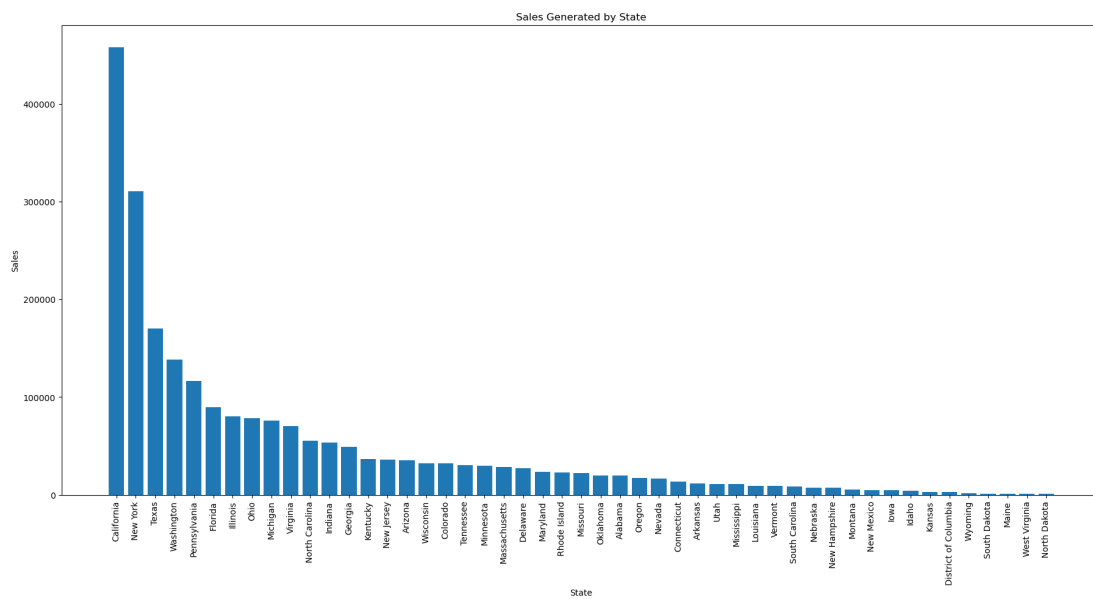
	Region	Sales	Profit
3	West	725457.8245	108418.4489
1	East	678781.2400	91522.7800
2	South	391721.9050	46749.4303
0	Central	501239.8908	39706.3625

In [42]:

```
state_sales = df_places.groupby(['State'], as_index=False).sum()
state_sales.sort_values(by='Sales', ascending=False, inplace=True)

plt.figure(figsize=(22,10))
plt.bar(state_sales['State'], state_sales['Sales'], align='center',)
plt.xlabel("State")
plt.ylabel("Sales")
plt.title("Sales Generated by State")
plt.xticks(rotation=90)

plt.show()
state_sales
```



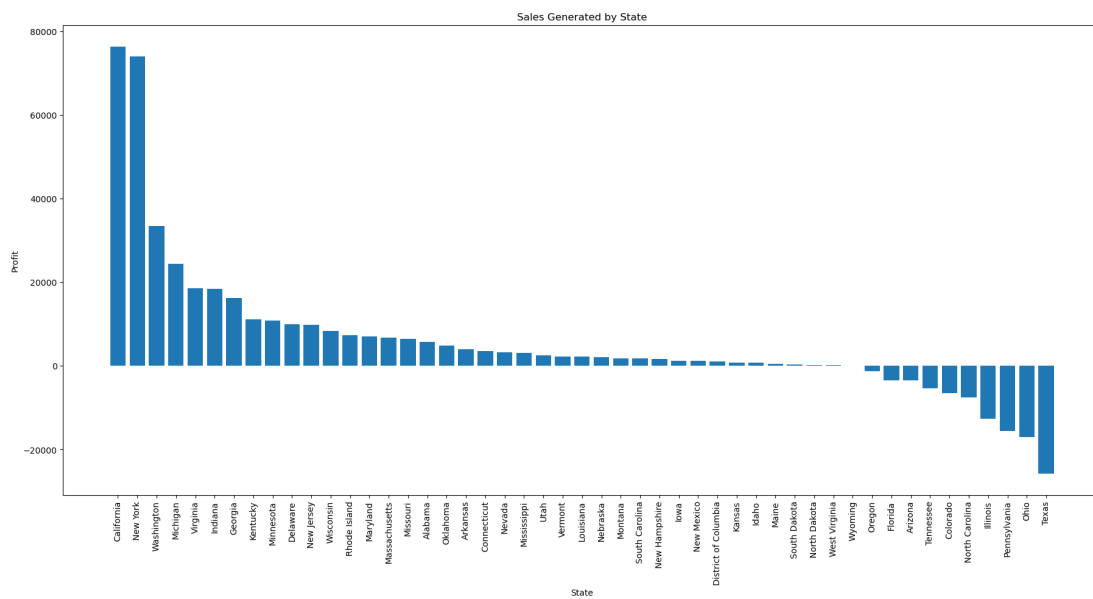
Out[42]:

In [43]:

```
state_profit = df_places.groupby(['State'], as_index=False).sum()
state_profit.sort_values(by='Profit', ascending=False, inplace=True)

plt.figure(figsize=(22,10))
plt.bar(state_profit['State'], state_profit['Profit'], align='center',)
plt.xlabel("State")
plt.ylabel("Profit")
plt.title("Sales Generated by State")
plt.xticks(rotation=90)

plt.show()
state_profit
```



Out[43]:

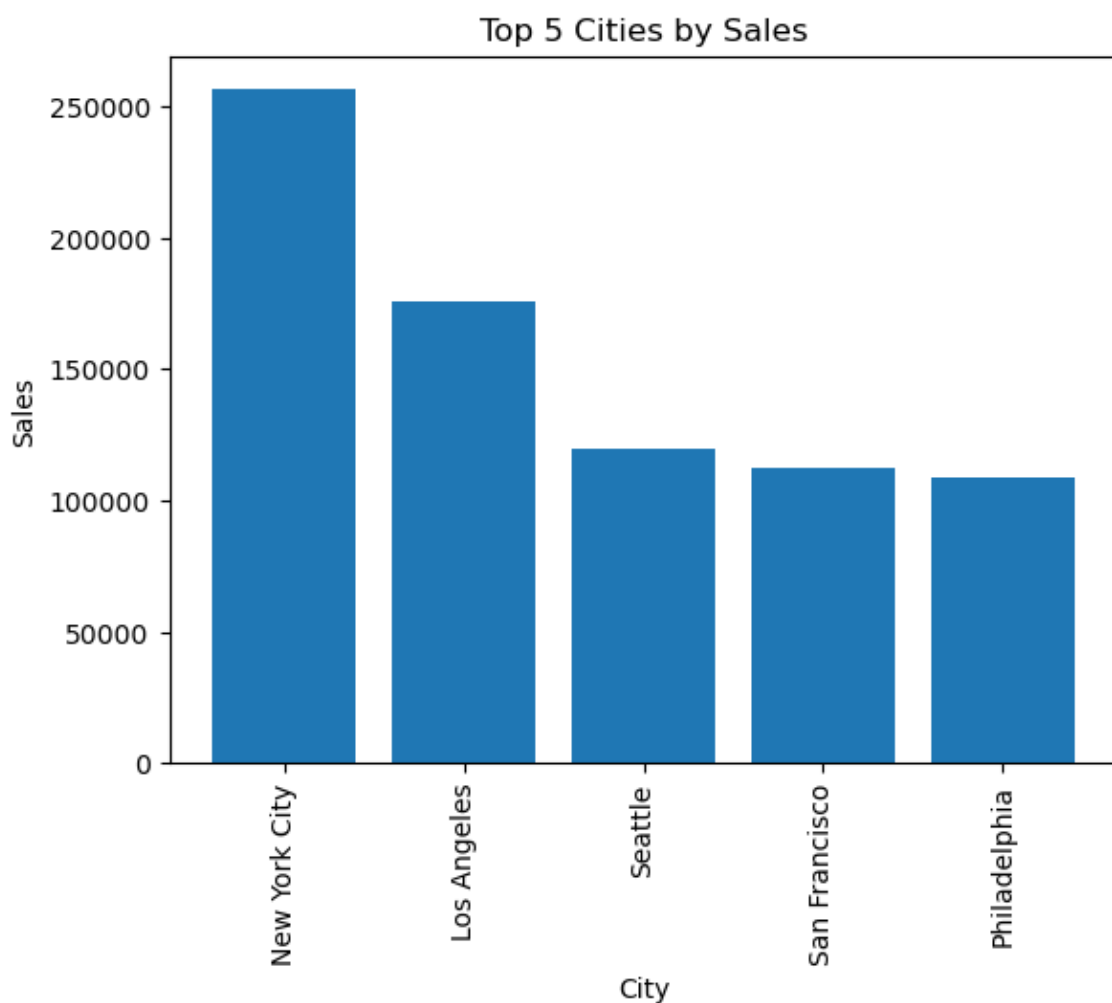
In [44]:

```
city_sales = df_places.groupby('City', as_index=False).sum()

# Sort the data by Sales in descending order
city_sales.sort_values(by='Sales', ascending=False, inplace=True)

# Select the top 5 cities
top_5_cities_sales = city_sales.head()

plt.bar(top_5_cities_sales['City'], top_5_cities_sales['Sales'], align='center')
plt.xlabel("City")
plt.ylabel("Sales")
plt.title("Top 5 Cities by Sales")
plt.xticks(rotation=90)
plt.show()
top_5_cities_sales
```



Out[44]:

	City	Sales	Profit
329	New York City	256368.161	62036.9837
266	Los Angeles	175851.341	30440.7579
452	Seattle	119540.742	29156.0967
438	San Francisco	112669.092	17507.3854
374	Philadelphia	109077.013	-13837.7674

In [45]:

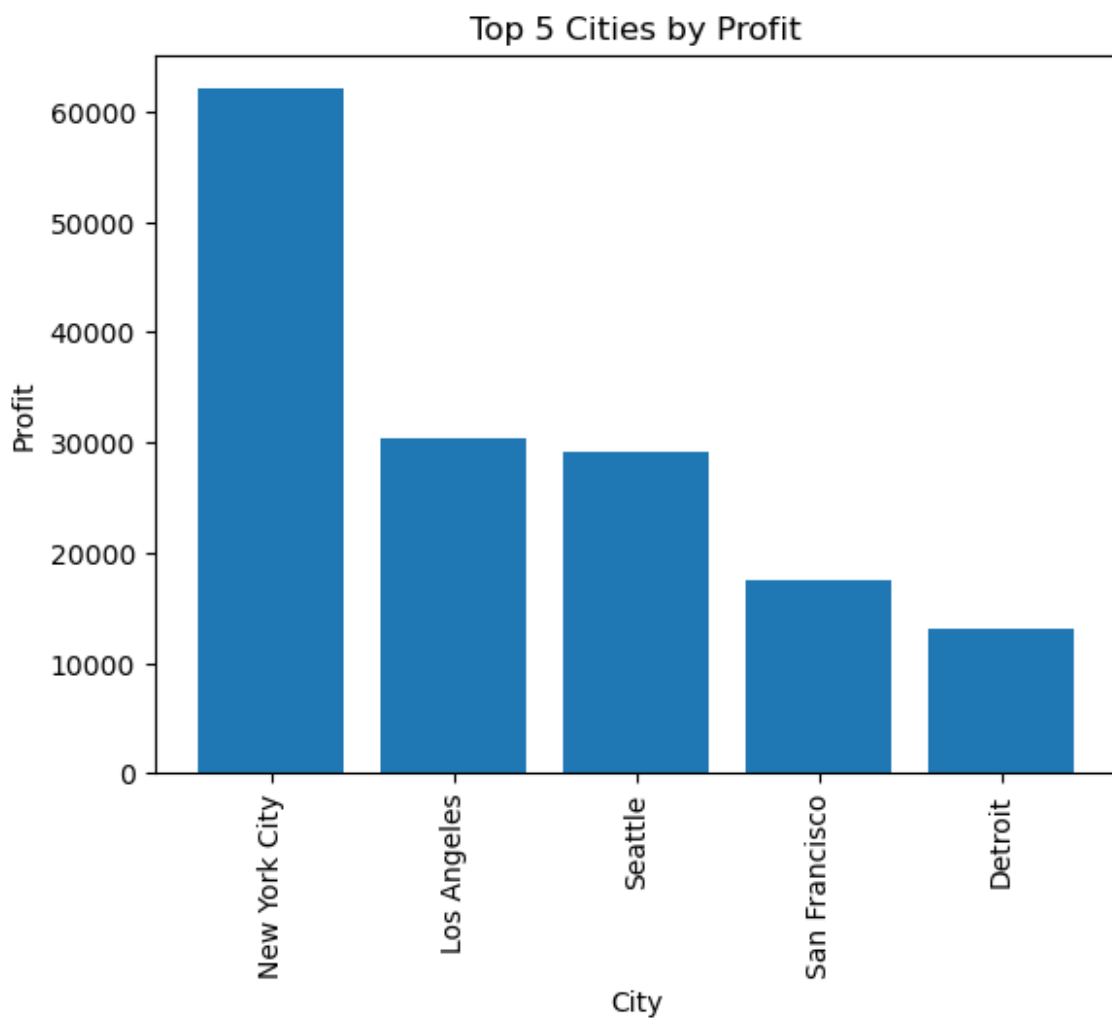
```
city_profit = df_places.groupby('City', as_index=False).sum()

# Sort the data by Sales in descending order
city_profit.sort_values(by='Profit', ascending=False, inplace=True)

# Select the top 5 cities
top_5_cities_profit = city_profit.head()

plt.bar(top_5_cities_profit['City'], top_5_cities_profit['Profit'], align='center')
plt.xlabel("City")
plt.ylabel("Profit")
plt.title("Top 5 Cities by Profit")
plt.xticks(rotation=90)

plt.show()
top_5_cities_profit
```



Out[45]:
In [46]:

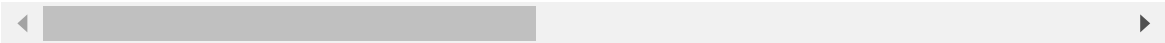
	City	Sales	Profit
df.head()			
329	New York City	256368.161	62036.9837

Out[46]:

266 Los Angeles 175851.341 30440.7579

452	Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Country	
438	San Francisco	112660.092	17507.3854							
1230	1	CA-2016-152156	2016-11-08	11/11/2016	Second Class	CG-12520	Claire Gute	Consumer	United States	Hen
1	2	CA-2016-152156	2016-11-08	11/11/2016	Second Class	CG-12520	Claire Gute	Consumer	United States	Hen
2	3	CA-2016-138688	2016-06-12	6/16/2016	Second Class	DV-13045	Darrin Van Huff	Corporate	United States	A
3	4	US-2015-108966	2015-10-11	10/18/2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Lauc
4	5	US-2015-108966	2015-10-11	10/18/2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Lauc

5 rows × 21 columns



In [47]:

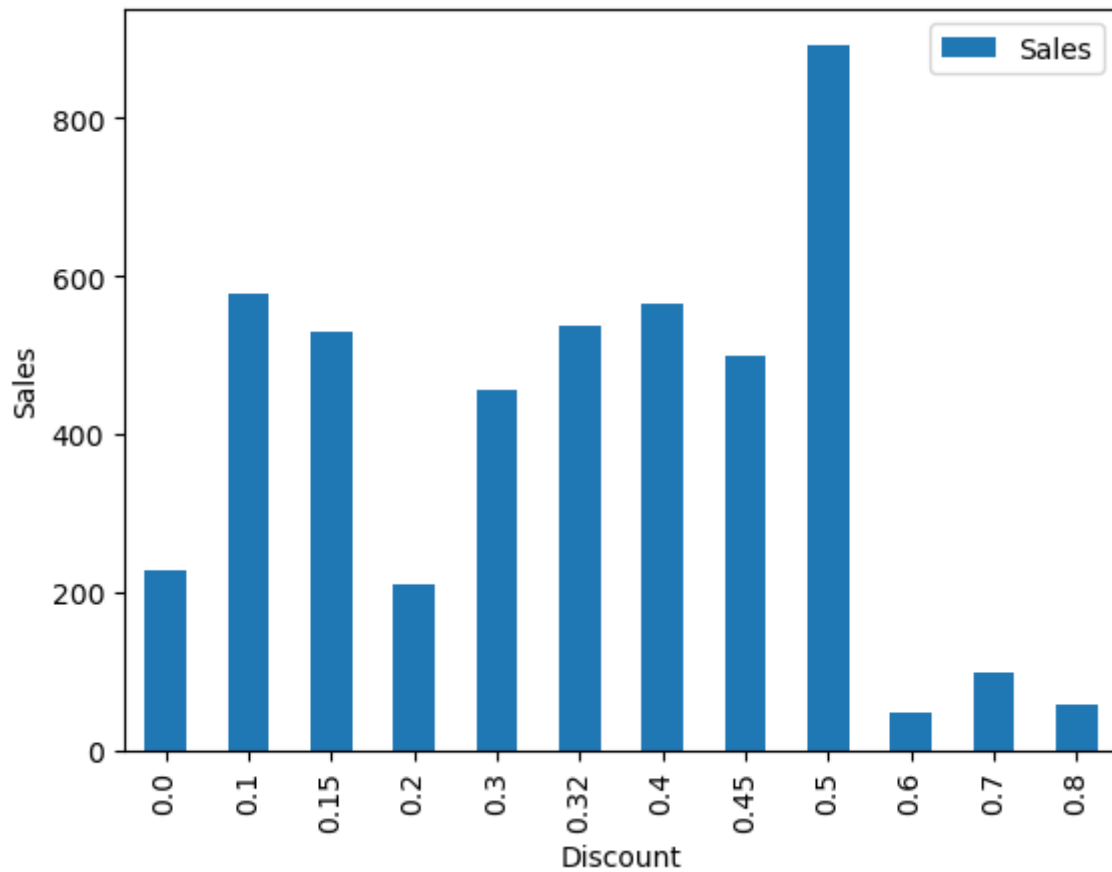
```
df.Discount.value_counts()
```

Out[47]:

```
0.00    4798
0.20    3657
0.70     418
0.80     300
0.30     227
0.40     206
0.60     138
0.10      94
0.50      66
0.15      52
0.32      27
0.45      11
Name: Discount, dtype: int64
```

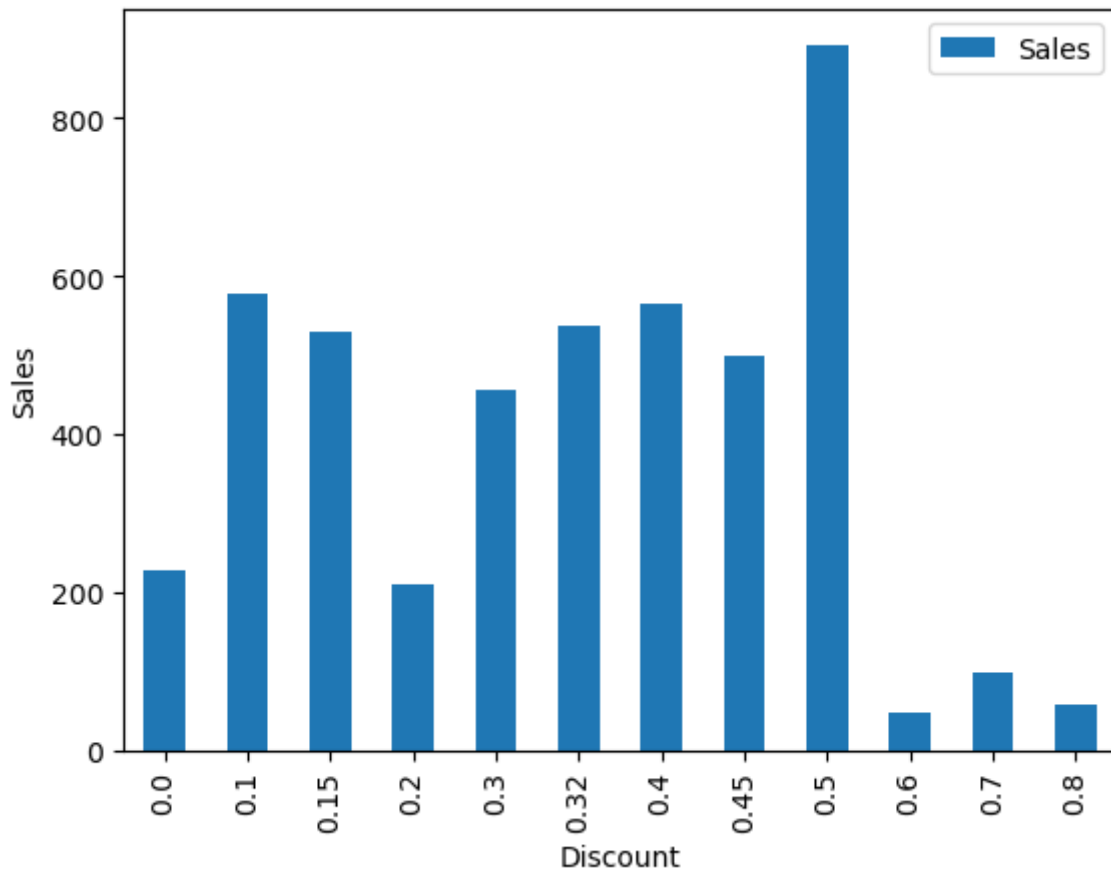
In [48]:

```
discount_group = df.groupby(["Discount"]).mean()[["Sales"]]  
ax = discount_group.plot(kind="bar")  
ax.set_ylabel("Sales")  
plt.show()
```



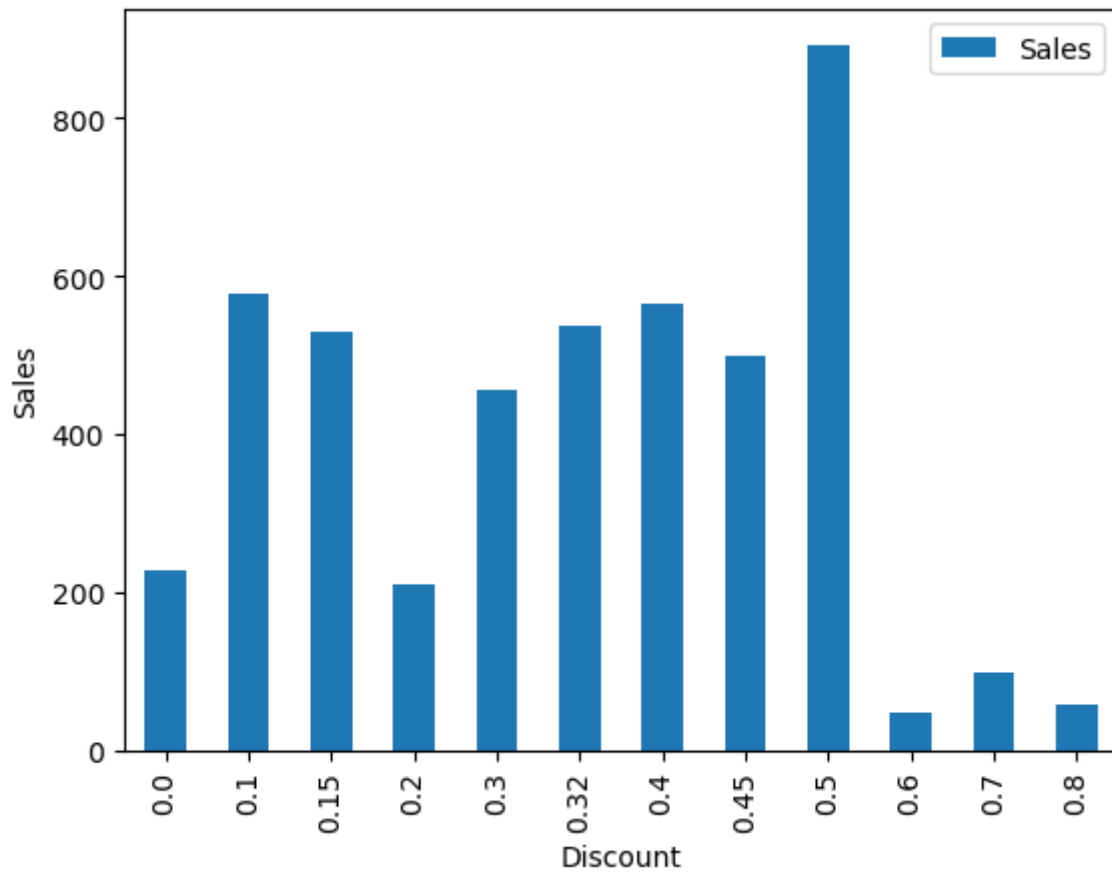
In [49]:

```
discount_group = df.groupby(["Discount"]).mean()[["Sales"]]  
ax = discount_group.plot(kind="bar")  
ax.set_ylabel("Sales")  
plt.show()
```



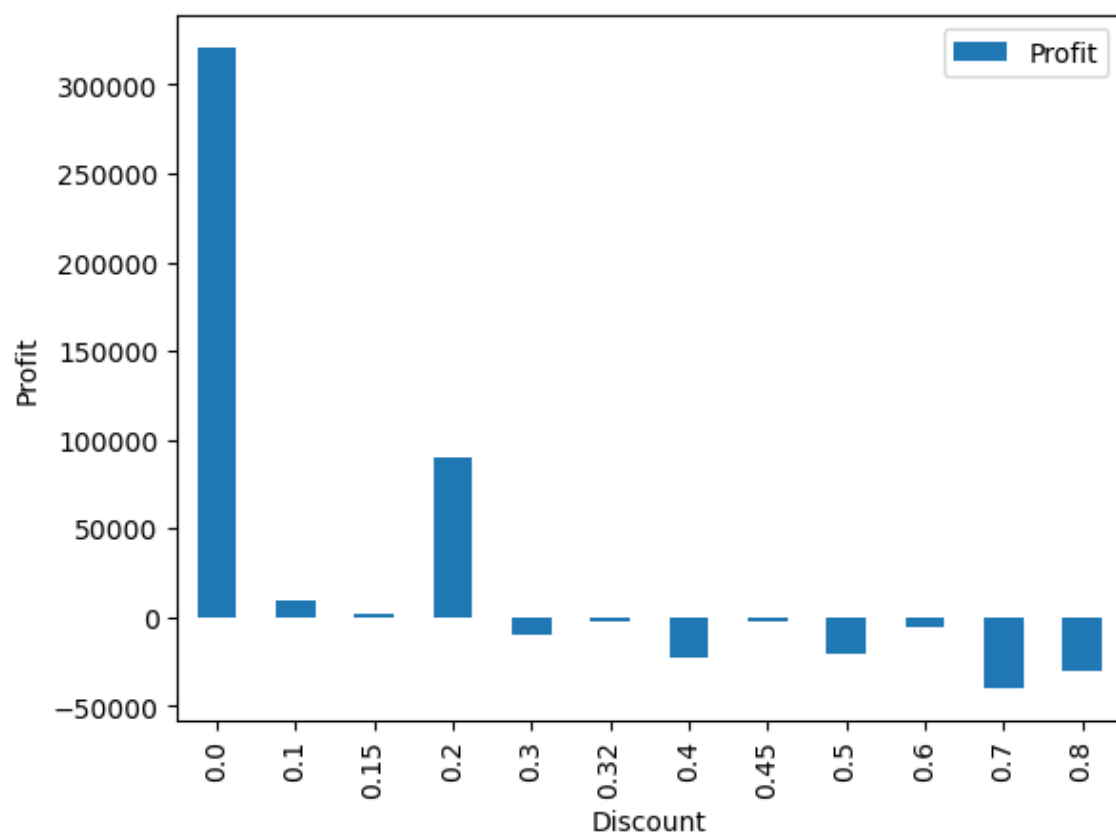
In [50]:

```
discount_group = df.groupby(["Discount"]).mean()[["Sales"]]  
ax = discount_group.plot(kind="bar")  
ax.set_ylabel("Sales")  
plt.show()
```



In [51]:

```
discount_group = df.groupby(["Discount"]).sum()[["Profit"]]  
ax = discount_group.plot(kind="bar")  
ax.set_ylabel("Profit")  
plt.show()
```



In [52]:

```
avg_profit_margin_by_category = df.groupby('Category')['Profit'].sum()  
print(avg_profit_margin_by_category)
```

```
Category  
Furniture          18451.2728  
Office Supplies   122490.8008  
Technology        145454.9481  
Name: Profit, dtype: float64
```

In [53]:

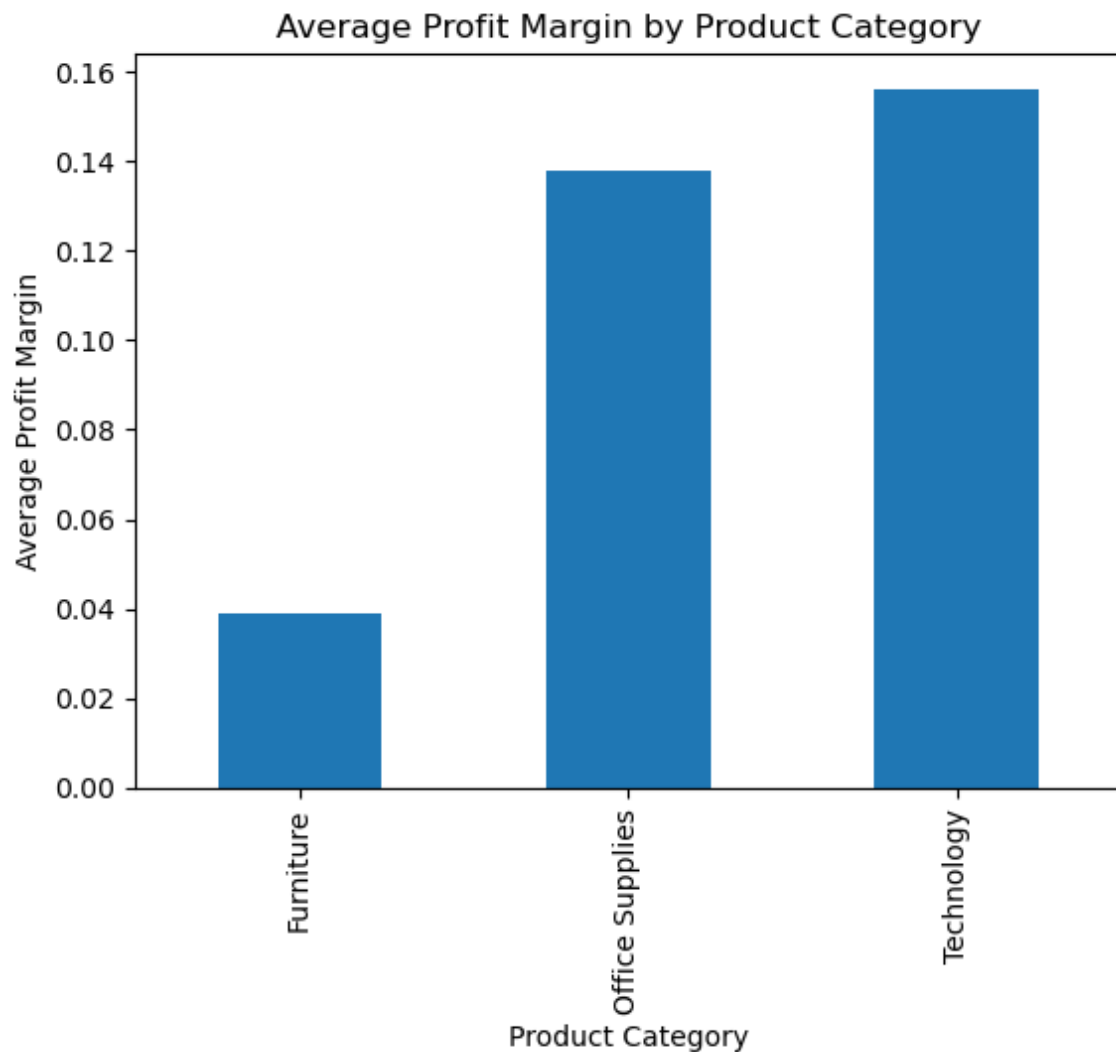
```
df['Profit Margin'] = df['Profit'] / df['Sales']

# Group the data by product category and calculate the average profit margin for each ca
avg_profit_margin_by_category = df.groupby('Category')['Profit Margin'].mean()

# Plot the average profit margin for each category as a bar chart
avg_profit_margin_by_category.plot(kind='bar')

# Add a title and labels to the chart
plt.title("Average Profit Margin by Product Category")
plt.xlabel("Product Category")
plt.ylabel("Average Profit Margin")

plt.show()
```



In [54]:

```
df.head()
```

Out[54]:

	Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Country	
0	1	CA-2016-152156	2016-11-08	11/11/2016	Second Class	CG-12520	Claire Gute	Consumer	United States	Hen
1	2	CA-2016-152156	2016-11-08	11/11/2016	Second Class	CG-12520	Claire Gute	Consumer	United States	Hen
2	3	CA-2016-138688	2016-06-12	6/16/2016	Second Class	DV-13045	Darrin Van Huff	Corporate	United States	A
3	4	US-2015-108966	2015-10-11	10/18/2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Lauc
4	5	US-2015-108966	2015-10-11	10/18/2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Lauc

5 rows × 22 columns

In [55]:

```
df.Segment.value_counts()
```

Out[55]:

```
Consumer      5191
Corporate     3020
Home Office   1783
Name: Segment, dtype: int64
```

In [56]:

```
df['Ship Mode'].value_counts()
```

Out[56]:

```
Standard Class    5968
Second Class      1945
First Class       1538
Same Day          543
Name: Ship Mode, dtype: int64
```

In []: