#Load the neccessary Libraries

import pandas as pd

import numpy as np import matplotlib.pyplot as plt

#Load the Dataset

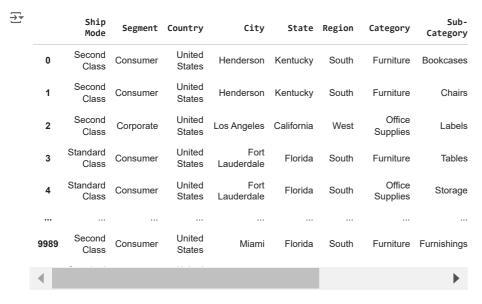
df=pd.read_csv("/Analysis of Super Store .csv")

df.head()



Start coding or generate with AI.

#Dropping Postal Code Coloumn df.drop(columns="Postal Code")

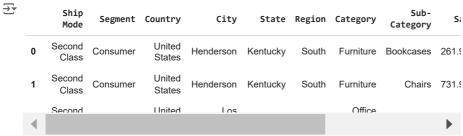


df.head()

		Ship Mode	Segment	Country	City	State	Postal Code	Region	Category	Su Catego
	0	Second Class	Consumer	United States	Henderson	Kentucky	42420	South	Furniture	Bookcas
	1	Second Class	Consumer	United States	Henderson	Kentucky	42420	South	Furniture	Cha
	2	Second Class	Corporate	United States	Los Angeles	California	90036	West	Office Supplies	Lab
	3	Standard Class	Consumer	United States	Fort Lauderdale	Florida	33311	South	Furniture	Tabl
	A	Standard	Concumer	United	Fort	Florida	22211	South	Office	Stora

df.drop(columns= "Postal Code" ,inplace=True)

df.head()

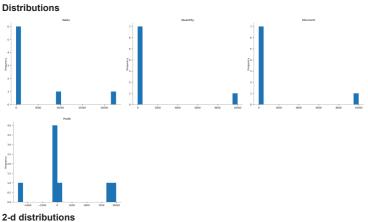


```
# Viwing the unique values from the dataset
print(df["Ship Mode"].unique())
print(df["Segment"].unique())
print(df["Region"].unique())
print(df["Category"].unique())
print(df["Country"].unique())
print(df["Sub-Category"].unique())

['Second Class' 'Standard Class' 'First Class' 'Same Day']
['Consumer' 'Corporate' 'Home Office']
['South' 'West' 'Central' 'East']
['Furniture' 'Office Supplies' 'Technology']
['United States']
['Bookcases' 'Chairs' 'Labels' 'Tables' 'Storage' 'Furnishings' 'Art'
    'Phones' 'Binders' 'Appliances' 'Paper' 'Accessories' 'Envelopes'
    'Fasteners' 'Supplies' 'Machines' 'Copiers']
# Describing the Statistical data
```

Describing the Statistical data
df.describe()

₹		Sales	Quantity	Discount	Profit	
	count	9994.000000	9994.000000	9994.000000	9994.000000	
	mean	229.858001	3.789574	0.156203	28.656896	
	std	623.245101	2.225110	0.206452	234.260108	
	min	0.444000	1.000000	0.000000	-6599.978000	
	25%	17.280000	2.000000	0.000000	1.728750	
	50%	54.490000	3.000000	0.200000	8.666500	
	75%	209.940000	5.000000	0.200000	29.364000	
	max	22638.480000	14.000000	0.800000	8399.976000	





viwing the data types of every coloumns

df.info()

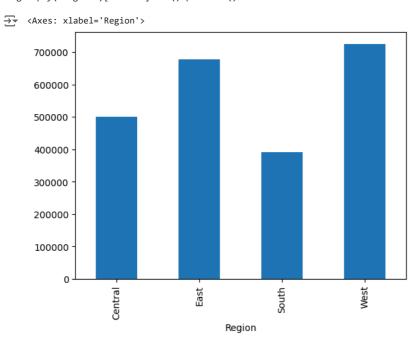
<<class 'pandas.core.frame.DataFrame'>
RangeIndex: 9994 entries, 0 to 9993
Data columns (total 12 columns):

```
Non-Null Count Dtype
#
    Column
    Ship Mode
                   9994 non-null
                                  object
    Segment
                   9994 non-null
                                  object
    Country
                   9994 non-null
                                  object
                   9994 non-null
    City
                                  object
                   9994 non-null
    State
                                  obiect
    Region
                   9994 non-null
                                  object
                  9994 non-null
    Category
                                   object
                  9994 non-null
    Sub-Category
                                   object
8
                  9994 non-null
                                   float64
    Sales
    Quantity
                  9994 non-null
                                   int64
10 Discount
                   9994 non-null
                                   float64
11 Profit
                  9994 non-null
                                   float64
dtypes: float64(3), int64(1), object(8)
memory usage: 937.1+ KB
```

viwing for any na values in dataset
df.isna().sum()

_	Ship Mode	0
	Segment	0
	Country	0
	City	0
	State	0
	Region	0
	Category	0
	Sub-Category	0
	Sales	0
	Quantity	0
	Discount	0
	Profit	0
	dtype: int64	

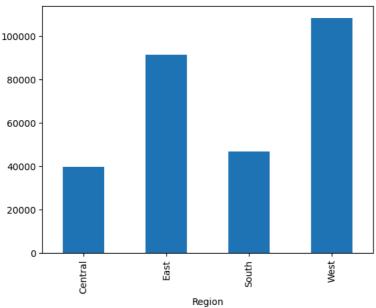
Sales Analysis based on Region
df.groupby("Region")["Sales"].sum().plot.bar()



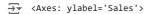
Profit Analysis Based on region

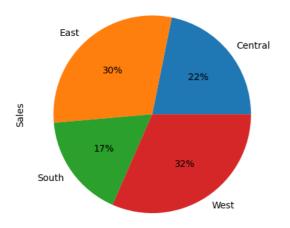
df.groupby("Region")["Profit"].sum().plot.bar()

→ <Axes: xlabel='Region'>

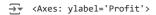


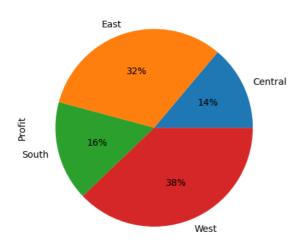
Sales Analysis based on Region pie chart
df.groupby("Region")["Sales"].sum().plot.pie(autopct="%1.0f%%")



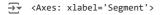


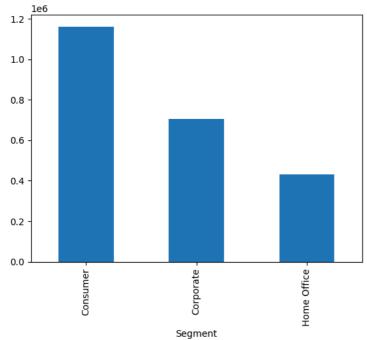
Profit Analysis based on Region pie chart
df.groupby("Region")["Profit"].sum().plot.pie(autopct="%1.0f%%")



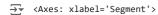


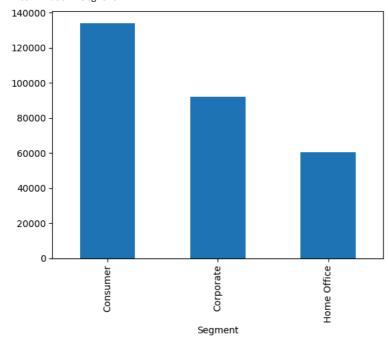
#Sales Analysis based on Customer segment
df.groupby("Segment")["Sales"].sum().plot.bar()





#Profit Analysis based on customer Segment
df.groupby("Segment")["Profit"].sum().plot.bar()



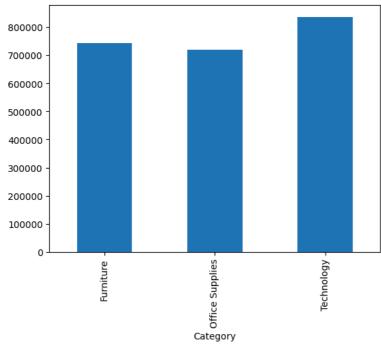


Start coding or $\underline{\text{generate}}$ with AI.

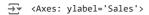
Start coding or generate with AI.

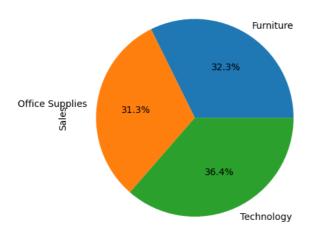
sales Analysis based on category
df.groupby("Category")["Sales"].sum().plot.bar()





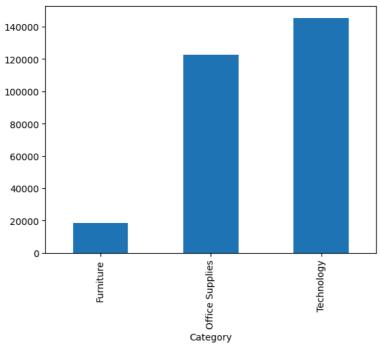
sales Analysis based on category using piechart
df.groupby("Category")["Sales"].sum().plot.pie(autopct="%0.1f%%")



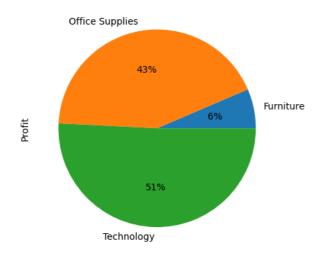


#Profit Analysis Based on Category
df.groupby("Category")["Profit"].sum().plot.bar()



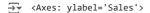


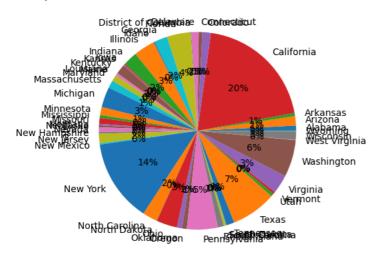
#Profit Analysis Based on Category using Pie chart
df.groupby("Category")["Profit"].sum().plot.pie(autopct="%1.0f%%")



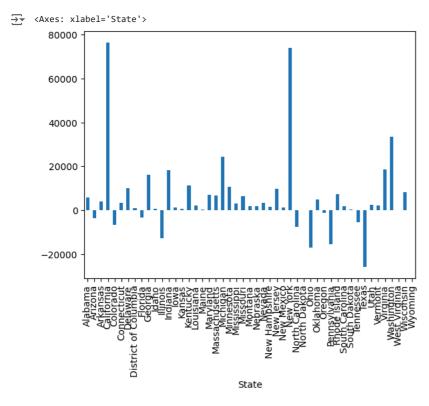
Sales Analysis Based on State
df.groupby("State")["Sales"].sum().plot.bar()







#Profit Analysis based on State
df.groupby("State")["Profit"].sum().plot.bar()



max used shipping mode
df["Ship Mode"].value counts()