EDS PRACTICAL 5

Name – Mayur Kapgate

Roll No. – 428

Division – D2

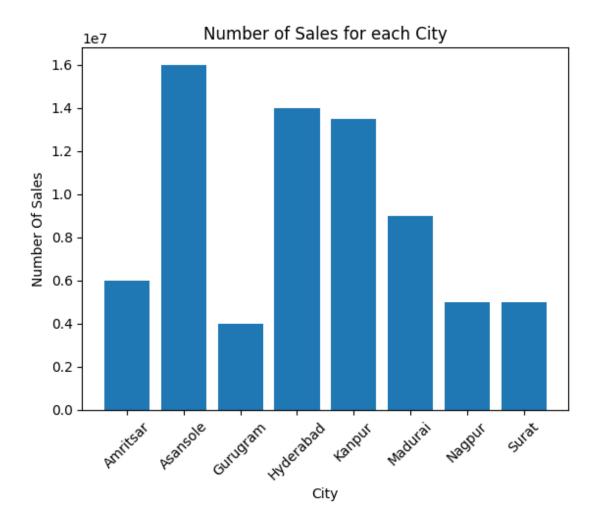
PRN No. – 202201040065

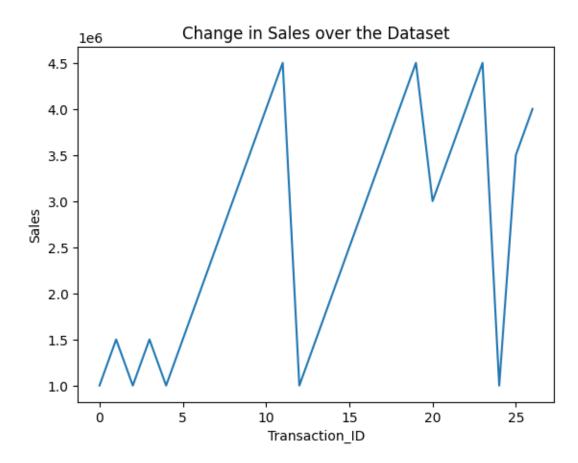
CSV File -

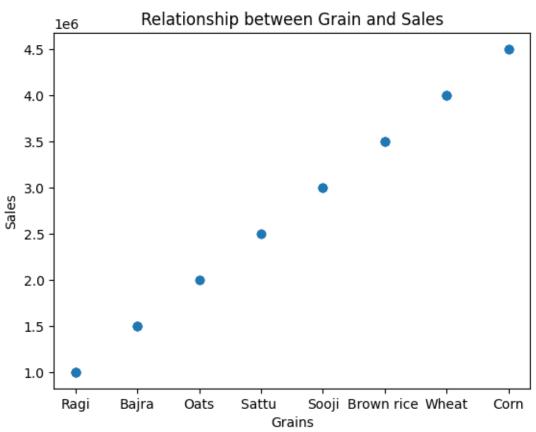
Transaction_ID	GrainName	State	City	Months	Year	Sales
1	Ragi	Maharashtra	Nagpur	JAN	2023	1000000
2	Bajra	Panjab	Amritsar	FEB	2023	1500000
3	Ragi	Maharashtra	Nagpur	JAN	2023	1000000
4	Bajra	Panjab	Amritsar	FEB	2023	1500000
5	Ragi	Maharashtra	Nagpur	JAN	2023	1000000
6	Bajra	Panjab	Amritsar	FEB	2023	1500000
7	Oats	Hariyana	Gurugram	MARCH	2023	2000000
8	Sattu	Gujarat	Surat	APRIL	2023	2500000
9	Sooji	Tamil Nadu	Madurai	MAY	2023	3000000
10	Brown rice	Telangana	Hyderabad	JUNE	2023	3500000
11	Wheat	West Bengol	Asansole	JULY	2023	4000000
12	Corn	UP	Kanpur	AUG	2023	4500000
13	Ragi	Maharashtra	Nagpur	JAN	2023	1000000
14	Bajra	Panjab	Amritsar	FEB	2023	1500000
15	Oats	Hariyana	Gurugram	MARCH	2023	2000000
16	Sattu	Gujarat	Surat	APRIL	2023	2500000
17	Sooji	Tamil Nadu	Madurai	MAY	2023	3000000
18	Brown rice	Telangana	Hyderabad	JUNE	2023	3500000
19	Wheat	West Bengol	Asansole	JULY	2023	4000000
20	Corn	UP	Kanpur	AUG	2023	4500000
21	Sooji	Tamil Nadu	Madurai	MAY	2023	3000000
22	Brown rice	Telangana	Hyderabad	JUNE	2023	3500000
23	Wheat	West Bengol	Asansole	JULY	2023	4000000
24	Corn	UP	Kanpur	AUG	2023	4500000
25	Ragi	Maharashtra	Nagpur	JAN	2023	1000000
26	Brown rice	Telangana	Hyderabad	JUNE	2023	3500000
27	Wheat	West Bengol	Asansole	JULY	2023	4000000

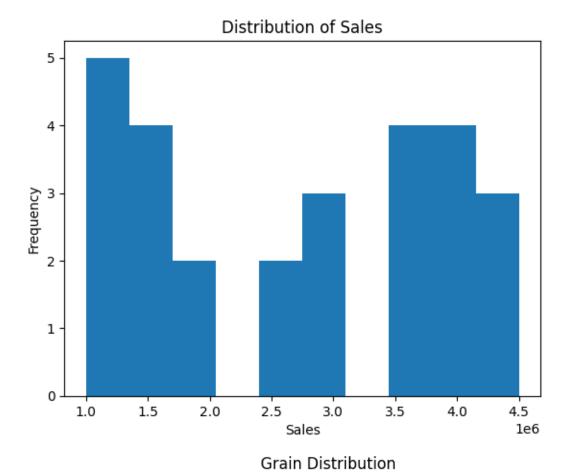
Code -

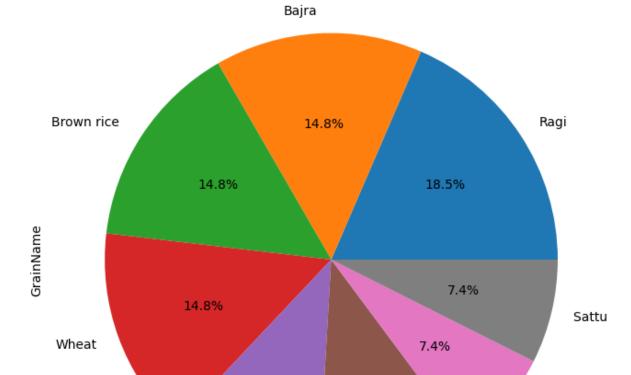
```
# Read the CSV file into a pandas DataFrame
data = pd.read csv('/content/grainsales.csv')
# Bar Chart - Number of sales for each city
City Sales = data.groupby('City')['Sales'].sum()
plt.bar(City Sales.index, City Sales.values)
plt.xlabel('City')
plt.ylabel('Number Of Sales')
plt.title('Number of Sales for each City')
plt.xticks(rotation=45)
plt.show()
# Line Chart - Change in Sales over the dataset
plt.plot(data['Sales'])
plt.xlabel('Transaction ID')
plt.ylabel('Sales')
plt.title('Change in Sales over the Dataset')
plt.show()
# Scatter Plot - Relationship between Grain and Sales
plt.scatter(data['GrainName'], data['Sales'])
plt.xlabel('Grains')
plt.ylabel('Sales')
plt.title('Relationship between Grain and Sales')
plt.show()
# Histogram - Distribution of Sales
plt.hist(data['Sales'], bins=10)
plt.xlabel('Sales')
plt.ylabel('Frequency')
plt.title('Distribution of Sales')
plt.show()
# Pie Chart - Distribution Of Grain
plt.figure(figsize=(8, 8))
top 10 grains =
data['GrainName'].value counts().head(10).index.tolist()
subset data = data[data['GrainName'].isin(top 10 grains)]
subset data['GrainName'].value counts().plot.pie(autopct='%1.1f%%')
plt.title('Grain Distribution')
plt.show()
```











11.1%

Corn

Oats

11.1%

Sooji