DATA SCIENCE PROJECT-HOPE AI INTERN

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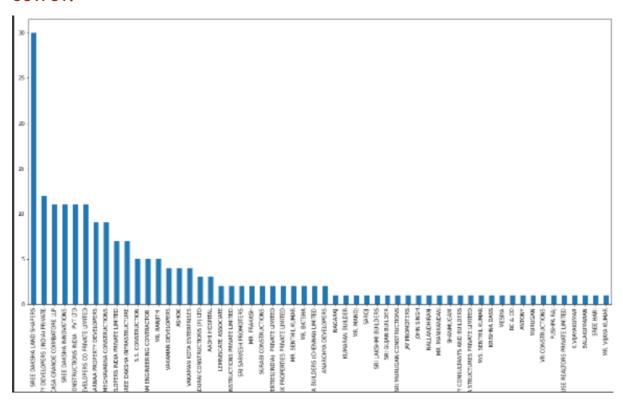
TASKS

Create a graph which displays Customer order count. [Ex. customerA-12, customer-5]. Display this information in a graph. Hint: use value_counts().

CODE:

df['Customer Name'].value_counts().plot(kind='bar',figsize=(20,10))

OUTPUT:



DESCRIPTION:

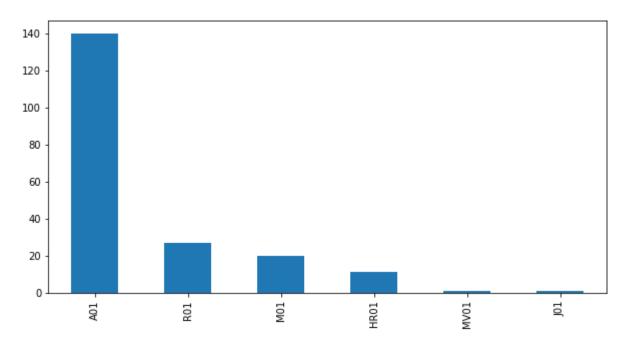
From the given data in csv file the customer's name is taken and using the built-in function the count is extracted and the graph is plotted.

Create a graph which displays Marketing Staff sales count. [Ex. A01=5, M12=15]. Display this information in a graph. Hint: use value counts ().

CODE:

df['Marketing Staff'].value_counts().plot(kind='bar',figsize=(10,5))

OUTPUT:



DESCRIPTION:

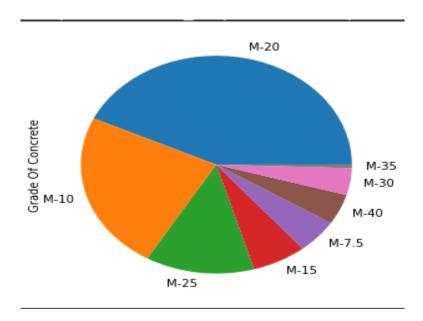
From the given data in csv file the marketing staff details are taken and using the built-in function the count of elements is extracted and the graph is plotted.

Display the graph which displays Gradewise sales count [Ex:M10=90]. Display this information in a graph. Hint: use value_counts ()

CODE:

df['Grade Of Concrete'].value_counts().plot(kind='pie',figsize=(10,5))

OUTPUT:



DESCRIPTION:

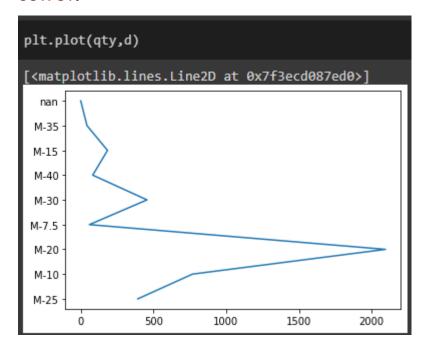
From the given data in csv file the grade of concrete details is taken and using the built-in function the count of elements is extracted and the graph is generated.

Display the graph which shows the total quantity of each grades. [Ex.M10=30].

CODE:

```
qty=[]
for j in range(len(d)):
    a=0
    for i in range(len(df)):
    if(d[j]==df['Grade Of Concrete'][i]):
        a+=df['QTY'][i]
    qty.append(a)
print(*qty)
```

OUTPUT:



DESCRIPTION:

From the given data in csv file the grade of concrete details and also the quantity details are taken. The quantity is extracted and then with these elements the graph is plotted.

Perform Descriptive Analysis

CODE AND OUTPUT:

MEAN:

meanqty=df['QTY']. mean()
meanqty

```
MEAN

[24] meanqty=df['QTY'].mean()
meanqty

20.405
```

MEDIAN:

medianqty=df['QTY'].median()
medianqty

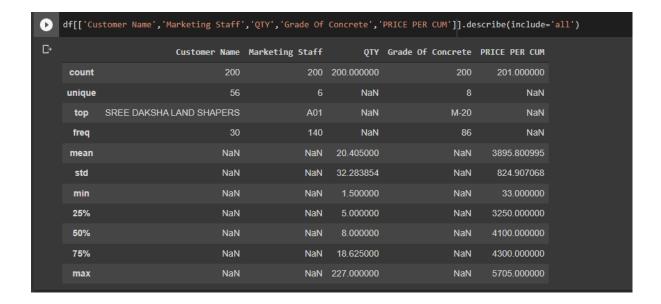
MODE:

modeqty=df['QTY'].mode()
modeqty

```
MODE

modeqty=df['QTY'].mode()
modeqty

4.0
dtype: float64
```



DESCRIPTION:

The descriptive analysis includes mean, median and mode.

All these three analyses are done using the respective built-in functions and the output is extracted successfully.

PROJECT LINK: https://github.com/Kirubasini/HOPE-AI-INTERN