

```
import pandas as pd
df = pd.read_csv('Sales Dataset.csv')
print(df)
print(df.dtypes)
print(df.describe())
print(df.isna().sum())
df= df.dropna()
print(df.isna().sum())
print(df.duplicated())
df.drop_duplicates(inplace = True)
print(df)
print(df.head(20))
print(df['Category'])
print(df[['Amount','Profit']])
from matplotlib import pyplot
from pandas import read_csv
df = read_csv('Sales Dataset.csv')
df.hist()
pyplot.show()
df.plot("Profit")
pyplot.show()
df = df.head(7)
df.plot(x="Profit",y="Quantity")
pyplot.show()
df.plot(kind="box", subplots=True, layout=(3,2))
pyplot.show()
df.plot(kind="bar", subplots=True, layout=(5,3))
pyplot.show()
df.plot(kind='density', subplots=True, layout=(3,2))
pyplot.show()
df.plot(kind='density')
pyplot.show()
```

	Order ID	Amount	Profit	Quantity	Category	Sub-Category	PaymentMode	Order Date	CustomerName	State	City	Year-Month
0	B-26776	9726	1275	5	Electronics	Electronic Games	UPI	2023-06-27	David Padilla	Florida	Miami	2023-06
1	B-26776	9726	1275	5	Electronics	Electronic Games	UPI	2024-12-27	Connor Morgan	Illinois	Chicago	2024-12
2	B-26776	9726	1275	5	Electronics	Electronic Games	UPI	2021-07-25	Robert Stone	New York	Buffalo	2021-07
3	B-26776	4975	1330	14	Electronics	Printers	UPI	2023-06-27	David Padilla	Florida	Miami	2023-06
4	B-26776	4975	1330	14	Electronics	Printers	UPI	2024-12-27	Connor Morgan	Illinois	Chicago	2024-12
...
1189	B-26370	8825	3594	15	Furniture	Tables	Debit Card	2024-07-31	Megan McLean	New York	New York City	2024-07
1190	B-26298	2082	642	8	Electronics	Phones	EMI	2020-06-02	Caitlin Hunt	New York	Rochester	2020-06
1191	B-26298	2082	642	8	Electronics	Phones	EMI	2022-12-15	Jenna Holland	Texas	Austin	2022-12
1192	B-26298	2082	642	8	Electronics	Phones	EMI	2020-08-07	Stephanie Oconnell	New York	Buffalo	2020-08
1193	B-25068	914	163	13	Office Supplies	Markers	UPI	2024-10-26	Andrea Hill	Illinois	Chicago	2024-10

[1194 rows x 12 columns]

Order ID object
Amount int64
Profit int64
Quantity int64
Category object
Sub-Category object
PaymentMode object
Order Date object
CustomerName object
State object
City object
Year-Month object
dtype: object

	Amount	Profit	Quantity
count	1194.000000	1194.000000	1194.000000
mean	5178.089615	1348.992462	10.674204
std	2804.921955	1117.992573	5.777102
min	508.000000	50.000000	1.000000
25%	2799.000000	410.000000	6.000000
50%	5152.000000	1014.000000	11.000000
75%	7626.000000	2035.000000	16.000000
max	9992.000000	4930.000000	20.000000

Order ID	0
Amount	0
Profit	0
Quantity	0
Category	0
Sub-Category	0
PaymentMode	0
Order Date	0
CustomerName	0
State	0
City	0
Year-Month	0
dtype: int64	
Order ID	0
Amount	0
Profit	0
Quantity	0
Category	0
Sub-Category	0
PaymentMode	0
Order Date	0
CustomerName	0
State	0
City	0
Year-Month	0

```
dtype: int64
0      False
1      False
2      False
3      False
4      False
...
1189   False
1190   False
1191   False
1192   False
1193   False
Length: 1194, dtype: bool

Order ID Amount Profit Quantity Category Sub-Category PaymentMode Order Date CustomerName State City Year-Month
0 B-26776 9726 1275 5 Electronics Electronic Games UPI 2023-06-27 David Padilla Florida Miami 2023-06
1 B-26776 9726 1275 5 Electronics Electronic Games UPI 2024-12-27 Connor Morgan Illinois Chicago 2024-12
2 B-26776 9726 1275 5 Electronics Electronic Games UPI 2021-07-25 Robert Stone New York Buffalo 2021-07
3 B-26776 4975 1330 14 Electronics Printers UPI 2023-06-27 David Padilla Florida Miami 2023-06
4 B-26776 4975 1330 14 Electronics Printers UPI 2024-12-27 Connor Morgan Illinois Chicago 2024-12
... ..
1189 B-26370 8825 3594 15 Furniture Tables Debit Card 2024-07-31 Megan Mclean New York New York City 2024-07
1190 B-26298 2082 642 8 Electronics Phones EMI 2020-06-02 Caitlin Hunt New York Rochester 2020-06
1191 B-26298 2082 642 8 Electronics Phones EMI 2022-12-15 Jenna Holland Texas Austin 2022-12
1192 B-26298 2082 642 8 Electronics Phones EMI 2020-08-07 Stephanie Oconnell New York Buffalo 2020-08

[1194 rows x 12 columns]
Order ID Amount Profit Quantity Category Sub-Category PaymentMode Order Date CustomerName State City Year-Month
0 B-26776 9726 1275 5 Electronics Electronic Games UPI 2023-06-27 David Padilla Florida Miami 2023-06
1 B-26776 9726 1275 5 Electronics Electronic Games UPI 2024-12-27 Connor Morgan Illinois Chicago 2024-12
2 B-26776 9726 1275 5 Electronics Electronic Games UPI 2021-07-25 Robert Stone New York Buffalo 2021-07
3 B-26776 4975 1330 14 Electronics Printers UPI 2023-06-27 David Padilla Florida Miami 2023-06
4 B-26776 4975 1330 14 Electronics Printers UPI 2024-12-27 Connor Morgan Illinois Chicago 2024-12
5 B-26776 4975 1330 14 Electronics Printers UPI 2021-07-25 Robert Stone New York Buffalo 2021-07
6 B-26942 1525 185 12 Office Supplies Pens Debit Card 2024-05-11 John Fields Florida Orlando 2024-05
7 B-26942 1525 185 12 Office Supplies Pens Debit Card 2021-10-09 Clayton Smith Florida Miami 2021-10
8 B-26640 883 117 10 Electronics Laptops EMI 2022-11-18 Richard Kelley California Los Angeles 2022-11
9 B-26640 8127 3551 16 Furniture Tables Credit Card 2022-11-18 Richard Kelley California Los Angeles 2022-11
10 B-25890 2516 734 19 Furniture Chairs UPI 2023-11-12 Jacqueline Hubbard New York New York City 2023-11
11 B-25102 2975 462 14 Office Supplies Pens Credit Card 2020-03-23 Jessica Anderson New York New York City 2020-03
12 B-25426 6851 2812 1 Office Supplies Markers Debit Card 2020-05-04 Mary Taylor Florida Orlando 2020-05
13 B-25426 7626 1046 15 Furniture Sofas Credit Card 2020-05-04 Mary Taylor Florida Orlando 2020-05
14 B-25426 1023 78 9 Furniture Tables UPI 2020-05-04 Mary Taylor Florida Orlando 2020-05
15 B-25238 7600 1098 10 Office Supplies Pens UPI 2023-11-09 Walter Crawford Illinois Springfield 2023-11
16 B-25238 7501 262 18 Office Supplies Paper COD 2023-11-09 Walter Crawford Illinois Springfield 2023-11
17 B-25051 725 133 6 Office Supplies Paper Credit Card 2024-12-30 Lawrence Robinson New York Rochester 2024-12
18 B-25051 7201 2685 2 Furniture Tables Credit Card 2024-12-30 Lawrence Robinson New York Rochester 2024-12
19 B-26510 1629 265 1 Office Supplies Paper UPI 2025-02-11 Douglas Pennington Texas Dallas 2025-02

0 Electronics
1 Electronics
2 Electronics
3 Electronics
4 Electronics
...
1189 Furniture
1190 Electronics
1191 Electronics
1192 Electronics
1193 Office Supplies
Name: Category, Length: 1194, dtype: object
Name: Category, Length: 1194, dtype: object
Amount Profit
0 9726 1275
1 9726 1275
2 9726 1275
3 4975 1330
4 4975 1330
... ..
1189 8825 3594
1190 2082 642
1191 2082 642
1192 2082 642
1193 914 163

[1194 rows x 2 columns]
```





