

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from scipy import stats

import os
os.chdir("C:/Users/mathava naresh/Desktop/naresh")

df=pd.read_csv('mock_kaggle.csv')
```

df



	data	venda	estoque	preco
0	2014-01-01	0	4972	1.29
1	2014-01-02	70	4902	1.29
2	2014-01-03	59	4843	1.29
3	2014-01-04	93	4750	1.29
4	2014-01-05	96	4654	1.29
...	...	...	...	...
932	2016-07-27	98	3179	2.39
933	2016-07-28	108	3071	2.39
934	2016-07-29	128	4095	2.39
935	2016-07-30	270	3825	2.39
936	2016-07-31	183	3642	2.39

937 rows x 4 columns

df.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 937 entries, 0 to 936
Data columns (total 4 columns):
#   Column   Non-Null Count  Dtype
---  -
0    data     937 non-null    object
1    venda    937 non-null    int64
2    estoque  937 non-null    int64
3    preco    937 non-null    float64
dtypes: float64(1), int64(2), object(1)
memory usage: 29.4+ KB
```

df.columns

```
Index(['data', 'venda', 'estoque', 'preco'], dtype='object')
```

```
df.head()
```

	data	venda	estoque	preco
0	2014-01-01	0	4972	1.29
1	2014-01-02	70	4902	1.29
2	2014-01-03	59	4843	1.29
3	2014-01-04	93	4750	1.29
4	2014-01-05	96	4654	1.29

```
df.tail()
```

	data	venda	estoque	preco
932	2016-07-27	98	3179	2.39
933	2016-07-28	108	3071	2.39
934	2016-07-29	128	4095	2.39
935	2016-07-30	270	3825	2.39
936	2016-07-31	183	3642	2.39

```
df.describe()
```

	venda	estoque	preco
count	937.000000	937.000000	937.000000
mean	90.533618	1608.258271	1.592572
std	80.682089	1356.691877	0.529502
min	0.000000	0.000000	0.000000
25%	33.000000	794.000000	1.290000
50%	76.000000	1348.000000	1.390000
75%	127.000000	1964.000000	1.890000
max	542.000000	7228.000000	2.980000

```
df.isnull().sum()
```

```
data      0
venda     0
estoque   0
```

```
preco      0
dtype: int64
```

```
df.corr()
```

	venda	estoque	preco
venda	1.000000	0.153659	0.094779
estoque	0.153659	1.000000	-0.032604
preco	0.094779	-0.032604	1.000000

```
df.cov()
```

	venda	estoque	preco
venda	6509.599563	1.681963e+04	4.049096
estoque	16819.631265	1.840613e+06	-23.421562
preco	4.049096	-2.342156e+01	0.280372

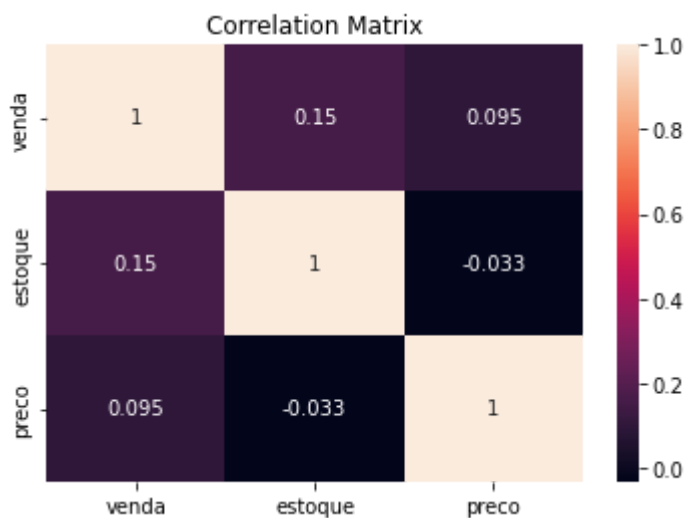
```
df.dtypes
```

```
data      object
venda     int64
estoque   int64
preco     float64
dtype: object
```

```
df.shape
```

```
(937, 4)
```

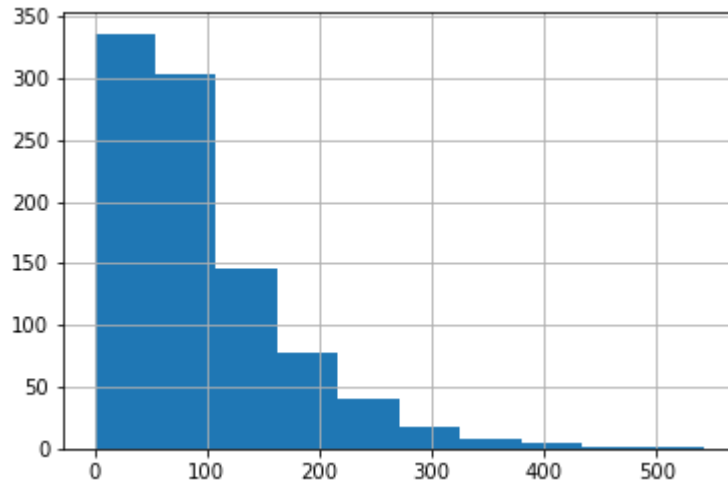
```
sns.heatmap(df.corr(), annot = True)
plt.title("Correlation Matrix")
plt.show()
```



```
%matplotlib inline
```

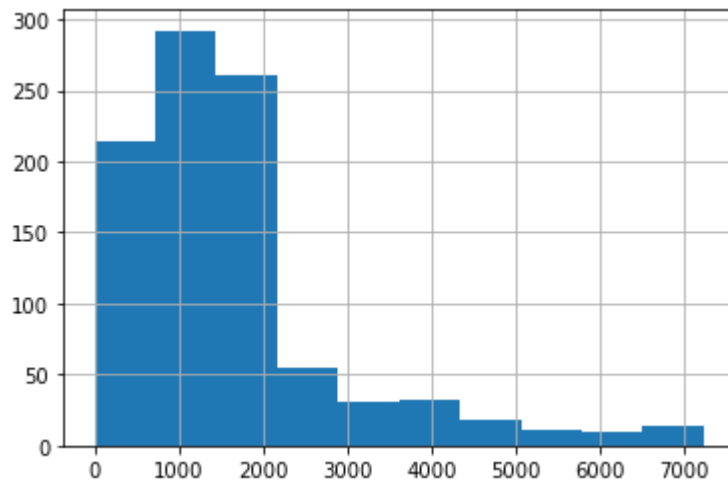
```
df['venda'].hist(bins=10)
```

<AxesSubplot:>



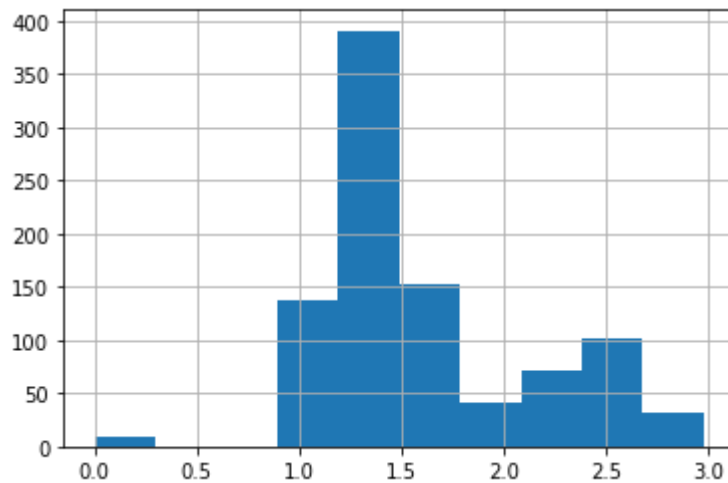
```
df['estoque'].hist(bins=10)
```

<AxesSubplot:>



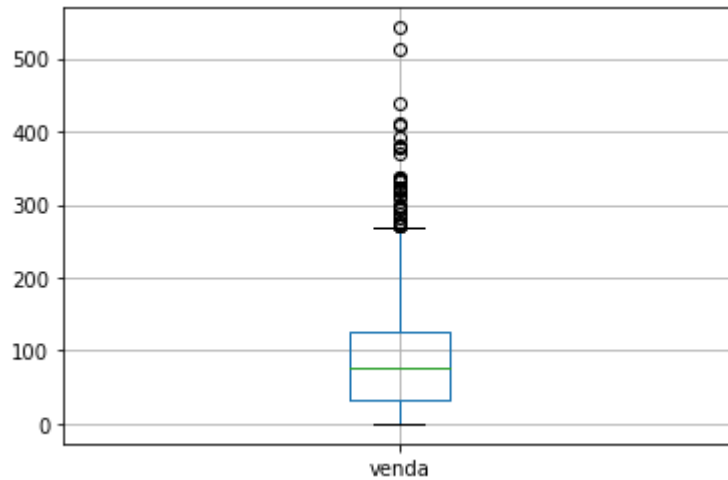
```
df['preco'].hist(bins=10)
```

<AxesSubplot:>



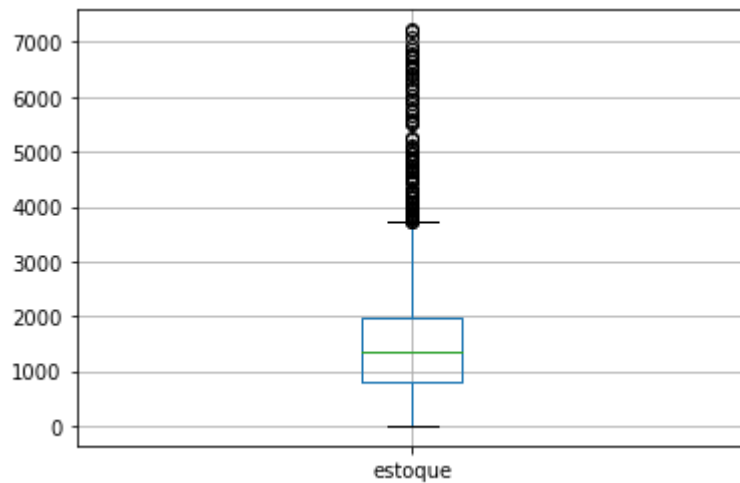
```
df.boxplot(column='venda')
```

<AxesSubplot:>



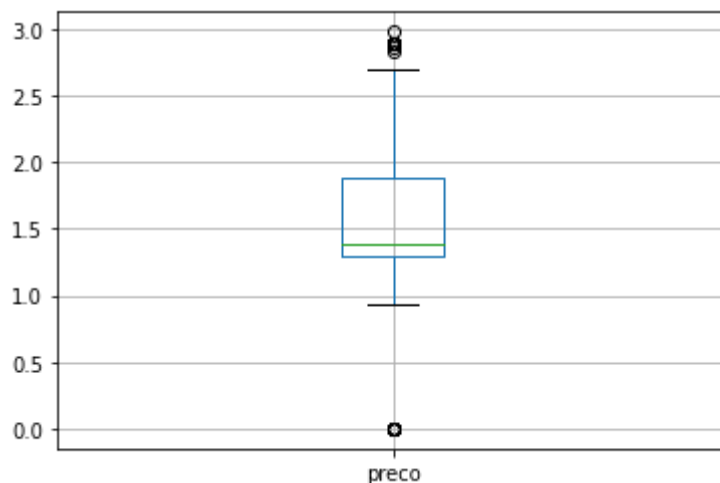
```
df.boxplot(column='estoque')
```

<AxesSubplot:>



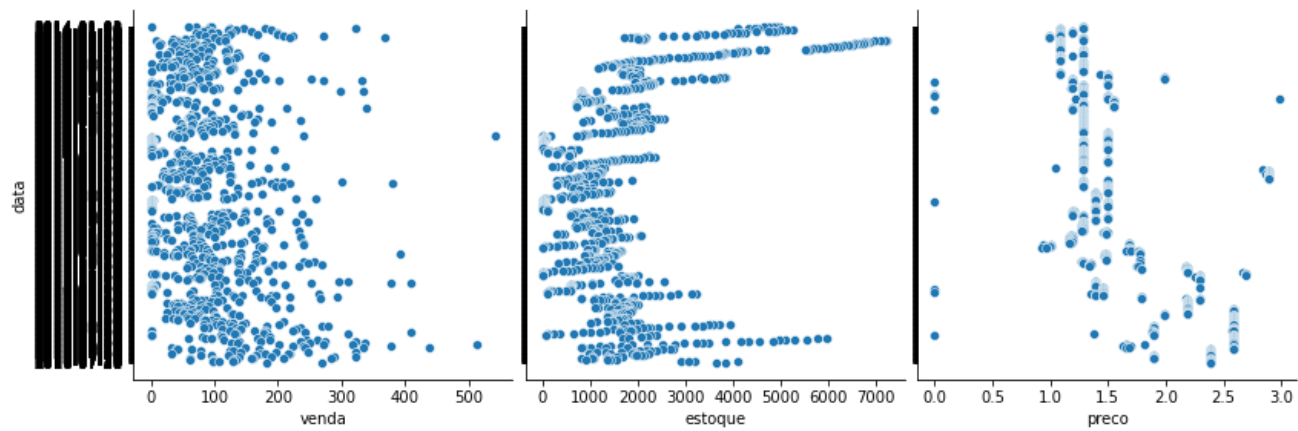
```
df.boxplot(column='preco')
```

<AxesSubplot:>



```
sns.pairplot(df, x_vars=['venda','estoque','preco'], y_vars='data', height = 4)
```

<seaborn.axisgrid.PairGrid at 0x18256974fd0>



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