```
In [1]: import pandas as pd
```

Out[2]:

	Customer	Saleorder	material	year	Рс
0	O41	161573638	material_000440	2013	350
1	K37	161575514	material_000771	2017	1
2	K37	161575514	material_000158	2017	2
3	K37	161575514	material_000422	2017	2
4	K37	161575514	material_000831	2017	4
276249	O41	164215683	material_000139	2018	20
276250	O41	164215683	material_000030	2018	25
276251	O41	164215683	material_000155	2018	25
276252	O41	164215683	material_000184	2018	40
276253	O41	164215683	material_000226	2018	2,000

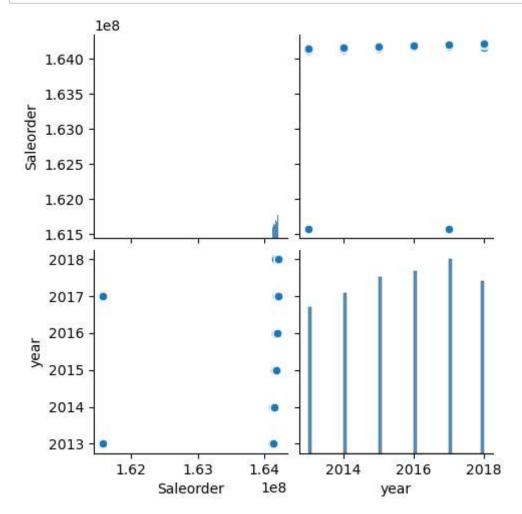
276254 rows × 5 columns

In [6]: print(data.head())

Customer		Saleorder	material	year	Pc
0	041	161573638	material_000440	2013	350
1	K37	161575514	material_000771	2017	1
2	K37	161575514	material_000158	2017	2
3	K37	161575514	material_000422	2017	2
4	K37	161575514	material 000831	2017	4

```
In [9]: import matplotlib.pyplot as plt
import seaborn as sns

sns.pairplot(data)
plt.show()
```



In [21]: %pylab inline import pandas as pd import seaborn as sns from sklearn.model_selection import train_test_split df = pd.read_csv('DataQuiz.csv', usecols=[1,2,3,4,5]) X = df[['Customer','Saleorder','material','Pc']] y = df[['year']] X_train,X_test,y_train,y_test = train_test_split(X,y,test_size=0.3,random_stat X_train.head() X_test.head() y_train.head() y_train.head()

%pylab is deprecated, use %matplotlib inline and import the required librarie s.

Populating the interactive namespace from numpy and matplotlib

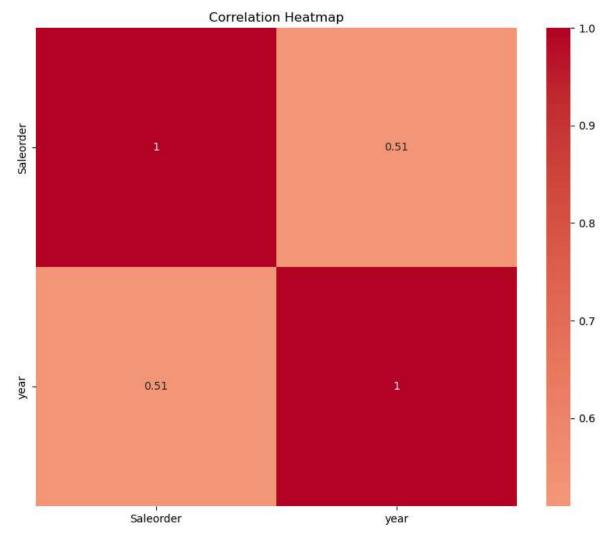
C:\Users\User\AppData\Local\Temp\ipykernel_18524\2579233424.py:5: FutureWarning: Defining usecols with out of bounds indices is deprecated and will raise a ParserError in a future version.

df = pd.read_csv('DataQuiz.csv', usecols=[1,2,3,4,5])

Out[21]:

	year
129847	50
176542	50
40324	20
92659	8
257471	100

```
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
file_path = 'path/to/your/file.csv'
data = pd.read_csv('DataQuiz.csv')
plt.figure(figsize=(10, 8))
sns.heatmap(correlation_matrix, annot=True, cmap='coolwarm', center=0)
plt.title('Correlation Heatmap')
plt.show()
```



```
In [28]: correlation_matrix = data.corr()
print(correlation_matrix)
```

Saleorder year Saleorder 1.000000 0.509506 year 0.509506 1.000000

C:\Users\User\AppData\Local\Temp\ipykernel_18524\4203189485.py:1: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a future version, it will default to False. Select only valid columns or specify the value of numeric_only to silence this warning.

correlation_matrix = data.corr()

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In []: