

```
In [2]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

```
In [3]: df1=pd.read_csv('sales.csv', encoding='ISO-8859-1')
df2=pd.read_json('sales.json')
df3=pd.read_excel('sales.xlsx')
```

```
In [4]: df1.head()
```

```
Out[4]:
```

	ORDERNUMBER	QUANTITYORDERED	PRICEEACH	ORDERLINENUMBER	SALES	ORDERDATE
0	10107	30	95.70	2	2871.00	2/24/2003 0:00
1	10121	34	81.35	5	2765.90	5/7/2003 0:00
2	10134	41	94.74	2	3884.34	7/1/2003 0:00
3	10145	45	83.26	6	3746.70	8/25/2003 0:00
4	10159	49	100.00	14	5205.27	10/10/2003 0:00

5 rows × 25 columns

```
In [5]: df2.head()
```

```
Out[5]:
```

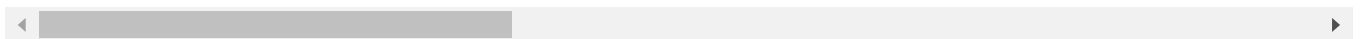
	ORDERNUMBER	QUANTITYORDERED	PRICEEACH	ORDERLINENUMBER	SALES	ORDERDATE
0	10107	30	95.70	2	2871.00	2/24/2003 0:00
1	10121	34	81.35	5	2765.90	5/7/2003 0:00
2	10134	41	94.74	2	3884.34	7/1/2003 0:00
3	10145	45	83.26	6	3746.70	8/25/2003 0:00
4	10159	49	100.00	14	5205.27	10/10/2003 0:00

5 rows × 25 columns

```
In [6]: df3.head()
```

Out[6]:	ORDERNUMBER	QUANTITYORDERED	PRICEEACH	ORDERLINENUMBER	SALES	ORDERDATE
0	10107	30	95.70	2	2871.00	2/24/2003 0:00
1	10121	34	81.35	5	2765.90	5/7/2003 0:00
2	10134	41	94.74	2	3884.34	7/1/2003 0:00
3	10145	45	83.26	6	3746.70	8/25/2003 0:00
4	10159	49	100.00	14	5205.27	10/10/2003 0:00

5 rows × 25 columns



In [7]: `df1.shape`

Out[7]: (2823, 25)

In [8]: `df2.shape`

Out[8]: (2823, 25)

In [9]: `df3.shape`

Out[9]: (2823, 25)

In [10]: `df1.info()`

```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2823 entries, 0 to 2822
Data columns (total 25 columns):
#   Column                Non-Null Count  Dtype
---  -
0   ORDERNUMBER           2823 non-null   int64
1   QUANTITYORDERED       2823 non-null   int64
2   PRICEEACH             2823 non-null   float64
3   ORDERLINENUMBER       2823 non-null   int64
4   SALES                 2823 non-null   float64
5   ORDERDATE             2823 non-null   object
6   STATUS                2823 non-null   object
7   QTR_ID               2823 non-null   int64
8   MONTH_ID             2823 non-null   int64
9   YEAR_ID              2823 non-null   int64
10  PRODUCTLINE           2823 non-null   object
11  MSRP                  2823 non-null   int64
12  PRODUCTCODE           2823 non-null   object
13  CUSTOMERNAME          2823 non-null   object
14  PHONE                 2823 non-null   object
15  ADDRESSLINE1           2823 non-null   object
16  ADDRESSLINE2           302 non-null    object
17  CITY                  2823 non-null   object
18  STATE                 1337 non-null   object
19  POSTALCODE            2747 non-null   object
20  COUNTRY               2823 non-null   object
21  TERRITORY             1749 non-null   object
22  CONTACTLASTNAME       2823 non-null   object
23  CONTACTFIRSTNAME      2823 non-null   object
24  DEALSIZE              2823 non-null   object
dtypes: float64(2), int64(7), object(16)
memory usage: 551.5+ KB

```

```

In [12]: #Checks for NA values in columns
df1.isna().sum()

```

```

Out[12]: ORDERNUMBER           0
QUANTITYORDERED       0
PRICEEACH             0
ORDERLINENUMBER       0
SALES                 0
ORDERDATE             0
STATUS                0
QTR_ID               0
MONTH_ID             0
YEAR_ID              0
PRODUCTLINE           0
MSRP                  0
PRODUCTCODE           0
CUSTOMERNAME          0
PHONE                 0
ADDRESSLINE1           0
ADDRESSLINE2           2521
CITY                  0
STATE                 1486
POSTALCODE            76
COUNTRY               0
TERRITORY             1074
CONTACTLASTNAME       0
CONTACTFIRSTNAME      0
DEALSIZE              0
dtype: int64

```

```
In [11]: #for calculating some statistical data like percentile, mean and std of the numeric
df1.describe()
```

```
Out[11]:
```

	ORDERNUMBER	QUANTITYORDERED	PRICEEACH	ORDERLINENUMBER	SALES
count	2823.000000	2823.000000	2823.000000	2823.000000	2823.000000
mean	10258.725115	35.092809	83.658544	6.466171	3553.889072
std	92.085478	9.741443	20.174277	4.225841	1841.865106
min	10100.000000	6.000000	26.880000	1.000000	482.130000
25%	10180.000000	27.000000	68.860000	3.000000	2203.430000
50%	10262.000000	35.000000	95.700000	6.000000	3184.800000
75%	10333.500000	43.000000	100.000000	9.000000	4508.000000
max	10425.000000	97.000000	100.000000	18.000000	14082.800000

```
In [12]: #Dropping unnecessary columns
df1 = df1.drop(['ADDRESSLINE1', 'ADDRESSLINE2', 'CITY', 'STATE', 'TERRITORY'], axis = 1)
```

```
In [13]: df1.isna().sum()
```

```
Out[13]:
```

ORDERNUMBER	0
QUANTITYORDERED	0
PRICEEACH	0
ORDERLINENUMBER	0
SALES	0
ORDERDATE	0
STATUS	0
QTR_ID	0
MONTH_ID	0
YEAR_ID	0
PRODUCTLINE	0
MSRP	0
PRODUCTCODE	0
CUSTOMERNAME	0
PHONE	0
POSTALCODE	76
COUNTRY	0
CONTACTLASTNAME	0
CONTACTFIRSTNAME	0
DEALSIZE	0

dtype: int64

```
In [14]: #Filling all NA values with mode of the POSTALCODE column
df1 = df1['POSTALCODE'].fillna(df1.POSTALCODE.mode(), inplace=True)
```

```
In [15]: df2.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2823 entries, 0 to 2822
Data columns (total 25 columns):
#   Column                Non-Null Count  Dtype
---  ---
0   ORDERNUMBER           2823 non-null  int64
1   QUANTITYORDERED       2823 non-null  int64
2   PRICEEACH             2823 non-null  float64
3   ORDERLINENUMBER       2823 non-null  int64
4   SALES                 2823 non-null  float64
5   ORDERDATE             2823 non-null  object
6   STATUS                2823 non-null  object
7   QTR_ID                2823 non-null  int64
8   MONTH_ID              2823 non-null  int64
9   YEAR_ID               2823 non-null  int64
10  PRODUCTLINE           2823 non-null  object
11  MSRP                  2823 non-null  int64
12  PRODUCTCODE           2823 non-null  object
13  CUSTOMERNAME          2823 non-null  object
14  PHONE                 2823 non-null  object
15  ADDRESSLINE1           2823 non-null  object
16  ADDRESSLINE2           2823 non-null  object
17  CITY                  2823 non-null  object
18  STATE                 2823 non-null  object
19  POSTALCODE             2823 non-null  object
20  COUNTRY                2823 non-null  object
21  TERRITORY              2823 non-null  object
22  CONTACTLASTNAME        2823 non-null  object
23  CONTACTFIRSTNAME       2823 non-null  object
24  DEALSIZE               2823 non-null  object
dtypes: float64(2), int64(7), object(16)
memory usage: 551.5+ KB
```

```
In [16]: df2.isna().sum()
```

```
Out[16]: ORDERNUMBER           0
QUANTITYORDERED         0
PRICEEACH                0
ORDERLINENUMBER         0
SALES                   0
ORDERDATE               0
STATUS                  0
QTR_ID                  0
MONTH_ID                0
YEAR_ID                 0
PRODUCTLINE             0
MSRP                    0
PRODUCTCODE             0
CUSTOMERNAME            0
PHONE                   0
ADDRESSLINE1            0
ADDRESSLINE2            0
CITY                    0
STATE                   0
POSTALCODE              0
COUNTRY                 0
TERRITORY               0
CONTACTLASTNAME         0
CONTACTFIRSTNAME        0
DEALSIZE                0
dtype: int64
```

```
In [17]: df2 = df2.drop(['ADDRESSLINE1', 'ADDRESSLINE2', 'CITY', 'STATE', 'TERRITORY'], axis = 1)
```

```
In [18]: df2.describe()
```

```
Out[18]:
```

	ORDERNUMBER	QUANTITYORDERED	PRICEEACH	ORDERLINENUMBER	SALES
count	2823.000000	2823.000000	2823.000000	2823.000000	2823.000000
mean	10258.725115	35.092809	83.658544	6.466171	3553.889072
std	92.085478	9.741443	20.174277	4.225841	1841.865106
min	10100.000000	6.000000	26.880000	1.000000	482.130000
25%	10180.000000	27.000000	68.860000	3.000000	2203.430000
50%	10262.000000	35.000000	95.700000	6.000000	3184.800000
75%	10333.500000	43.000000	100.000000	9.000000	4508.000000
max	10425.000000	97.000000	100.000000	18.000000	14082.800000

```
In [19]: df3.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2823 entries, 0 to 2822
Data columns (total 25 columns):
#   Column                Non-Null Count  Dtype
---  -
0   ORDERNUMBER           2823 non-null   int64
1   QUANTITYORDERED       2823 non-null   int64
2   PRICEEACH             2823 non-null   float64
3   ORDERLINENUMBER       2823 non-null   int64
4   SALES                 2823 non-null   float64
5   ORDERDATE             2823 non-null   object
6   STATUS                2823 non-null   object
7   QTR_ID                2823 non-null   int64
8   MONTH_ID              2823 non-null   int64
9   YEAR_ID               2823 non-null   int64
10  PRODUCTLINE           2823 non-null   object
11  MSRP                  2823 non-null   int64
12  PRODUCTCODE           2823 non-null   object
13  CUSTOMERNAME          2823 non-null   object
14  PHONE                 2823 non-null   object
15  ADDRESSLINE1          2823 non-null   object
16  ADDRESSLINE2          302 non-null    object
17  CITY                  2823 non-null   object
18  STATE                 1337 non-null   object
19  POSTALCODE            2747 non-null   object
20  COUNTRY               2823 non-null   object
21  TERRITORY             1749 non-null   object
22  CONTACTLASTNAME       2823 non-null   object
23  CONTACTFIRSTNAME      2823 non-null   object
24  DEALSIZE              2823 non-null   object
dtypes: float64(2), int64(7), object(16)
memory usage: 551.5+ KB
```

```
In [20]: df2.isna().sum()
```

```
Out[20]: ORDERNUMBER      0
          QUANTITYORDERED  0
          PRICEEACH        0
          ORDERLINENUMBER  0
          SALES             0
          ORDERDATE        0
          STATUS           0
          QTR_ID           0
          MONTH_ID         0
          YEAR_ID          0
          PRODUCTLINE      0
          MSRP             0
          PRODUCTCODE      0
          CUSTOMERNAME     0
          PHONE            0
          POSTALCODE       0
          COUNTRY          0
          CONTACTLASTNAME  0
          CONTACTFIRSTNAME 0
          DEALSIZE         0
          dtype: int64
```

```
In [21]: df3.describe()
```

```
Out[21]:
```

	ORDERNUMBER	QUANTITYORDERED	PRICEEACH	ORDERLINENUMBER	SALES	
count	2823.000000	2823.000000	2823.000000	2823.000000	2823.000000	2823.000000
mean	10258.725115	35.092809	83.658544	6.466171	3553.889072	2823.000000
std	92.085478	9.741443	20.174277	4.225841	1841.865106	2823.000000
min	10100.000000	6.000000	26.880000	1.000000	482.130000	2823.000000
25%	10180.000000	27.000000	68.860000	3.000000	2203.430000	2823.000000
50%	10262.000000	35.000000	95.700000	6.000000	3184.800000	2823.000000
75%	10333.500000	43.000000	100.000000	9.000000	4508.000000	2823.000000
max	10425.000000	97.000000	100.000000	18.000000	14082.800000	2823.000000

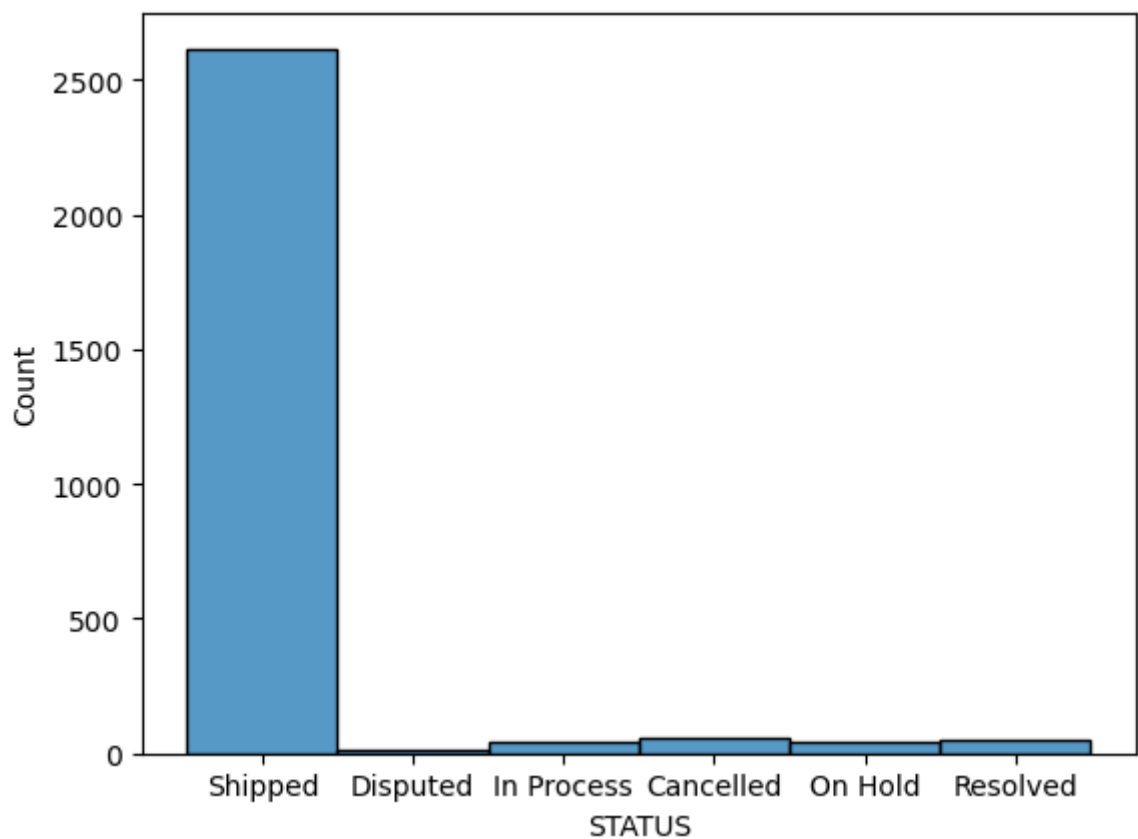
```
In [22]: import pandas as pd

# Load the CSV file into a DataFrame
df1 = pd.read_csv('sales.csv',encoding='ISO-8859-1')
df2 = pd.read_json('sales.json')
df3 = pd.read_excel('sales.xlsx')
# Check the data types of columns
data_types = df1.dtypes
print(data_types)
```

ORDERNUMBER	int64
QUANTITYORDERED	int64
PRICEEACH	float64
ORDERLINENUMBER	int64
SALES	float64
ORDERDATE	object
STATUS	object
QTR_ID	int64
MONTH_ID	int64
YEAR_ID	int64
PRODUCTLINE	object
MSRP	int64
PRODUCTCODE	object
CUSTOMERNAME	object
PHONE	object
ADDRESSLINE1	object
ADDRESSLINE2	object
CITY	object
STATE	object
POSTALCODE	object
COUNTRY	object
TERRITORY	object
CONTACTLASTNAME	object
CONTACTFIRSTNAME	object
DEALSIZE	object
dtype:	object

```
In [23]: import seaborn as sns
import matplotlib.pyplot as plt

# Assuming your DataFrame is named df1
sns.histplot(x='STATUS', data=df1)
plt.show()
```

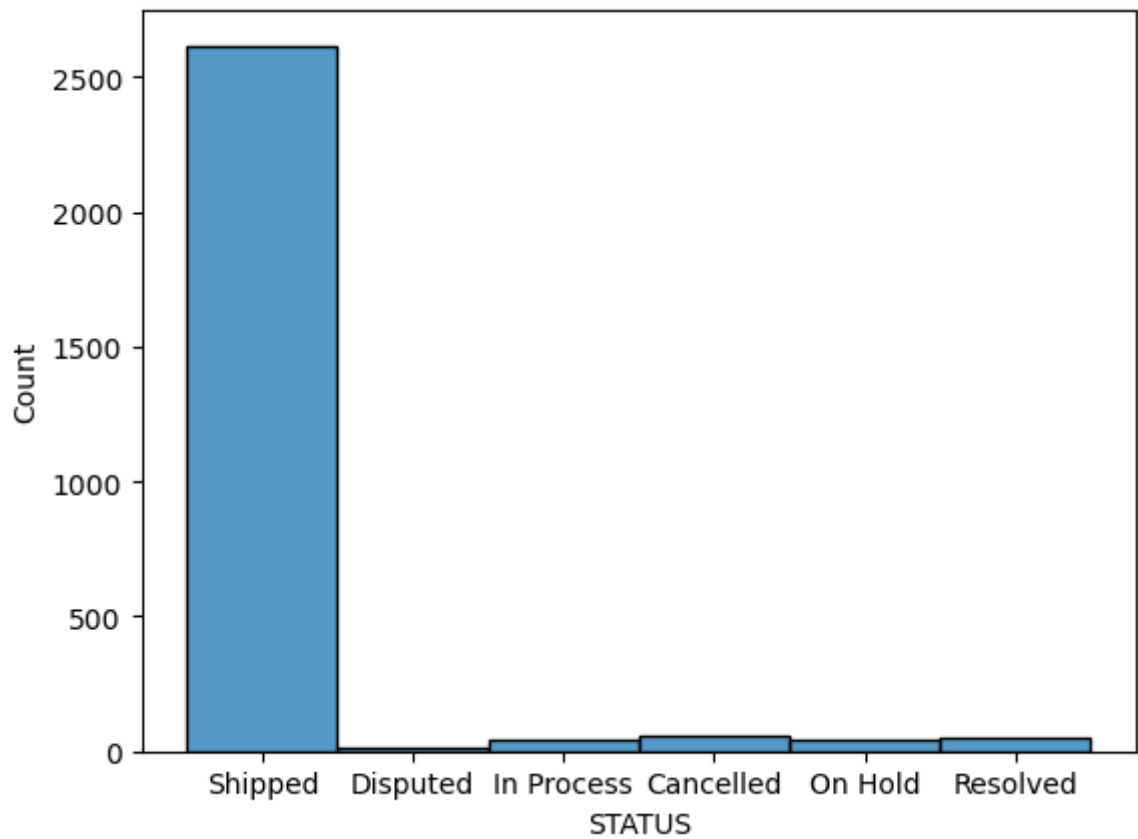


```
In [24]: #Plotting histogram plot for STATUS column
```



```
import seaborn as sns
import matplotlib.pyplot as plt

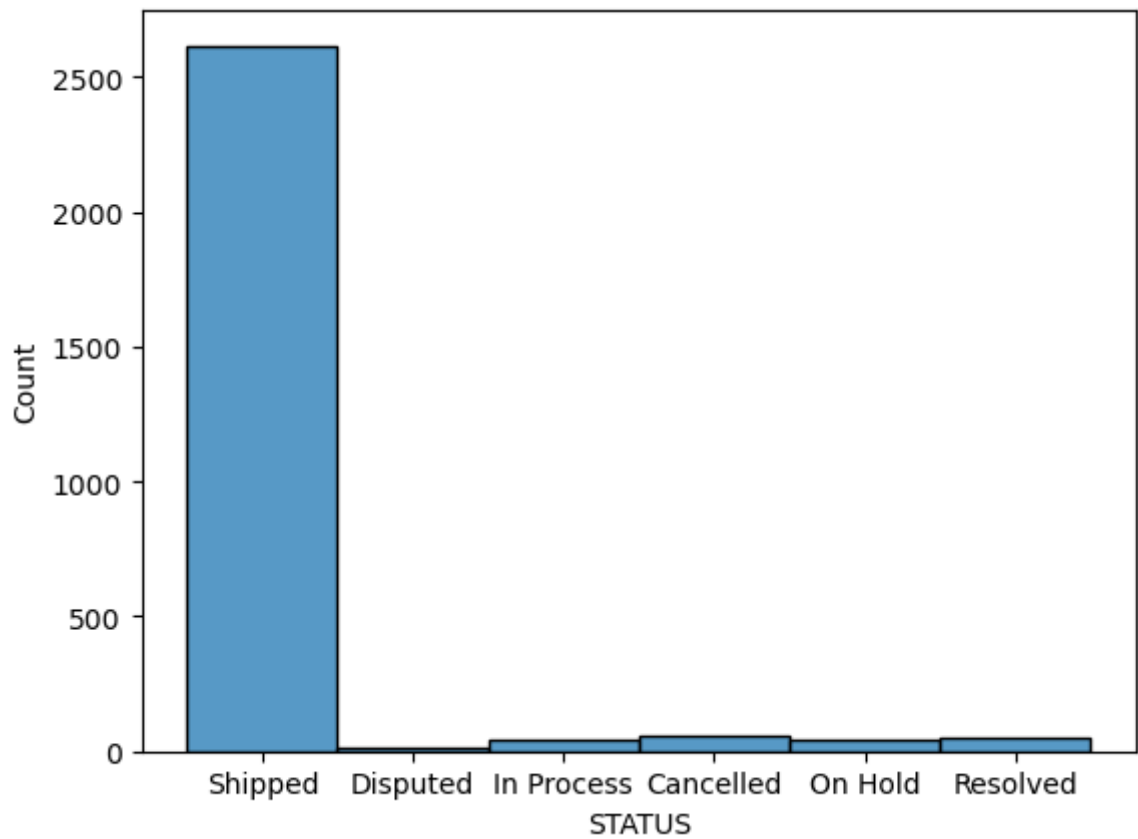
sns.histplot(x='STATUS', data=df2, )
plt.show()
```



In [25]: *#Plotting histogram plot for STATUS column*

```
import seaborn as sns
import matplotlib.pyplot as plt

sns.histplot(x='STATUS', data=df3, )
plt.show()
```



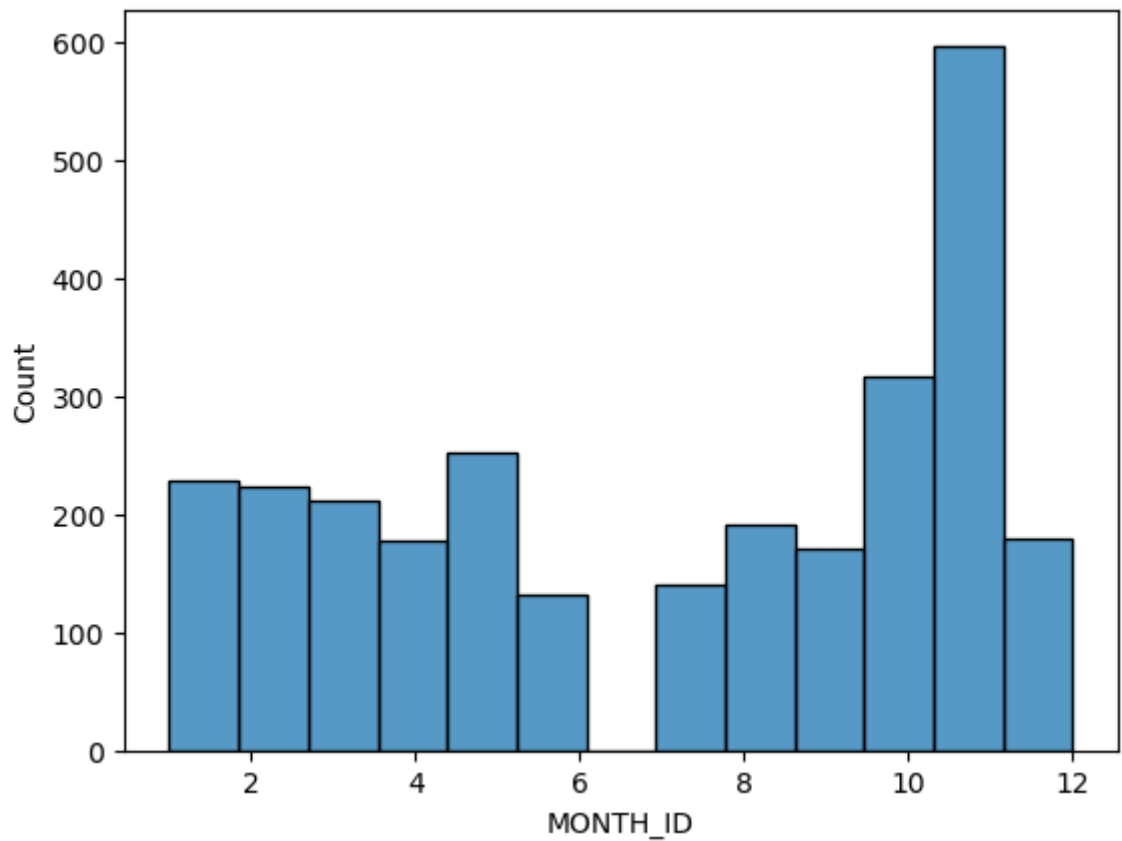
In [26]: *#Plotting histogram plot for MONTH_ID column*

```
import seaborn as sns
```

```
import matplotlib.pyplot as plt
```

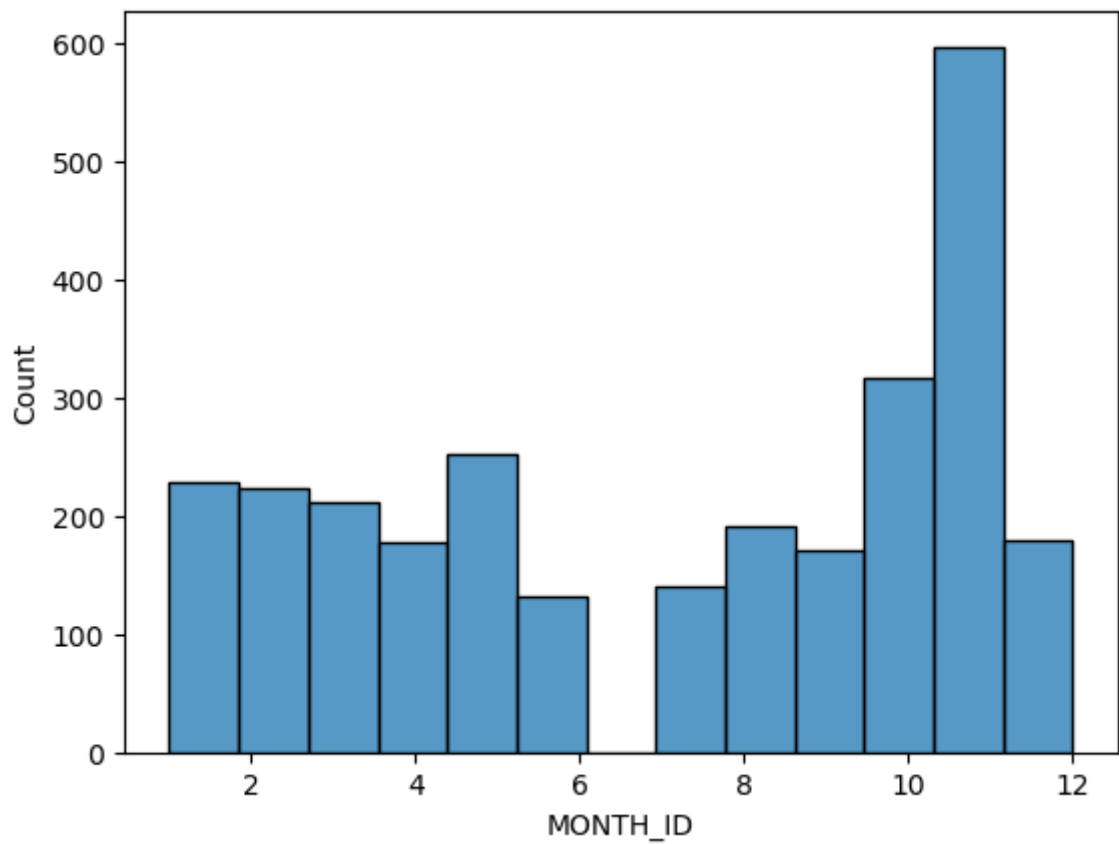
```
sns.histplot(x='MONTH_ID', data=df1, )
```

```
plt.show()
```



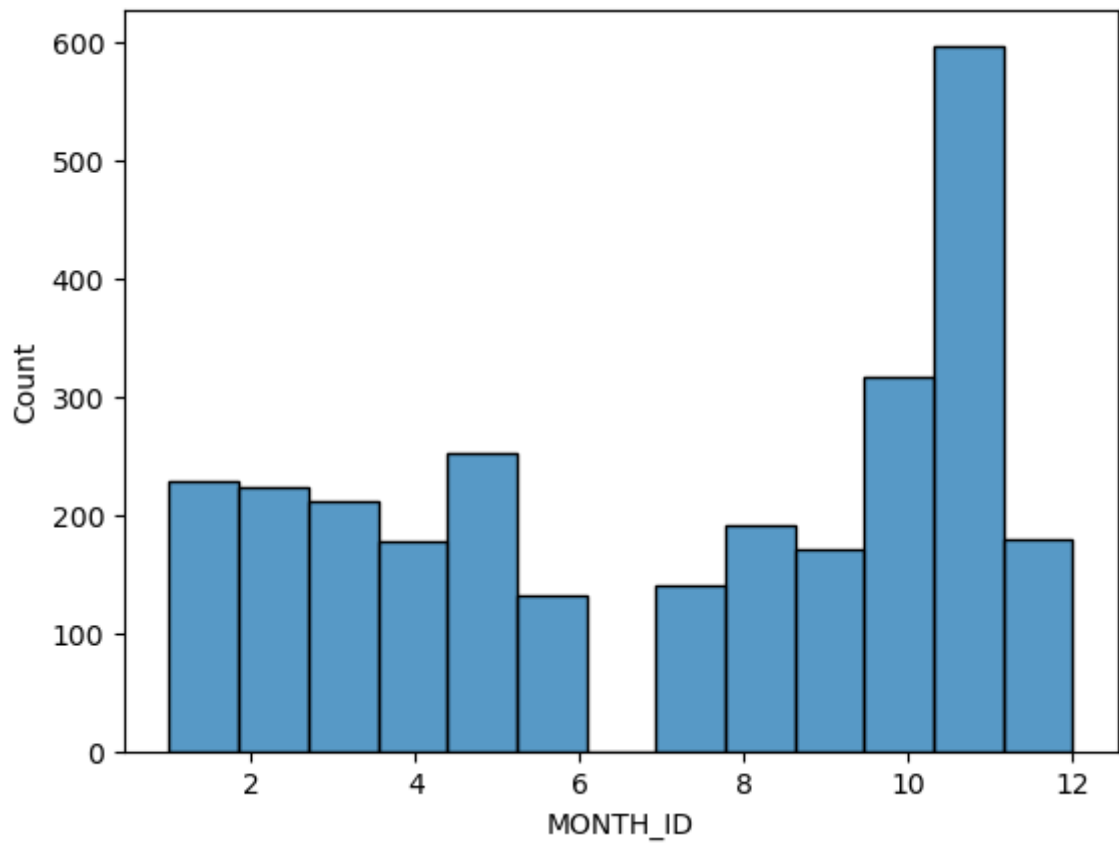
```
In [27]: #Plotting histogram plot for MONTH_ID column
import seaborn as sns
import matplotlib.pyplot as plt

sns.histplot(x='MONTH_ID', data=df2, )
plt.show()
```

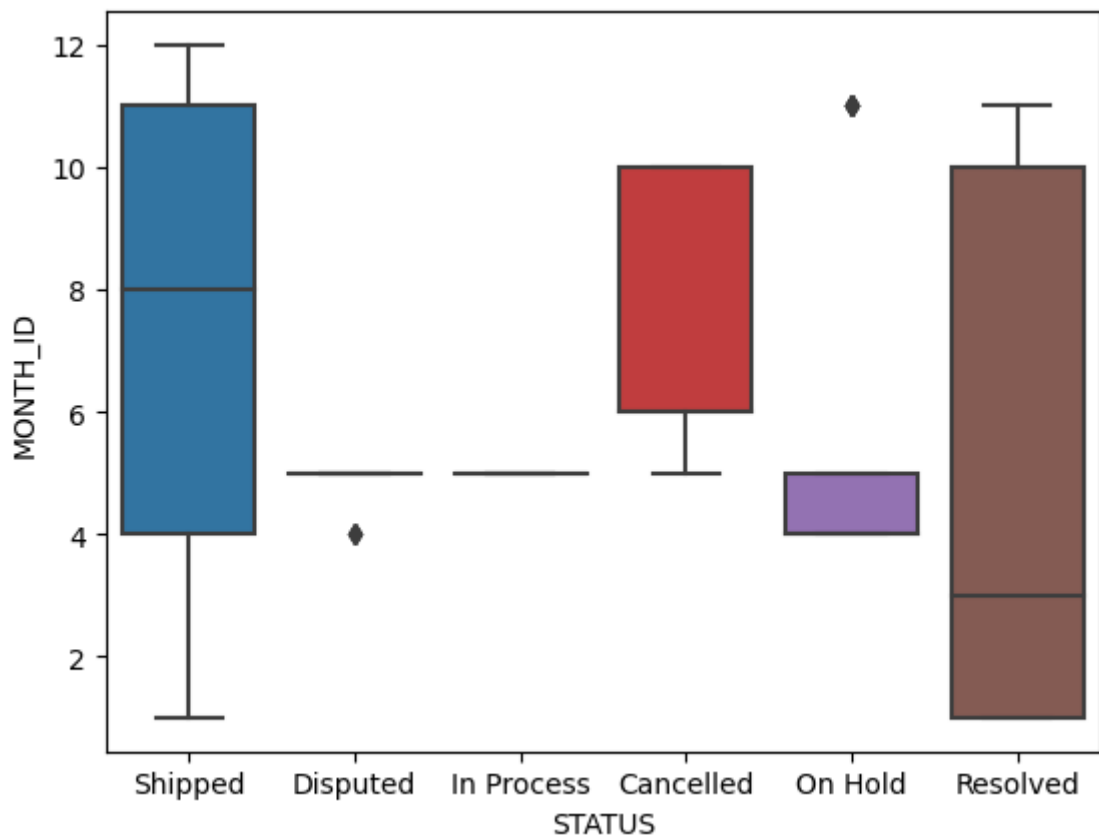


```
In [28]: #Plotting histogram plot for MONTH_ID column
import seaborn as sns
import matplotlib.pyplot as plt

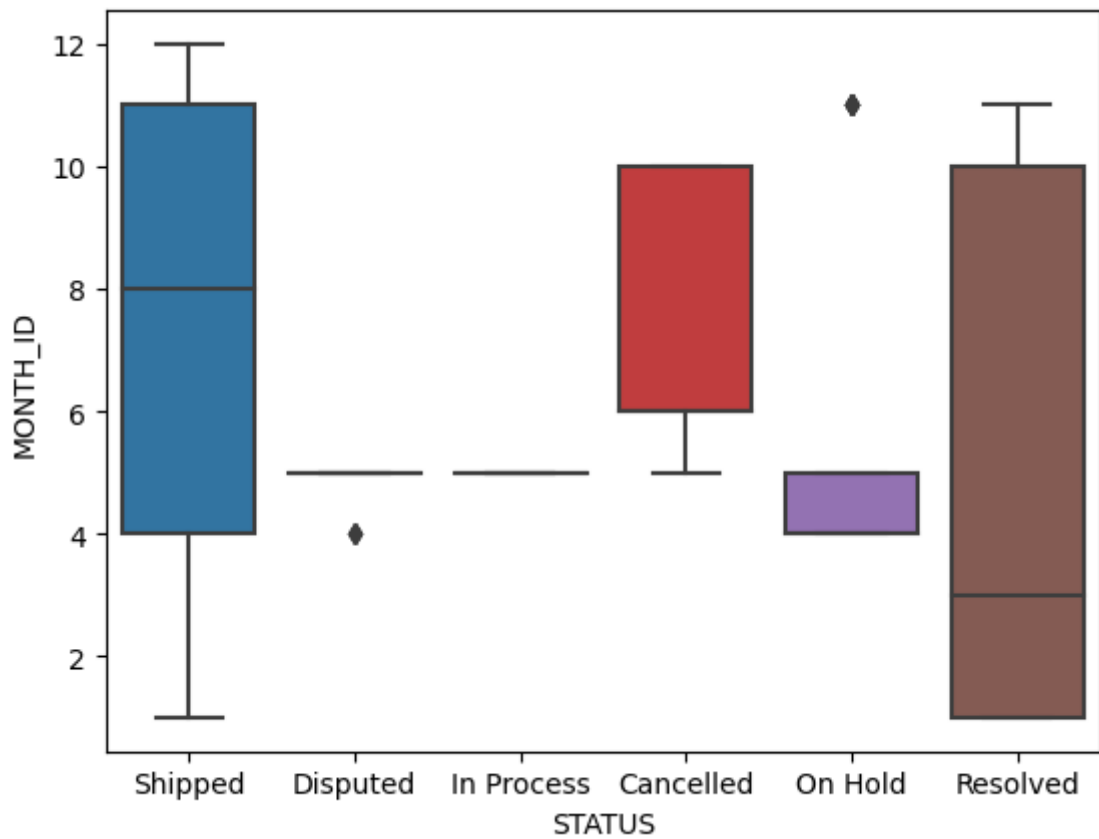
sns.histplot(x='MONTH_ID', data=df3, )
plt.show()
```



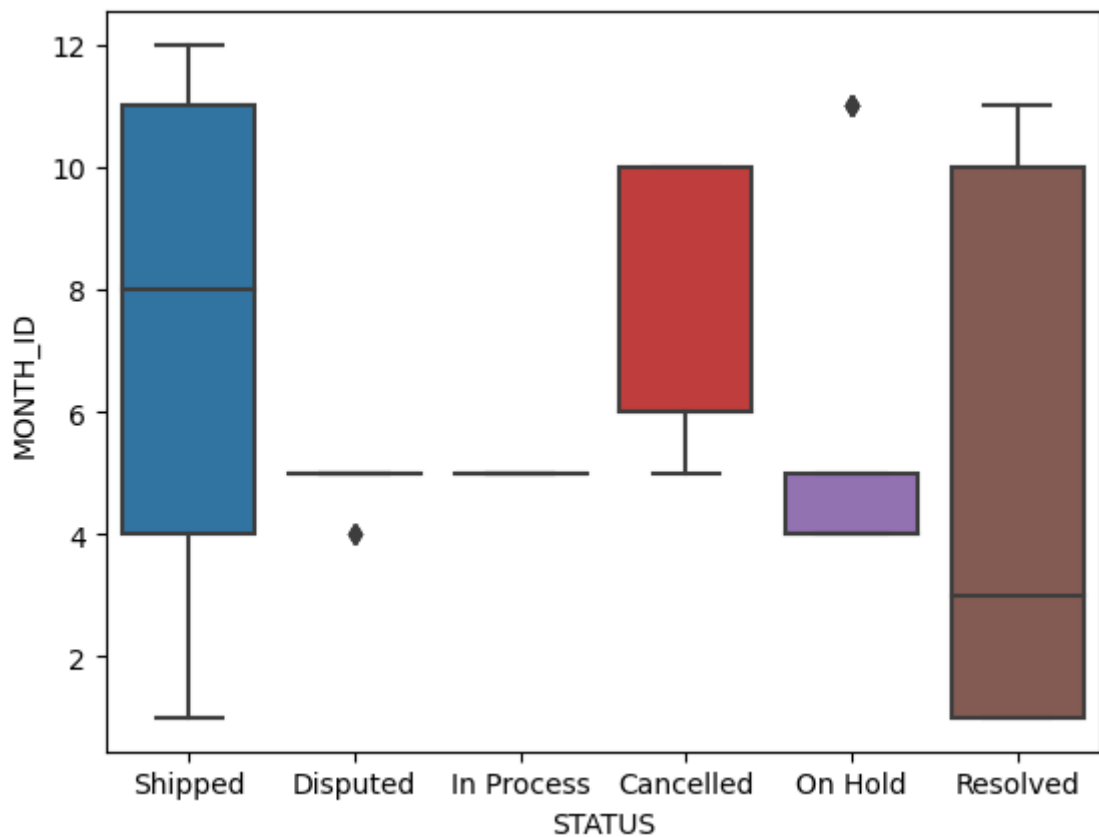
```
In [29]: #Plotting boxplot for STATUS column against MONTH_ID column
sns.boxplot( x="STATUS", y= "MONTH_ID", data=df1, )
plt.show()
```



```
In [30]: #Plotting boxplot for STATUS column against MONTH_ID column
sns.boxplot( x="STATUS", y= "MONTH_ID", data=df2, )
plt.show()
```



```
In [31]: #Plotting boxplot for STATUS column against MONTH_ID column
sns.boxplot( x="STATUS", y="MONTH_ID", data=df3, )
plt.show()
```

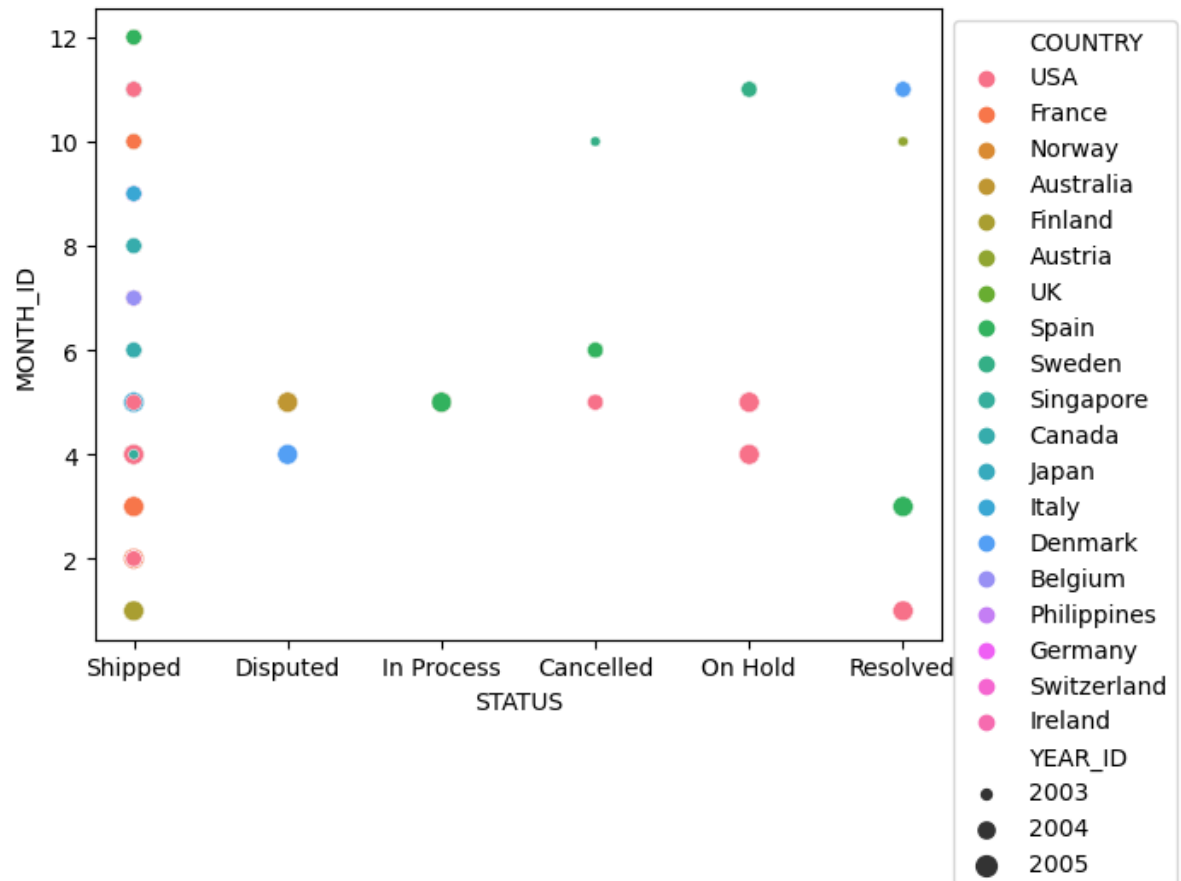


```
In [32]: #Plotting Scatterplot
sns.scatterplot( x="STATUS", y="MONTH_ID", data=df1,
                 hue='COUNTRY', size='YEAR_ID' )

# Placing Legend outside the Figure
```

```
plt.legend(bbox_to_anchor=(1, 1), loc=2)
```

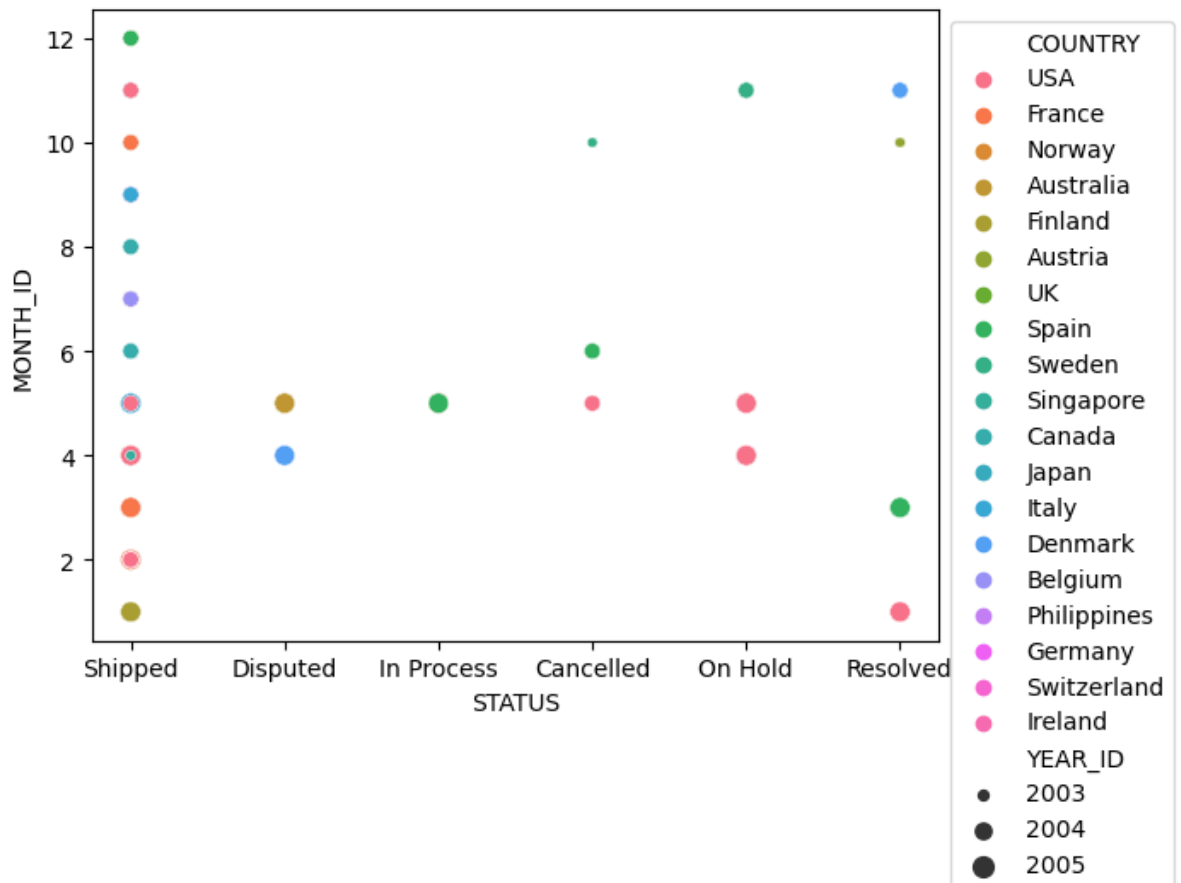
```
plt.show()
```



```
In [33]: #Plotting Scatterplot
sns.scatterplot( x="STATUS", y="MONTH_ID", data=df2,
                 hue='COUNTRY', size='YEAR_ID')

# Placing Legend outside the Figure
plt.legend(bbox_to_anchor=(1, 1), loc=2)

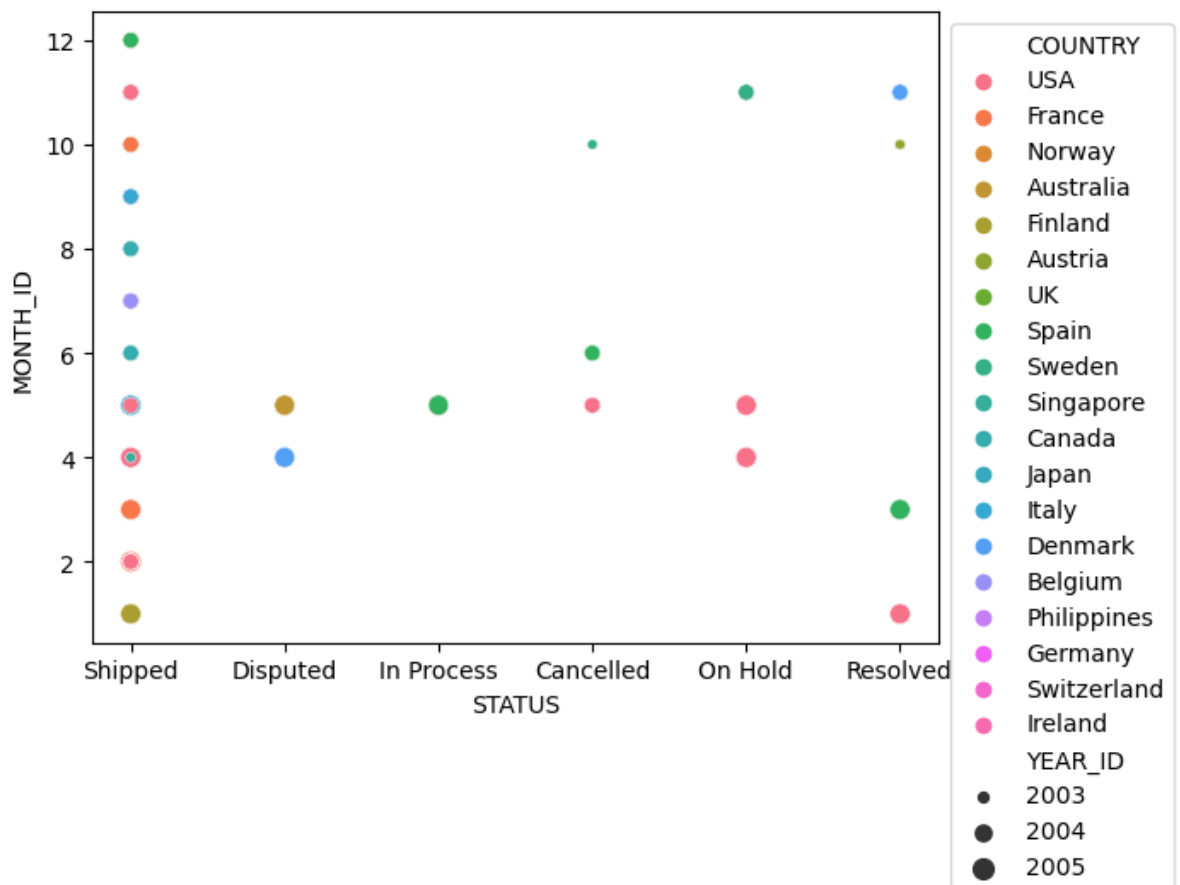
plt.show()
```



```
In [34]: #Plotting Scatterplot
sns.scatterplot( x="STATUS", y="MONTH_ID", data=df3,
                 hue='COUNTRY', size='YEAR_ID')

# Placing Legend outside the Figure
plt.legend(bbox_to_anchor=(1, 1), loc=2)

plt.show()
```



```
In [35]: #Checking the data only for shipped STATUS
data1=df1[df1["STATUS"]=="Shipped"]
data1.head()
```

	ORDERNUMBER	QUANTITYORDERED	PRICEEACH	ORDERLINENUMBER	SALES	ORDERDATE
0	10107	30	95.70	2	2871.00	2/24/2003 0:00
1	10121	34	81.35	5	2765.90	5/7/2003 0:00
2	10134	41	94.74	2	3884.34	7/1/2003 0:00
3	10145	45	83.26	6	3746.70	8/25/2003 0:00
4	10159	49	100.00	14	5205.27	10/10/2003 0:00

5 rows × 25 columns

```
In [36]: #Checking the data only for shipped STATUS
data2=df2[df2["STATUS"]=="Shipped"]
data2.head()
```


Out[36]:

	ORDERNUMBER	QUANTITYORDERED	PRICEEACH	ORDERLINENUMBER	SALES	ORDERDATE
0	10107	30	95.70	2	2871.00	2/24/2003 0:00
1	10121	34	81.35	5	2765.90	5/7/2003 0:00
2	10134	41	94.74	2	3884.34	7/1/2003 0:00
3	10145	45	83.26	6	3746.70	8/25/2003 0:00
4	10159	49	100.00	14	5205.27	10/10/2003 0:00

5 rows × 25 columns

In [37]: *#Checking the data only for shipped STATUS*
data3=df3[df3["STATUS"]=="Shipped"]
data3.head()

Out[37]:

	ORDERNUMBER	QUANTITYORDERED	PRICEEACH	ORDERLINENUMBER	SALES	ORDERDATE
0	10107	30	95.70	2	2871.00	2/24/2003 0:00
1	10121	34	81.35	5	2765.90	5/7/2003 0:00
2	10134	41	94.74	2	3884.34	7/1/2003 0:00
3	10145	45	83.26	6	3746.70	8/25/2003 0:00
4	10159	49	100.00	14	5205.27	10/10/2003 0:00

5 rows × 25 columns

In [38]: data1.shape

Out[38]: (2617, 25)

In [39]: data2.shape

Out[39]: (2617, 25)

In [40]: data3.shape

Out[40]: (2617, 25)

In [41]: *#Calculating sum for sales column*
sum_sales = df1['SALES'].sum()
print("Addition of all sales",sum_sales)

Addition of all sales 10032628.85

```
In [42]: #Calculating sum for sales column
sum_sales = df2['SALES'].sum()
print("Addition of all sales",sum_sales)
```

Addition of all sales 10032628.85

```
In [43]: #Calculating sum for sales column
sum_sales = df3['SALES'].sum()
print("Addition of all sales",sum_sales)
```

Addition of all sales 10032628.85

```
In [44]: #Calculating average for sales column
sales_avg = df1['SALES'].mean()
print("Average of total sales = ",sales_avg)
```

Average of total sales = 3553.88907190932

```
In [45]: #Calculating average for sales column
sales_avg = df2['SALES'].mean()
print("Average of total sales = ",sales_avg)
```

Average of total sales = 3553.88907190932

```
In [46]: #Calculating average for sales column
sales_avg = df3['SALES'].mean()
print("Average of total sales = ",sales_avg)
```

Average of total sales = 3553.88907190932

```
In [47]: import sklearn
import pandas as pd
import seaborn as sns

# IQR
Q1 = np.percentile(df1['SALES'], 25,
                    interpolation = 'midpoint')

Q3 = np.percentile(df1['SALES'], 75,
                    interpolation = 'midpoint')

IQR = Q3 - Q1

print("Old Shape: ", df1.shape)

# Upper bound
upper = np.where(df1['SALES'] >= (Q3+1.5*IQR))

# Lower bound
lower = np.where(df1['SALES'] <= (Q1-1.5*IQR))

# Removing the Outliers
df1.drop(upper[0], inplace = True)
df1.drop(lower[0], inplace = True)

print("New Shape: ", df1.shape)

sns.boxplot(x='SALES', data=df1)
```

Old Shape: (2823, 25)

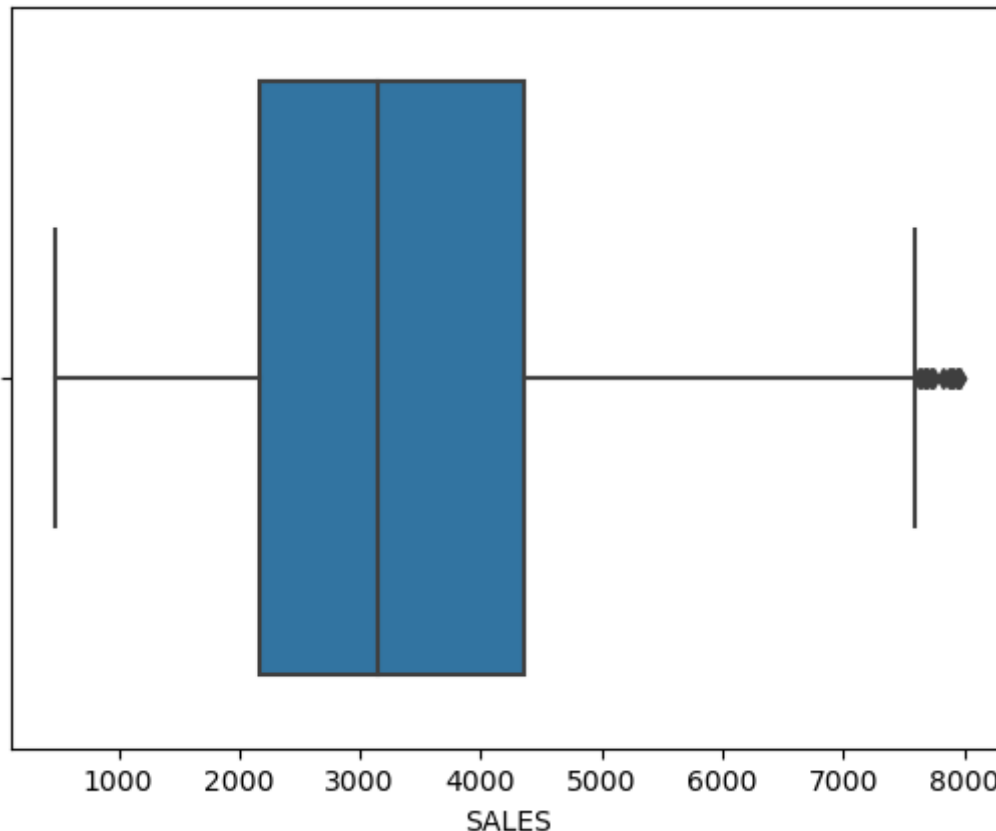
New Shape: (2742, 25)

```

C:\Users\Administrator\AppData\Local\Temp\ipykernel_4980\1327906522.py:6: Deprecat
ionWarning: the `interpolation=` argument to percentile was renamed to `method=`,
which has additional options.
Users of the modes 'nearest', 'lower', 'higher', or 'midpoint' are encouraged to r
eview the method they used. (Deprecated NumPy 1.22)
Q1 = np.percentile(df1['SALES'], 25,
C:\Users\Administrator\AppData\Local\Temp\ipykernel_4980\1327906522.py:9: Deprecat
ionWarning: the `interpolation=` argument to percentile was renamed to `method=`,
which has additional options.
Users of the modes 'nearest', 'lower', 'higher', or 'midpoint' are encouraged to r
eview the method they used. (Deprecated NumPy 1.22)
Q3 = np.percentile(df1['SALES'], 75,
<AxesSubplot:xlabel='SALES'>

```

Out[47]:



```

In [48]: import sklearn
import pandas as pd
import seaborn as sns

# IQR
Q1 = np.percentile(df2['SALES'], 25,
                    interpolation = 'midpoint')

Q3 = np.percentile(df2['SALES'], 75,
                    interpolation = 'midpoint')

IQR = Q3 - Q1

print("Old Shape: ", df2.shape)

# Upper bound
upper = np.where(df2['SALES'] >= (Q3+1.5*IQR))

# Lower bound
lower = np.where(df2['SALES'] <= (Q1-1.5*IQR))

# Removing the Outliers
df2.drop(upper[0], inplace = True)

```

```
df2.drop(lower[0], inplace = True)

print("New Shape: ", df2.shape)

sns.boxplot(x='SALES', data=df2)
```

Old Shape: (2823, 25)

New Shape: (2742, 25)

C:\Users\Administrator\AppData\Local\Temp\ipykernel_4980\3488628968.py:6: DeprecationWarning: the `interpolation=` argument to percentile was renamed to `method=`, which has additional options.

Users of the modes 'nearest', 'lower', 'higher', or 'midpoint' are encouraged to review the method they used. (Deprecated NumPy 1.22)

```
Q1 = np.percentile(df2['SALES'], 25,
```

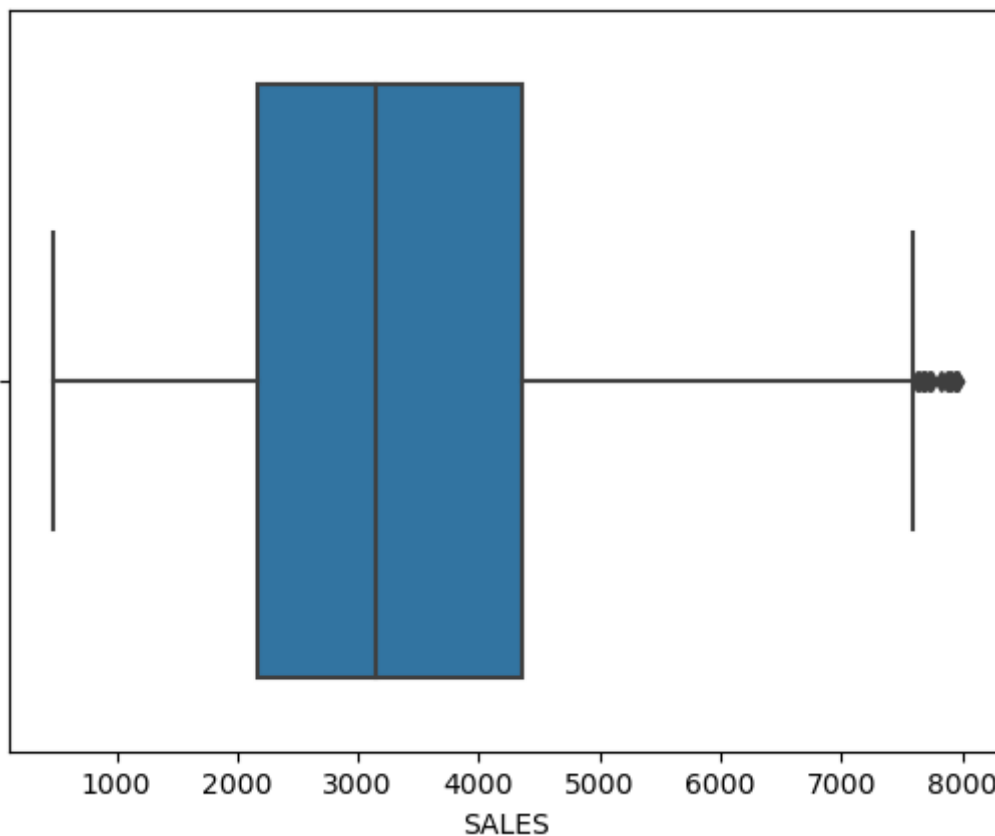
C:\Users\Administrator\AppData\Local\Temp\ipykernel_4980\3488628968.py:9: DeprecationWarning: the `interpolation=` argument to percentile was renamed to `method=`, which has additional options.

Users of the modes 'nearest', 'lower', 'higher', or 'midpoint' are encouraged to review the method they used. (Deprecated NumPy 1.22)

```
Q3 = np.percentile(df2['SALES'], 75,
```

```
<AxesSubplot:xlabel='SALES'>
```

Out[48]:



In [49]:

```
import sklearn
import pandas as pd
import seaborn as sns

# IQR
Q1 = np.percentile(df3['SALES'], 25,
                    interpolation = 'midpoint')

Q3 = np.percentile(df3['SALES'], 75,
                    interpolation = 'midpoint')

IQR = Q3 - Q1

print("Old Shape: ", df3.shape)
```

```

# Upper bound
upper = np.where(df3['SALES'] >= (Q3+1.5*IQR))

# Lower bound
lower = np.where(df3['SALES'] <= (Q1-1.5*IQR))

# Removing the Outliers
df3.drop(upper[0], inplace = True)
df3.drop(lower[0], inplace = True)

print("New Shape: ", df3.shape)

sns.boxplot(x='SALES', data=df3)

```

Old Shape: (2823, 25)

New Shape: (2742, 25)

C:\Users\Administrator\AppData\Local\Temp\ipykernel_4980\4040548419.py:6: DeprecationWarning: the `interpolation=` argument to percentile was renamed to `method=`, which has additional options.

Users of the modes 'nearest', 'lower', 'higher', or 'midpoint' are encouraged to review the method they used. (Deprecated NumPy 1.22)

Q1 = np.percentile(df3['SALES'], 25,

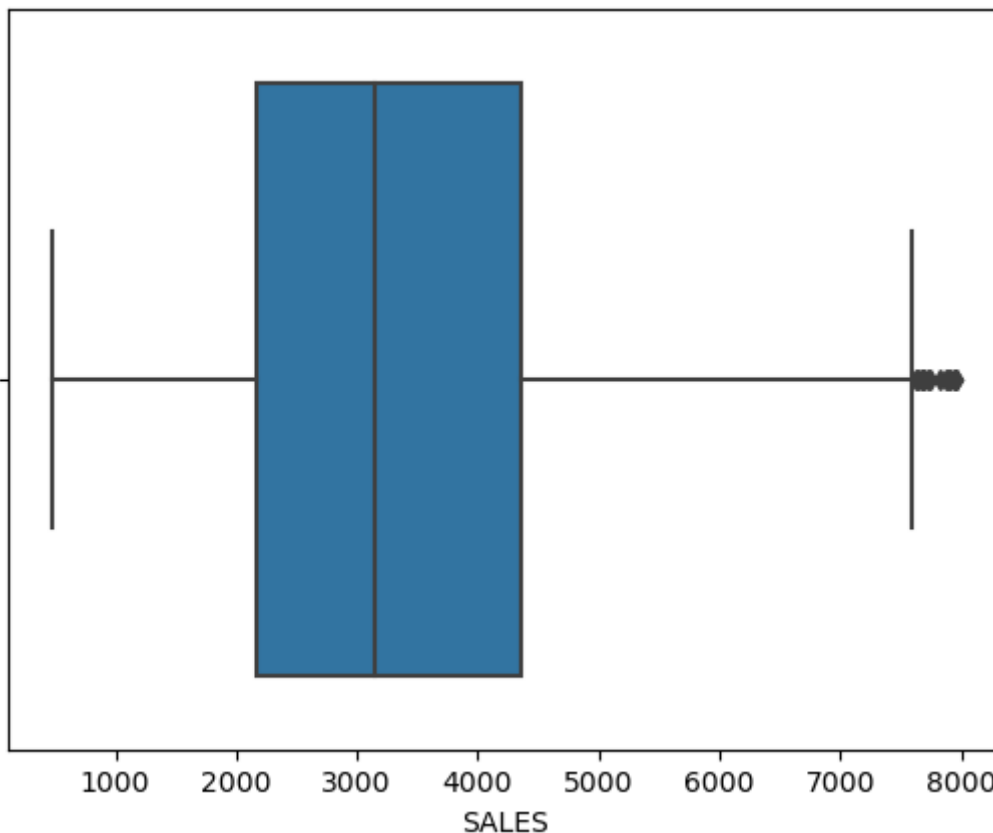
C:\Users\Administrator\AppData\Local\Temp\ipykernel_4980\4040548419.py:9: DeprecationWarning: the `interpolation=` argument to percentile was renamed to `method=`, which has additional options.

Users of the modes 'nearest', 'lower', 'higher', or 'midpoint' are encouraged to review the method they used. (Deprecated NumPy 1.22)

Q3 = np.percentile(df3['SALES'], 75,

<AxesSubplot:xlabel='SALES'>

Out[49]:



In []: