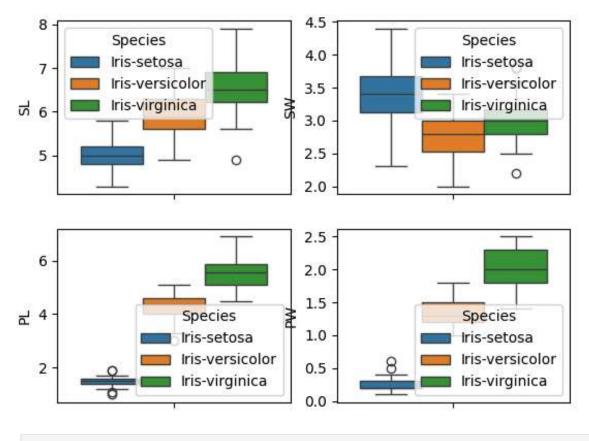
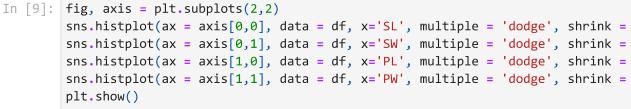
```
import pandas as pd
In [1]:
         import numpy as np
         import matplotlib.pyplot as plt
         import seaborn as sns
In [2]: df = pd.read_csv('iris.csv')
In [3]: df.columns = ('SL', 'SW', 'PL', 'PW', 'Species')
In [4]: df.info()
       <class 'pandas.core.frame.DataFrame'>
       RangeIndex: 150 entries, 0 to 149
       Data columns (total 5 columns):
            Column
                    Non-Null Count Dtype
            -----
                     -----
            SL
                     150 non-null
                                      float64
        0
        1
            SW
                     150 non-null
                                      float64
        2
            PL
                     150 non-null
                                      float64
        3
            PW
                     150 non-null
                                      float64
            Species 150 non-null
                                      object
       dtypes: float64(4), object(1)
       memory usage: 6.0+ KB
In [5]: print('Statistical information of Numerical Columns:')
         df.describe()
       Statistical information of Numerical Columns:
Out[5]:
                       SL
                                 SW
                                             PL
                                                        PW
         count 150.000000 150.000000 150.000000 150.000000
         mean
                  5.843333
                             3.054000
                                        3.758667
                                                    1.198667
           std
                  0.828066
                             0.433594
                                        1.764420
                                                   0.763161
                  4.300000
                             2.000000
                                        1.000000
                                                   0.100000
          min
          25%
                  5.100000
                             2.800000
                                        1.600000
                                                   0.300000
          50%
                  5.800000
                             3.000000
                                        4.350000
                                                    1.300000
          75%
                  6.400000
                             3.300000
                                        5.100000
                                                   1.800000
          max
                  7.900000
                             4.400000
                                        6.900000
                                                   2.500000
In [6]: print('Total Number of Null Values in Dataset:')
         df.isnull().sum()
       Total Number of Null Values in Dataset:
Out[6]: SL
                    0
                    0
         SW
         PL
                    0
         PW
                    0
         Species
         dtype: int64
```

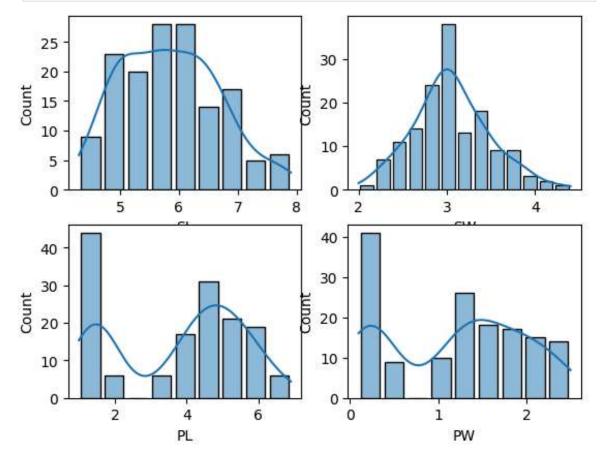
```
In [7]: fig, axis = plt.subplots(2,2)
        sns.boxplot(ax = axis[0,0], data = df, y='SL')
        sns.boxplot(ax = axis[0,1], data = df, y='SW')
        sns.boxplot(ax = axis[1,0], data = df, y='PL')
        sns.boxplot(ax = axis[1,1], data = df, y='PW')
        plt.show()
                                               4.5
          8
                                                                   0
                                               4.0
          7
                                               3.5
       정 6
                                               3.0
                                               2.5
          5
                                               2.0
                                               2.5
          6
                                               2.0
                                               1.5
       చ 4
                                               1.0
                                               0.5
          2
                                               0.0
In [8]: fig, axis = plt.subplots(2,2)
        sns.boxplot(ax = axis[0,0], data = df, y='SL', hue='Species')
        sns.boxplot(ax = axis[0,1], data = df, y='SW', hue='Species')
        sns.boxplot(ax = axis[1,0], data = df, y='PL', hue='Species')
```

sns.boxplot(ax = axis[1,1], data = df, y='PW', hue='Species')

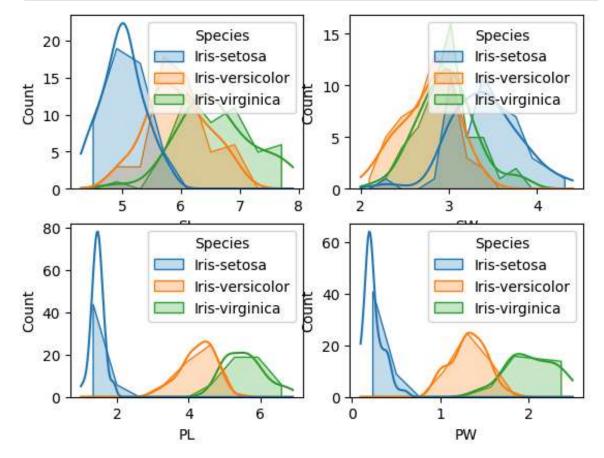
plt.show()







In [10]: fig, axis = plt.subplots(2,2)
 sns.histplot(ax=axis[0,0], data=df, x='SL', hue='Species', element='poly', sh
 sns.histplot(ax=axis[0,1], data = df, x='SW', hue = 'Species', element = 'pol
 sns.histplot(ax=axis[1,0], data = df, x='PL', hue = 'Species', element = 'pol
 sns.histplot(ax=axis[1,1], data = df, x='PW', hue = 'Species', element = 'pol
 plt.show()



In []: