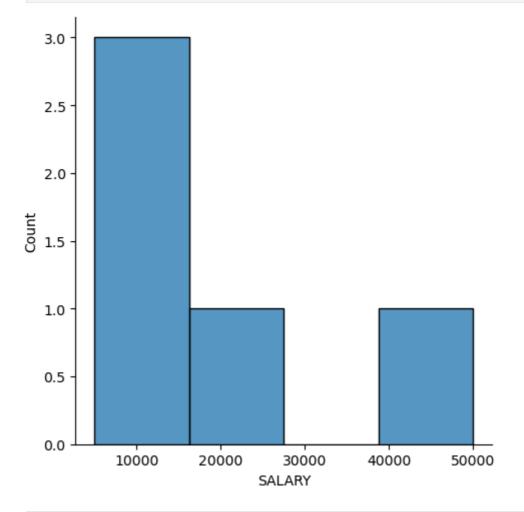
```
In [4]: import openpyxl
         import pandas as pd
         workbook = openpyxl.Workbook()
         sheet = workbook.active
         data = [['NAME', 'DOMAIN', 'AGE', 'LOCATION', 'SALARY', 'EXP'],
                ['ALEX', 'TESTING', 25,'BNG', 5000, 2],
                ['BARB', 'JAVA',30, 'CHE', 10000, 3,],
                ['CHERRY', 'C', 35, 'PUNE', 15000, 4],
                ['DIPAN', 'DA', 38, 'MUMBAI', 20000,5],
                ['ESWAR', 'DS', 40, 'HYD', 50000, 6]]
         for row in data:
             sheet.append(row)
         workbook.save('data.xlsx')
 In [6]: data
 Out[6]: [['NAME', 'DOMAIN', 'AGE', 'LOCATION', 'SALARY', 'EXP'],
           ['ALEX', 'TESTING', 25, 'BNG', 5000, 2],
           ['BARB', 'JAVA', 30, 'CHE', 10000, 3],
           ['CHERRY', 'C', 35, 'PUNE', 15000, 4],
           ['DIPAN', 'DA', 38, 'MUMBAI', 20000, 5],
           ['ESWAR', 'DS', 40, 'HYD', 50000, 6]]
 In [8]: import os
         os.getcwd()
Out[8]: 'C:\\Users\\swati\\OneDrive\\Documents\\Data_Analyst\\nov\\NONTECH PROJECT'
In [16]: | emp = pd.read excel(r'C:\\Users\\swati\\OneDrive\\Documents\\Data Analyst\\nov\\
         emp
Out[16]:
             NAME DOMAIN AGE LOCATION SALARY EXP
               ALEX
                     TESTING
                                25
                                         BNG
                                                  5000
                                                          2
          0
              BARB
                                                 10000
          1
                         JAVA
                                30
                                          CHE
                                                          3
          2 CHERRY
                           C
                                        PUNE
                                                15000
                                35
          3
              DIPAN
                          DA
                                38
                                      MUMBAI
                                                 20000
                          DS
                                         HYD
                                                 50000
             ESWAR
                                40
                                                          6
In [18]: emp.shape
Out[18]: (5, 6)
In [20]: emp.columns
Out[20]: Index(['NAME', 'DOMAIN', 'AGE', 'LOCATION', 'SALARY', 'EXP'], dtype='object')
In [22]: len(emp.columns)
```

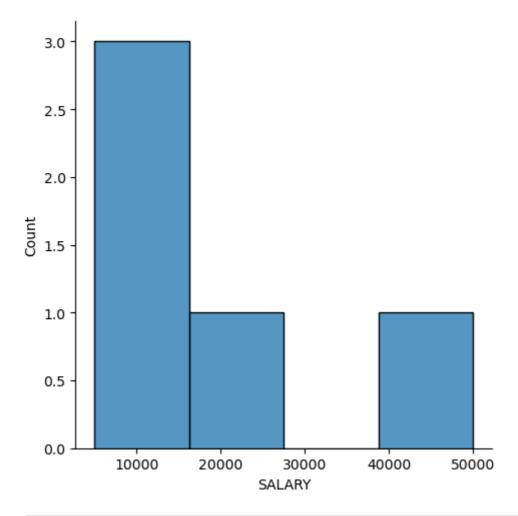
```
Out[22]: 6
In [24]: len(emp)
Out[24]: 5
In [26]: emp
Out[26]:
             NAME DOMAIN AGE LOCATION SALARY EXP
              ALEX
                     TESTING
                               25
                                        BNG
                                                5000
                                                        2
         0
         1
              BARB
                        JAVA
                               30
                                        CHE
                                               10000
                                                        3
         2 CHERRY
                          C
                             35
                                       PUNE
                                               15000
                                                        4
             DIPAN
                         DA
                               38
                                     MUMBAI
                                               20000
                                                        5
         3
             ESWAR
                          DS
                               40
                                        HYD
                                               50000
                                                        6
In [28]: emp[SALARY]
        NameError
                                                 Traceback (most recent call last)
        Cell In[28], line 1
        ---> 1 emp[SALARY]
        NameError: name 'SALARY' is not defined
In [30]: emp['SALARY']
Out[30]: 0
               5000
         1
              10000
         2
              15000
         3
              20000
              50000
         Name: SALARY, dtype: int64
In [32]: emp[['SALARY', 'EXP']]
Out[32]:
            SALARY EXP
         0
               5000
                       2
         1
              10000
         2
              15000
                       4
         3
              20000
              50000
                       6
In [34]: emp.shape
Out[34]: (5, 6)
```

```
In [38]: import numpy as np
   import matplotlib.pyplot as plt
   import seaborn as sns
```





In [40]: vis1 = sns.displot(emp['SALARY'])



In [42]: vis2 = sns.distplot(emp['SALARY'])

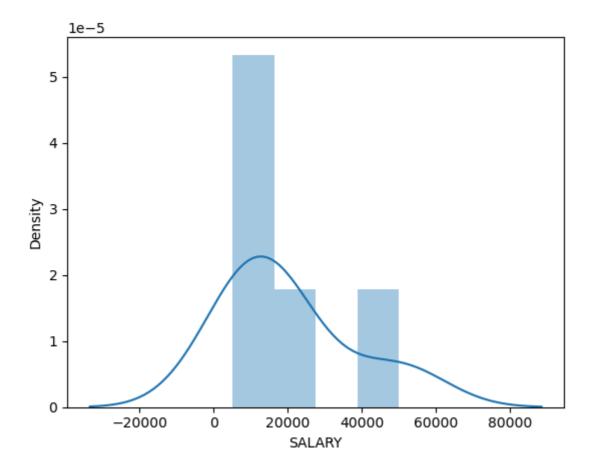
 $\label{local-temp-ipy-energy} C: \Users \xspace{21220} & 26855712.py: 1: UserWarning: \\$ 

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

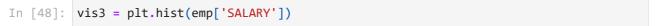
Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

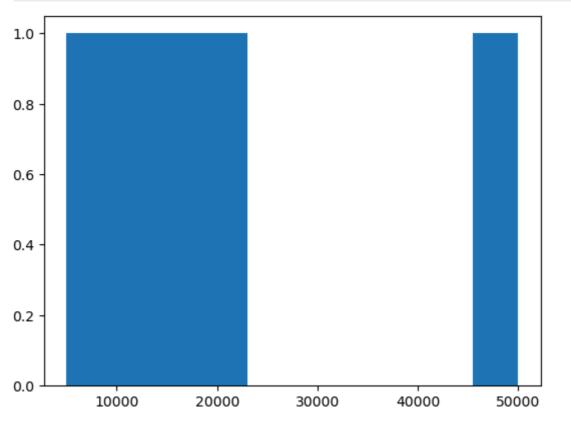
For a guide to updating your code to use the new functions, please see https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

vis2 = sns.distplot(emp['SALARY'])



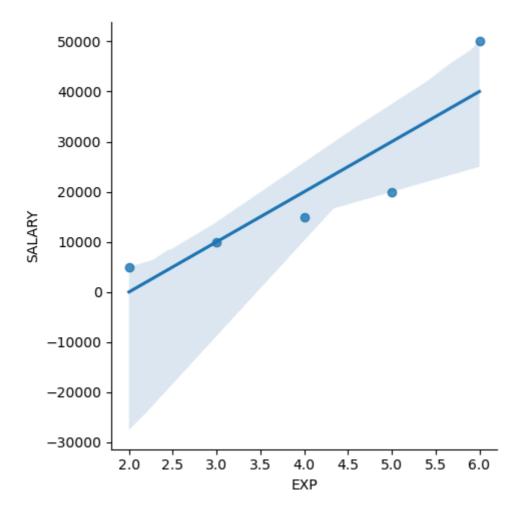
- plot the graph using 1 variable --univariate analysis
- plot the graph using 2 variable--bivariate analysis
- plot the graph many variable--multivariate analysis



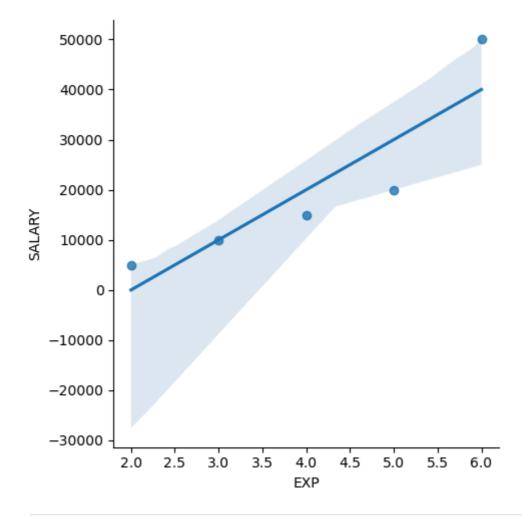


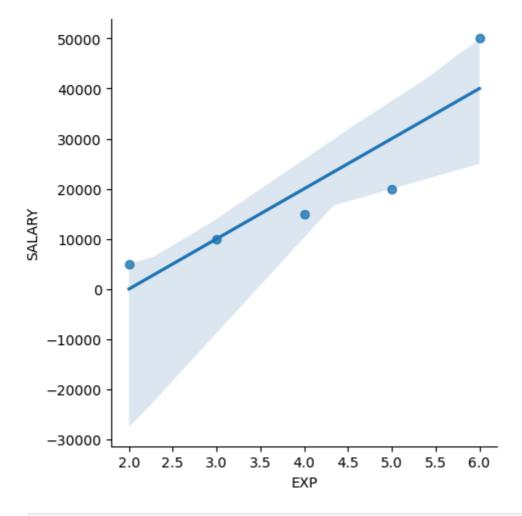
```
plt.rcparams['figure.figsize'] = 10,3
In [54]: vis5 = sns.lmplot(data=emp, x = 'EXP', y = 'SALARY')
            50000
            40000
            30000
            20000
            10000
                 0
           -10000
           -20000
           -30000
                     2.0
                           2.5
                                 3.0
                                      3.5
                                                   4.5
                                                        5.0
                                                              5.5
                                                                    6.0
                                            4.0
                                            EXP
```

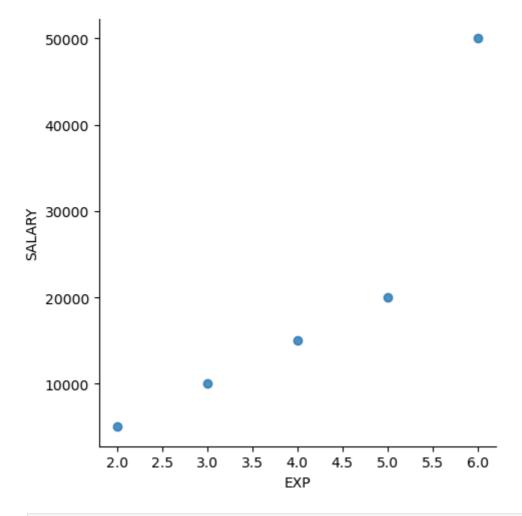
In [54]: vis5 = sns.lmplot(data=emp, x = 'EXP', y = 'SALARY')

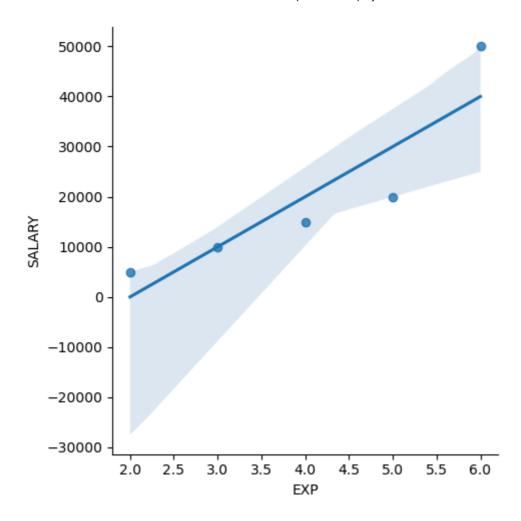


```
In [ ]:
In [54]: vis5 = sns.lmplot(data=emp, x = 'EXP', y = 'SALARY')
```









In []:
In []: