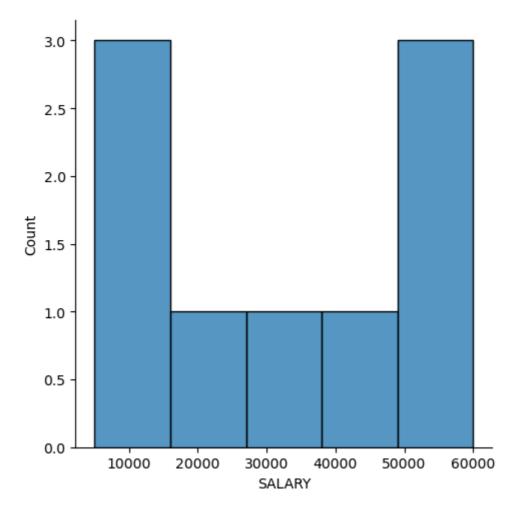
Mini project

Data Visualization project

```
In [5]: import openpyxl
        import pandas as pd
        workbook = openpyx1.Workbook()
        sheet = workbook.active
        data =[
            ['NAME', 'DOMAIN', 'AGE', 'LOCATION', 'SALARY', 'EXP'],
            ['ALEX','TESTING',25,'BNG',5000,2],
            ['VASU','JAVA',27,'DEHIL',40000,3],
            ['BARB','JAVA',30,'CHE',10000,4],
            ['CHERRY','C',35,'PUNE',15000,5],
            ['DIPAN','DA',38,'MUMBAI',20000,6],
            ['ESWAR', 'DS', 40, 'HYD', 50000, 7],
            ['KRISHNA', 'BA', 25, 'VIZ', 30000, 8],
            ['SAIKUMAR','JAVA',22,'HYD',50000,9],
            ['MADHU','C++',28,'BNG',60000,10]
        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],
          ['VASU', 'JAVA', 27, 'DEHIL', 40000, 3],
          ['BARB', 'JAVA', 30, 'CHE', 10000, 4],
          ['CHERRY', 'C', 35, 'PUNE', 15000, 5],
          ['DIPAN', 'DA', 38, 'MUMBAI', 20000, 6],
          ['ESWAR', 'DS', 40, 'HYD', 50000, 7],
          ['KRISHNA', 'BA', 25, 'VIZ', 30000, 8],
          ['SAIKUMAR', 'JAVA', 22, 'HYD', 50000, 9],
          ['MADHU', 'C++', 28, 'BNG', 60000, 10]]
In [7]: import os
        os.getcwd()
Out[7]: 'C:\\Users\\harisai\\Downloads\\4th, 5th - Basic Python\\4th, 5th - Basic Pytho
In [8]: emp = pd.read_excel(r'C:\\Users\\harisai\\Downloads\\4th, 5th - Basic Python\\4t
```

		NAME	DOMAIN	AGE	LOCATION	SALARY	EXP
	0	ALEX	TESTING	25	BNG	5000	2
	1	VASU	JAVA	27	DEHIL	40000	3
	2	BARB	JAVA	30	CHE	10000	4
	3	CHERRY	С	35	PUNE	15000	5
	4	DIPAN	DA	38	MUMBAI	20000	6
	5	ESWAR	DS	40	HYD	50000	7
	6	KRISHNA	ВА	25	VIZ	30000	8
	7	SAIKUMAR	JAVA	22	HYD	50000	9
	8	MADHU	C++	28	BNG	60000	10
n [9]:	em	p.shape					
ut[9]:	(9	9, 6)					
[10]:	em	p.columns					
ut[10]:	In	ndex(['NAME	, 'DOMAIN	', 'A	GE', 'LOCAT	ION', 'SA	LARY'
n [11]:	le	n(emp.colum	ıns)				
t[11]:	6						
n [12]:	le	n(emp)					
		n(emp)					
[12]:							
t[12]: [13]:	9		DOMAIN	AGE	LOCATION	SALARY	EXP
[13]:	9	р	DOMAIN TESTING	AGE 25	LOCATION BNG	SALARY 5000	EXP 2
[13]:	9 em	р NAME					
ut[12]: n [13]:	9 em	p NAME	TESTING	25	BNG	5000	2
ut[12]: n [13]:	9 em 0 1	p NAME ALEX VASU	TESTING JAVA	25 27	BNG DEHIL	5000 40000	2
it[12]: n [13]:	9 em 0 1 2	P NAME ALEX VASU BARB	TESTING JAVA JAVA	25 27 30	BNG DEHIL CHE	5000 40000 10000	2 3 4
it[12]: n [13]:	9 em 0 1 2	P NAME ALEX VASU BARB CHERRY	TESTING JAVA JAVA C	25 27 30 35	BNG DEHIL CHE PUNE	5000 40000 10000 15000	2 3 4 5
ut[12]: n [13]:	9 em 0 1 2 3 4	P NAME ALEX VASU BARB CHERRY DIPAN	TESTING JAVA JAVA C DA	25 27 30 35 38	BNG DEHIL CHE PUNE MUMBAI	5000 40000 10000 15000 20000	2 3 4 5 6
ut[12]: n [13]:	9 em 0 1 2 3 4 5	P NAME ALEX VASU BARB CHERRY DIPAN ESWAR KRISHNA	TESTING JAVA JAVA C DA DS	25 27 30 35 38 40	BNG DEHIL CHE PUNE MUMBAI HYD	5000 40000 10000 15000 20000 50000	2 3 4 5 6 7
n [12]: ut[12]: n [13]: ut[13]:	9 em 0 1 2 3 4 5 6	P NAME ALEX VASU BARB CHERRY DIPAN ESWAR KRISHNA	TESTING JAVA JAVA C DA DS BA	25 27 30 35 38 40 25	BNG DEHIL CHE PUNE MUMBAI HYD VIZ	5000 40000 10000 15000 20000 50000 30000	2 3 4 5 6 7 8

```
Out[14]: 0
                5000
               40000
          1
          2
               10000
          3
               15000
               20000
          4
          5
               50000
          6
               30000
          7
               50000
          8
               60000
          Name: SALARY, dtype: int64
In [16]: emp[['AGE','LOCATION','NAME']]
Out[16]:
             AGE LOCATION
                                 NAME
          0
              25
                        BNG
                                  ALEX
          1
              27
                       DEHIL
                                  VASU
          2
              30
                        CHE
                                  BARB
          3
              35
                       PUNE
                                CHERRY
          4
              38
                    MUMBAI
                                 DIPAN
          5
              40
                        HYD
                                ESWAR
          6
              25
                         VIZ
                               KRISHNA
          7
              22
                        HYD SAIKUMAR
          8
              28
                        BNG
                                MADHU
         emp[['SALARY','EXP']]
In [17]:
Out[17]:
             SALARY EXP
                        2
          0
                5000
               40000
          1
          2
               10000
                        4
          3
               15000
                        5
          4
               20000
                        6
                        7
          5
               50000
          6
               30000
          7
               50000
                        9
          8
               60000
                       10
         import numpy as np #ND ARRAY
          import matplotlib.pyplot as plt # VISUALIZATION
          import seaborn as sns # STATICES VISUALIZATION
In [19]: vis1 = sns.displot(emp['SALARY'])
```



In [20]: vis2 = sns.distplot(emp['SALARY'])

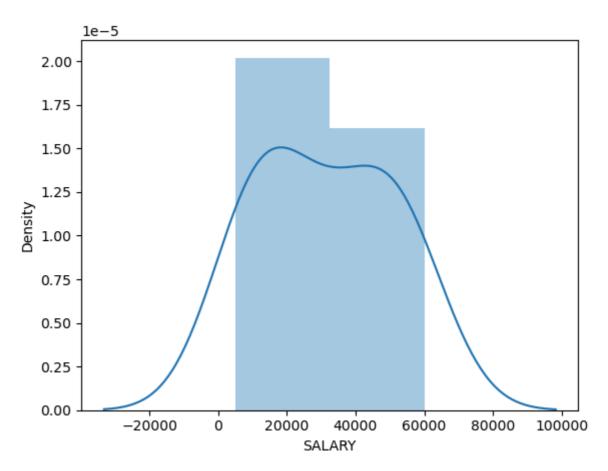
C:\Users\harisai\AppData\Local\Temp\ipykernel_8380\826855712.py:1: UserWarning:

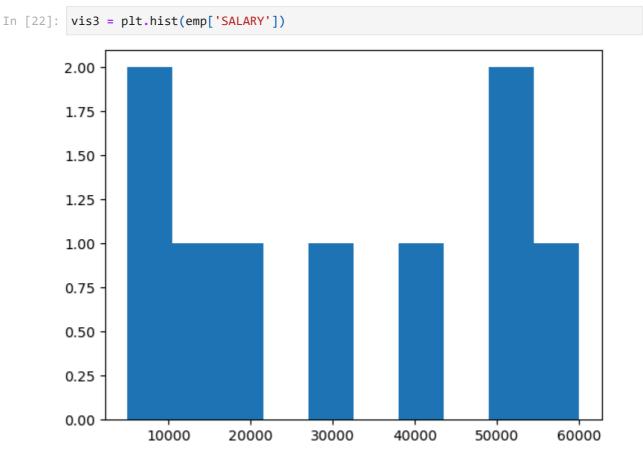
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

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

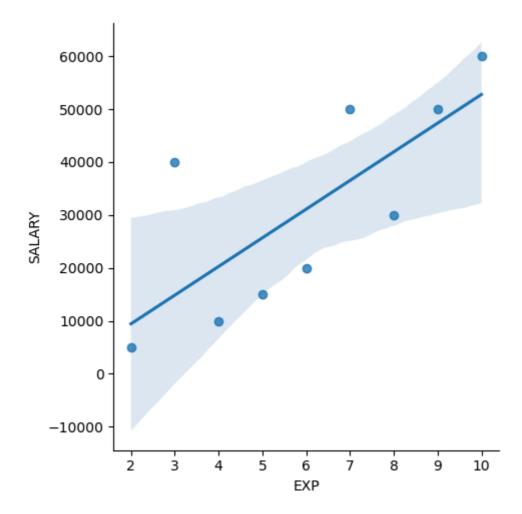
For a guide to updating your code to use the new functions, please see https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

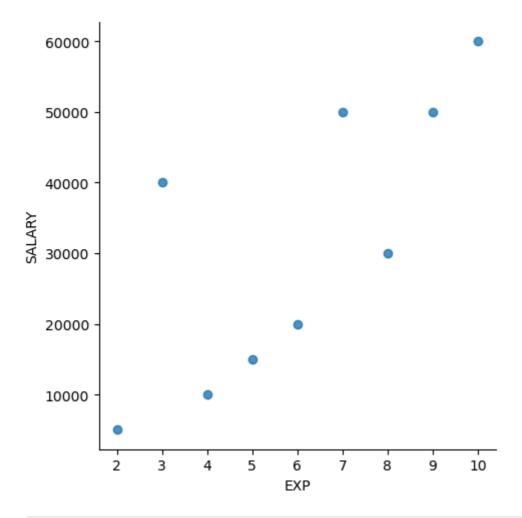
vis2 = sns.distplot(emp['SALARY'])

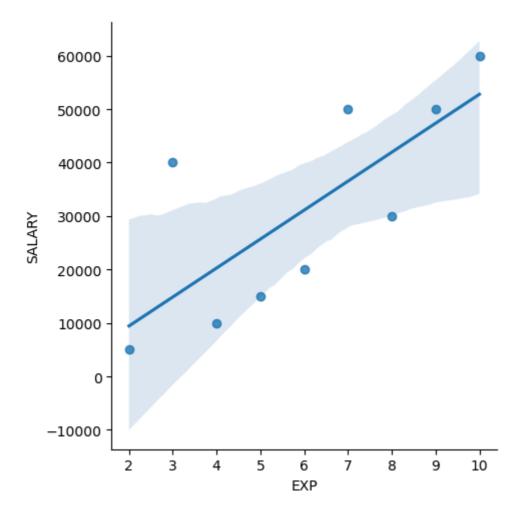




```
In [23]: plt.rcParams['figure.figsize'] = 5,1
In [24]: vis5 = sns.lmplot(data=emp, x ='EXP', y = 'SALARY')
```







In []: # mini project completed