In [1]:
```
import numpy as np
import openpyxl
import pandas as pd

workbook = openpyxl.Workbook()
sheet = workbook.active

data = [
    ['NAME', 'DOMAIN', 'AGE', 'LOCATION', 'SALARY', 'EXP'],
    ['BASHEER', 'PYTHON', 22, 'HYD', 120000, 3],
    ['SAIDA', 'DS', 21, 'BNG', 223844, 2],
    ['PRIYA', 'DA', 21, 'CHE', 349032, 5],
    ['JUBAIR', 'JAVA', 20, 'PUNE', 21328, 6],
    ['AJAY', 'SQL', 26, 'MUMBAI', 13124, 9]
]

for row in data:
    sheet.append(row)

workbook.save('data.xlsx')
```

In [2]:
```
data
```

Out[2]:
```
[['NAME', 'DOMAIN', 'AGE', 'LOCATION', 'SALARY', 'EXP'],
 ['BASHEER', 'PYTHON', 22, 'HYD', 120000, 3],
 ['SAIDA', 'DS', 21, 'BNG', 223844, 2],
 ['PRIYA', 'DA', 21, 'CHE', 349032, 5],
 ['JUBAIR', 'JAVA', 20, 'PUNE', 21328, 6],
 ['AJAY', 'SQL', 26, 'MUMBAI', 13124, 9]]
```

In [3]:
```
import os
os.getcwd()
```

Out[3]:
```
'C:\\Users\\Jan Saida'
```

In [4]:
```
emp = pd.read_excel(r'C:\\Users\\Jan Saida\data.xlsx')
```

In [5]:
```
emp.shape
```

Out[5]:
```
(5, 6)
```

In [6]:
```
emp.columns
```

Out[6]:
```
Index(['NAME', 'DOMAIN', 'AGE', 'LOCATION', 'SALARY', 'EXP'], dtype='object')
```

In [7]:
```
len(emp.columns)
```

Out[7]:
```
6
```

In [8]:
```
len(emp)
```

Out[8]:
```
5
```

In [9]:
```
emp
```

Out[9]:

	NAME	DOMAIN	AGE	LOCATION	SALARY	EXP
0	BASHEER	PYTHON	22	HYD	120000	3
1	SAIDA	DS	21	BNG	223844	2
2	PRIYA	DA	21	CHE	349032	5
3	JUBAIR	JAVA	20	PUNE	21328	6
4	AJAY	SQL	26	MUMBAI	13124	9

In [10]:
```
emp['SALARY']
```

Out[10]:
```
0    120000
1    223844
2    349032
3     21328
4     13124
Name: SALARY, dtype: int64
```

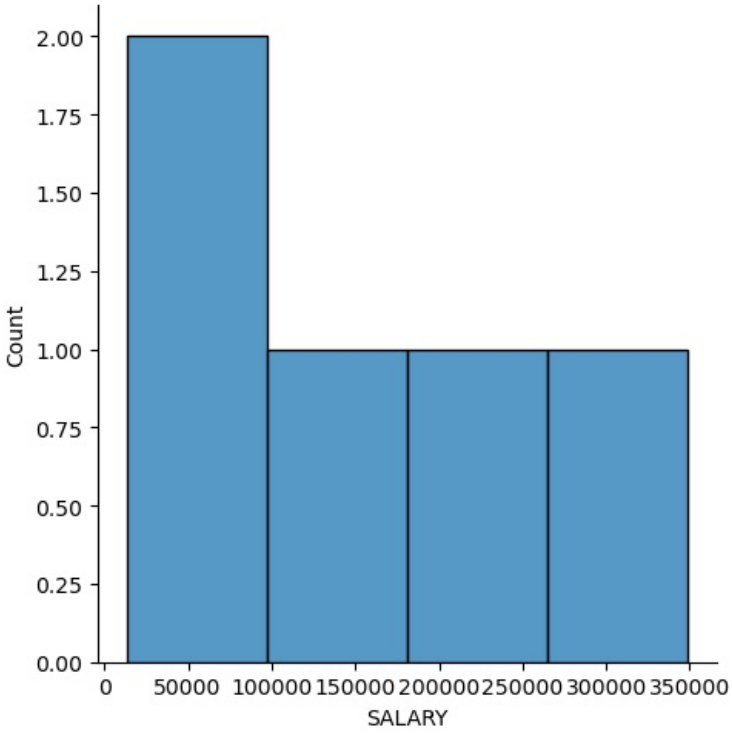
In [11]:
```
emp[['SALARY', 'EXP']]
```

Out[11]:

	SALARY	EXP
0	120000	3
1	223844	2
2	349032	5
3	21328	6
4	13124	9

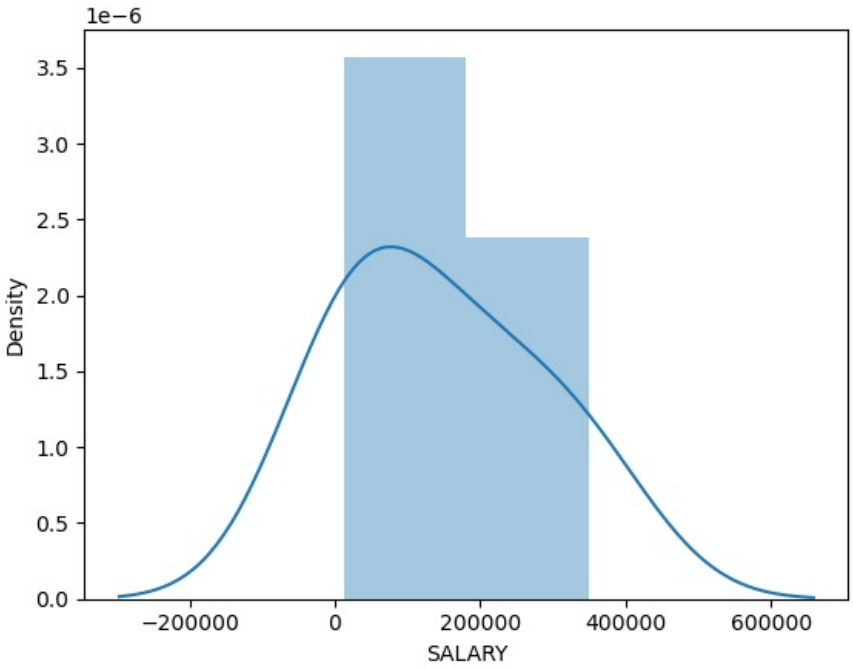
In [12]:
```
import numpy as np #ND ARRAY
import matplotlib.pyplot as plt #VISUALIZATION
import seaborn as sns #STATISTIC VISUALIZATION
```

In [13]:
```
vis1 = sns.displot(emp['SALARY'])
```

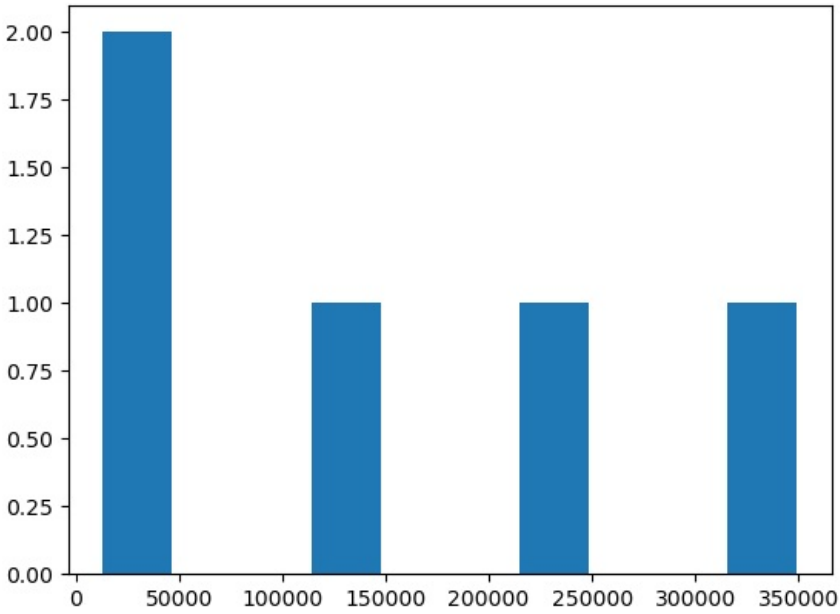


In [14]:
```
vis2 = sns.distplot(emp['SALARY'])
```

```
C:\Users\Jan Saida\AppData\Local\Temp\ipykernel_8932\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 [15]:
```
vis3 = plt.hist(emp['SALARY'])
```



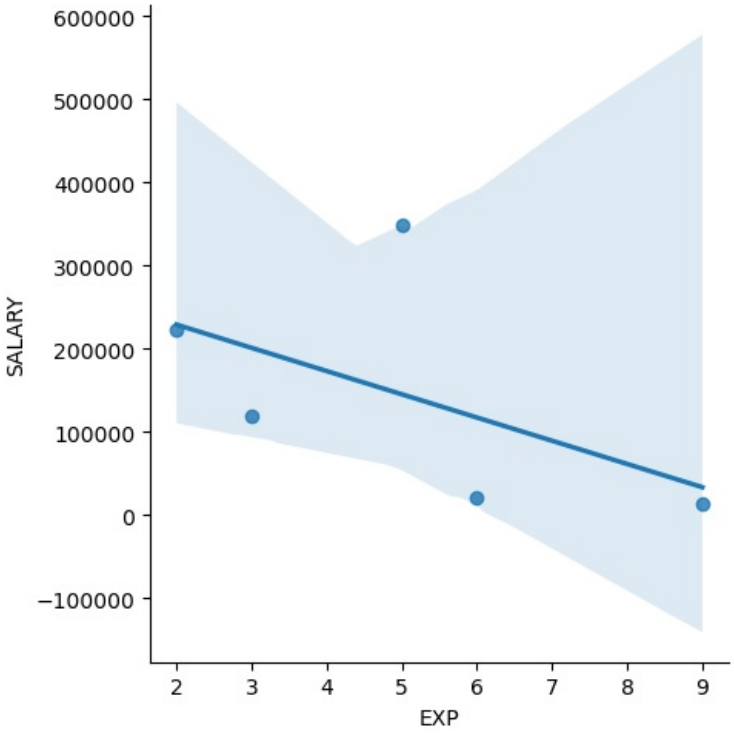
In [16]:
```
emp
```

Out[16]:

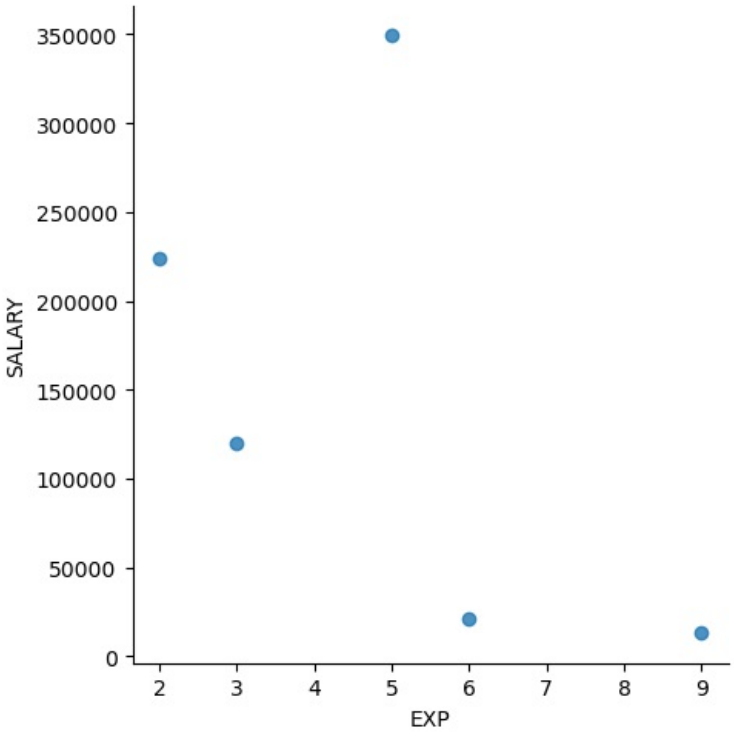
	NAME	DOMAIN	AGE	LOCATION	SALARY	EXP
0	BASHEER	PYTHON	22	HYD	120000	3
1	SAIDA	DS	21	BNG	223844	2
2	PRIYA	DA	21	CHE	349032	5
3	JUBAIR	JAVA	20	PUNE	21328	6
4	AJAY	SQL	26	MUMBAI	13124	9

In [17]:
```
plt.rcParams['figure.figsize'] = 2,1
```

In [18]:
```
vis4 = sns.lmplot(data=emp, x = 'EXP', y = 'SALARY')
```



In [19]:
```
vis5 = sns.lmplot(data=emp, x = 'EXP', y = 'SALARY', fit_reg = False)
```



In [20]:
```
vis6 = sns.lmplot(data=emp, x = 'EXP', y = 'SALARY', fit_reg = True)
```