In [1]:
```
import openpyxl
```

In [3]:
```
import pandas as pd
```

In [7]:
```
workbook = openpyxl.Workbook()
sheet = workbook.active
```

In [9]:
```
data = [
    ['NAME', 'DOMAIN', 'AGE', 'LOCATION', 'SALARY', 'EXP'],
    ['ROHIT', 'TESTING', 24, 'BNG', 5500, 2],
    ['PETER', 'JAVA', 25, 'HYD', 5000, 3],
    ['PARKER', 'C++', 26, 'VIZAG', 14500, 4],
    ['CHARAN', 'C', 28, 'PUNE', 40000, 5],
    ['BOB', 'DS', 27, 'NAGPUR', 20000, 2],

]
```

In [11]:
```
for row in data:
    sheet.append(row)
```

In [13]:
```
workbook.save('data.xlsx')
```

In [15]:
```
data
```

Out[15]:
```
[['NAME', 'DOMAIN', 'AGE', 'LOCATION', 'SALARY', 'EXP'],
 ['ROHIT', 'TESTING', 24, 'BNG', 5500, 2],
 ['PETER', 'JAVA', 25, 'HYD', 5000, 3],
 ['PARKER', 'C++', 26, 'VIZAG', 14500, 4],
 ['CHARAN', 'C', 28, 'PUNE', 40000, 5],
 ['BOB', 'DS', 27, 'NAGPUR', 20000, 2]]
```

In [17]:
```
import os
os.getcwd()
```

Out[17]:
```
'C:\\Users\\rohit'
```

In [21]:
```
emp = pd.read_excel(r'C:\Users\rohit\data.xlsx')
emp
```

Out[21]:

	NAME	DOMAIN	AGE	LOCATION	SALARY	EXP
0	ROHIT	TESTING	24	BNG	5500	2
1	PETER	JAVA	25	HYD	5000	3
2	PARKER	C++	26	VIZAG	14500	4
3	CHARAN	C	28	PUNE	40000	5
4	BOB	DS	27	NAGPUR	20000	2

In [23]:
```
emp.shape
```

Out[23]:
```
(5, 6)
```

In [25]:
```
emp.columns
```

Out[25]:
```
Index(['NAME', 'DOMAIN', 'AGE', 'LOCATION', 'SALARY', 'EXP'], dtype='object')
```

In [29]:
```
len(emp.columns)
```

Out[29]:
```
6
```

In [31]:
```
len(emp)
```

Out[31]:
```
5
```

In [33]:
```
emp
```

Out[33]:

	NAME	DOMAIN	AGE	LOCATION	SALARY	EXP
0	ROHIT	TESTING	24	BNG	5500	2
1	PETER	JAVA	25	HYD	5000	3
2	PARKER	C++	26	VIZAG	14500	4
3	CHARAN	C	28	PUNE	40000	5
4	BOB	DS	27	NAGPUR	20000	2

In [35]:
```
emp['SALARY']
```

Out[35]:
```
0     5500
1     5000
2    14500
3    40000
4    20000
Name: SALARY, dtype: int64
```

In [39]:
```
emp[['SALARY','EXP']]
```

Out[39]:

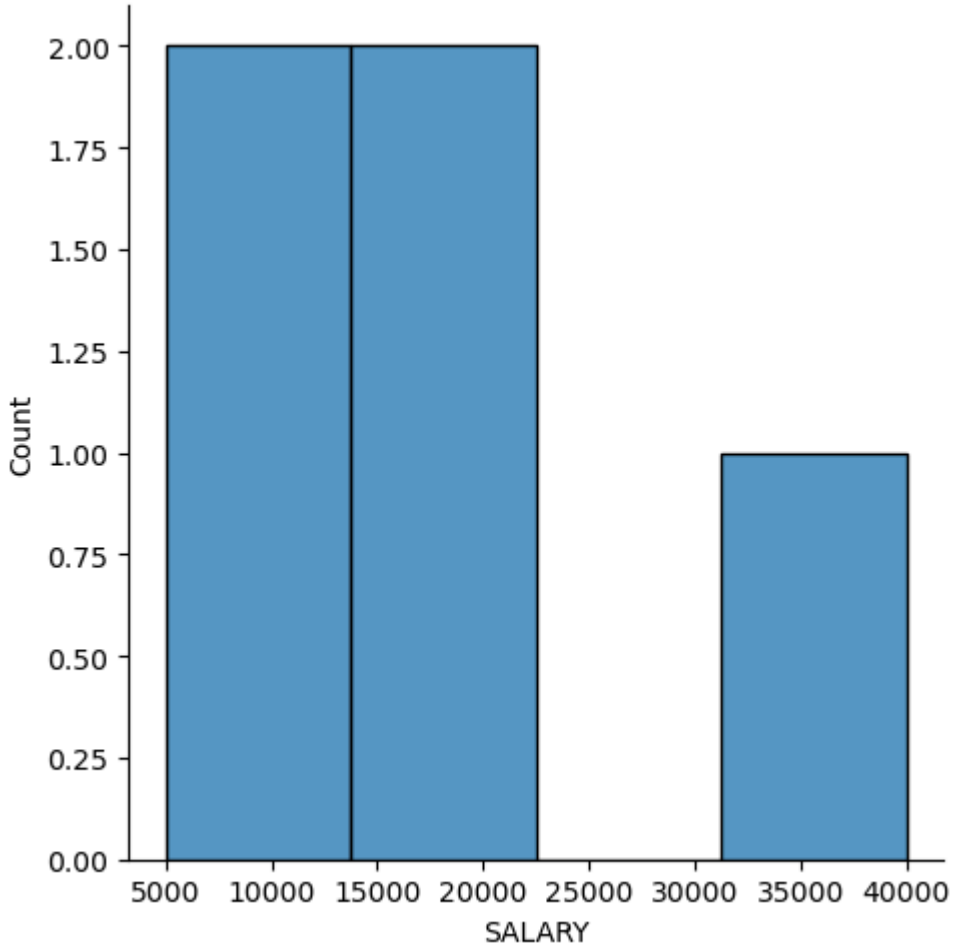
	SALARY	EXP
0	5500	2
1	5000	3
2	14500	4
3	40000	5
4	20000	2

In [41]:
```
import numpy as np
```

In [43]:
```
import matplotlib.pyplot as plt
```

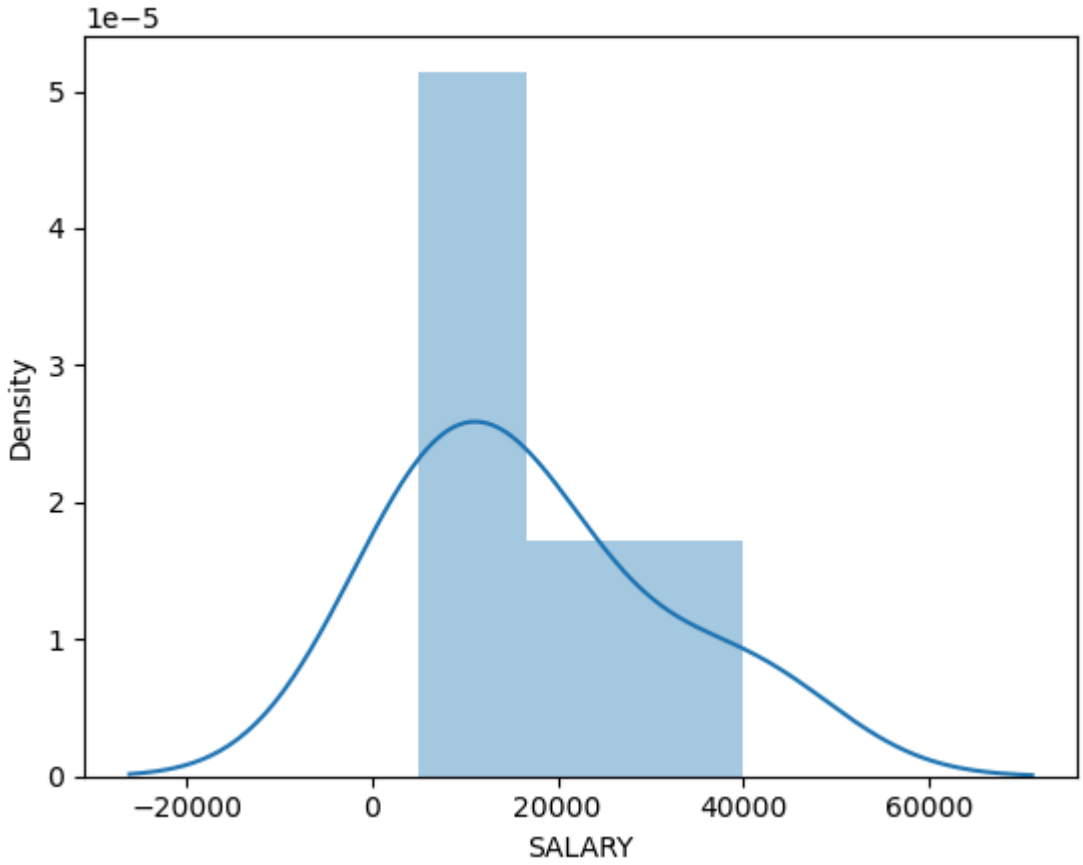
In [47]:
```
import seaborn as sns
```

In [49]:
```
vis1 = sns.displot(emp['SALARY'])
```

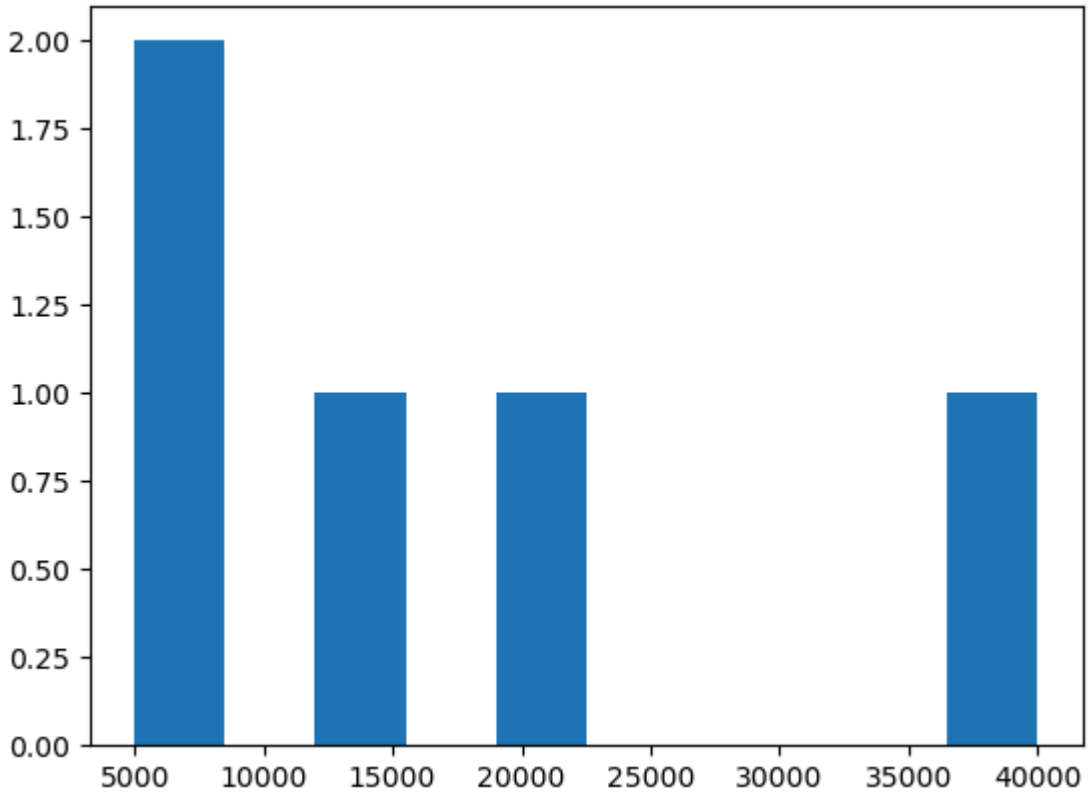


In [51]:
```
vis2 = sns.distplot(emp['SALARY'])
```

```
C:\Users\rohit\AppData\Local\Temp\ipykernel_17760\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 [55]:
```
vis3 = plt.hist(emp['SALARY'])
```



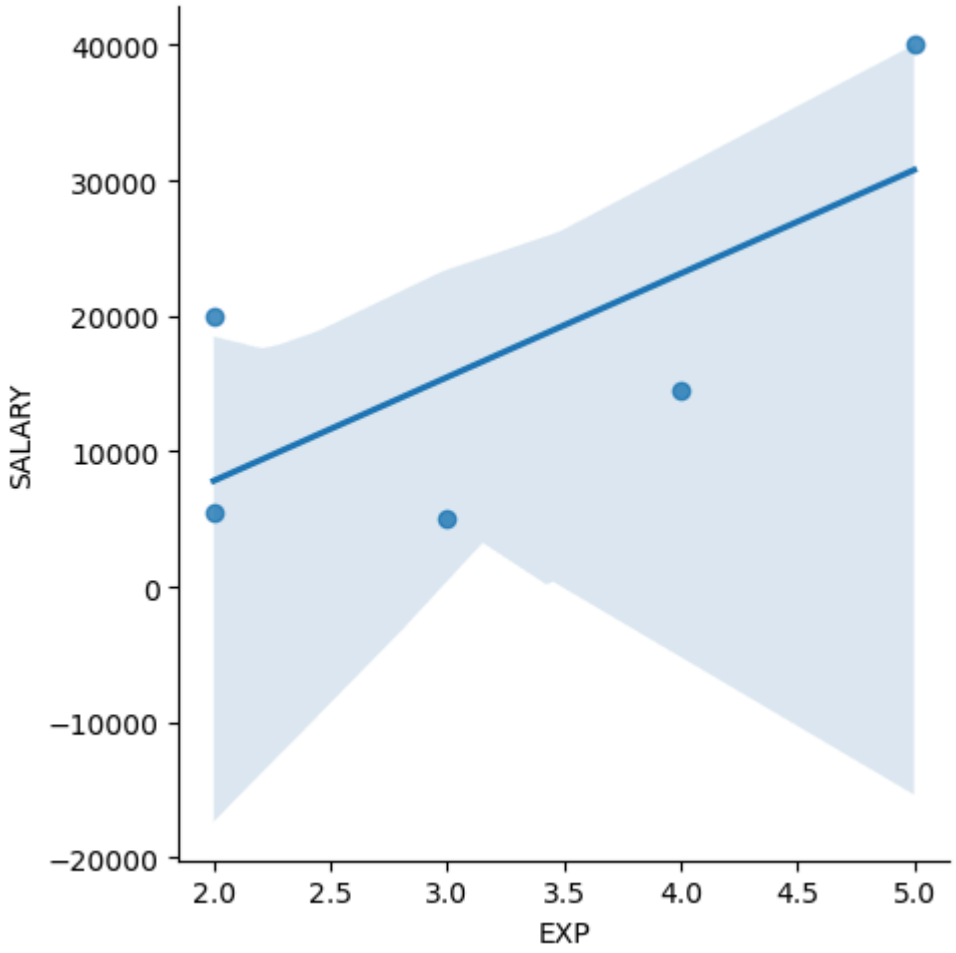
In [57]:
```
emp
```

Out[57]:

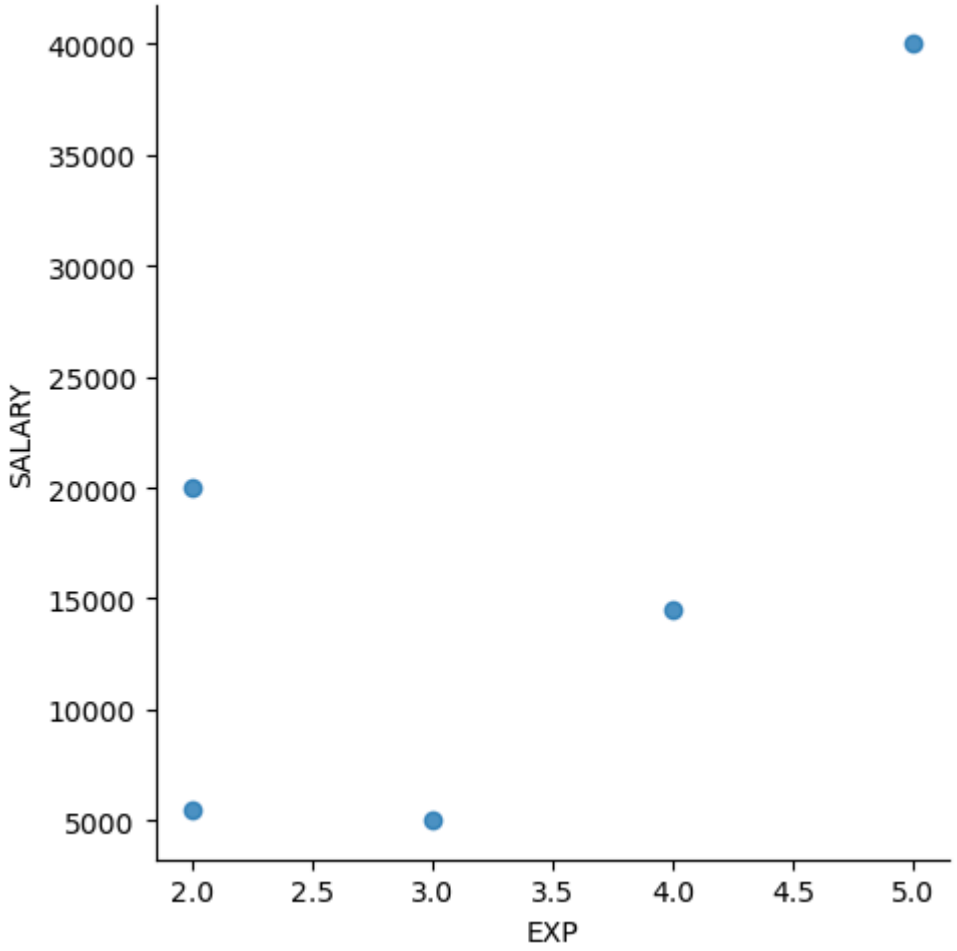
	NAME	DOMAIN	AGE	LOCATION	SALARY	EXP
0	ROHIT	TESTING	24	BNG	5500	2
1	PETER	JAVA	25	HYD	5000	3
2	PARKER	C++	26	VIZAG	14500	4
3	CHARAN	C	28	PUNE	40000	5
4	BOB	DS	27	NAGPUR	20000	2

In [59]:
```
plt.rcParams['figure.figsize'] = 5,1
```

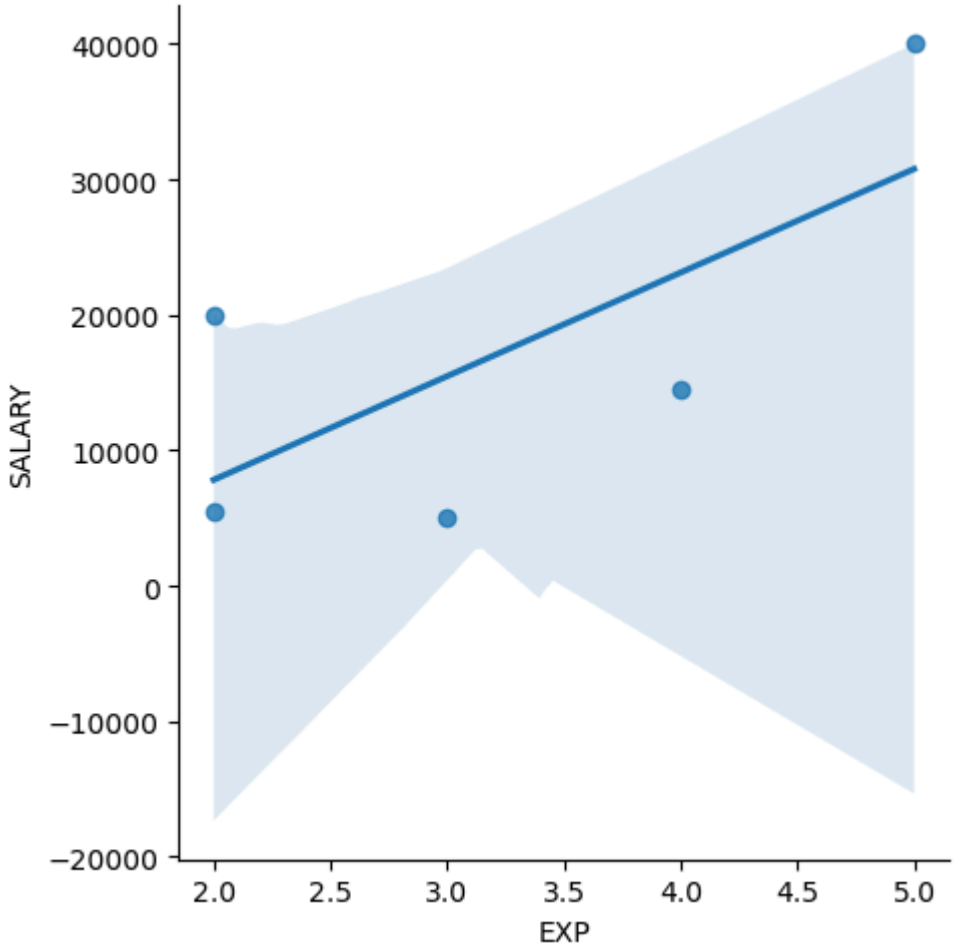
In [61]:
```
vis5 = sns.lmplot(data=emp, x = 'EXP', y = 'SALARY')
```



In [63]:
```
vis5 = sns.lmplot(data=emp, x = 'EXP', y = 'SALARY', fit_reg = False)
```



In [69]:
```
vis6 = sns.lmplot(data=emp, x = 'EXP', y = 'SALARY', fit_reg = True)
```



In [67]:
```
emp
```

Out[67]:

	NAME	DOMAIN	AGE	LOCATION	SALARY	EXP
0	ROHIT	TESTING	24	BNG	5500	2
1	PETER	JAVA	25	HYD	5000	3
2	PARKER	C++	26	VIZAG	14500	4
3	CHARAN	C	28	PUNE	40000	5
4	BOB	DS	27	NAGPUR	20000	2

In [ ]:
```
```