In [34]:
```
import openpyxl
import pandas as pd

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

data = [
    ['NAME', 'DOMAIN', 'AGE', 'LOCATION', 'SALARY', 'EXP'],
    ['ALBON', 'TESTING', 22, 'BNG' , 5000, 1],
    ['BOTAS', 'JAVA', 31, 'CHE', 10000, 2],
    ['CARLOZ', 'C', 25, 'HYD', 15000, 3],
    ['DANIEL', 'DA', 30, 'DEL', 20000, 4],
    ['ESTEBAN', 'DS', 23, 'KL', 50000, 5]
]

for i in data:
    sheet.append(i)

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

In [36]:
```
data
```

Out[36]:
```
[['NAME', 'DOMAIN', 'AGE', 'LOCATION', 'SALARY', 'EXP'],
 ['ALBON', 'TESTING', 22, 'BNG', 5000, 1],
 ['BOTAS', 'JAVA', 31, 'CHE', 10000, 2],
 ['CARLOZ', 'C', 25, 'HYD', 15000, 3],
 ['DANIEL', 'DA', 30, 'DEL', 20000, 4],
 ['ESTEBAN', 'DS', 23, 'KL', 50000, 5]]
```

In [38]:
```
import os
os.getcwd()
```

Out[38]:
```
'C:\\Users\\AKSHAY\\Python Class Projects'
```

In [40]:
```
emp = pd.read_excel(r'C:\\Users\\AKSHAY\\Python Class Projects\data.xlsx')
emp
```

Out[40]:

	NAME	DOMAIN	AGE	LOCATION	SALARY	EXP
0	ALBON	TESTING	22	BNG	5000	1
1	BOTAS	JAVA	31	CHE	10000	2
2	CARLOZ	C	25	HYD	15000	3
3	DANIEL	DA	30	DEL	20000	4
4	ESTEBAN	DS	23	KL	50000	5

In [42]:
```
emp.shape
```

Out[42]:
```
(5, 6)
```

In [44]:
```
emp.columns
```

Out[44]:
```
Index(['NAME', 'DOMAIN', 'AGE', 'LOCATION', 'SALARY', 'EXP'], dtype='object')
```

In [46]:
```
len(emp.columns)
```

Out[46]: 6

In [48]:
```
len(emp)
```

Out[48]: 5

In [50]:
```
emp
```

Out[50]:

	NAME	DOMAIN	AGE	LOCATION	SALARY	EXP
0	ALBON	TESTING	22	BNG	5000	1
1	BOTAS	JAVA	31	CHE	10000	2
2	CARLOZ	C	25	HYD	15000	3
3	DANIEL	DA	30	DEL	20000	4
4	ESTEBAN	DS	23	KL	50000	5

In [52]:
```
emp[['SALARY']]
```

Out[52]:

	SALARY
0	5000
1	10000
2	15000
3	20000
4	50000

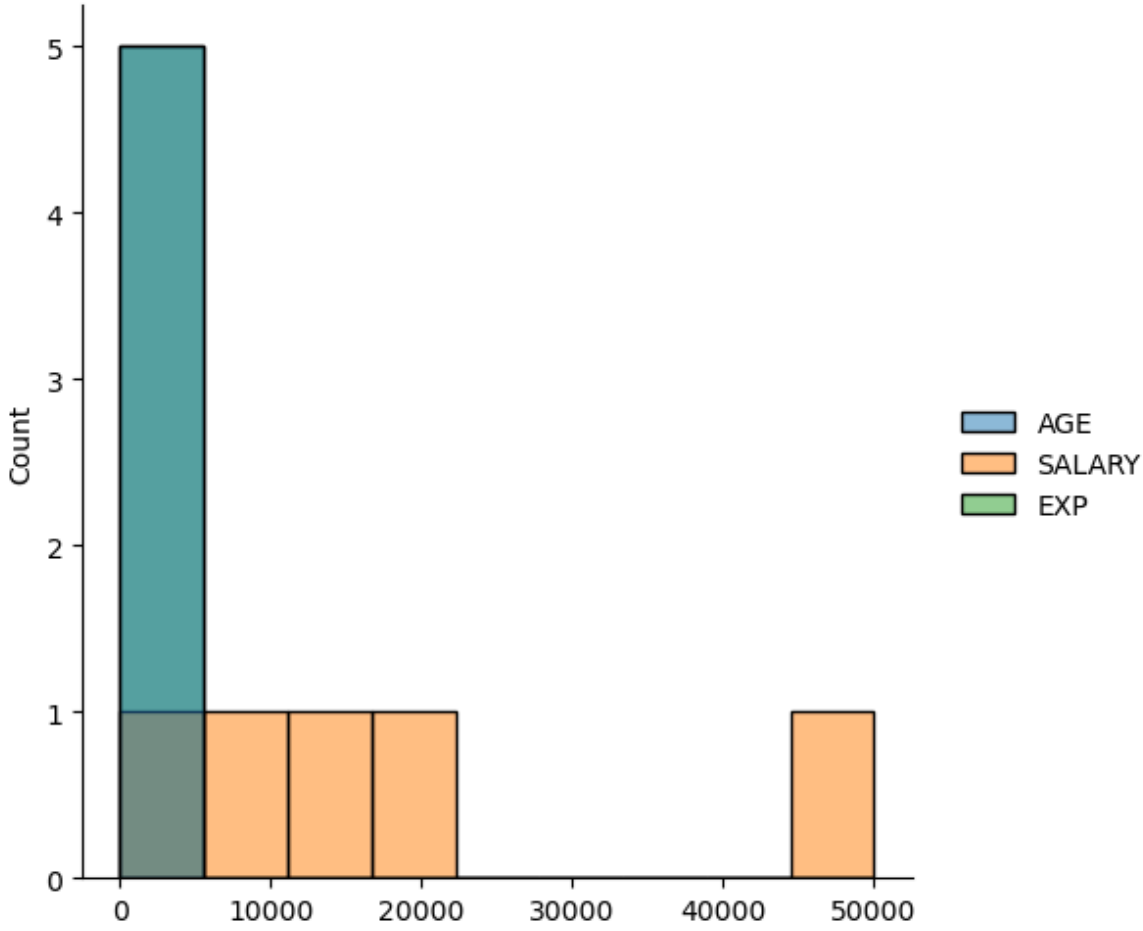
In [54]:
```
emp[['SALARY', 'EXP']]
```

Out[54]:

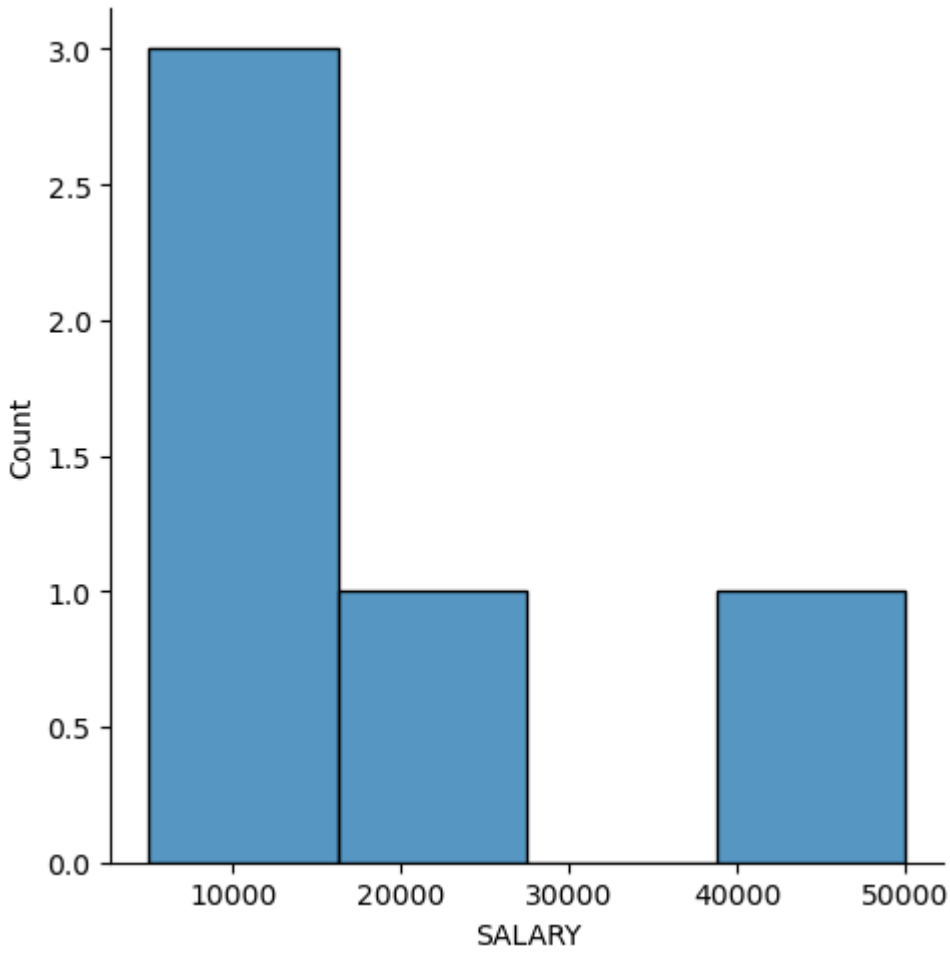
	SALARY	EXP
0	5000	1
1	10000	2
2	15000	3
3	20000	4
4	50000	5

In [56]:
```
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

In [60]:
```
vis1 = sns.displot(emp)
```

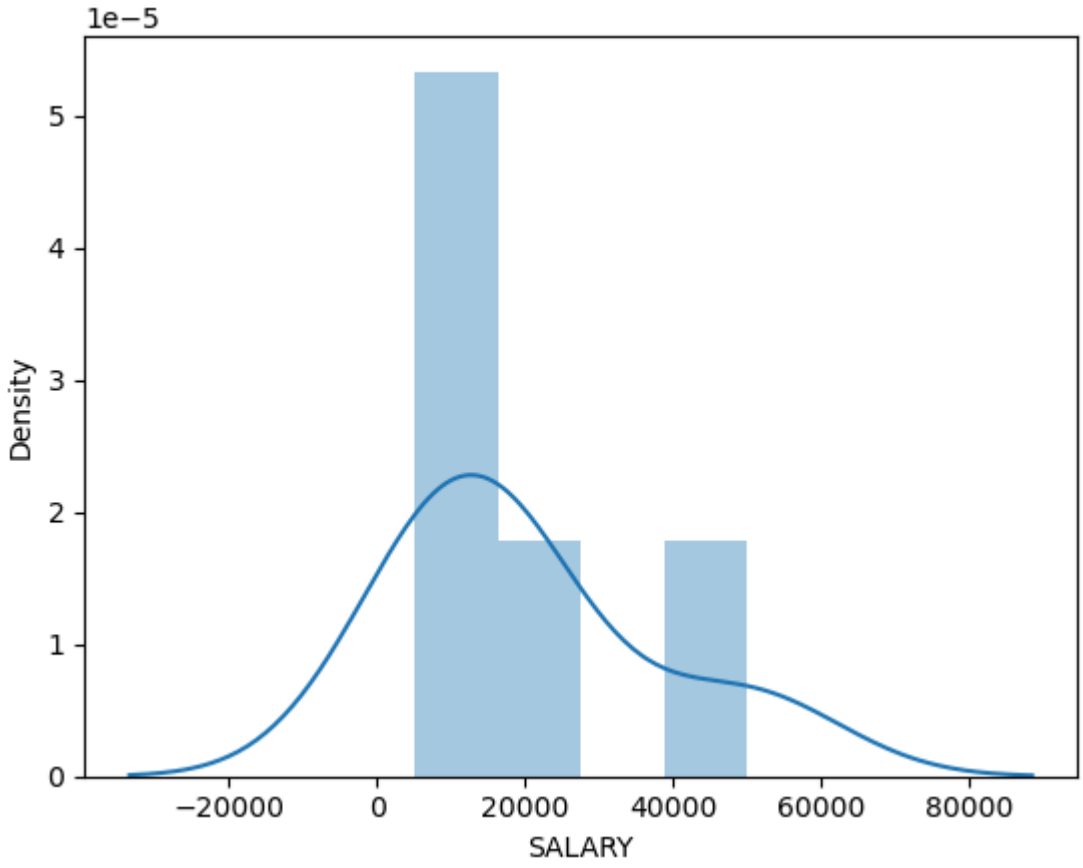


In [70]:
```
vis2 = sns.displot(emp['SALARY'])
```

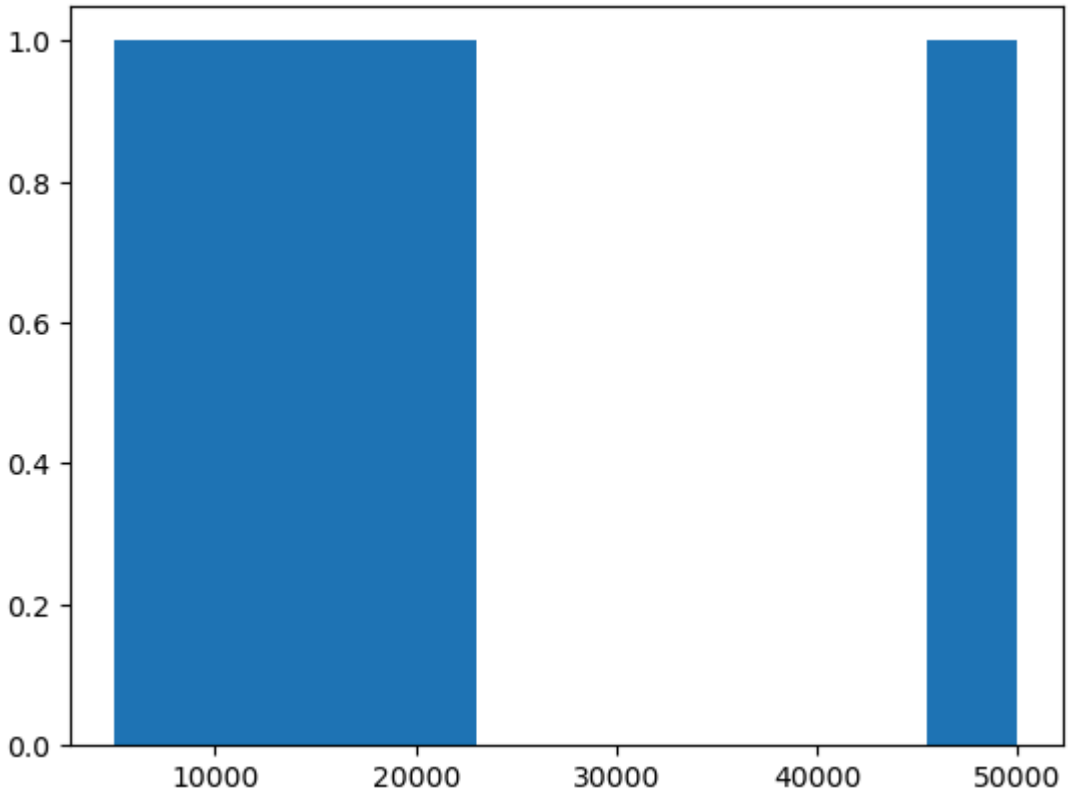


In [72]:
```
vis3 = sns.distplot(emp['SALARY'])
```

```
C:\Users\AKSHAY\AppData\Local\Temp\ipykernel_16036\2078906813.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

  vis3 = sns.distplot(emp['SALARY'])
```



In [74]:
```
vis4 = plt.hist(emp['SALARY'])
```

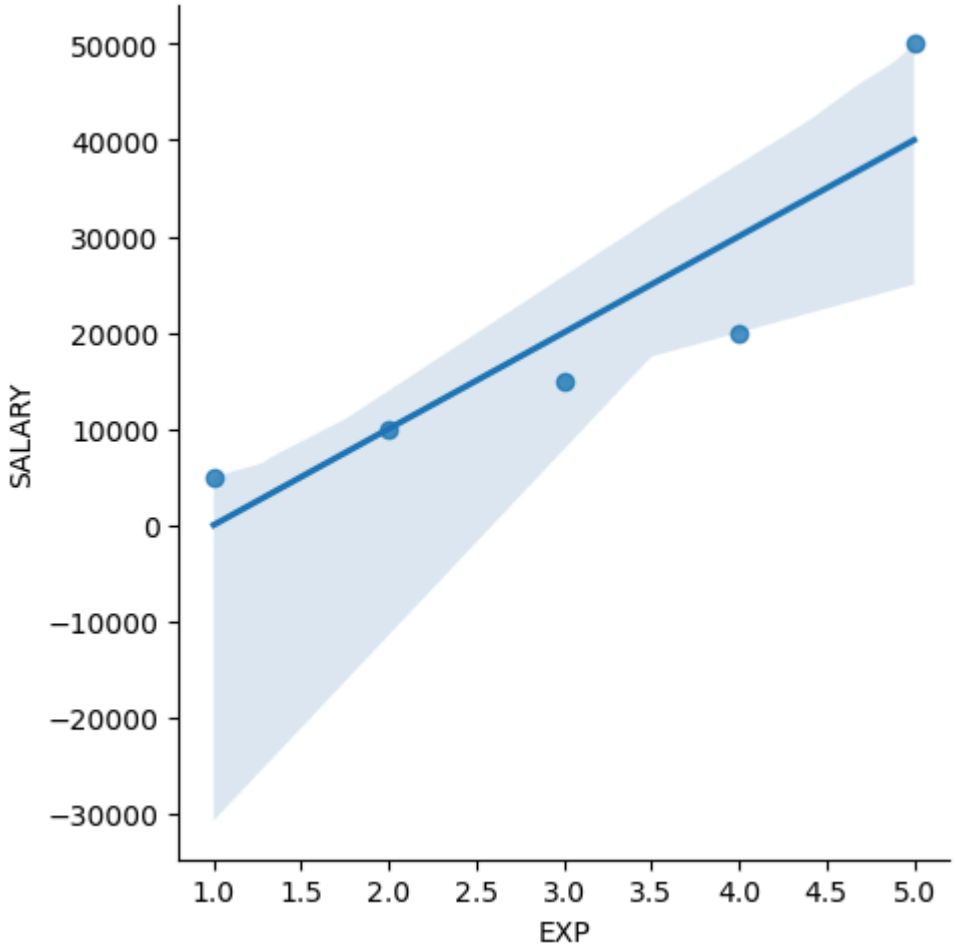


In [76]:
```
emp
```

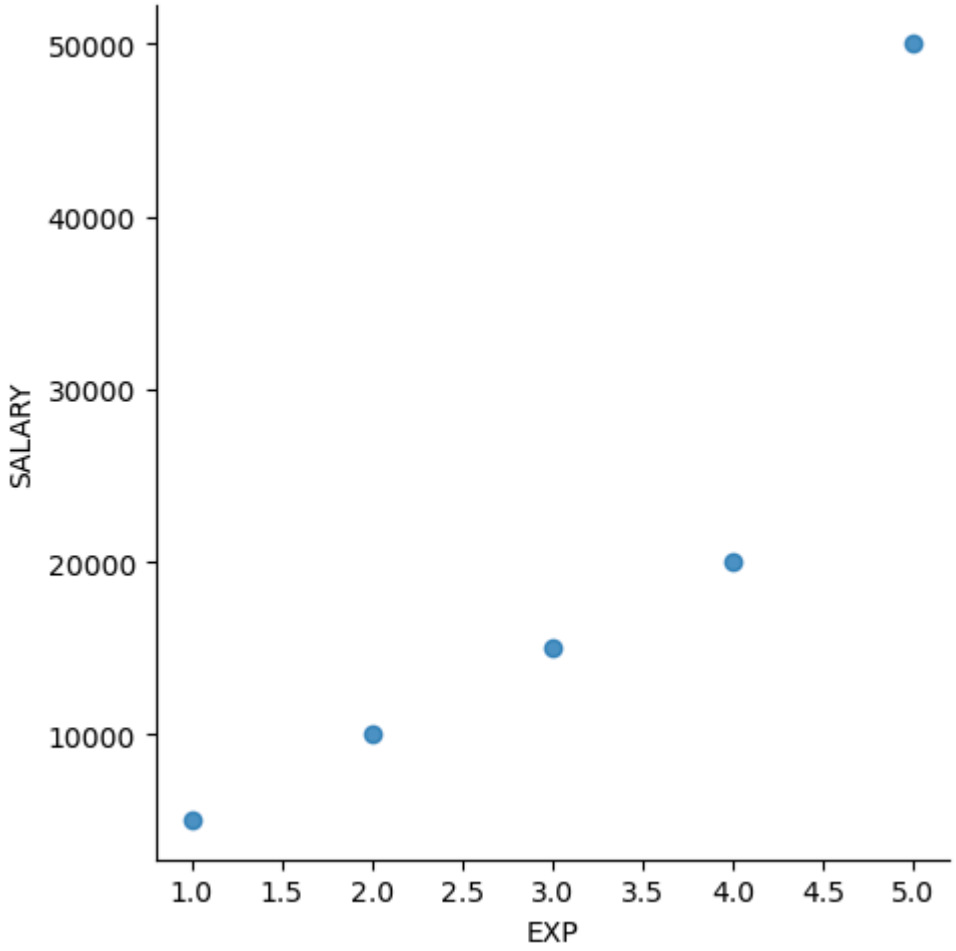
Out[76]:

	NAME	DOMAIN	AGE	LOCATION	SALARY	EXP
0	ALBON	TESTING	22	BNG	5000	1
1	BOTAS	JAVA	31	CHE	10000	2
2	CARLOZ	C	25	HYD	15000	3
3	DANIEL	DA	30	DEL	20000	4
4	ESTEBAN	DS	23	KL	50000	5

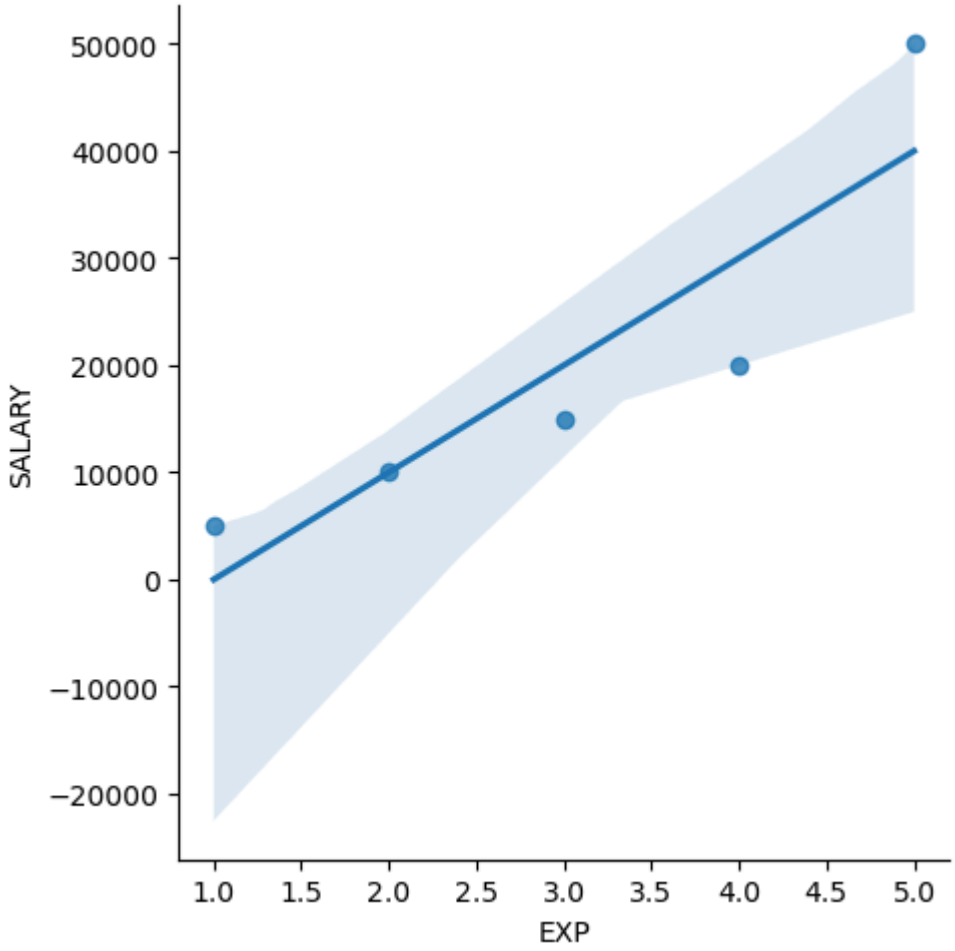
In [80]:
```
vis5 = sns.lmplot(data = emp, x = 'EXP', y = 'SALARY')
```



In [84]:
```
vis5 = sns.lmplot(data = emp, x = 'EXP', y = 'SALARY', fit_reg = False)
```



In [88]:
```
vis5 = sns.lmplot(data = emp, x = 'EXP', y = 'SALARY', fit_reg = True)
```



In [90]:
```
emp
```

Out[90]:

	NAME	DOMAIN	AGE	LOCATION	SALARY	EXP
0	ALBON	TESTING	22	BNG	5000	1
1	BOTAS	JAVA	31	CHE	10000	2
2	CARLOZ	C	25	HYD	15000	3
3	DANIEL	DA	30	DEL	20000	4
4	ESTEBAN	DS	23	KL	50000	5

In [ ]:
```
```