```python
import pandas as pd
```

```python
df = pd.read_csv("https://raw.githubusercontent.com/AmenaNajeeb/Data/master/salaries.csv")
```

```python
df.shape
```
```
(78, 6)
```

```python
df.head(10)
```

	rank	discipline	phd	service	gender	salary
0	Prof	B	56	49	Male	186960
1	Prof	A	12	6	Male	93000
2	Prof	A	23	20	Male	110515
3	Prof	A	40	31	Male	131205
4	Prof	B	20	18	Male	104800
5	Prof	A	20	20	Male	122400
6	AssocProf	A	20	17	Male	81285
7	Prof	A	18	18	Male	126300
8	Prof	A	29	19	Male	94350
9	Prof	A	51	51	Male	57800

```python
df.tail()
```

	rank	discipline	phd	service	gender	salary
73	Prof	B	18	10	Female	105450
74	AssocProf	B	19	6	Female	104542
75	Prof	B	17	17	Female	124312
76	Prof	A	28	14	Female	109954
77	Prof	A	23	15	Female	109646

```python
df.describe()
```

	phd	service	salary
count	78.000000	78.000000	78.000000
mean	19.705128	15.051282	108023.782051
std	12.498425	12.139768	28293.661022
min	1.000000	0.000000	57800.000000
25%	10.250000	5.250000	88612.500000
50%	18.500000	14.500000	104671.000000
75%	27.750000	20.750000	126774.750000
max	56.000000	51.000000	186960.000000

```python
df.columns
```
```
Index(['rank', 'discipline', 'phd', 'service', 'gender', 'salary'], dtype='object')
```

```python
df["salary"]
```
```
0      186960
1       93000
2      110515
3      131205
4      104800
        ...
73     105450
74     104542
75     124312
76     109954
```

```
77    109646
Name: salary, Length: 78, dtype: int64
```

df[["salary"]]

	salary
0	186960
1	93000
2	110515
3	131205
4	104800
...	...
73	105450
74	104542
75	124312
76	109954
77	109646

78 rows × 1 columns

df_rank = df.groupby(['rank'])

df_rank.mean()

```
<ipython-input-11-6335689a0715>:1: FutureWarning: The default value of numeric_only in DataFrameGroupBy
  df_rank.mean()
```

rank	phd	service	salary
AssocProf	15.076923	11.307692	91786.230769
AsstProf	5.052632	2.210526	81362.789474
Prof	27.065217	21.413043	123624.804348

df[df['salary']>120000]

	rank	discipline	phd	service	gender	salary
0	Prof	B	56	49	Male	186960
3	Prof	A	40	31	Male	131205
5	Prof	A	20	20	Male	122400
7	Prof	A	18	18	Male	126300
10	Prof	B	39	33	Male	128250

```
df[df['gender']=="Female"]
```

	rank	discipline	phd	service	gender	salary
46	AsstProf	B	11	3	Female	74692
47	AssocProf	B	11	11	Female	103613
48	Prof	B	17	17	Female	111512
49	Prof	B	17	18	Female	122960
50	AsstProf	B	10	5	Female	97032
51	Prof	B	20	14	Female	127512
52	Prof	A	12	0	Female	105000
53	AsstProf	A	5	3	Female	73500
54	AssocProf	A	25	22	Female	62884
55	AsstProf	A	2	0	Female	72500
56	AssocProf	A	10	8	Female	77500
57	AsstProf	A	3	1	Female	72500
58	Prof	B	36	26	Female	144651
59	AssocProf	B	12	10	Female	103994
60	AsstProf	B	3	3	Female	92000
61	AssocProf	B	13	10	Female	103750
62	AssocProf	B	14	7	Female	109650
63	Prof	A	29	27	Female	91000
64	AssocProf	A	26	24	Female	73300
65	Prof	A	36	19	Female	117555
66	AsstProf	A	7	6	Female	63100
67	Prof	A	17	11	Female	90450
68	AsstProf	A	4	2	Female	77500
69	Prof	A	28	7	Female	116450
70	AsstProf	A	8	3	Female	78500
71	AssocProf	B	12	9	Female	71065
72	Prof	B	24	15	Female	161101
73	Prof	B	18	10	Female	105450
74	AssocProf	B	19	6	Female	104542
75	Prof	B	17	17	Female	124312
76	Prof	A	28	14	Female	109954
77	Prof	A	23	15	Female	109646

```
df[['phd','salary','service']].agg(['min','mean','max'])
```

	phd	salary	service
min	1.000000	57800.000000	0.000000
mean	19.705128	108023.782051	15.051282
max	56.000000	186960.000000	51.000000

```
df.iloc[1:5,0:5]
```

	rank	discipline	phd	service	gender
1	Prof	A	12	6	Male
2	Prof	A	23	20	Male
3	Prof	A	40	31	Male
4	Prof	B	20	18	Male

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