

```
In [1]: import pandas as pd
```

```
In [2]: employees = pd.read_excel('employee_data.xlsx')
```

```
In [3]: employees.head(10)
```

```
Out[3]:
```

	Employee	Gender	Age	Prior Experience	Beta Experience	Education	Annual Salary
0	1	1	39	5	12	4	57700
1	2	0	44	12	8	6	76400
2	3	0	24	0	2	4	44000
3	4	1	25	2	1	4	41600
4	5	0	56	5	25	8	163900
5	6	1	41	9	10	4	72700
6	7	1	33	6	2	6	60300
7	8	0	37	11	6	4	63500
8	9	1	51	12	16	6	131200
9	10	0	23	0	1	4	39200

```
In [4]: emp_sorted = employees.sort_values('Age', ascending=False)
emp_sorted.head()
```

```
Out[4]:
```

	Employee	Gender	Age	Prior Experience	Beta Experience	Education	Annual Salary
103	104	1	65	4	9	4	57800
93	94	1	64	5	7	4	55700
21	22	0	63	16	20	4	140400
101	102	0	61	9	15	6	109100
77	78	1	61	0	7	4	40500

```
In [5]: emp_sorted = emp_sorted.reset_index(drop=True)
emp_sorted.head()
```

```
Out[5]:
```

	Employee	Gender	Age	Prior Experience	Beta Experience	Education	Annual Salary
0	104	1	65	4	9	4	57800
1	94	1	64	5	7	4	55700
2	22	0	63	16	20	4	140400
3	102	0	61	9	15	6	109100

	Employee	Gender	Age	Prior Experience	Beta Experience	Education	Annual Salary	
	4	78	1	61	0	7	4	40500

```
In [6]: emp_female = employees[employees['Gender']==1].reset_index(drop=True)
emp_female.head()
```

```
Out[6]:
```

	Employee	Gender	Age	Prior Experience	Beta Experience	Education	Annual Salary
0	1	1	39	5	12	4	57700
1	4	1	25	2	1	4	41600
2	6	1	41	9	10	4	72700
3	7	1	33	6	2	6	60300
4	9	1	51	12	16	6	131200

```
In [7]: emp_female.shape
```

```
Out[7]: (119, 7)
```

```
In [8]: emp_female['Age'].dtypes
```

```
Out[8]: dtype('int64')
```

```
In [9]: emp_female['Age'].mean()
```

```
Out[9]: 40.319327731092436
```

```
In [10]: fem_mean = emp_female['Age'].mean()
round(fem_mean,2)
```

```
Out[10]: 40.32
```

```
In [11]: emp_female['Annual Salary'].min()
```

```
Out[11]: 12400
```

```
In [12]: emp_female['Annual Salary'].max()
```

```
Out[12]: 143500
```

```
In [13]: emp_female['Age'].median()
```

```
Out[13]: 42.0
```

```
In [14]: emp_female['Total Experience'] = emp_female['Prior Experience']+emp_female['Beta Experi
```

```
In [15]: emp_female['Total Experience']
```

```
Out[15]: 0      17
         1       3
         2      19
         3       8
         4      28
         ..
        114     29
        115     12
        116     28
        117      6
        118      7
        Name: Total Experience, Length: 119, dtype: int64
```

```
In [16]: emp_female.head()
```

```
Out[16]:
```

	Employee	Gender	Age	Prior Experience	Beta Experience	Education	Annual Salary	Total Experience
0	1	1	39	5	12	4	57700	17
1	4	1	25	2	1	4	41600	3
2	6	1	41	9	10	4	72700	19
3	7	1	33	6	2	6	60300	8
4	9	1	51	12	16	6	131200	28

```
In [17]: emp_female.to_excel('emp_female.xlsx')
```

```
In [ ]:
```