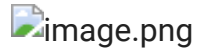


▼ Create a dataframe with following data.



```
import numpy as np
#importing pandas
import pandas as pd

employee_details = {'FirstName': ['Aryan', 'Rohan', 'Riya', 'Yash', 'Siddhant', 'xyz', 'pqr'],
                    'LastName': ['Singh', 'Agarwal', 'Shah', 'Bhatia', 'Khanna', 'abc', 'mno'],
                    'Type': ['Full-time Employee', 'Intern', 'Full-time Employee', 'Part-time Employee',
                             'Full-time Employee', 'Intern', 'Full-time Employee'],
                    'Department': ['Administration', 'Technical', 'Administration', 'Technical',
                                   'Administration', 'Administration', 'Technical'],
                    'YoE': [2, 3, 5, 7, 6, 1, 7],
                    'Salary': [20000, 5000, 10000, 10000, 20000, 4000, 30000]}
employee_df = pd.DataFrame(employee_details)
employee_df
```

Make a pivot table which shows average salary of each type of employee for each department.

```
#multiple indexes
table = pd.pivot_table(employee_df, index=['Type', 'Department'], values='Salary')
table
```

| | | Salary |
|--------------------|----------------|--------------|
| Type | Department | |
| Full-time Employee | Administration | 16666.666667 |
| | Technical | 30000.000000 |
| Intern | Administration | 4000.000000 |
| | Technical | 5000.000000 |
| Part-time Employee | Technical | 10000.000000 |

Make a pivot table which shows the sum and mean of the salaries of each type of employee and the number of employees of each type.

```
pivot = pd.pivot_table(
    data=employee_df,
    index='Type',
    values='Salary',
    aggfunc=['mean', 'sum'])
```

```
)
```

```
print(pivot)
```

| | | mean | sum |
|--------------------|--------|--------|-------|
| | Salary | Salary | |
| Type | | | |
| Full-time Employee | | 20000 | 80000 |
| Intern | | 4500 | 9000 |
| Part-time Employee | | 10000 | 10000 |

```
employee_df.pivot_table(index='Type', values='Salary', aggfunc=len)
```

| | Salary |
|--------------------|--------|
| Type | |
| Full-time Employee | 4 |
| Intern | 2 |
| Part-time Employee | 1 |

