

Notes by: jpwebdevelopers.

Joining Dataframe

- In order to join dataframe, we use the `.join()` method.
- This function combines the columns of two Dataframes into a single Dataframe.
- It helps us merge two data sets with different indexes into one.

Steps:-

- Create two Dataframes from dictionaries.
- join the Dataframes using `.join()`.
- The Output will be combined Dataframes with columns from both Dataframes.

Program

```
import pandas as pd
data1 = {'Name': ['palvi', 'jp', 'web', 'developers'],
         'Age': [35, 40, 50, 60]}
```

```
data2 = {'Address': ['Malout', 'muktsar', 'Bathinda', 'Alwar']}
```

//_

```
'Qualification' : ['MCA', 'Phd', 'BCA', 'Bcom'] }
```

```
df1 = pd.DataFrame (data1, index = ['k0', 'k1', 'k2', 'k3'])
```

```
df2 = pd.DataFrame (data2, index = ['k0', 'k2', 'k3', 'k4'])
```

```
print (" DataFrame 1 (df1) : \n ", df1)
```

```
print (" DataFrame 2 (df2) : \n ", df2)
```

```
res = df1.join (df2)
```

```
print (" \n Result after joining : \n ", res)
```

Output

→ DataFrame 1 (df1)

| | Name | Age |
|----|------------|-----|
| k0 | Palvi | 35 |
| k1 | JP | 40 |
| k2 | Web | 50 |
| k3 | developers | 60 |

→ DataFrame (df2)

| | Address | Qualification |
|----|----------|---------------|
| k0 | malaut | MCA |
| k2 | Muktsar | Phd |
| k3 | Bathinda | BCA |
| k4 | Abohar | BCom |

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Result after joining

| | Name | Age | Address | Qualification |
|----|------------|-----|----------|---------------|
| k0 | Palvi | 35 | malout | mca |
| k1 | JP | 40 | NAN | NAN |
| k2 | web | 50 | muktsar | phd |
| k3 | developers | 60 | bathinda | bca |

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