

In Python, we can easily join Pandas DataFrames using the `join()` method. This will join the columns of two different DataFrames.

Let us see an example and create two DataFrames and join them:

Menu

```
import pandas as pd

# Dataset
data1 = {
    'id': ["S01", "S02", "S03", "S04", "S05"],
    'student': ["Amit", "John", "Jacob", "David", "Diana"],
    'roll': [101, 102, 103, 104, 105]
}
data2 = {
    'rank': [1, 4, 3, 5, 2],
    'marks': [95, 70, 80, 60, 90]
}

# DataFrame
dataFrame1 = pd.DataFrame(data1)
print("DataFrame1 =\n", dataFrame1)
dataFrame2 = pd.DataFrame(data2)
print("\nDataFrame2 =\n", dataFrame2)

# Join two DataFrames
resDF = dataFrame1.join(dataFrame2)
print("\nJoining DataFrames =\n", resDF)
```

Output

```
DataFrame1 =
   id student  roll
0  S01   Amit   101
1  S02   John   102
2  S03  Jacob   103
3  S04   David   104
```

Concatenate Pandas DataFrames

In this lesson, learn to concatenate Pandas DataFrames in Python using the `concat()` method. This will concatenate the content of the DataFrames.

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```

import pandas as pd

# Dataset
data1 = {
    'id': ["S01", "S02", "S03", "S04", "S05"],
    'student': ["Amit", "John", "Jacob", "David", "Steve"],
    'roll': [101, 102, 103, 104, 105]
}
data2 = {
    'id': ["S06", "S07", "S08"],
    'student': ["Ben", "Kane", "Rohit"],
    'roll': [106, 107, 108]
}

# DataFrame
dataFrame1 = pd.DataFrame(data1, index=[0, 1, 2, 3, 4])
print("DataFrame1 =\n", dataFrame1)
dataFrame2 = pd.DataFrame(data2, index=[5, 6, 7])
print("\nDataFrame2 =\n", dataFrame2)

# Concatenating two DataFrames
resDF = pd.concat([dataFrame1, dataFrame2])
print("\nConcatenating DataFrames =\n", resDF)

```

Output

```

DataFrame1 =
   id student  roll
0  S01    Amit   101
1  S02    John   102
2  S03   Jacob   103
3  S04   David   104
4  S05   Steve   105

DataFrame2 =
   id student  roll
5  S06     Ben   106
6  S07    Kane   107
7  S08   Rohit   108

Concatenating DataFrames =
   id student  roll
0  S01    Amit   101
1  S02    John   102
2  S03   Jacob   103
3  S04   David   104
4  S05   Steve   105
5  S06     Ben   106
6  S07    Kane   107

```

