

```
/home/r5sim/PycharmProjects/Example1/venv/bin/python /home/r5sim/pycharm-2019.1.3/helpers/pydev/pydevconsole.py --mode=client --port=36995
```

```
import sys; print('Python %s on %s' % (sys.version, sys.platform))
sys.path.extend(['/home/r5sim/PycharmProjects/Example1'])
```

PyDev console: starting.

Python 2.7.13 (default, Sep 26 2018, 18:42:22)

[GCC 6.3.0 20170516] on linux2

```
>>> runfile('/home/r5sim/PycharmProjects/Example1/4_Methods/JoinDfs1.py', wdir
='/home/r5sim/PycharmProjects/Example1/4_Methods')
```

```
--- df1 ---
```

```
    data
```

```
0      0
```

```
U      1
```

```
L      2
```

```
0      3
```

```
U      4
```

```
Index([u'0', u'U', u'L', u'0', u'U'], dtype='object')
```

```
--- df2 ---
```

```
    profit
```

```
0      10
```

```
0      20
```

```
U      20
```

```
Index([u'0', u'0', u'U'], dtype='object')
```

```
- df2 joined with df1 -
```

```
    data  profit
```

```
L      2      NaN
```

```
0      0     10.0
```

```
0      0     20.0
```

```
0      3     10.0
```

```
0      3     20.0
```

```
U      1     20.0
```

```
U      4     20.0
```

```
Index([u'L', u'0', u'0', u'0', u'0', u'U', u'U'], dtype='object')
```

```
- df1 joined with df2 -
```

```
    profit  data
```

```
0      10      0
```

```
0      10      3
```

```
0      20      0
```

```
0      20      3
```

```
U      20      1
```

```
U      20      4
```

```
Index([u'0', u'0', u'0', u'0', u'U', u'U'], dtype='object')
```

```
=====
```

```
--- df3 ---
```

```
    ref1  ref2  ref3
```

```
0      A      5      0
```

```
1      A     10      1
```

```
2      0     15      2
```

```
3      0     20      3
```

```
4      A     25      4
```

```
RangeIndex(start=0, stop=5, step=1)
```

```
--- df4 ---
```

```
    col1  col2
```

```
A 20      0      1
```

```
   10      2      3
```

```

0 10      4      5
   10      6      7
   20      8      9
MultiIndex(levels=[[u'A', u'0'], [10, 20]],
            codes=[[0, 0, 1, 1, 1], [1, 0, 0, 0, 1]])
--- df4 reindexed to df3 index with level=0, problem pending---
Empty DataFrame
Columns: [col1, col2]
Index: []
MultiIndex(levels=[[0, 1, 2, 3, 4], [10, 20]],
            codes=[[], []])
=====
--- df3 ---
   ref1  ref2  ref3
0     A     5     0
1     A    10     1
2     0    15     2
3     0    20     3
4     A    25     4
RangeIndex(start=0, stop=5, step=1)
--- df6 ---
   ref1  ref2  ref3
0     A    15     0
1     A    20     1
2     0    25     2
3     0    30     3
4     0    35     4
RangeIndex(start=0, stop=5, step=1)
--- df6 joined df3 ---
   ref1x  ref2x  ref3x  ref1y  ref2y  ref3y
0     A     5     0     A    15     0
1     A    10     1     A    20     1
2     0    15     2     0    25     2
3     0    20     3     0    30     3
4     A    25     4     0    35     4
RangeIndex(start=0, stop=5, step=1)
=====
--- df3 ---
   ref1  ref2  ref3
0     A     5     0
1     A    10     1
2     0    15     2
3     0    20     3
4     A    25     4
RangeIndex(start=0, stop=5, step=1)
--- df6 indexes 5 to 9---
   ref1  ref2  ref3
5     A    15     0
6     A    20     1
7     0    25     2
8     0    30     3
9     0    35     4
Int64Index([5, 6, 7, 8, 9], dtype='int64')
--- df6 different indexes joined with df3 ---
   ref1x  ref2x  ref3x  ref1y  ref2y  ref3y
0     A     5     0   NaN   NaN   NaN
1     A    10     1   NaN   NaN   NaN
2     0    15     2   NaN   NaN   NaN

```

JoinDfs1

3	0	20	3	NaN	NaN	NaN
4	A	25	4	NaN	NaN	NaN

RangeIndex(start=0, stop=5, step=1)