

```

1 /home/r5sim/PycharmProjects/Example1/venv/bin/python /home
  /r5sim/pycharm-2019.1.3/helpers/pydev/pydevconsole.py --
  mode=client --port=41523
2
3 import sys; print('Python %s on %s' % (sys.version, sys.
  platform))
4 sys.path.extend(['/home/r5sim/PycharmProjects/Example1'])
5
6 PyDev console: starting.
7
8 Python 2.7.13 (default, Sep 26 2018, 18:42:22)
9 [GCC 6.3.0 20170516] on linux2
10 >>> runfile('/home/r5sim/PycharmProjects/Example1/
  4_Methods/JoinDfs1.py', wdir='/home/r5sim/PycharmProjects/
  Example1/4_Methods')
11 --- df1 ---
12     data
13 0      0
14 U      1
15 L      2
16 0      3
17 U      4
18 Index([u'0', u'U', u'L', u'0', u'U'], dtype='object')
19 --- df2 ---
20     profit
21 0      10
22 0      20
23 U      20
24 Index([u'0', u'0', u'U'], dtype='object')
25 - df2 joined with df1 -
26     data  profit
27 L      2      NaN
28 0      0     10.0
29 0      0     20.0
30 0      3     10.0
31 0      3     20.0
32 U      1     20.0
33 U      4     20.0
34 Index([u'L', u'0', u'0', u'0', u'0', u'U', u'U'], dtype='
  object')
35 =====
36 --- df3 ---
37     ref1  ref2  ref3
38 0      A      5      0
39 1      A     10      1
40 2      0     15      2
41 3      0     20      3
42 4      A     25      4
43 RangeIndex(start=0, stop=5, step=1)
44 --- df4 ---

```

```

45      col1  col2
46 A 20      0      1
47   10      2      3
48 0 10      4      5
49   10      6      7
50   20      8      9
51 MultiIndex(levels=[[u'A', u'0'], [10, 20]],
52              codes=[[0, 0, 1, 1, 1], [1, 0, 0, 0, 1]])
53 --- df4 reindexed to df3 index with level=0, problem
    pending---
54 Empty DataFrame
55 Columns: [col1, col2]
56 Index: []
57 MultiIndex(levels=[[0, 1, 2, 3, 4], [10, 20]],
58              codes=[[], []])
59 =====
60 --- df3 ---
61   ref1  ref2  ref3
62 0     A     5     0
63 1     A    10     1
64 2     0    15     2
65 3     0    20     3
66 4     A    25     4
67 RangeIndex(start=0, stop=5, step=1)
68 --- df6 ---
69   ref1  ref2  ref3
70 0     A    15     5
71 1     A    20     6
72 2     0    25     7
73 3     0    30     8
74 4     0    35     9
75 RangeIndex(start=0, stop=5, step=1)
76 --- df6 joined df3 ---
77   ref1x  ref2x  ref3x  ref1y  ref2y  ref3y
78 0     A     5     0     A    15     5
79 1     A    10     1     A    20     6
80 2     0    15     2     0    25     7
81 3     0    20     3     0    30     8
82 4     A    25     4     0    35     9
83 RangeIndex(start=0, stop=5, step=1)
84 =====
85 --- df3 ---
86   ref1  ref2  ref3
87 0     A     5     0
88 1     A    10     1
89 2     0    15     2
90 3     0    20     3
91 4     A    25     4
92 RangeIndex(start=0, stop=5, step=1)
93 --- df6 indexes 5 to 9---

```

```
94     ref1  ref2  ref3
95  5      A    15     5
96  6      A    20     6
97  7      0    25     7
98  8      0    30     8
99  9      0    35     9
100 Int64Index([5, 6, 7, 8, 9], dtype='int64')
101 --- df6 different indexes joined with df3 ---
102     ref1x  ref2x  ref3x  ref1y  ref2y  ref3y
103  0      A     5      0   NaN   NaN   NaN
104  1      A    10      1   NaN   NaN   NaN
105  2      0    15      2   NaN   NaN   NaN
106  3      0    20      3   NaN   NaN   NaN
107  4      A    25      4   NaN   NaN   NaN
108 RangeIndex(start=0, stop=5, step=1)
109
```