In [4]:

```
import numpy as np
import pandas as pd

ipl18 = pd.DataFrame({'Team': ['SRH', 'CSK', 'KKR', 'RR', 'MI', 'RCB', 'KXIP', 'DD'],
                      'Matches': [14, 14, 14, 14, 14, 14, 14, 14],
                      'Won': [9, 9, 8, 7, 6, 6, 6, 5],
                      'Lost': [5, 5, 6, 7, 8, 8, 8, 9],
                      'Tied': [0, 0, 0, 0, 0, 0, 0, 0],
                      'N/R': [0, 0, 0, 0, 0, 0, 0, 0],
                      'Points': [18, 18, 16, 14, 12, 12, 12, 10],
                      'NRR': [0.284, 0.253, -0.070, -0.250, 0.317, 0.129, -0.502, -0.222
                      'For': [2230, 2488, 2363, 2130, 2380, 2322, 2210, 2297],
                      'Against': [2193, 2433, 2425, 2141, 2282, 2383, 2259, 2304]},
                      index = range(1,9)
                    )

ipl18

ipl17 = pd.DataFrame({'Team': ['MI', 'RPS', 'SRH', 'KKR', 'KXIP', 'DD', 'GL', 'RCB'],
                      'Matches': [14, 14, 14, 14, 14, 14, 14, 14],
                      'Won': [10, 9, 8, 8, 7, 6, 4, 3],
                      'Lost': [4, 5, 5, 6, 7, 8, 10, 10],
                      'Tied': [0, 0, 0, 0, 0, 0, 0, 0],
                      'N/R': [0, 0, 1, 0, 0, 0, 0, 1],
                      'Points': [20, 18, 17, 16, 14, 12, 8, 7],
                      'NRR': [0.784, 0.176, 0.469, 0.641, 0.123, -0.512, -0.412, -1.299]
                      'For': [2407, 2180, 2221, 2329, 2207, 2219, 2406, 1845],
                      'Against': [2242, 2165, 2118, 2300, 2229, 2255, 2472, 2033]},
                      index = range(1,9)
                    )

ipl17

"""Question-1: Suppose in 'ipl18', you want to filter out the teams that have an NRR greate
and for which the 'For' score exceeds the 'Against' score, i.e. both the conditions should
Which teams will be left after you perform the above filtration ?

a) CSK, MI b) SRH,CSK, MI c) SRH,CSK, RCB d) SRK,CSK, MI,RCB
"""

#Solution of Question 1
ipl18[(ipl18['NRR'] > 0) & (ipl18['For'] > ipl18['Against'])]
```

Out[4]:

	Team	Matches	Won	Lost	Tied	N/R	Points	NRR	For	Against
1	SRH	14	9	5	0	0	18	0.284	2230	2193
2	CSK	14	9	5	0	0	18	0.253	2488	2433
5	MI	14	6	8	0	0	12	0.317	2380	2282

In [ ]:

```
Answer = b) SRH, CSK, MI
```

In [1]:
```
import numpy as np
import pandas as pd

ipl18 = pd.DataFrame({'Team': ['SRH', 'CSK', 'KKR', 'RR', 'MI', 'RCB', 'KXIP', 'DD'],
                          'Matches': [14, 14, 14, 14, 14, 14, 14, 14],
                          'Won': [9, 9, 8, 7, 6, 6, 6, 5],
                          'Lost': [5, 5, 6, 7, 8, 8, 8, 9],
                          'Tied': [0, 0, 0, 0, 0, 0, 0, 0],
                          'N/R': [0, 0, 0, 0, 0, 0, 0, 0],
                          'Points': [18, 18, 16, 14, 12, 12, 12, 10],
                          'NRR': [0.284, 0.253, -0.070, -0.250, 0.317, 0.129, -0.502, -0.222],
                          'For': [2230, 2488, 2363, 2130, 2380, 2322, 2210, 2297],
                          'Against': [2193, 2433, 2425, 2141, 2282, 2383, 2259, 2304]},
                          index = range(1,9)
                      )

ipl18
ipl17 = pd.DataFrame({'Team': ['MI', 'RPS', 'SRH', 'KKR', 'KXIP', 'DD', 'GL', 'RCB'],
                          'Matches': [14, 14, 14, 14, 14, 14, 14, 14],
                          'Won': [10, 9, 8, 8, 7, 6, 4, 3],
                          'Lost': [4, 5, 5, 6, 7, 8, 10, 10],
                          'Tied': [0, 0, 0, 0, 0, 0, 0, 0],
                          'N/R': [0, 0, 1, 0, 0, 0, 0, 1],
                          'Points': [20, 18, 17, 16, 14, 12, 8, 7],
                          'NRR': [0.784, 0.176, 0.469, 0.641, 0.123, -0.512, -0.412, -1.299],
                          'For': [2407, 2180, 2221, 2329, 2207, 2219, 2406, 1845],
                          'Against': [2242, 2165, 2118, 2300, 2229, 2255, 2472, 2033]},
                          index = range(1,9)
                      )

ipl17

"""
Q2. If all the stats are taken for both ‘ipl17’ and ‘ipl18’,
which team with its total points greater than 25 will have the highest win percentage
"""
#Solution of Question 2
combined_table = pd.concat([ipl17,ipl18]).groupby('Team').sum().sort_values('Points', ascending=False)
df= combined_table.loc[(combined_table['Points'] > 25)]
print([(df['Won'] / df['Matches'] * 100)])
```

```
[Team
SRH     60.714286
KKR     57.142857
MI      57.142857
KXIP    46.428571
dtype: float64]
```

In [ ]:
```
Answer = SRH
```