In [15]:

```python
import pandas as pd
df= pd.read_excel(r"C:\Users\Arjun\Downloads\Players.xlsx")
df
```

Out[15]:

	Player_Name	DOB	Batting_Hand	Bowling_Skill	Country
0	A Ashish Reddy	1991-02-24	Right_Hand	Right-arm medium	India
1	A Chandila	1983-12-05	Right_Hand	Right-arm offbreak	India
2	A Chopra	1977-09-19	Right_Hand	Right-arm offbreak	India
3	A Choudhary	NaT	Right_hand	Left-arm fast-medium	NaN
4	A Dananjaya	NaT	Right_Hand	Right-arm offbreak	NaN
...	...	...	...	...	...
561	Younis Khan	1977-11-29	Right_Hand	Right-arm medium	Pakistan
562	YS Chahal	1990-07-23	Right_Hand	Legbreak googly	India
563	Yuvraj Singh	1981-12-12	Left_Hand	Slow left-arm orthodox	India
564	YV Takawale	1984-11-05	Right_Hand	NaN	India
565	Z Khan	1978-10-07	Right_Hand	Left-arm fast-medium	India

566 rows × 5 columns

In [16]:

```python
rb = pd.DataFrame(df)
```

In [17]:

```python
res = rb["Batting_Hand"] == "Right_Hand"
res
```

Out[17]:

```
0      True
1      True
2      True
3      False
4      True
       ...
561    True
562    True
563    False
564    True
565    True
Name: Batting_Hand, Length: 566, dtype: bool
```

In [19]:

```
rb[res]
```

Out[19]:

	Player_Name	DOB	Batting_Hand	Bowling_Skill	Country
0	A Ashish Reddy	1991-02-24	Right_Hand	Right-arm medium	India
1	A Chandila	1983-12-05	Right_Hand	Right-arm offbreak	India
2	A Chopra	1977-09-19	Right_Hand	Right-arm offbreak	India
4	A Dananjaya	NaT	Right_Hand	Right-arm offbreak	NaN
5	A Flintoff	1977-12-06	Right_Hand	Right-arm fast-medium	England
...	...	...	...	...	...
560	YK Pathan	1982-11-17	Right_Hand	Right-arm offbreak	India
561	Younis Khan	1977-11-29	Right_Hand	Right-arm medium	Pakistan
562	YS Chahal	1990-07-23	Right_Hand	Legbreak googly	India
564	YV Takawale	1984-11-05	Right_Hand	NaN	India
565	Z Khan	1978-10-07	Right_Hand	Left-arm fast-medium	India

373 rows × 5 columns

In [20]:

```
cnt = df['Country']=="India"
```

In [21]:

```
cnt
```

Out[21]:

```
0      True
1      True
2      True
3      False
4      False
       ...
561    False
562    True
563    True
564    True
565    True
Name: Country, Length: 566, dtype: bool
```

In [22]:

```
df[cnt]
```

Out[22]:

	Player_Name	DOB	Batting_Hand	Bowling_Skill	Country
0	A Ashish Reddy	1991-02-24	Right_Hand	Right-arm medium	India
1	A Chandila	1983-12-05	Right_Hand	Right-arm offbreak	India
2	A Chopra	1977-09-19	Right_Hand	Right-arm offbreak	India
8	A Kumble	1970-10-17	Right_Hand	Legbreak googly	India
9	A Mishra	1982-11-24	Right_Hand	Legbreak	India
...	...	...	...	...	...
560	YK Pathan	1982-11-17	Right_Hand	Right-arm offbreak	India
562	YS Chahal	1990-07-23	Right_Hand	Legbreak googly	India
563	Yuvraj Singh	1981-12-12	Left_Hand	Slow left-arm orthodox	India
564	YV Takawale	1984-11-05	Right_Hand	NaN	India
565	Z Khan	1978-10-07	Right_Hand	Left-arm fast-medium	India

264 rows × 5 columns

In [23]:

```
cnt = df['Country']=="South Africa"
```

In [24]:

```
cnt
```

Out[24]:

```
0      False
1      False
2      False
3      False
4      False
       ...
561    False
562    False
563    False
564    False
565    False
Name: Country, Length: 566, dtype: bool
```

In [25]:

```
df[cnt]
```

	M de Lange	1986-10-13	Right_Hand	Right-arm fast	South Africa
280	M Morkel	1984-10-06	Left_Hand	Right-arm fast	South Africa
282	M Ntini	1977-07-06	Right_Hand	Right-arm fast	South Africa
315	MN van Wyk	1979-03-20	Right_Hand	Slow left-arm orthodox	South Africa
329	MV Boucher	1976-12-03	Right_Hand	Right-arm medium	South Africa
376	Q de Kock	1992-12-17	Left_Hand	NaN	South Africa
383	R McLaren	1983-02-09	Left_Hand	Right-arm medium-fast	South Africa
399	RE Levi	1988-01-14	Right_Hand	Right-arm medium	South Africa
400	RE van der Merwe	1984-12-31	Right_Hand	Slow left-arm orthodox	South Africa
404	RJ Peterson	1979-08-04	Left_Hand	Slow left-arm orthodox	South Africa
413	RR Rossouw	1989-10-09	Left_Hand	Right-arm offbreak	South Africa
484	SM Pollock	1973-07-16	Right_Hand	Right-arm fast-medium	South Africa
511	T Henderson	1974-08-01	Right_Hand	Right-arm fast-medium	South Africa
515	T Shamsi	1990-02-18	Right_Hand	Slow left-arm chinaman	South Africa

In [27]:

```
len(df[cnt])
```

Out[27]:

```
39
```

In [31]:

```
cnt = df['Country']=="India"
```

In [32]:

```
cnt1 = df['Country']=="England"
```

In [34]:

```
con=cnt | cnt1
```

In [35]:

```
con
```

Out[35]:

```
0        True
1        True
2        True
3       False
4       False
         ...
561     False
562      True
563      True
564      True
565      True
Name: Country, Length: 566, dtype: bool
```

In [51]:

```
new_df1 = df[con]
```

In [52]:

```
bh = new_df1['Batting_Hand']=="Left_Hand"
```

In [53]:

```
bh
```

Out[53]:

```
0       False
1       False
2       False
5       False
8       False
         ...
560     False
562     False
563      True
564     False
565     False
Name: Batting_Hand, Length: 278, dtype: bool
```

In [62]:

```
new_df2=new_df1[bh]
```

In [63]:

```
new_df2
```

Out[63]:

	Player_Name	DOB	Batting_Hand	Bowling_Skill	Country
26	AB Barath	1990-04-14	Left_Hand	Right-arm offbreak	India
40	AG Murtaza	1990-01-01	Left_Hand	Slow left-arm orthodox	India
44	AL Menaria	1990-10-29	Left_Hand	Slow left-arm orthodox	India
45	AM Nayar	1983-10-08	Left_Hand	Right-arm medium	India
51	Anirudh Singh	1980-08-02	Left_Hand	Right-arm medium	India
52	Ankit Sharma	1991-04-20	Left_Hand	Slow left-arm orthodox	India
59	AR Patel	1994-01-20	Left_Hand	Slow left-arm orthodox	India
77	BA Bhatt	1990-05-13	Left_Hand	Slow left-arm orthodox	India
83	BB Sran	1992-12-10	Left_Hand	Left-arm medium	India
86	Bipul Sharma	1983-09-28	Left_Hand	Slow left-arm orthodox	India
128	DH Yagnik	1983-06-22	Left_Hand	NaN	India
152	EJG Morgan	1986-09-10	Left_Hand	Right-arm medium	England
157	FY Fazal	1985-09-07	Left_Hand	Right-arm medium	India
158	G Gambhir	1981-10-14	Left_Hand	Legbreak	India
176	Harmeet Singh	1992-09-07	Left_Hand	Slow left-arm orthodox	India
178	Harpreet Singh	1991-08-11	Left_Hand	Right-arm medium	India
187	IK Pathan	1984-10-27	Left_Hand	Left-arm medium-fast	India
189	Iqbal Abdulla	1989-12-02	Left_Hand	Slow left-arm orthodox	India
191	Ishan Kishan	1998-07-18	Left_Hand	NaN	India
200	J Suchith	1994-01-16	Left_Hand	Slow left-arm orthodox	India
201	J Syed Mohammad	1983-06-03	Left_Hand	Slow left-arm orthodox	India
225	K Goel	1986-12-24	Left_Hand	Right-arm offbreak	India
235	Kamran Khan	1991-03-10	Left_Hand	Left-arm medium-fast	India
242	KH Pandya	1991-03-24	Left_Hand	Slow left-arm orthodox	India
253	Kuldeep Yadav	1994-12-14	Left_Hand	Slow left-arm chinaman	India
254	KV Sharma	1987-10-23	Left_Hand	Legbreak googly	India
275	M Kartik	1976-09-11	Left_Hand	Slow left-arm orthodox	India
307	MJ Lumb	1980-02-12	Left_Hand	Right-arm medium	England
332	N Rana	1993-12-27	Left_Hand	Right-arm offbreak	India
339	NK Patel	1981-03-26	Left_Hand	NaN	India
354	P Negi	1993-01-06	Left_Hand	Slow left-arm orthodox	India
356	P Prasanth	1985-05-22	Left_Hand	Slow left-arm orthodox	India
362	PA Patel	1985-03-09	Left_Hand	NaN	India
371	PP Chawla	1988-12-24	Left_Hand	Legbreak	India
372	PP Ojha	1986-09-05	Left_Hand	Slow left-arm orthodox	India
392	R Tewatia	1993-05-20	Left_Hand	Legbreak	India
394	RA Jadeja	1988-12-06	Left_Hand	Slow left-arm orthodox	India

	Player_Name	DOB	Batting_Hand	Bowling_Skill	Country
395	RA Shaikh	1985-06-12	Left_Hand	Left-arm medium	India
410	RR Pant	1997-10-04	Left_Hand	NaN	India
416	RS Gavaskar	1976-02-20	Left_Hand	Slow left-arm orthodox	India
420	RV Pawar	1979-09-06	Left_Hand	Slow left-arm orthodox	India
424	S Aravind	1984-04-08	Left_Hand	Left-arm medium-fast	India
429	S Dhawan	1985-12-05	Left_Hand	Right-arm offbreak	India
442	S Narwal	1982-04-16	Left_Hand	Right-arm medium	India
450	S Sriram	1976-02-21	Left_Hand	Slow left-arm orthodox	India
452	S Vidyut	1981-12-03	Left_Hand	Slow left-arm orthodox	India
457	Sachin Baby	1988-12-18	Left_Hand	Right-arm offbreak	India
461	SB Jakati	1980-11-27	Left_Hand	Slow left-arm orthodox	India
462	SB Joshi	1970-06-06	Left_Hand	Slow left-arm orthodox	India
464	SB Wagh	1988-10-09	Left_Hand	Left-arm medium-fast	India
465	SC Ganguly	1972-07-08	Left_Hand	Right-arm medium	India
477	SK Raina	1986-11-27	Left_Hand	Right-arm offbreak	India
490	SP Goswami	1989-05-18	Left_Hand	NaN	India
501	SS Tiwary	1989-12-30	Left_Hand	NaN	India
525	TM Srivastava	1989-11-07	Left_Hand	Right-arm medium	India
526	TP Sudhindra	1984-04-24	Left_Hand	Right-arm fast	India
529	U Kaul	1987-12-02	Left_Hand	NaN	India
540	VH Zol	1994-11-23	Left_Hand	Right-arm offbreak	India
558	YA Abdulla	1983-01-17	Left_Hand	Left-arm fast-medium	India
563	Yuvraj Singh	1981-12-12	Left_Hand	Slow left-arm orthodox	India

In [64]:

```
bs = new_df2['Bowling_Skill']=="Right-arm fast"
```

In [65]:

```
bs
```

Out[65]:

Out[65]:

```
26      False
40      False
44      False
45      False
51      False
52      False
59      False
77      False
83      False
86      False
128     False
152     False
157     False
158     False
176     False
178     False
187     False
189     False
191     False
200     False
201     False
225     False
235     False
242     False
253     False
254     False
275     False
307     False
332     False
339     False
354     False
356     False
362     False
371     False
392     False
394     False
395     False
410     False
411     False
420     False
424     False
429     False
442     False
450     False
452     False
457     False
461     False
464     False
465     False
477     False
490     False
501     False
525     False
526     True
529     False
540     False
558     False
```

In [66]:
```python
new_df3=new_df2[bs]
```

In [67]:
```python
new_df3
```

Out[67]:

	Player_Name	DOB	Batting_Hand	Bowling_Skill	Country
526	TP Sudhindra	1984-04-24	Left_Hand	Right-arm fast	India

In [70]:
```python
bs = df['Bowling_Skill']=="left arm fast"
```

In [71]:
```python
bs1 = df['Bowling_Skill']=="Right-arm fast-medium"
```

In [72]:
```python
b=bs|bs1
```

In [73]:
```python
df[b]
```

Out[73]:

	Player_Name	DOB	Batting_Hand	Bowling_Skill	Country
5	A Flintoff	1977-12-06	Right_Hand	Right-arm fast-medium	England
13	A Nel	1977-07-15	Right_Hand	Right-arm fast-medium	South Africa
24	AA Noffke	1977-04-30	Right_Hand	Right-arm fast-medium	Australia
29	AB McDonald	1981-06-05	Right_Hand	Right-arm fast-medium	Australia
33	AC Thomas	1977-02-09	Right_Hand	Right-arm fast-medium	England
...	...	...	...	...	...
510	T Curran	NaT	Right_hand	Right-arm fast-medium	NaN
511	T Henderson	1974-08-01	Right_Hand	Right-arm fast-medium	South Africa
513	T Mishra	1986-12-22	Right_Hand	Right-arm fast-medium	India
532	Umar Gul	1984-04-14	Right_Hand	Right-arm fast-medium	Pakistan
534	UT Yadav	1987-10-25	Right_Hand	Right-arm fast-medium	India

68 rows × 5 columns

```
563    False
Name: Bowling_Skill, dtype: bool
```

In [ ]: