

# T20

March 29, 2024

```
[1]: import pandas as pd
import json
```

```
C:\Users\LENOVO\anaconda3\lib\site-packages\pandas\compat\__init__.py:120:
UserWarning: Could not import the lzma module. Your installed Python is
incomplete. Attempting to use lzma compression will result in a RuntimeError.
warnings.warn(msg)
```

```
[2]: with open('t20_wc_match_results.json') as f:
      data1=json.load(f)
      df_match=pd.DataFrame(data1[0]['matchSummary'])
```

```
[3]: df_match.head()
```

```
[3]:
```

	team1	team2	winner	margin	ground	matchDate	\
0	Namibia	Sri Lanka	Namibia	55 runs	Geelong	Oct 16, 2022	
1	Netherlands	U.A.E.	Netherlands	3 wickets	Geelong	Oct 16, 2022	
2	Scotland	West Indies	Scotland	42 runs	Hobart	Oct 17, 2022	
3	Ireland	Zimbabwe	Zimbabwe	31 runs	Hobart	Oct 17, 2022	
4	Namibia	Netherlands	Netherlands	5 wickets	Geelong	Oct 18, 2022	

```
      scorecard
0  T20I # 1823
1  T20I # 1825
2  T20I # 1826
3  T20I # 1828
4  T20I # 1830
```

```
[4]: df_match.shape
```

```
[4]: (45, 7)
```

```
[5]: df_match.rename({'scorecard':'match_id'}, axis=1,inplace=True)
```

```
[6]: df_match.to_csv('match_summary.csv',index=False)
```

Batting Summary

```
[7]: with open('t20_wc_batting_summary.json') as f:
      data2=json.load(f)

      all_record=[]

      for rec in data2:
          all_record.extend(rec['battingSummary'])

df_batting=pd.DataFrame(all_record)
```

```
[8]: df_batting.head(11)
```

```
[8]:
```

	match	teamInnings	battingPos	batsmanName	\
0	Namibia Vs Sri Lanka	Namibia	1	Michael van Lingen	
1	Namibia Vs Sri Lanka	Namibia	2	Divan la Cock	
2	Namibia Vs Sri Lanka	Namibia	3	Jan Nicol Loftie-Eaton	
3	Namibia Vs Sri Lanka	Namibia	4	Stephan Baard	
4	Namibia Vs Sri Lanka	Namibia	5	Gerhard Erasmus(c)	
5	Namibia Vs Sri Lanka	Namibia	6	Jan Frylinck	
6	Namibia Vs Sri Lanka	Namibia	7	David Wiese	
7	Namibia Vs Sri Lanka	Namibia	8	JJ Smit	
8	Namibia Vs Sri Lanka	Sri Lanka	1	Pathum Nissanka	
9	Namibia Vs Sri Lanka	Sri Lanka	2	Kusal Mendis†	
10	Namibia Vs Sri Lanka	Sri Lanka	3	Dhananjaya de Silva	

  

		dismissal	runs	balls	4s	6s	SR
0	c Pramod Madushan b Chameera	3	6	0	0	50.00	
1	c Shanaka b Pramod Madushan	9	9	1	0	100.00	
2	c †Mendis b Karunaratne	20	12	1	2	166.66	
3	c DM de Silva b Pramod Madushan	26	24	2	0	108.33	
4	c Gunathilaka b PWH de Silva	20	24	0	0	83.33	
5	run out (Gunathilaka/†Mendis)	44	28	4	0	157.14	
6	c †Mendis b Theekshana	0	1	0	0	0.00	
7		31	16	2	2	193.75	
8	c Smit b Shikongo	9	10	1	0	90.00	
9	c †Green b Wiese	6	6	0	0	100.00	
10	c Shikongo b Frylinck	12	11	1	0	109.09	

```
[9]: df_batting["out/not_out"]=df_batting.dismissal.apply(lambda x: "out" if len(x) > 0
↳ else "not_out")
df_batting
```

```
[9]:
```

	match	teamInnings	battingPos	batsmanName	\
0	Namibia Vs Sri Lanka	Namibia	1	Michael van Lingen	
1	Namibia Vs Sri Lanka	Namibia	2	Divan la Cock	
2	Namibia Vs Sri Lanka	Namibia	3	Jan Nicol Loftie-Eaton	
3	Namibia Vs Sri Lanka	Namibia	4	Stephan Baard	

4	Namibia Vs Sri Lanka	Namibia	5	Gerhard Erasmus(c)
..	...	...	...	...
694	Pakistan Vs England	England	3	Phil Salt
695	Pakistan Vs England	England	4	Ben Stokes
696	Pakistan Vs England	England	5	Harry Brook
697	Pakistan Vs England	England	6	Moeen Ali
698	Pakistan Vs England	England	7	Liam Livingstone

		dismissal	runs	balls	4s	6s	SR	out/not_out
0	c Pramod Madushan b Chameera		3	6	0	0	50.00	out
1	c Shanaka b Pramod Madushan		9	9	1	0	100.00	out
2	c †Mendis b Karunaratne		20	12	1	2	166.66	out
3	c DM de Silva b Pramod Madushan		26	24	2	0	108.33	out
4	c Gunathilaka b PWH de Silva		20	24	0	0	83.33	out
..	...	...	...	...	...	...	...	...
694	c Iftikhar Ahmed b Haris Rauf		10	9	2	0	111.11	out
695			52	49	5	1	106.12	not_out
696	c Shaheen Shah Afridi b Shadab Khan		20	23	1	0	86.95	out
697	b Mohammad Wasim		19	13	3	0	146.15	out
698			1	1	0	0	100.00	not_out

[699 rows x 11 columns]

```
[10]: df_batting.drop(columns=["dismissal"],inplace=True)
```

```
[11]: df_batting.head(11)
```

```
[11]:
```

	match	teamInnings	battingPos	batsmanName	runs	\
0	Namibia Vs Sri Lanka	Namibia	1	Michael van Lingen	3	
1	Namibia Vs Sri Lanka	Namibia	2	Divan la Cock	9	
2	Namibia Vs Sri Lanka	Namibia	3	Jan Nicol Loftie-Eaton	20	
3	Namibia Vs Sri Lanka	Namibia	4	Stephan Baard	26	
4	Namibia Vs Sri Lanka	Namibia	5	Gerhard Erasmus(c)	20	
5	Namibia Vs Sri Lanka	Namibia	6	Jan Frylinck	44	
6	Namibia Vs Sri Lanka	Namibia	7	David Wiese	0	
7	Namibia Vs Sri Lanka	Namibia	8	JJ Smit	31	
8	Namibia Vs Sri Lanka	Sri Lanka	1	Pathum Nissanka	9	
9	Namibia Vs Sri Lanka	Sri Lanka	2	Kusal Mendis†	6	
10	Namibia Vs Sri Lanka	Sri Lanka	3	Dhananjaya de Silva	12	

  

	balls	4s	6s	SR	out/not_out
0	6	0	0	50.00	out
1	9	1	0	100.00	out
2	12	1	2	166.66	out
3	24	2	0	108.33	out
4	24	0	0	83.33	out
5	28	4	0	157.14	out

6	1	0	0	0.00	out
7	16	2	2	193.75	not_out
8	10	1	0	90.00	out
9	6	0	0	100.00	out
10	11	1	0	109.09	out

```
[12]: df_batting['batsmanName']=df_batting['batsmanName'].apply(lambda x: x.
      ↪replace('†',''))
df_batting['batsmanName']=df_batting['batsmanName'].apply(lambda x: x.
      ↪replace('(c)',''))
```

```
[13]: df_batting.head(11)
```

```
[13]:
```

	match	teamInnings	battlingPos	batsmanName	runs	\
0	Namibia Vs Sri Lanka	Namibia	1	Michael van Lingen	3	
1	Namibia Vs Sri Lanka	Namibia	2	Divan la Cock	9	
2	Namibia Vs Sri Lanka	Namibia	3	Jan Nicol Loftie-Eaton	20	
3	Namibia Vs Sri Lanka	Namibia	4	Stephan Baard	26	
4	Namibia Vs Sri Lanka	Namibia	5	Gerhard Erasmus	20	
5	Namibia Vs Sri Lanka	Namibia	6	Jan Frylinck	44	
6	Namibia Vs Sri Lanka	Namibia	7	David Wiese	0	
7	Namibia Vs Sri Lanka	Namibia	8	JJ Smit	31	
8	Namibia Vs Sri Lanka	Sri Lanka	1	Pathum Nissanka	9	
9	Namibia Vs Sri Lanka	Sri Lanka	2	Kusal Mendis	6	
10	Namibia Vs Sri Lanka	Sri Lanka	3	Dhananjaya de Silva	12	

	balls	4s	6s	SR	out/not_out
0	6	0	0	50.00	out
1	9	1	0	100.00	out
2	12	1	2	166.66	out
3	24	2	0	108.33	out
4	24	0	0	83.33	out
5	28	4	0	157.14	out
6	1	0	0	0.00	out
7	16	2	2	193.75	not_out
8	10	1	0	90.00	out
9	6	0	0	100.00	out
10	11	1	0	109.09	out

```
[14]: match_ids_dict={}

for index, row in df_match.iterrows():
    key1=row['team1']+' Vs '+row['team2']
    key2=row['team2']+' Vs '+ row['team1']

    match_ids_dict[key1]=row["match_id"]
    match_ids_dict[key2]=row["match_id"]
```

```
match_ids_dict
```

```
[14]: {'Namibia Vs Sri Lanka': 'T20I # 1823',
'Sri Lanka Vs Namibia': 'T20I # 1823',
'Netherlands Vs U.A.E.': 'T20I # 1825',
'U.A.E. Vs Netherlands': 'T20I # 1825',
'Scotland Vs West Indies': 'T20I # 1826',
'West Indies Vs Scotland': 'T20I # 1826',
'Ireland Vs Zimbabwe': 'T20I # 1828',
'Zimbabwe Vs Ireland': 'T20I # 1828',
'Namibia Vs Netherlands': 'T20I # 1830',
'Netherlands Vs Namibia': 'T20I # 1830',
'Sri Lanka Vs U.A.E.': 'T20I # 1832',
'U.A.E. Vs Sri Lanka': 'T20I # 1832',
'Ireland Vs Scotland': 'T20I # 1833',
'Scotland Vs Ireland': 'T20I # 1833',
'West Indies Vs Zimbabwe': 'T20I # 1834',
'Zimbabwe Vs West Indies': 'T20I # 1834',
'Netherlands Vs Sri Lanka': 'T20I # 1835',
'Sri Lanka Vs Netherlands': 'T20I # 1835',
'Namibia Vs U.A.E.': 'T20I # 1836',
'U.A.E. Vs Namibia': 'T20I # 1836',
'Ireland Vs West Indies': 'T20I # 1837',
'West Indies Vs Ireland': 'T20I # 1837',
'Scotland Vs Zimbabwe': 'T20I # 1838',
'Zimbabwe Vs Scotland': 'T20I # 1838',
'Australia Vs New Zealand': 'T20I # 1839',
'New Zealand Vs Australia': 'T20I # 1839',
'Afghanistan Vs England': 'T20I # 1840',
'England Vs Afghanistan': 'T20I # 1840',
'Ireland Vs Sri Lanka': 'T20I # 1841',
'Sri Lanka Vs Ireland': 'T20I # 1841',
'India Vs Pakistan': 'T20I # 1842',
'Pakistan Vs India': 'T20I # 1842',
'Bangladesh Vs Netherlands': 'T20I # 1843',
'Netherlands Vs Bangladesh': 'T20I # 1843',
'South Africa Vs Zimbabwe': 'T20I # 1844',
'Zimbabwe Vs South Africa': 'T20I # 1844',
'Australia Vs Sri Lanka': 'T20I # 1845',
'Sri Lanka Vs Australia': 'T20I # 1845',
'England Vs Ireland': 'T20I # 1846',
'Ireland Vs England': 'T20I # 1846',
'Afghanistan Vs New Zealand': 'T20I # 1846a',
'New Zealand Vs Afghanistan': 'T20I # 1846a',
'Bangladesh Vs South Africa': 'T20I # 1847',
'South Africa Vs Bangladesh': 'T20I # 1847',
```

'India Vs Netherlands': 'T20I # 1848',  
 'Netherlands Vs India': 'T20I # 1848',  
 'Pakistan Vs Zimbabwe': 'T20I # 1849',  
 'Zimbabwe Vs Pakistan': 'T20I # 1849',  
 'Afghanistan Vs Ireland': 'T20I # 1849a',  
 'Ireland Vs Afghanistan': 'T20I # 1849a',  
 'Australia Vs England': 'T20I # 1849b',  
 'England Vs Australia': 'T20I # 1849b',  
 'New Zealand Vs Sri Lanka': 'T20I # 1850',  
 'Sri Lanka Vs New Zealand': 'T20I # 1850',  
 'Bangladesh Vs Zimbabwe': 'T20I # 1851',  
 'Zimbabwe Vs Bangladesh': 'T20I # 1851',  
 'Netherlands Vs Pakistan': 'T20I # 1852',  
 'Pakistan Vs Netherlands': 'T20I # 1852',  
 'India Vs South Africa': 'T20I # 1853',  
 'South Africa Vs India': 'T20I # 1853',  
 'Australia Vs Ireland': 'T20I # 1855',  
 'Ireland Vs Australia': 'T20I # 1855',  
 'Afghanistan Vs Sri Lanka': 'T20I # 1856',  
 'Sri Lanka Vs Afghanistan': 'T20I # 1856',  
 'England Vs New Zealand': 'T20I # 1858',  
 'New Zealand Vs England': 'T20I # 1858',  
 'Netherlands Vs Zimbabwe': 'T20I # 1859',  
 'Zimbabwe Vs Netherlands': 'T20I # 1859',  
 'Bangladesh Vs India': 'T20I # 1860',  
 'India Vs Bangladesh': 'T20I # 1860',  
 'Pakistan Vs South Africa': 'T20I # 1861',  
 'South Africa Vs Pakistan': 'T20I # 1861',  
 'Ireland Vs New Zealand': 'T20I # 1862',  
 'New Zealand Vs Ireland': 'T20I # 1862',  
 'Australia Vs Afghanistan': 'T20I # 1864',  
 'Afghanistan Vs Australia': 'T20I # 1864',  
 'England Vs Sri Lanka': 'T20I # 1867',  
 'Sri Lanka Vs England': 'T20I # 1867',  
 'Netherlands Vs South Africa': 'T20I # 1871',  
 'South Africa Vs Netherlands': 'T20I # 1871',  
 'Bangladesh Vs Pakistan': 'T20I # 1872',  
 'Pakistan Vs Bangladesh': 'T20I # 1872',  
 'India Vs Zimbabwe': 'T20I # 1873',  
 'Zimbabwe Vs India': 'T20I # 1873',  
 'New Zealand Vs Pakistan': 'T20I # 1877',  
 'Pakistan Vs New Zealand': 'T20I # 1877',  
 'England Vs India': 'T20I # 1878',  
 'India Vs England': 'T20I # 1878',  
 'England Vs Pakistan': 'T20I # 1879',  
 'Pakistan Vs England': 'T20I # 1879'}

```
[15]: df_batting["match_id"]=df_batting["match"].map(match_ids_dict)
```

```
[16]: df_batting.head()
```

```
[16]:
```

	match	team	Innings	battingPos	batsmanName	runs	\
0	Namibia Vs Sri Lanka	Namibia		1	Michael van Lingen	3	
1	Namibia Vs Sri Lanka	Namibia		2	Divan la Cock	9	
2	Namibia Vs Sri Lanka	Namibia		3	Jan Nicol Loftie-Eaton	20	
3	Namibia Vs Sri Lanka	Namibia		4	Stephan Baard	26	
4	Namibia Vs Sri Lanka	Namibia		5	Gerhard Erasmus	20	

  

	balls	4s	6s	SR	out/not_out	match_id
0	6	0	0	50.00	out	T20I # 1823
1	9	1	0	100.00	out	T20I # 1823
2	12	1	2	166.66	out	T20I # 1823
3	24	2	0	108.33	out	T20I # 1823
4	24	0	0	83.33	out	T20I # 1823

```
[17]: df_batting["mach_id"]=df_batting["match"].map(match_ids_dict)
```

```
[18]: df_batting
```

```
[18]:
```

	match	team	Innings	battingPos	batsmanName	\
0	Namibia Vs Sri Lanka	Namibia		1	Michael van Lingen	
1	Namibia Vs Sri Lanka	Namibia		2	Divan la Cock	
2	Namibia Vs Sri Lanka	Namibia		3	Jan Nicol Loftie-Eaton	
3	Namibia Vs Sri Lanka	Namibia		4	Stephan Baard	
4	Namibia Vs Sri Lanka	Namibia		5	Gerhard Erasmus	
...	...	...		...	...	
694	Pakistan Vs England	England		3	Phil Salt	
695	Pakistan Vs England	England		4	Ben Stokes	
696	Pakistan Vs England	England		5	Harry Brook	
697	Pakistan Vs England	England		6	Moeen Ali	
698	Pakistan Vs England	England		7	Liam Livingstone	

  

	runs	balls	4s	6s	SR	out/not_out	match_id	mach_id
0	3	6	0	0	50.00	out	T20I # 1823	T20I # 1823
1	9	9	1	0	100.00	out	T20I # 1823	T20I # 1823
2	20	12	1	2	166.66	out	T20I # 1823	T20I # 1823
3	26	24	2	0	108.33	out	T20I # 1823	T20I # 1823
4	20	24	0	0	83.33	out	T20I # 1823	T20I # 1823
...	...	...	...	...	...	...	...	...
694	10	9	2	0	111.11	out	T20I # 1879	T20I # 1879
695	52	49	5	1	106.12	not_out	T20I # 1879	T20I # 1879
696	20	23	1	0	86.95	out	T20I # 1879	T20I # 1879
697	19	13	3	0	146.15	out	T20I # 1879	T20I # 1879
698	1	1	0	0	100.00	not_out	T20I # 1879	T20I # 1879

[699 rows x 12 columns]

```
[19]: df_batting.to_csv('fact_batting_summary.csv',index=False)
```

Bowling Summary

```
[20]: with open('t20_wc_bowling_summary.json') as f:
      data3=json.load(f)

      all_bowling=[]

      for bowl in data3:
          all_bowling.extend(bowl['bowlingSummary'])

      df_bowling_summary=pd.DataFrame(all_bowling)
```

```
[21]: df_bowling_summary.head(12)
```

```
[21]:
```

	match	bowlingTeam	bowlerName	overs	\
0	Namibia Vs Sri Lanka	Sri Lanka	Maheesh Theekshana	4	
1	Namibia Vs Sri Lanka	Sri Lanka	Dushmantha Chameera	4	
2	Namibia Vs Sri Lanka	Sri Lanka	Pramod Madushan	4	
3	Namibia Vs Sri Lanka	Sri Lanka	Chamika Karunaratne	4	
4	Namibia Vs Sri Lanka	Sri Lanka	Wanindu Hasaranga de Silva	4	
5	Namibia Vs Sri Lanka	Namibia	Gerhard Erasmus	1	
6	Namibia Vs Sri Lanka	Namibia	David Wiese	4	
7	Namibia Vs Sri Lanka	Namibia	Bernard Scholtz	4	
8	Namibia Vs Sri Lanka	Namibia	Ben Shikongo	3	
9	Namibia Vs Sri Lanka	Namibia	JJ Smit	3	
10	Namibia Vs Sri Lanka	Namibia	Jan Frylinck	4	
11	U.A.E. Vs Netherlands	Netherlands	Fred Klaassen	4	

	maiden	runs	wickets	economy	0s	4s	6s	wides	noBalls
0	0	23	1	5.75	7	0	0	2	0
1	0	39	1	9.75	6	3	1	2	0
2	0	37	2	9.25	6	3	1	0	0
3	0	36	1	9.00	7	3	1	1	0
4	0	27	1	6.75	8	1	1	0	0
5	0	8	0	8.00	1	1	0	0	0
6	0	16	2	4.00	13	1	0	0	0
7	0	18	2	4.50	10	1	0	0	0
8	1	22	2	7.33	6	3	0	0	0
9	0	16	1	5.33	7	0	0	1	0
10	0	26	2	6.50	10	0	2	1	0
11	0	13	2	3.25	18	0	0	3	0

```
[22]: df_bowling_summary["match_id"]=df_bowling_summary["match"].map(match_ids_dict)
```



```
[23]: df_bowling_summary
```

```
[23]:
```

	match	bowlingTeam	bowlerName	overs	\
0	Namibia Vs Sri Lanka	Sri Lanka	Maheesh Theekshana	4	
1	Namibia Vs Sri Lanka	Sri Lanka	Dushmantha Chameera	4	
2	Namibia Vs Sri Lanka	Sri Lanka	Pramod Madushan	4	
3	Namibia Vs Sri Lanka	Sri Lanka	Chamika Karunaratne	4	
4	Namibia Vs Sri Lanka	Sri Lanka	Wanindu Hasaranga de Silva	4	
..	...	...	...	...	
495	Pakistan Vs England	Pakistan	Naseem Shah	4	
496	Pakistan Vs England	Pakistan	Haris Rauf	4	
497	Pakistan Vs England	Pakistan	Shadab Khan	4	
498	Pakistan Vs England	Pakistan	Mohammad Wasim	4	
499	Pakistan Vs England	Pakistan	Iftikhar Ahmed	0.5	

  

	maiden	runs	wickets	economy	0s	4s	6s	wides	noBalls	match_id
0	0	23	1	5.75	7	0	0	2	0	T20I # 1823
1	0	39	1	9.75	6	3	1	2	0	T20I # 1823
2	0	37	2	9.25	6	3	1	0	0	T20I # 1823
3	0	36	1	9.00	7	3	1	1	0	T20I # 1823
4	0	27	1	6.75	8	1	1	0	0	T20I # 1823
..	...	...	...	...	...	...	...	...	...	...
495	0	30	0	7.50	15	3	1	1	0	T20I # 1879
496	0	23	2	5.75	13	3	0	1	0	T20I # 1879
497	0	20	1	5.00	10	1	0	0	0	T20I # 1879
498	0	38	1	9.50	5	5	0	2	0	T20I # 1879
499	0	13	0	15.60	0	1	1	0	0	T20I # 1879

[500 rows x 14 columns]

```
[24]: df_bowling_summary.to_csv('fact_bowling_summary.csv',index=False)
```

```
[25]: with open('t20_wc_player_info.json') as f:
      data4=json.load(f)
      df_player_info=pd.DataFrame(data4)
```

```
[26]: df_player_info
```

```
[26]:
```

	name	team	battingStyle	\
0	Michael van Lingen	Namibia	Left hand Bat	
1	Divan la Cock	Namibia	Right hand Bat	
2	Jan Nicol Loftie-Eaton	Namibia	Left hand Bat	
3	Stephan Baard	Namibia	Right hand Bat	
4	Gerhard Erasmus(c)	Namibia	Right hand Bat	
..	...	...	...	
214	Tabraiz Shamsi	South Africa	Right hand Bat	
215	Phil Salt	England	Right hand Bat	

216	Chris Jordan	England	Right hand Bat
217	Regis Chakabva(c)†	Zimbabwe	Right hand Bat
218	Mehidy Hasan Miraz	Bangladesh	Right hand Bat

	bowlingStyle	playingRole	\
0	Left arm Medium	Bowling Allrounder	
1	Legbreak	Opening Batter	
2	Right arm Medium, Legbreak	Batter	
3	Right arm Medium fast	Batter	
4	Right arm Offbreak	Allrounder	
..	...	...	
214	Left arm Wrist spin	Bowler	
215	Right arm Offbreak	Wicketkeeper Batter	
216	Right arm Fast medium	Bowler	
217	Right arm Offbreak	Wicketkeeper Batter	
218	Right arm Offbreak	Allrounder	

	description
0	
1	
2	
3	
4	
..	...
214	A left-arm wristspin bowler with ample variati...
215	Phil Salt's fearless ball-striking at the top ...
216	Chris Jordan, a fast bowler with a level-heade...
217	A doughty wicketkeeper-batsman, Regis Chakabva...
218	Mehedi Hasan Miraz has emerged as one of the b...

[219 rows x 6 columns]

```
[27]: df_player_info['name']=df_player_info['name'].apply(lambda x: x.replace('†',''))
df_player_info['name']=df_player_info['name'].apply(lambda x: x.
↪replace('(c)',''))
```

```
[28]: df_player_info
```

```
[28]:
```

	name	team	battingStyle	\
0	Michael van Lingen	Namibia	Left hand Bat	
1	Divan la Cock	Namibia	Right hand Bat	
2	Jan Nicol Loftie-Eaton	Namibia	Left hand Bat	
3	Stephan Baard	Namibia	Right hand Bat	
4	Gerhard Erasmus	Namibia	Right hand Bat	
..	...	...	...	
214	Tabraiz Shamsi	South Africa	Right hand Bat	
215	Phil Salt	England	Right hand Bat	

216	Chris Jordan	England	Right hand Bat
217	Regis Chakabva	Zimbabwe	Right hand Bat
218	Mehidy Hasan Miraz	Bangladesh	Right hand Bat

	bowlingStyle	playingRole	\
0	Left arm Medium	Bowling Allrounder	
1	Legbreak	Opening Batter	
2	Right arm Medium, Legbreak	Batter	
3	Right arm Medium fast	Batter	
4	Right arm Offbreak	Allrounder	
..	...	...	
214	Left arm Wrist spin	Bowler	
215	Right arm Offbreak	Wicketkeeper Batter	
216	Right arm Fast medium	Bowler	
217	Right arm Offbreak	Wicketkeeper Batter	
218	Right arm Offbreak	Allrounder	

	description
0	
1	
2	
3	
4	
..	...
214	A left-arm wristspin bowler with ample variati...
215	Phil Salt's fearless ball-striking at the top ...
216	Chris Jordan, a fast bowler with a level-heade...
217	A doughty wicketkeeper-batsman, Regis Chakabva...
218	Mehedi Hasan Miraz has emerged as one of the b...

[219 rows x 6 columns]

```
[29]: df_player_info.drop(columns='description',inplace=True)
```

```
[30]: df_player_info.head(12)
```

```
[30]:
```

	name	team	battingStyle	\
0	Michael van Lingen	Namibia	Left hand Bat	
1	Divan la Cock	Namibia	Right hand Bat	
2	Jan Nicol Loftie-Eaton	Namibia	Left hand Bat	
3	Stephan Baard	Namibia	Right hand Bat	
4	Gerhard Erasmus	Namibia	Right hand Bat	
5	Jan Frylinck	Namibia	Left hand Bat	
6	David Wiese	Namibia	Right hand Bat	
7	JJ Smit	Namibia	Right hand Bat	
8	Pathum Nissanka	Sri Lanka	Right hand Bat	
9	Kusal Mendis	Sri Lanka	Right hand Bat	

10	Dhananjaya de Silva	Sri Lanka	Right hand Bat
11	Danushka Gunathilaka	Sri Lanka	Left hand Bat

	bowlingStyle	playingRole
0	Left arm Medium	Bowling Allrounder
1	Legbreak	Opening Batter
2	Right arm Medium, Legbreak	Batter
3	Right arm Medium fast	Batter
4	Right arm Offbreak	Allrounder
5	Left arm Fast medium	Allrounder
6	Right arm Medium fast	Allrounder
7	Left arm Medium fast	Bowling Allrounder
8		Top order Batter
9	Legbreak	Wicketkeeper Batter
10	Right arm Offbreak	Allrounder
11	Right arm Offbreak	Allrounder

```
[31]: df_player_info.to_csv('fact_player_info.csv',index=True)
```