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In [33]: import numpy as np
import pandas as pd
```

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In [34]: df = pd.read_excel("test_cricket.xlsx", sheet_name='wickets')

display(df.head(10))
```

	Player	Span	Mat	Inns	Balls	Runs	Wkts	BBI	BBM	Ave	Econ	SR	5
<b>0</b>	M Muralitharan (ICC/SL)	1992-2010	133	230	44039	18180	800	1951-09-01 00:00:00	16/220	22.72	2.47	55.0	67
<b>1</b>	SK Warne (AUS)	1992-2007	145	273	40705	17995	708	1971-08-01 00:00:00	12/128	25.41	2.65	57.4	37
<b>2</b>	A Kumble (INDIA)	1990-2008	132	236	40850	18355	619	1974-10-01 00:00:00	14/149	29.65	2.69	65.9	35
<b>3</b>	JM Anderson (ENG)	2003-2021	162	301	34791	16457	617	1942-07-01 00:00:00	1971-11-01 00:00:00	26.67	2.83	56.3	30
<b>4</b>	GD McGrath (AUS)	1993-2007	124	243	29248	12186	563	2021-08-24 00:00:00	2021-10-27 00:00:00	21.64	2.49	51.9	29
<b>5</b>	SCJ Broad (ENG)	2007-2021	148	272	29713	14502	523	2021-08-15 00:00:00	11/121	27.72	2.92	56.8	18
<b>6</b>	CA Walsh (WI)	1984-2001	132	242	30019	12688	519	1937-07-01 00:00:00	13/55	24.44	2.53	57.8	22
<b>7</b>	DW Steyn (SA)	2004-2019	93	171	18608	10077	439	1951-07-01 00:00:00	1960-11-01 00:00:00	22.95	3.24	42.3	26
<b>8</b>	N Kapil Dev (INDIA)	1978-1994	131	227	27740	12867	434	1983-09-01 00:00:00	11/146	29.64	2.78	63.9	23
<b>9</b>	HMRKB Herath (SL)	1999-2018	93	170	25993	12157	433	9/127	14/184	28.07	2.80	60.0	34

This is a Test Match Data set. The Sheet name is wicket. This contains the bowler statistics and their wickets.

Player= Individual Player name & their country

Span= The time period they played for their country

Mat= No. of Matches

Inns= No. Of Innings

Balls = No. of Balls they delivered

Runs= No. Of Runs they conceded

Wkts= No.of wickets they taken

Ave=No. of Average

Econ=No.of Economy

SR= NO.of Strike Rate

5= No. of 5 wickets haul

10= No. of 10 wickets haul

```
In [35]: df.columns
```

```
Out[35]: Index(['Player', 'Span', 'Mat', 'Inns', 'Balls', 'Runs', 'Wkts',
              'BBI', 'BBM', 'Ave', 'Econ', 'SR', 5, 10],
              dtype='object')
```

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In [36]: df.shape
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Out[36]: (79, 14)
```

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In [28]: type(df)
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Out[28]: pandas.core.frame.DataFrame
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In [29]: df.isnull()
```

```
Out[29]:
```

	Player	Span	Mat	Inns	NO	Runs	HS	Ave	100	50	0
0	False	False	False	False	False	False	False	False	False	False	False
1	False	False	False	False	False	False	False	False	False	False	False
2	False	False	False	False	False	False	False	False	False	False	False
3	False	False	False	False	False	False	False	False	False	False	False
4	False	False	False	False	False	False	False	False	False	False	False
...	...	...	...	...	...	...	...	...	...	...	...
92	False	False	False	False	False	False	False	False	False	False	False
93	False	False	False	False	False	False	False	False	False	False	False
94	False	False	False	False	False	False	False	False	False	False	False
95	False	False	False	False	False	False	False	False	False	False	False
96	False	False	False	False	False	False	False	False	False	False	False

97 rows × 11 columns

```
In [46]: df = df.rename(columns={'Mat': 'Match',
```

```
'Inns': 'Innings',
'Wkts': 'Wickets',
'Ave': 'Average',
'Econ': 'Economy',
'SR': 'Strike Rate'})
#5: 'Five Wicket Haul',
#10: 'ten Wicket Haul'})
```

```
display(df.head())
```

	Player	Span	Match	Innings	Balls	Runs	Wickets	BBI	BBM	Average	Eco
0	M Muralitharan (ICC/SL)	1992-2010	133	230	44039	18180	800	1951-09-01 00:00:00	16/220	22.72	
1	SK Warne (AUS)	1992-2007	145	273	40705	17995	708	1971-08-01 00:00:00	12/128	25.41	
2	A Kumble (INDIA)	1990-2008	132	236	40850	18355	619	1974-10-01 00:00:00	14/149	29.65	
3	JM Anderson (ENG)	2003-2021	162	301	34791	16457	617	1942-07-01 00:00:00	1971-11-01 00:00:00	26.67	
4	GD McGrath (AUS)	1993-2007	124	243	29248	12186	563	2021-08-24 00:00:00	2021-10-27 00:00:00	21.64	

```
In [49]: df.drop('BBM', axis=1, inplace=True)
```

```
In [50]: df.head()
```

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Out[50]:
```

	Player	Span	Match	Innings	Balls	Runs	Wickets	Average	Economy	Strike Rate	5
0	M Muralitharan (ICC/SL)	1992-2010	133	230	44039	18180	800	22.72	2.47	55.0	67
1	SK Warne (AUS)	1992-2007	145	273	40705	17995	708	25.41	2.65	57.4	37
2	A Kumble (INDIA)	1990-2008	132	236	40850	18355	619	29.65	2.69	65.9	35
3	JM Anderson (ENG)	2003-2021	162	301	34791	16457	617	26.67	2.83	56.3	30
4	GD McGrath (AUS)	1993-2007	124	243	29248	12186	563	21.64	2.49	51.9	29

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In [ ]:
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