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21BAI1683(CSE(AI&ML))

import pandas as pd

df=pd.DataFrame([[463,18426,200,49,96],[350,10773,183,10,73],[275,12898,183,46,65],[375,13704,164,30,82],[228,9577,176,25,53], [260,6083,166,5,32],[404,14234,169,25,93],[301,10480,215,25,54],[187,6721,189,11,45],[287,9619,172,16,55]]) df

| | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| 0 | 463 | 18426 | 200 | 49 | 96 |
| 1 | 350 | 10773 | 183 | 10 | 73 |
| 2 | 275 | 12898 | 183 | 46 | 65 |
| 3 | 375 | 13704 | 164 | 30 | 82 |
| 4 | 228 | 9577 | 176 | 25 | 53 |
| 5 | 260 | 6083 | 166 | 5 | 32 |
| 6 | 404 | 14234 | 169 | 25 | 93 |
| 7 | 301 | 10480 | 215 | 25 | 54 |
| 8 | 187 | 6721 | 189 | 11 | 45 |
| 9 | 287 | 9619 | 172 | 16 | 55 |

df.columns=['Matches','Runs','Highest',100,50] df.index=['Sachin Tendulkar','MS Dhoni','Virat Kohli','Ricky Ponting','AB de Villiers','Brendon McCullum','Kumar Sangakkara','

df

| | Matches | Runs | Highest | 100 | 50 |
|---|---|---|---|---|---|
| Sachin Tendulkar | 463 | 18426 | 200 | 49 | 96 |
| MS Dhoni | 350 | 10773 | 183 | 10 | 73 |
| Virat Kohli | 275 | 12898 | 183 | 46 | 65 |
| Ricky Ponting | 375 | 13704 | 164 | 30 | 82 |
| AB de Villiers | 228 | 9577 | 176 | 25 | 53 |
| Brendon McCullum | 260 | 6083 | 166 | 5 | 32 |
| Kumar Sangakkara | 404 | 14234 | 169 | 25 | 93 |
| Chris Gayle | 301 | 10480 | 215 | 25 | 54 |
| Viv Richards | 187 | 6721 | 189 | 11 | 45 |
| Adam Gilchrist | 287 | 9619 | 172 | 16 | 55 |

df.info()

```
<class 'pandas.core.frame.DataFrame'>
Index: 10 entries, Sachin Tendulkar to Adam Gilchrist Data
columns (total 5 columns):
 #  Column  Non-Null Count  Dtype
--- ------  --------------  -----
 0       Matches  10 non-null    int64
 1       Runs    10 non-null    int64
 2       Highest 10 non-null    int64
 3       100     10 non-null    int64 4  50     10 non-null    int64 dtypes: int64(5) memory usage: 480.0+ bytes
```

df.describe()

|       | Matches    | Runs         | Highest    | 100       | 50        |
|-------|-----------|--------------|-----------|-----------|-----------|
| count | 10.000000 | 10.000000    | 10.000000 | 10.000000 | 10.000000 |
| mean  | 313.000000 | 11251.500000 | 181.700000 | 24.200000 | 64.800000 |
| std   | 84.438011 | 3691.228018  | 16.152399 | 14.672726 | 20.953918 |
| min   | 187.000000 | 6083.000000  | 164.000000 | 5.000000  | 32.000000 |
| 25%   | 263.750000 | 9587.500000  | 169.750000 | 12.250000 | 53.250000 |
| 50%   | 294.000000 | 10626.500000 | 179.500000 | 25.000000 | 60.000000 |
| 75%   | 368.750000 | 13502.500000 | 187.500000 | 28.750000 | 79.750000 |
| max   | 463.000000 | 18426.000000 | 215.000000 | 49.000000 | 96.000000 |

df.isnull ( )

|                   | Matches | Runs  | Highest | 100   | 50    |
|-------------------|---------|-------|---------|-------|-------|
| Sachin Tendulkar  | False   | False | False   | False | False |
| MS Dhoni          | False   | False | False   | False | False |
| Virat Kohli       | False   | False | False   | False | False |
| Ricky Ponting     | False   | False | False   | False | False |
| AB de Villiers    | False   | False | False   | False | False |
| Brendon McCullum  | False   | False | False   | False | False |
| Kumar Sangakkara  | False   | False | False   | False | False |
| Chris Gayle       | False   | False | False   | False | False |
| Viv Richards      | False   | False | False   | False | False |
| Adam Gilchrist    | False   | False | False   | False | False |

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