EDS Assignment 2

Topic: Mumbai indians team stats

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Code :

```python
import csv
# opening the files in read mode
Playersfile = open("MI_01.csv", "r")
Entryfile = open("MI_02.csv", "r")
statsfile = open("MI_03.csv", "r")
# retreiving the data from the csv files and stroing it in form of list
using csv
PlayerList = list(csv.reader(Playersfile))
PlayerData = list(csv.reader(Entryfile))
PlayerStat = list(csv.reader(statsfile))

RN=[]; WK=[]; STRK=[]; #List declaration to store runs,wickets,strike
rate
info={}; #Dictionary Declaration to store player specilization,no.of
matches, origin country
debute=(); age=(); #Touple Declaration to store debute & age
l1 = []; l2 = []

for i in range(1,len(PlayerList)):
D=[];
RN.append(int(PlayerStat[i][0]))
WK.append(int(PlayerStat[i][1]))
STRK.append(float(PlayerStat[i][2]))
D.append(PlayerList[i][2])
D.append(int(PlayerData[i][1]))
D.append(PlayerData[i][2])
info[PlayerList[i][1]]=D
l1.append(PlayerData[i][0])
l2.append(PlayerData[i][3])
```

```python
debute=tuple(l2)
age=tuple(l1)

print(RN)
print(WK)
print(STRK)
print(debute)
print(age)

for k in info.keys():
print(k,info[k])

# Q1)print the name of bowler who has maximum number of wickets.
print("A1) Player with maximum Wickets : ")
print("Player Detail:",PlayerList[WK.index(max(WK))])
print("wickets :",max(WK), end="\n\n")

# Q2) find the player name with maximum Runs.
print("A2) Player with maximum Runs : ")
print("Player Details :",PlayerList[RN.index(max(RN))])
print("Runs :",max(RN), end="\n\n")

# Q3)print the name of batsman who has minimum strike rate.
print("A3) Player with minimum strike rate : ")
print("Player Details :",PlayerList[STRK.index(min(STRK))])
print("Minimum strike_Rate :",min(STRK), end="\n\n")

# Q4)Find how many players are indian.
c=0
print("A4) NO OF Players witch are indian : ")
for s in info.keys():
if(info[s][2]=="Indian"):
c=c+1;

print("Total number of players which are indians:",c)

# Q5) print Find how many players are All-rounder.
print("A5) Total no. of all-rounder players : ")
p=0
for k in info.keys():
if(info[k][0]=="All Rounder"):
p=p+1;

print("Total number of players which are All-rounders:",p)
# Q6) who played most matches.
print("A6) Player played maximum matches : ")
max_matches = 0
player_name = ''
```

```python
for player in info.keys():
if max_matches < int(info[player][1]):
max_matches = int(info[player][1])
player_name = player
print("Player who played the most matches in ODI:", player_name)

# Q7)count number of players which are debuted in 2022.
print("A7)Total no. of players whichh are debuted in 2022 : ")
count_player=debute.count("2022")
print("number of players which are debuted in 2022 are:",count_player)
#Q8)count The number of players which are seniors.
print("A8)Total no. of players which are srniors : ")
H= age.count("35")
print(H)
# Q9)count number of players which are debuted in 2023
print("A9)Total no. of players whichh are debuted in 2023 : ")
l=debute.count("2023")
print(l)
# Q10)Find how many players are Batsmen .
a=0
print("A10) NO OF Players witch are batsmen: ")
for s in info.keys():
if(info[s][0]=="Batsman"):
a=a+1;

print("Total number of players which are batsmen:",a)
Playersfile.close()
Entryfile.close()
statsfile.close()
```

output:

```
[2205, 3020, 161, 671, 45, 27, 366, 13, 199, 274, 18, 183, 57, 609, 3,
66, 75, 1000, 3]
[0, 0, 1, 0, 6, 1, 0, 3, 48, 6, 5, 0, 145, 174, 16, 5, 28, 19, 8]
[133.8, 141.45, 142.48, 140.97, 112.5, 77.14, 185.79, 144.44, 155.47,
149.73, 120.0, 147.58, 86.36, 111.54, 75.0, 103.13, 115.38, 110.68,
60.0]
('2016', '2012', '2022', '2022', '2022', '2022', '2021', '2023',
'2018', '2023', '2023', '2023', '2013', '2008', '2019', '2022', '2016',
'2016', '2022')
('25', '33', '20', '21', '25', '23', '27', '24', '28', '24', '26',
'23', '30', '35', '33', '23', '35', '31', '26')
Ishan Kishan ['Wicket keeper', 86, 'Indian']
Suryakumar yadav ['Batsman', 134, 'Indian']
Dewald Brevis ['Batsman', 7, 'Overseas']
Tilak Verma ['Batsman', 23, 'Indian']
Ramandeep Singh ['Batsman', 5, 'Indian']
Tristan Stubbs ['Batsman', 4, 'Overseas']
Tim David ['Batsman', 20, 'Overseas']
Arjun Tendulkar ['All Rounder', 4, 'Indian']
Jofra Archer ['All Rounder', 40, 'Overseas']
```

```
Cameron Green ['All Rounder', 11, 'Overseas']
Mohd Arshad Khan ['All Rounder', 6, 'Indian']
Nehal Wadhera ['All Rounder', 9, 'Indian']
Jasprit Bumrah ['Bowler', 120, 'Indian']
Piyush Chawala ['Bowler', 176, 'Indian']
Jason Behrendroff ['Bowler', 12, 'Overseas']
Hrithik Shokeen ['Bowler', 11, 'Indian']
Chris Jordan ['Bowler', 29, 'Overseas']
Deepak Chahar ['Bowler', 67, 'Indian']
Kumar Kartikeya Singh ['Bowler', 9, 'Indian']
A1) Player with maximum Wickets :
Player Detail: ['14', 'Jasprit Bumrah', 'Bowler']
wickets : 174

A2) Player with maximum Runs :

Player Details : ['2', 'Ishan Kishan', 'Wicket keeper']
Runs : 3020

A3) Player with minimum strike rate :

Player Details : ['19', 'Deepak Chahar', 'Bowler']
Minimum strike_Rate : 60.0

A4) NO OF Players witch are indian :
Total number of players which are indians: 12
A5) Total no. of all-rounder players :
Total number of players which are All-rounders: 5
A6) Player played maximum matches :
Player who played the most matches in ODI: Piyush Chawala
A7)Total no. of players whichh are debuted in 2022 :
number of players which are debuted in 2022 are: 6
A8)Total no. of players which are srniors :
2
A9)Total no. of players whichh are debuted in 2023 :
4
A10) NO OF Players witch are batsmen:
Total number of players which are batsmen: 6
```