

EDS Assignment 2

Topic: Mumbai indians team stats

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Code :

```
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")

# retrieving the data from the csv files and storing 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 specialization,no.of
matches, origin country

debut=(); age=(); #Tuple Declaration to store debut & 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
```

```
    I1.append(PlayerData[i][0])
```

```
    I2.append(PlayerData[i][3])
```

```
debut=tuple(I2)
```

```
age=tuple(I1)
```

```
print(RN)
```

```
print(WK)
```

```
print(STRK)
```

```
print(debut)
```

```
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 = ""
```

```
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=debut.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=debut.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 which are debuted in 2022 :

number of players which are debuted in 2022 are: 6

A8) Total no. of players which are seniors :

2

A9) Total no. of players which are debuted in 2023 :

4

A10) NO OF Players which are batsmen:

Total number of players which are batsmen: 6