EDS Assignment 1

Topic: Mumbai indians team stats

Group Members:

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2. Vaibhav Jadhav (225)
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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")


# retreiving the data from the csv files and stroing it in form of list using csv reader

PlayerList = list(csv.reader(Playersfile))

PlayerData = list(csv.reader(Entryfile))

PlayerStat = list(csv.reader(statsfile))
```

```
# creating empty lists for different data items
PlayerNo = []
PlayerName = []
Specialization = []
age = []
Matchesplayed = []
OriginCountry = []
DebutYear = []
Salary = []
runs = []
wickets = []
Strikerate = []
Economy = []


# storing data into their respective lists
for i in range(1, len(PlayerList)):
    PlayerNo.append(int(PlayerList[i][0]))                    # storing player number
    PlayerName.append(PlayerList[i][1])                       # storing player name
```

```
        Specialization.append(PlayerList[i][2])                    # storing player
specialization


        age.append(PlayerData[i][0])                               # storing age
of a player
        Matchesplayed.append(int(PlayerData[i][1]))                # storing matches
played by the player
        OriginCountry.append(PlayerData[i][2])                     # storing origin
of a player
        DebutYear.append(int(PlayerData[i][3]))                    # storing debut
year of the player


        Salary.append(int(PlayerStat[i][0]))                       # storing salary of
the player
        runs.append(int(PlayerStat[i][1]))                         # storing runs
scored by the player
        wickets.append(int(PlayerStat[i][2]))                      # storing wickets
taken by the player
        Strikerate.append(float(PlayerStat[i][3]))                 # storing strike rate
of the player
        Economy.append(PlayerStat[i][4])                           # storing
economy rate of the player


# Q1) find the player name with maximum salary
print("A1) Player with maximum salary : ")
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print("Name :",PlayerName[Salary.index(max(Salary))])
print("Salary :",max(Salary), end="\n\n")

# Q2) find the count of players with minimum salary
countminsal = 0
for i in range(len(Salary)):
    if(Salary[i]==20):
        countminsal += 1
print("A2) No. of players with minimum salary : ", countminsal, end="\n\n")

# Q3) print the names of overseas players
print("A3) Overseas Players Names are :")
for i in range(len(OriginCountry)):
    if(OriginCountry[i]=='Overseas'):
        print(PlayerName[i], end="\n\n")

# Q4) print the names of indian batsman and all rounders
print("A4) Indian batsman names are : ")
for i in range(len(OriginCountry)):
    if(OriginCountry[i]=='Indian' and Specialization[i]=='Batsman'):
        print(PlayerName[i], end="\n\n")
```

```
# Q5) find the year of debut of the batsman with the highest strike rate

print("A5) Debut Year of the batsman with highest strike rate is :"
,DebutYear[Strikerate.index(max(Strikerate))],end="\n\n")


# Q6) find the age of the bowler with the lowest economy rate

print("A6) Age of the bowler with the lowest economy rate is
:",age[Economy.index(min(Economy))], end="\n\n")


# Q7) find the name of the player who has played the most and the least matches

print("A7)The name of the player who has played the most matches is :",
PlayerName[Matchesplayed.index(max(Matchesplayed))])

print("The name of the player who has played the least matches
is:",PlayerName[Matchesplayed.index(min(Matchesplayed))],end="\n\n")


# Q8) find the count of players with strike rate above 120.00

countStabove120 = 0

for i in range(len(Strikerate)):

    if(Strikerate[i]>120):

        countStabove120 += 1

print("A8) No. of players with stirke rate above 120 :", countStabove120 ,
end="\n\n")


# Q9) find the number of year played by a player by entering their name
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n = input("A9) Enter a name : ")
index = -1
for i in range(len(PlayerName)):
    if(n == PlayerName[i]):
        index = i
        break
if(index == -1):
    print(n, " not present in the list")
else:
        print("No. of years played :",(2023 - DebutYear[i]), end="\n\n")

# Q10) Print entire detail of the player just by the name
print(" A10) Entire detail of a player")
n = input(" Enter a name : ")
index = -1
for i in range(len(PlayerName)):
    if(n == PlayerName[i]):
        index = i
        break
if(index == -1):
    print(n, " not present in the list")
else:
```

```
            print("player name :",PlayerName[index])
            print("player sepcialization :",Specialization[index])
            print("player age:",age[index])
            print("Matches played by the player :",Matchesplayed[index])
            print("Player origin :",OriginCountry[index])
            print("Player Debut year :",DebutYear[index])
            print("Player salary:",Salary[index])
            print("Player runs:",runs[index])
            print("Player wicket:",wickets[index])
            print("Player strikerate:",Strikerate[index])
            print("Player economy rate:",Economy[index],end="\n\n")

# Merging all files into single file
MumbaiIndiansFile = open("MumbaiIndians.csv", "w")
MumbaiIndiansFile1 = csv.writer(MumbaiIndiansFile)
for i in range(len(PlayerList)):
    rowData = PlayerList[i] + PlayerData[i] + PlayerStat[i]
    MumbaiIndiansFile1.writerow(rowData)

# closing all the files
Playersfile.close()
Entryfile.close()
```

statsfile.close()

MumbaiIndiansFile.close()

```
import csv

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    PlayerNo.append(int(PlayerList[i][0]))              # storing player number
    PlayerName.append(PlayerList[i][1])                 # storing player name
    Specialization.append(PlayerList[i][2])             # storing player specialization

    age.append(PlayerData[i][0])                        # storing age of a player
    Matchesplayed.append(int(PlayerData[i][1]))         # storing matches played by the player
    OriginCountry.append(PlayerData[i][2])              # storing origin of a player
    DebutYear.append(int(PlayerData[i][3]))             # storing debut year of the player
```

```
    age.append(PlayerData[i][0])                        # storing age of a player
    Matchesplayed.append(int(PlayerData[i][1]))         # storing matches played by the player
    OriginCountry.append(PlayerData[i][2])              # storing origin of a player
    DebutYear.append(int(PlayerData[i][3]))             # storing debut year of the player

    Salary.append(int(PlayerStat[i][0]))                 # storing salary of the player
    runs.append(int(PlayerStat[i][1]))                   # storing runs scored by the player
    wickets.append(int(PlayerStat[i][2]))                # storing wickets taken by the player
    Strikerate.append(float(PlayerStat[i][3]))           # storing strike rate of the player
    Economy.append(PlayerStat[i][4])                     # storing economy rate of the player

# Q1) find the player name with maximum salary
print("A1) Player with maximum salary : ")
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print("Salary :",max(Salary), end="\n\n")

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print("A4) Indian batsman names are : ")
for i in range(len(OriginCountry)):
    if(OriginCountry[i]=='Indian' and Specialization[i]=='Batsman'):
        print(PlayerName[i], end="\n\n")

# Q5) find the year of debut of the batsman with the highest strike rate
print("A5) Debut Year of the batsman with highest strike rate is :" ,DebutYear[Strikerate.index(max(Strikerate))],end="\n\n")

# Q6) find the age of the bowler with the lowest economy rate
```

```
# Q10) Print entire detail of the player just by the name
print(" A10) Entire detail of a player")
n = input(" Enter a name : ")
index = -1
for i in range(len(PlayerName)):
    if(n == PlayerName[i]):
        index = i
        break
if(index == -1):
    print(n, " not present in the list")
else:
        print("player name :",PlayerName[index])
        print("player sepcialization :",Specialization[index])
        print("player age:",age[index])
        print("Matches played by the player :",Matchesplayed[index])
        print("Player origin :",OriginCountry[index])
        print("Player Debut year :",DebutYear[index])
        print("Player salary:",Salary[index])
        print("Player runs:",runs[index])
        print("Player wicket:",wickets[index])
        print("Player strikerate:",Strikerate[index])
        print("Player economy rate:",Economy[index],end="\n\n")



# Merging all files into single file
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for i in range(len(PlayerList)):
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    MumbaiIndiansFile1.writerow(rowData)


# closing all the files
Playersfile.close()
Entryfile.close()
statsfile.close()
MumbaiIndiansFile.close()
```

Output :

```
A1) Player with maximum salary :
Name : Cameron Green
Salary : 1750

A2) No. of players with minimum salary :  6

A3) Overseas Players Names are :
Dewald Brevis

Tristan Stubbs

Tim David

Jofra Archer

Cameron Green

Jason Behrendroff

Chris Jordan

A4) Indian batsman names are :
Suryakumar yadav

Tilak Verma

Ramandeep Singh

A5) Debut Year of the batsman with highest strike rate is : 2021

A6) Age of the bowler with the lowest economy rate is : 25

A7)The name of the player who has played the most matches is : Piyush Chawala
The name of the player who has played the least matches is: Tristan Stubbs

A8) No. of players with stirke rate above 120 : 9

A9) Enter a name : Suryakumar yadav
No. of years played : 11
```

```
A4) Indian batsman names are :
Suryakumar yadav

Tilak Verma

Ramandeep Singh

A5) Debut Year of the batsman with highest strike rate is : 2021

A6) Age of the bowler with the lowest economy rate is : 25

A7)The name of the player who has played the most matches is : Piyush Chawala
The name of the player who has played the least matches is: Tristan Stubbs

A8) No. of players with stirke rate above 120 : 9

A9) Enter a name : Suryakumar yadav
No. of years played : 11

 A10) Entire detail of a player
 Enter a name : Ishan Kishan
player name : Ishan Kishan
player sepcialization : Wicket keeper
player age: 25
Matches played by the player : 86
Player origin : Indian
Player Debut year : 2016
Player salary: 1525
Player runs: 2205
Player wicket: 0
Player strikerate: 133.8
Player economy rate:
```

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