

Assignment 2

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Dataset

IPL.csv

1 to 15 of 15 entries

Filter

No	Player	Team	Runs ▼	Mat.played	Balls.faced	Avg	High.Score	Strike.Rate	4s	6s	100s	50s
1	Shubman Gill	GT	851	16	544	60.79	129	156.43	78	33	3	4
2	Faf du Plessis	RCB	730	14	475	56.15	84	153.68	60	36	0	8
3	Virat Kohli	RCB	639	14	457	53.25	101	139.82	65	16	2	6
5	Devon Conway	CSK	625	15	456	52.08	92	137.06	73	16	0	6
4	Yashasvi Jaiswal	RR	625	14	382	48.08	124	163.61	82	26	1	5
6	Suryakumar Yadav	MI	605	16	334	43.21	103	181.14	65	28	1	5
7	Ruturaj Gaikwad	CSK	564	15	384	43.38	92	146.88	43	29	0	4
8	David Warner	DC	516	14	392	36.86	86	131.63	69	10	0	6
9	Rinku Singh	KKR	474	14	317	59.25	67	149.53	31	29	0	4
10	Ishan Kishan	MI	454	16	318	30.27	75	142.77	54	18	0	3
11	Cameron Green	MI	452	16	282	50.22	100	160.28	40	22	1	2
12	Heinrich Klaasen	SRH	448	12	253	49.78	104	177.08	32	25	1	2
13	Nitish Rana	KKR	413	14	293	31.77	75	140.96	39	20	0	3
14	Marcus Stoinis	LSG	408	15	272	31.38	89	150	28	27	0	3
15	Venkatesh Iyer	KKR	404	14	277	28.86	104	145.85	32	21	1	2

Show25 per page



```
player_team=[]  
player_runs=dict()  
mat_played=dict()  
balls_faced=dict()  
avg=dict()  
highest_score=dict()  
strike_rate=dict()  
fours=dict()  
sixes=dict()  
century=[]  
fiftys=dict()  
  
f=open("IPL.csv","r")  
data=f.readline()
```



```
while(True):

    data=f.readline()
    if not data:
        break;

    print(data)
    #data=data.replace("\n","")
    temp=data.split(",")
    player_team.append(temp[2])
    player_runs.update({temp[1]:temp[3]})
    mat_played.update({temp[1]:temp[4]})
    balls_faced.update({temp[1]:temp[5]})
    avg.update({temp[1]:temp[6]})
    highest_score.update({temp[1]:int(temp[7])})
    strike_rate.update({temp[1]:temp[8]})
    fours.update({temp[1]:temp[9]})
    sixes.update({temp[1]:temp[10]})
    century.append(int(temp[11]))
    fiftys.update({temp[1]:int(temp[12])})
```

```
player_team=tuple(player_team)
```

```
1,Shubman Gill,GT,851,16,544,60.79,129,156.43,78,33,3,4
2,Faf du Plessis,RCB,730,14,475,56.15,84,153.68,60,36,0,8
3,Virat Kohli,RCB,639,14,457,53.25,101,139.82,65,16,2,6
4,Yashasvi Jaiswal,RR,625,14,382,48.08,124,163.61,82,26,1,5
5,Devon Conway,CSK,625,15,456,52.08,92,137.06,73,16,0,6
6,Suryakumar Yadav,MI,605,16,334,43.21,103,181.14,65,28,1,5
7,Ruturaj Gaikwad,CSK,564,15,384,43.38,92,146.88,43,29,0,4
8,David Warner,DC,516,14,392,36.86,86,131.63,69,10,0,6
9,Rinku Singh,KKR,474,14,317,59.25,67,149.53,31,29,0,4
10,Ishan Kishan,MI,454,16,318,30.27,75,142.77,54,18,0,3
11,Cameron Green,MI,452,16,282,50.22,100,160.28,40,22,1,2
12,Heinrich Klaasen,SRH,448,12,253,49.78,104,177.08,32,25,1,2
13,Nitish Rana,KKR,413,14,293,31.77,75,140.96,39,20,0,3
14,Marcus Stoinis,LSG,408,15,272,31.38,89,150,28,27,0,3
15,Venkatesh Iyer,KKR,404,14,277,28.86,104,145.85,32,21,1,2
```

1) Which team has most no of player in List

```
print(player_team, "\n\n\n")

frequency = {}
for team in player_team:
    if team in frequency:
        frequency[team] += 1
    else:
        frequency[team] = 1
print(frequency)
marklist = sorted(frequency.items(), key=lambda x: x[1], reverse=True)
sortdict = dict(marklist)
print(sortdict)
print("\n\nTeam which have most batsmen in list is", list(sortdict.keys())[0], "with", list(sortdict.values())[0], "players")
```

{'GT': 1, 'RCB': 2, 'RR': 1, 'CSK': 2, 'MI': 3, 'DC': 1, 'KKR': 3, 'SRH': 1, 'LSG': 1}

{'MI': 3, 'KKR': 3, 'RCB': 2, 'CSK': 2, 'GT': 1, 'RR': 1, 'DC': 1, 'SRH': 1, 'LSG': 1}

Team which have most batsmen in list is MI with 3 players

2) which players scores more than 500 runs

2) which players scores more than 500 runs

```
print(player_runs)
print("\n\n\nPlayers with more than 500 matches are")
for player in player_runs:
    if player_runs[player] >= 500:
        print(player, "\t\t:", player_runs[player])
```

{'Shubman Gill': '851', 'Faf du Plessis': '730', 'Virat Kohli': '639', 'Yashasvi Jaiswal': '625', 'Devon Conway': '625', 'Suryakumar Yadav': '605', 'Ruturaj Gaikwad': '564', 'David Warner': '516'}

Players with more than 500 matches are

Shubman Gill	: 851
Faf du Plessis	: 730
Virat Kohli	: 639
Yashasvi Jaiswal	: 625
Devon Conway	: 625
Suryakumar Yadav	: 605
Ruturaj Gaikwad	: 564
David Warner	: 516

3) Who played most matches in this ipl

3) Who played most matches in this ipl

```
print(mat_played)
print("\n\n\nPlayers played most", max(mat_played.values()), "times are:", end=" ")

for player in mat_played:
    if mat_played[player] == max(mat_played.values()):
        print(player, end=" ")
```

{'Shubman Gill': '16', 'Faf du Plessis': '14', 'Virat Kohli': '14', 'Yashasvi Jaiswal': '14', 'Devon Conway': '15', 'Suryakumar Yadav': '16', 'Ruturaj Gaikwad': '14', 'David Warner': '14'}

Players played most 16 times are: Shubman Gill, Suryakumar Yadav, Ishan Kishan, Cameron Green,

4) Who Faced most balls in This ipl

4)Who Faced most balls in This ipl

```
print(balls_faced)

for player in balls_faced:
    if balls_faced[player]==max(balls_faced.values()):
        print("\n\n",player,end=" ")

print("faced most",max(balls_faced.values()),"balls in this ipl")
```

```
{'Shubman Gill': '544', 'Faf du Plessis': '475', 'Virat Kohli': '457', 'Yashasvi Jaiswal': '382', 'Devon Conway': '456', 'Suryakumar Ya
```

Shubman Gill faced most 544 balls in this ipl

5)which olayers had faced more than 400 balls

5)which olayers had faced more than 400 balls

```
print("\n\n\nPlayers who faced more than 400 balls are")
for player in balls_faced:
    if balls_faced[player]>="400":
        print(player,"\t\t:",balls_faced[player])
```



```
Players who faced more than 400 balls are
Shubman Gill          : 544
Faf du Plessis        : 475
Virat Kohli           : 457
Devon Conway          : 456
```

6)Which player has Best avg in this ipl

6)Which player has Best avg in this ipl

```
print(avg)

for player in avg:
    if avg[player]==max(avg.values()):
        print("\n\n\n",player,end=" ")

print("has best avg of",max(avg.values()),"in this ipl")
```

```
{'Shubman Gill': '60.79', 'Faf du Plessis': '56.15', 'Virat Kohli': '53.25', 'Yashasvi Jaiswal':
```

Shubman Gill has best avg of 60.79 in this ipl

7)Which players scored more than 100 in a single match

7) Which players scored more than 100 in a single match

```
print(highest_score)

print("\n\nPlayers who scored more than 100 in single match are")
for player in highest_score:
    if highest_score[player]>=100:
        print(player,"\t\t:",highest_score[player])
```

➤ {'Shubman Gill': 129, 'Faf du Plessis': 84, 'Virat Kohli': 101, 'Yashasvi Jaiswal': 124, 'Dev


```
Players who scored more than 100 in single match are
Shubman Gill          : 129
Virat Kohli           : 101
Yashasvi Jaiswal      : 124
Suryakumar Yadav      : 103
Cameron Green         : 100
Heinrich Klaasen       : 104
Venkatesh Iyer        : 104
```

8) Who has Highest strike rate in this ipl

8) Who has Highest strike rate in this ipl

```
print(strike_rate)

for player in strike_rate:
    if strike_rate[player]==max(strike_rate.values()):
        print("\n\n",player,end=" ")

print("has highest strike rate of",max(strike_rate.values()),"in this ipl")
```

➤ {'Shubman Gill': '156.43', 'Faf du Plessis': '153.68', 'Virat Kohli': '139.82', 'Yashasvi Jaiswal': '163.61',


```
Suryakumar Yadav has highest strike rate of 181.14 in this ipl
```


9)How many players have more than 50 fours in this ipl

9)How many players have more than 50 fours in this ipl

```
print(fours)
count = 0
for player in fours:
    if fours[player] > '50':
        print(player,"\t\t:",fours[player])
        count=count + 1

print("\n\nTotal",count,"players have more than 50 fours in ipl")
```

```
{'Shubman Gill': '78', 'Faf du Plessis': '60', 'Virat Kohli': '65', 'Yashasvi Jaiswal': '82', 'Devon Conway': '73', 'Suryakumar Yadav': '69', 'David Warner': '69', 'Ishan Kishan': '54'}
```

Total 8 players have more than 50 fours in ipl

10)Who have most no of sixes in this ipl

10)Who have most no of sixes in this ipl

```
print(sixes,"\n\n\n")

for player in sixes:
    if sixes[player]==max(sixes.values()):
        print(player,"have most no of",max(sixes.values()),"sixes in this ipl")
```

```
{'Shubman Gill': '33', 'Faf du Plessis': '36', 'Virat Kohli': '16', 'Yashasvi Jaiswal': '26', 'Devon Conway': '26', 'Suryakumar Yadav': '26', 'David Warner': '26', 'Ishan Kishan': '26'}
```

Faf du Plessis have most no of 36 sixes in this ipl

11)How many total century scored in this ipl

11)How many total century scored in this ipl

```
print(century)

print("\n\nTotal",sum(century),"century scored in this ipl")
```

```
[3, 0, 2, 1, 0, 1, 0, 0, 0, 0, 1, 1, 0, 0, 1]
```

Total 10 century scored in this ipl

12) How many players scored more than '5' Fiftys in this ipl

12) How many players scored more than '5' Fiftys in this ipl

```
print(fiftys)

count = 0
for player in fiftys:
    if fiftys[player] > 5:
        print(player, "\t\t:", fiftys[player])
        count = count + 1

print("\n\nTotal", count, "players have more than 5 fiftys in ipl")
```

```
{'Shubman Gill': 4, 'Faf du Plessis': 8, 'Virat Kohli': 6, 'Yashasvi Jaiswal': 5, 'Devon Conway': 6, 'David Warner': 6}
```

Total 4 players have more than 5 fiftys in ipl

Colab:

<https://colab.research.google.com/drive/1Tx5b2alctoyS0pxjdcMWxyjuh0q8EmHD?usp=sharing>

Data File:

<https://drive.google.com/file/d/1X12fm76REZkAsjOcf3Y5fk2Q5e8PTArY/view?usp=sharing>