

Assignment 2

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Dataset

IPL.csv X

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 |

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```
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>