

Assignment: 4

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```
import pandas as pd
import numpy as df

df = pd.DataFrame(data)
# Load the dataset
data = pd.read_csv('/content/dataset6.csv')
```

```
# Question 1: Who has the highest total runs?
import pandas as pd

data = {
    'Batsman': ['V Kohli', 'SK Raina', 'RG Sharma',
                'DA Warner', 'S Dhawan', 'CH Gayle', 'MS Dhoni', 'RV
Uthappa', 'AB de Villiers', 'G Gambhir', 'AM Rahane',
                'KD Karthik', 'SR Watson'],
    'Tot_Run': [5426, 5386, 4902, 4717, 4601, 4525,
4450, 4420, 4414, 4219, 3834, 3669, 3590]
}

df = pd.DataFrame(data)

highest_runs = df[df['Tot_Run'] ==
df['Tot_Run'].max()][['Batsman']].values[0]
print("Batsman with the highest total runs:",
highest_runs)
```

```
# Question 2: What is the average runs scored by S
Dhawan?
```

```
avg_runs_dhawan = data[data['Bastman'] == 'S
Dhawan']['Avg'].values[0]
print("Average runs scored by S Dhawan:",
avg_runs_dhawan)
```

```
# Question 3: How many players have a strike rate
above 140?
```

```
high_strike_rate_count = len(data[data['StrikeRate']
> 140])
print("Number of players with a strike rate above
140:", high_strike_rate_count)
```

```
# Question 4: What is the batting average of MS
Dhoni?
```

```
dhoni_avg = data[data['Bastman'] == 'MS
Dhoni']['Avg'].values[0]
print("Batting average of MS Dhoni:", dhoni_avg)
```

```
# Question 5: Who has the highest number of no-balls
faced?
```

```
most_no_balls = data[data['NO_Ball'] ==
data['NO_Ball'].max()]['Bastman'].values[0]
print("Player with the highest number of no-balls
faced:", most_no_balls)
```

```
# Question 6: Calculate the total runs scored by all
players.
```

```
total_runs = data['Tot_Run'].sum()
print("Total runs scored by all players:",
total_runs)
```

```
# Question 7: What is the average strike rate across
all players?
```

```
average_strike_rate = data['StrikeRate'].mean()
```

```
print("Average strike rate across all players:",  
      average_strike_rate)
```

```
# Question 8: How many players have an average above  
40?
```

```
high_avg_count = len(data[data['Avg'] > 40])  
print("Number of players with an average above 40:",  
      high_avg_count)
```

```
# Question 9: Calculate the total number of times  
players were dismissed.
```

```
total_dismissals = data['OUT'].sum()  
print("Total number of times players were  
dismissed:", total_dismissals)
```

```
# Question 10: What is the strike rate of AB de  
Villiers?
```

```
de_villiers_sr = data[data['Batsman'] == 'AB de  
Villiers']['StrikeRate'].values[0]  
print("Strike rate of AB de Villiers:",  
      de_villiers_sr)
```

Output:

1. Batsman with the highest total runs: V Kohli
2. Average runs scored by S Dhawan: 33.58394161
3. Number of players with a strike rate above 140: 3
4. Batting average of MS Dhoni: 37.71186441
5. Player with the highest number of no-balls faced:
V Kohli
6. Total runs scored by all players: 58153
7. Average strike rate across all players:
135.3876539
8. Number of players with an average above 40: 3
9. Total number of times players were dismissed:
1716

10. `Strike rate of AB de Villiers: 152.1019986`