

3. Find the total runs scored by each team separately.

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```
team_runs = df.groupby('Team_Innings')['Runs'].sum()
print(team_runs)
```

[15] ✓ 0.0s Python

Team_Innings	Runs
Afghanistan	1990
Australia	3303
Bangladesh	1944
England	2135
India	3038
Netherlands	1728
New Zealand	2712
Pakistan	2220
South Africa	3272
Sri Lanka	1942

Name: Runs, dtype: int64

4. Find the batsman who hit the most sixes.

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```

```
most_sixes = df[df['6s'] == df['6s'].max()]
print(most_sixes[['Batsman_Name', '6s']])
```

[16] ✓ 0.0s Python

Batsman_Name	6s
693 Fakhar Zaman	11

5. Find the batsman who played the most balls.

```
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```

```
most_balls = df[df['Balls'] == df['Balls'].max()]
print(most_balls[['Batsman_Name', 'Balls']])
```

[18] ✓ 0.0s Python

Batsman_Name	Balls
756 Ibrahim Zadran	143

6. Find the batsman who scored the highest runs.

```
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```

```
highest_runs = df[df['Runs'] == df['Runs'].max()]
print(highest_runs[['Batsman_Name', 'Runs']])
```

[19] ✓ 0.0s Python

Batsman_Name	Runs
767 Glenn Maxwell	201

7. What is the average (mean) number of balls faced by each batsman?

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```

```
average_balls = df['Balls'].mean()
print("Average Balls Faced:", average_balls)
```

[22] ✓ 0.0s Python

Average Balls Faced: 29.021834061135372

8. What is the total number of runs scored in the worldcup dataset?

```
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```

```
total_runs = df['Runs'].sum()
print("Total Runs:", total_runs)
```

[21] ✓ 0.0s Python

... Total Runs: 24284

9. Which batsman faced the most balls?

```
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```

```
most_balls = df['Balls'].max()
batsman_most_balls = df[df['Balls'] == most_balls]['Batsman_Name'].values[0]
print("Batsman Faced Most Balls:", batsman_most_balls)
```

[24] ✓ 0.0s Python

... Batsman Faced Most Balls: Ibrahim Zadran

10. What is the highest strike rate recorded and who achieved it?

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```

```
max_sr = df['Strike_Rate'].max()
batsman_max_sr = df[df['Strike_Rate'] == max_sr]['Batsman_Name'].values[0]
print("Highest Strike Rate:", max_sr, "by", batsman_max_sr)
```

[25] ✓ 0.0s Python

... Highest Strike Rate: 98.592 by Imam-ul-Haq

11. What is the total number of boundaries (4s + 6s) hit by all batsmen?

```
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```

```
total_boundaries = (df['4s'] + df['6s']).sum()
print("Total Boundaries:", total_boundaries)
```

[27] ✓ 0.0s Python

... Total Boundaries: 2987

12. What is the lowest number of runs scored by any batsman?

```
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```

```
min_runs = df['Runs'].min()
print("Lowest Runs by Any Batsman:", min_runs)
```

[29] ✓ 0.0s Python

... Lowest Runs by Any Batsman: 0

13. How many times did a batsman get out caught (look for 'c' in Dismissal)?

```
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caught_count = df['Dismissal'].str.contains('c ').sum()
print("Caught Dismissals:", caught_count)
```

[30] ✓ 0.0s Python

... Caught Dismissals: 484

14. List all batsmen who hit at least one six.

```
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batsmen_with_six = df[df['6s'] > 0][['Batsman_Name']].unique()
print("Batsmen with at least one 6:", batsmen_with_six)
```

[31] ✓ 0.0s Python

... Batsmen with at least one 6: ['Jonny Bairstow' 'Joe Root' 'Harry Brook' 'Jos Buttler' 'Adil Rashid' 'Devon Conway' 'Rachin Ravindra' 'Saud Shakeel' 'Shadab Khan' 'Haris Rauf' 'Vikramjit Singh' 'Bas de Leede' 'Logan van Beek' 'Rahmanullah Gurbaz' 'Ibrahim Zadran' 'Najmul Hossain Shanto' 'Quinton de Kock' 'Rassie van der Dussen' 'Aiden Markram' 'Heinrich Klaasen' 'David Miller' 'Marco Jansen' 'Kusal Mendis' 'Sadeera Samarawickrama' 'Charith Asalanka' 'Dasun Shanaka' 'Kasun Rajitha' 'Pat Cummins' 'Mitchell Starc' 'KL Rahul' 'Hardik Pandya' 'Will Young' 'Daryl Mitchell' 'Tom Latham' 'Mitchell Santner' 'Matt Henry' 'Teja Nidamanuru' 'Scott Edwards' 'Aryan Dutt' 'Dawid Malan' 'Litton Das' 'Taskin Ahmed' 'Pathum Nissanka' 'Abdullah Shafique' 'Mohammad Rizwan' 'Hashmatullah Shahidi' 'Azmatullah Omarzai' 'Rashid Khan' 'Rohit Sharma' 'Ishan Kishan' 'Shreyas Iyer' 'Kagiso Rabada' 'Travis Head' 'David Warner' 'Shakib Al Hasan' 'Mushfiqur Rahim' 'Mahmudullah' 'Kane Williamson' 'Glenn Phillips' 'Ikram Alikhil' 'Mujeeb Ur Rahman' 'Josh Inglis' 'Glenn Maxwell' 'Marcus Stoinis' 'Sybrand Engelbrecht' 'Roelof van der Merwe' 'Tamba Bavuma' 'Gerald Coetzee' 'Keshav Maharaj' 'Mark Chapman' 'Tanzid Hasan' 'Shoriful Islam' 'Shubman Gill' 'Virat Kohli' 'Mitchell Marsh' 'Iftikhar Ahmed' 'Mohammad Nawaz' 'Max O'Dowd' 'Dhananjaya de Silva' 'Reeza Hendricks' 'David Willey' 'Mark Wood' 'Ravindra Jadeja' 'Babar Azam' 'Rahmat Shah' 'Steve Smith' 'Marnus Labuschagne' 'Mohammad Wasim Jr' 'Jimmy Neesham' 'Trent Boult' 'Mehidy Hasan Miraz' 'Mustafizur Rahman' 'Suryakumar Yadav' 'Angelo Mathews' 'Maheesh Theekshana' 'Towhid Hridoy' 'Fakhar Zaman' 'Ben Stokes' 'Chris Woakes' 'Mohammad Nabi' 'Wesley Barresi' 'Kusal Janith Perera' 'Andile Phehlukwayo' 'Moeen Ali' 'Agha Salman' 'Shaheen Afridi' 'Lockie Ferguson']

15. How many entries are there for batting position 3?

```
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pos3_count = df[df['Batting_Position'] == 3].shape[0]
print("Entries for Batting Position 3:", pos3_count)
```

[32] ✓ 0.0s Python

... Entries for Batting Position 3: 100

16. What is the average runs scored by batsmen at batting position 1?

```
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avg_runs_pos1 = df[df['Batting_Position'] == 1]['Runs'].mean()
print("Average Runs at Position 1:", avg_runs_pos1)
```

[33] ✓ 0.0s Python

... Average Runs at Position 1: 36.84

17. How many times did a batsman get dismissed as 'bowled'?

```
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bowled_count = df['Dismissal'].str.contains('b ').sum()
print("Bowled Dismissals:", bowled_count)
```

[35] ✓ 0.0s Python

... Bowled Dismissals: 724

18. How many balls did "Jonny Bairstow" face?

```
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jonny_balls = df[df['Batsman_Name'] == 'Jonny Bairstow']['Balls']
print(jonny_balls)
```

[36] ✓ 0.0s Python

... 0 35
108 59
283 4
416 12
497 31
588 23
706 1
771 17
844 61
Name: Balls, dtype: int64

19. Show all batsmen who scored more than 50 runs.

```
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above_50 = df[df['Runs'] > 50]
print(above_50[['Batsman_Name', 'Runs']])
```

[38] ✓ 0.0s Python

... Batsman_Name Runs
2 Joe Root 77
11 Devon Conway 152
13 Rachin Ravindra 123
17 Mohammad Rizwan 68
18 Saud Shakeel 68
.. ...
891 Daryl Mitchell 134
901 Virat Kohli 54
903 KL Rahul 66
911 Travis Head 137
914 Marnus Labuschagne 58

[160 rows x 2 columns]

20. Find which batting position scored the maximum runs.

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```
best_position = df.groupby('Batting_Position')['Runs'].sum().idxmax()  
print("Best Batting Position:", best_position)
```

[39]

✓ 0.0s

Python

... Best Batting Position: 3

THANK YOU