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RAMDisk

Find the player with the highest total runs.

[1] import pandas as pd  
ipl = pd.read\_csv('/content/drive/MyDrive/ipl\_dataset\_300.csv')  
ipl.groupby('Player Name')['Runs'].sum().idxmax()

'Rishabh Pant'

Calculate the average strike rate of all players

ipl['Strike Rate'].mean()

np.float64(421.97696666666667)

List players who have hit more than 10 sixes across all matches

[3] ipl.groupby('Player Name')['Sixes'].sum().loc[lambda x: x > 10]

	Sixes
Player Name	
Andre Russell	87

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List players who have hit more than 10 sixes across all matches

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ipl.groupby('Player Name')['Sixes'].sum().loc[lambda x: x > 10]

Player Name

Sixes

Andre Russell	87
Ben Stokes	67
David Warner	71
Faf du Plessis	57
Hardik Pandya	67
Jasprit Bumrah	128
Jos Buttler	84
KL Rahul	64
Kagiso Rabada	59
MS Dhoni	49
Pat Cummins	75
Ravindra Jadeja	77
Rishabh Pant	136

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Find the match where the maximum number of sixes were hit

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[10] ipl.loc[ipl['Sixes'].idxmax()]

23

Player Name	MS Dhoni
Team	RR
Runs	118
Balls Faced	51
Fours	8
Sixes	19
Strike Rate	231.37
Wickets	1
Overs Bowled	2.0
Economy Rate	6.42
Match Date	13-10-2024

dtype: object

Calculate total wickets taken by each team

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List players who scored more than 1000 total runs

[9] ipl.groupby('Player Name')['Runs'].sum().loc[lambda x: x > 1000]

Runs

Player Name	
Hardik Pandya	1057
Jasprit Bumrah	1235
Pat Cummins	1026
Rishabh Pant	1400
Rohit Sharma	1081
Shubman Gill	1135
Virat Kohli	1081

dtype: int64

Find the match where the maximum number of sixes were hit

[10] ipl.loc[ipl['Sixes'].idxmax()]

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[6] ipl['Team'].value\_counts().idxmax()

'SRH'

Calculate the average number of sixes per match

[7] ipl['Sixes'].mean()

np.float64(5.1066666666666665)

Find the bowler with the most number of wickets.

[8] ipl.groupby('Player Name')['Wickets'].sum().idxmax()

'Virat Kohli'

List players who scored more than 1000 total runs

[9] ipl.groupby('Player Name')['Runs'].sum().loc[lamba x: x > 1000]

Runs

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dtype: int64

Find the team with the maximum wickets taken

[4] ipl.groupby('Team')['Wickets'].sum().idxmax()

'LSG'

Identify matches where a player scored more than 50 runs in less than 30 balls

Start coding or generate with AI.


[5] ipl[(ipl['Runs'] > 50) & (ipl['Balls Faced'] < 30)]

	Player Name	Team	Runs	Balls Faced	Fours	Sixes	Strike Rate	Wickets	Overs Bowled	Economy Rate	Match Date
1	Virat Kohli	DC	77	21	11	4	366.67	1	1.5	9.86	28-06-2024
3	David Warner	GT	95	29	3	3	327.59	2	2.0	4.26	28-10-2024
7	Ben Stokes	RCB	104	19	19	11	547.37	4	3.1	11.96	17-10-2023
17	Sunil Narine	LSG	56	9	3	7	622.22	2	2.8	10.10	02-05-2024
20	Rohit Sharma	LSG	61	14	9	10	435.71	3	0.8	7.44	01-07-2023
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Calculate total wickets taken by each team

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```
ipl.groupby('Team')['Wickets'].sum()
```

Wickets

Team	
CSK	49
DC	88
GT	79
KKR	68
LSG	107
MI	72
PBKS	43
RCB	80
RR	73
SRH	102

dtype: int64

Find players who scored a centurv (>=100 runs) in a match.

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Find players who scored a century ( $\geq 100$  runs) in a match.

```
ipl[ipl['Runs'] >= 100][['Player Name', 'Runs']]
```

133	Shubman Gill	114
158	Sunil Narine	109
159	David Warner	104
162	Rishabh Pant	118
164	Rohit Sharma	107
178	KL Rahul	105
182	Faf du Plessis	114
184	Sanju Samson	103
188	Hardik Pandya	103
198	Virat Kohli	112
199	Rishabh Pant	115
212	Pat Cummins	100
213	Hardik Pandya	111
215	Jos Buttler	112
219	Shubman Gill	115
220	Shubman Gill	108

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Find average runs scored by each player.

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ipl.groupby('Player Name')['Runs'].mean()

↕

Player Name	Runs
Andre Russell	68.000000
Ben Stokes	49.928571
David Warner	66.363636
Faf du Plessis	55.181818
Hardik Pandya	55.631579
Jasprit Bumrah	68.611111
Jos Buttler	68.615385
KL Rahul	60.692308
Kagiso Rabada	51.307692
MS Dhoni	66.200000
Pat Cummins	57.000000
Ravindra Jadeja	64.200000
Rishabh Pant	70.000000

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ipl.loc[ipl['Runs'].idxmax()]

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Player Name	Sunil Narine
Team	RCB
Runs	119
Balls Faced	54
Fours	1
Sixes	7
Strike Rate	220.37
Wickets	1
Overs Bowled	1.4

Double-click (or enter) to edit

Find the match where the maximum number of runs were scored.

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Calculate how many matches had a player hitting more than 5 sixes.

[18] (ipl['Sixes'] > 5).sum()

np.int64(116)

Find the top 5 players with most number of fours.

ipl.groupby('Player Name')['Fours'].sum().sort\_values(ascending=False).head(5)

Player Name	Fours
Rishabh Pant	225
Ravindra Jadeja	161
Jasprit Bumrah	157
Shubman Gill	144
Pat Cummins	140

dtype: int64

Find out players who had a strike rate above 150

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Find out players who had a strike rate above 150

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ipl[ipl['Strike Rate'] > 150][['Player Name', 'Strike Rate']]

dtype: int64

	Player Name	Strike Rate
1	Virat Kohli	366.67
3	David Warner	327.59
4	Pat Cummins	337.50
7	Ben Stokes	547.37
9	Virat Kohli	223.08
...	...	...
294	Shikhar Dhawan	200.00
295	Jasprit Bumrah	1683.33
297	KL Rahul	151.72
298	Ravindra Jadeja	337.14
299	Sunil Narine	171.79

159 rows × 2 columns

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Find the total number of ducks (zero runs scored)

```
[21] (ipl['Runs'] == 0).sum()
```

```
np.int64(2)
```