

NAME - Prathamesh suryawanshi

ROLL NO - 162

PRN- 202201090007

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import pandas as pd
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data = pd.read_csv('/content/dataset7 (1).csv')
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data = data.fillna(0)
data = data.dropna()
```

```
# a. Find the team that won the most matches in their home city
team_with_most_home_wins = data[data['home_wins'] == data['home_wins'].max()][ 'team'].values[0]
print("Team with the most home wins:", team_with_most_home_wins)
```

Team with the most home wins: Mumbai Indians

```
# b. Find the average matches of away_win matches for all teams
average_away_wins = data['away_wins'].mean()
print("Average away wins for all teams:", average_away_wins)
```

Average away wins for all teams: 29.428571428571427

```
# c. Find the team that played the maximum number of home matches
team_with_max_home_matches = data[data['home_matches'] == data['home_matches'].max()][ 'team'].values[0]
print("Team with the maximum home matches:", team_with_max_home_matches)
```

Team with the maximum home matches: Mumbai Indians

```
#d. Find the team with the minimum home win matches in percentage
team_with_min_home_win_percentage = data[data['home_win_percentage'] == data['home_win_percentage'].min()][ 'team'].values[0]
print("Team with the minimum home win matches in percentage:", team_with_min_home_win_percentage)
```

Team with the minimum home win matches in percentage: Gujarat Lions

```
# f. Find all IPL teams whose "away_win_percentage" is greater than 50%
teams_with_high_away_win_percentage = data[data['away_win_percentage'] > 50][ 'team'].values
print("Teams with an away win percentage greater than 50%:", teams_with_high_away_win_percentage)
```

Teams with an away win percentage greater than 50%: ['Rising Pune Supergiant' 'Mumbai Indians' 'Chennai Super Kings' 'Delhi Capitals' 'Sunrisers Hyderabad' 'Rajasthan Royals' 'Kings XI Punjab' 'Royal Challengers Bangalore' 'Kolkata Knight Riders' 'Kochi Tuskers Kerala' 'Gujarat Lions']

```
# g. Find the team whose "home_wins" matches are greater than 30
team_with_more_than_30_home_wins = data[data['home_wins'] > 30][ 'team'].values
print("Team with more than 30 home wins:", team_with_more_than_30_home_wins)
```

Team with more than 30 home wins: ['Mumbai Indians' 'Chennai Super Kings' 'Kings XI Punjab' 'Royal Challengers Bangalore' 'Kolkata Knight Riders']

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