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**RollNO: 712**

**Div : G1**

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```

import pandas as pd

data = {
    'team': ['Rising Pune Supergiant', 'Mumbai Indians', 'Chennai Super Kings', 'Delhi Capitals', 'Sunrisers
            'Rajasthan Royals', 'Deccan Chargers', 'Kings XI Punjab', 'Royal Challengers Bangalore', 'Kolkata
            'Delhi Daredevils', 'Pune Warriors', 'Kochi Tuskers Kerala', 'Gujarat Lions'],
    'home_wins': [5, 58, 51, 3, 30, 29, 18, 38, 35, 34, 25, 6, 2, 1],
    'away_wins': [5, 51, 49, 7, 28, 46, 11, 44, 49, 58, 42, 6, 4, 12],
    'home_matches': [8, 101, 89, 6, 63, 67, 43, 91, 85, 83, 72, 20, 7, 14],
    'away_matches': [8, 86, 75, 10, 45, 80, 32, 85, 95, 95, 89, 26, 7, 16],
    'home_win_percentage': [62.5, 57.42574257, 57.30337079, 50, 47.61904762, 43.28358209, 41.86046512, 41.758
                           41.17647059, 40.96385542, 34.72222222, 30, 28.57142857, 7.142857143],
    'away_win_percentage': [62.5, 59.30232558, 65.33333333, 70, 62.22222222, 57.5, 34.375, 51.76470588, 51.57
                           61.05263158, 47.19101124, 23.07692308, 57.14285714, 75]
}

df = pd.DataFrame(data)

team_with_highest_home_win_percentage = df.loc[df['home_win_percentage'].idxmax()]['team']
print(team_with_highest_home_win_percentage)

Rising Pune Supergiant

team_with_highest_away_win_percentage = df.loc[df['away_win_percentage'].idxmax()]['team']
print(team_with_highest_away_win_percentage)

Gujarat Lions

home_matches_mumbai_indians = df.loc[df['team'] == 'Mumbai Indians']['home_matches'].values[0]
print(home_matches_mumbai_indians)

101

overall_win_percentage_delhi_daredevils = (df.loc[df['team'] == 'Delhi Daredevils']['home_wins'].values[0] +
                                           df.loc[df['team'] == 'Delhi Daredevils']['away_wins'].values[0]) /
                                           (df.loc[df['team'] == 'Delhi Daredevils']['home_matches'].values[0] +
                                           df.loc[df['team'] == 'Delhi Daredevils']['away_matches'].values[0])
print(overall_win_percentage_delhi_daredevils)

41.61490683229814

team_with_most_away_wins = df.loc[df['away_wins'].idxmax()]['team']
print(team_with_most_away_wins)

Kolkata Knight Riders

home_win_percentage_rising_pune_supergiant = df.loc[df['team'] == 'Rising Pune Supergiant']['home_win_percent
print(home_win_percentage_rising_pune_supergiant)

62.5

away_matches_sunrisers_hyderabad = df.loc[df['team'] == 'Sunrisers Hyderabad']['away_matches'].values[0]
print(away_matches_sunrisers_hyderabad)

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```
df['total_wins'] = df['home_wins'] + df['away_wins']  
team_with_highest_total_wins = df.loc[df['total_wins'].idxmax()]['team']  
print(team_with_highest_total_wins)
```

Mumbai Indians

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average_win_percentage = df['home_win_percentage'].mean()  
print(average_win_percentage)
```

41.737663135214284

```
team_with_lowest_away_win_percentage = df.loc[df['away_win_percentage'].idxmin()]['team']  
print(team_with_lowest_away_win_percentage)
```

Pune Warriors

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