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import pandas as pd

df = pd.read_csv('dataset1_assign_1.csv')
print(df)

#Find the country who has won the most Asia Cup
most_wins = df['Winner'].value_counts().idxmax()

#Find the country who Host most Asia Cup tournaments
most_hosts = df['Host'].value_counts().idxmax()

#Find the country who has the runner-up in 1988, 2004, and 2016
runner_up_1988 = df.loc[df['Year'] == 1988, 'Runner up'].values[0]
runner_up_2004 = df.loc[df['Year'] == 2004, 'Runner up'].values[0]
runner_up_2016 = df.loc[df['Year'] == 2016, 'Runner up'].values[0]

#Find the different formats of Asia Cup
formats = df['Format'].unique()

#Clean the dataset if record is empty with 0 values or delete incomplete data row
df.fillna(0, inplace=True)
df.dropna(inplace=True)

#Find all the years of Asia Cup won by India
india_wins = df.loc[df['Winner'] == 'India', 'Year'].values

#Find the final match hosted by 'Bangladesh'
final_match_bangladesh = df.loc[df['Final Venue'].str.contains('Dhaka'),
'Year'].values[-1]

#Print the results
print("a. Country with the most Asia Cup wins:", most_wins)
print("b. Country that hosted the most Asia Cup tournaments:", most_hosts)
print("c. Runner-up countries in 1988, 2004, and 2016:", runner_up_1988,
runner_up_2004, runner_up_2016)
print("d. Different formats of Asia Cup:", formats)
print("f. Years of Asia Cup won by India:", india_wins)
print("g. Final match hosted by Bangladesh:", final_match_bangladesh)

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	Year	Format	Host	Final Venue	Winner	Margin	Runner up
0	1984	ODI	UAE	Sharjah	India	54 runs	Pakistan
1	1986	ODI	Sri Lanka	Colombo (SSC)	Sri Lanka	5 wickets	Pakistan
2	1988	ODI	Bangladesh	Dhaka	India	6 wickets	Sri Lanka
3	1991	ODI	India	Kolkata	India	7 wickets	Sri Lanka
4	1995	T20I	UAE	Sharjah	India	8 wickets	Sri Lanka
5	1997	ODI	Sri Lanka	Colombo (RPS)	Sri Lanka	8 wickets	India
6	2000	ODI	Bangladesh	Dhaka	Pakistan	39 runs	Sri Lanka
7	2004	ODI	Sri Lanka	Colombo (RPS)	Sri Lanka	25 runs	India
8	2008	T20I	Pakistan	Karachi	Sri Lanka	100 runs	India
9	2010	ODI	Sri Lanka	Dambulla	India	81 runs	Sri Lanka
10	2012	ODI	Bangladesh	Mirpur	Pakistan	2 runs	Bangladesh
11	2014	ODI	Bangladesh	Mirpur	Sri Lanka	5 wickets	Pakistan
12	2016	T20I	Bangladesh	Mirpur	India	8 wickets	Bangladesh

a. Country with the most Asia Cup wins: India

b. Country that hosted the most Asia Cup tournaments: Bangladesh

c. Runner-up countries in 1988, 2004, and 2016: Sri Lanka India Bangladesh

d. Different formats of Asia Cup: ['ODI' 'T20I']

f. Years of Asia Cup won by India: [1984 1988 1991 1995 2010 2016]

g. Final match hosted by Bangladesh: 2000

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