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405
D1

CODE:

import pandas as pd

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

Output:

| | 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 |

Code:

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

```python
#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)
```

OUTPUT:

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