

# EDS PANDAS ACTIVITY

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3) Find the statistical Analysis of World Cup Winner dataset (Refer Data Set 3)

- a. Find the country who has won the least world Cup
- b. Find the venue played most world cup matches
- c. Who is the two finalist played in 1983
- d. Find the total number of world cup matched played
- e. Clean the dataset if record is empty with 0 values or delete incomplete data row
- f. Find the final match hosted by "England"
- g. Find the all the 'Years' Hosted by England in world cup

Code :

1)Find the country who has won the least world Cup

Input:

```
import pandas as pd
data=pd.read_csv('dataset3.csv')
least_wins = data['Winner'].value_counts().idxmin()
print("Country with the least World Cup wins:", least_wins)
```

Output :

Country with the least World Cup wins: Ind

2)Find the venue played most World Cup matches

Input :

```
import pandas as pd
data=pd.read_csv('dataset3.csv')
most_played_venue = data['Venue'].value_counts().idxmax()
print("Venue with the most World Cup matches played:", most_played_venue)
```

Output :

Venue with the most World Cup matches played: Lord's

3) Who are the two finalists played in 1983

Input :

```
import pandas as pd
data=pd.read_csv('dataset3.csv')
finalists_1983 = data[data['Year'] == 1983][['Final Team-1', 'Final Team-2']]
print("Two finalists played in 1983:", finalists_1983)
```

Output :

Two finalists played in 1983:

	Final Team-1	Final Team-2
2	Ind	WI

4) Find the total number of World Cup matches played

Input :

```
import pandas as pd
data=pd.read_csv('dataset3.csv')
total_matches = data.shape[0]
print("Total number of World Cup matches played:", total_matches)
```

Output :

Total number of World Cup matches played: 12

5) Clean the dataset by replacing empty values with 0 or deleting incomplete rows

Input :

```
import pandas as pd
data=pd.read_csv('dataset3.csv')
data.fillna(0, inplace=True)
print("Cleaned dataset:")
```

Output :

Cleaned dataset:

Year	Host	Venue	Final Team-1	Final Team-2	Winner	Margin
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0	1975	England	Lord's	WI	Aus	Aus	17 runs
1	1979	England	Lord's	WI	Eng	Eng	92 runs
2	1983	England	Lord's	Ind	WI	Ind	43 runs
3	1987	India	Kolkata	Aus	Ind	Aus	7 runs
4	1992	Australia, New Zealand	Melbourne		Pak	Eng	Pak 22 runs
5	1996	India, Pakistan, Sri Lanka	Lahore (Gdffi)		Aus	SL	SL 7 wickets
6	1999	England	Lord's	Pak	Aus	Aus	8 wickets
7	2003	South Africa	Wanderers	Aus		Aus	Aus 125 runs
8	2007	West Indies	Bridgetown	Aus		Aus	Aus 53 runs
9	2011	India, Pakistan, Sri Lanka, Bangladesh	Wankhede		SL	Ind	Ind 6 wickets
10	2015	Australia, New Zealand	Melbourne		NZ	Aus	Aus 7 wickets
11	2019	India, Pakistan, Sri Lanka	Lahore (Gdffi)		Aus	SL	SL 7 wickets

6) Find the final match hosted by 'England'

Input :

```
import pandas as pd
data=pd.read_csv('dataset3.csv')
final_match_england = data[data['Host'] == 'England'].tail(1)
print(data)
print("Final match hosted by England:")
```

Output :

Final match hosted by England:

	Year	Host	Venue	Final Team-1	Final Team-2	Winner	Margin
6	1999	England	Lord's	Pak	Aus	Aus	8 wickets

7)Find all the years hosted by England in the World Cup

Input :

```
import pandas as pd
data=pd.read_csv('dataset3.csv')
years_hosted_by_england = data[data['Host'] == 'England']['Year'].unique()
print("Years hosted by England in the World Cup:", years_hosted_by_england)
```

Output :

Years hosted by England in the World Cup: [1975 1979 1983 1999]