## fifa2

### July 16, 2024

```
[1]: import pandas as pd
     import numpy as np
     import datetime
[8]: d1_matches=pd.read_csv(r"C:\Users\thala\Downloads\FIFA WC data\\WorldCupMatches.
      ⇔csv")
     d2_players=pd.read_csv(r"C:\Users\thala\Downloads\FIFA WC data\WorldCupPlayers.
      ⇔csv")
     d3_cups=pd.read_csv(r"C:\Users\thala\Downloads\FIFA WC data\WorldCups.csv")
[9]: d1_matches.head()
[9]:
          Year
                            Datetime
                                         Stage
                                                       Stadium
                                                                        City \
      1930.0 13 Jul 1930 - 15:00
                                       Group 1
                                                       Pocitos
                                                                Montevideo
     1 1930.0
               13 Jul 1930 - 15:00
                                       Group 4
                                                Parque Central
                                                                Montevideo
     2 1930.0 14 Jul 1930 - 12:45
                                       Group 2
                                                Parque Central
                                                                 Montevideo
     3 1930.0 14 Jul 1930 - 14:50
                                       Group 3
                                                       Pocitos
                                                                Montevideo
     4 1930.0 15 Jul 1930 - 16:00
                                       Group 1 Parque Central
                                                                Montevideo
       Home Team Name
                       Home Team Goals
                                         Away Team Goals Away Team Name
     0
               France
                                    4.0
                                                     1.0
                                                                  Mexico
     1
                  USA
                                    3.0
                                                     0.0
                                                                 Belgium
     2
           Yugoslavia
                                    2.0
                                                     1.0
                                                                  Brazil
     3
                                    3.0
                                                     1.0
                                                                    Peru
              Romania
     4
            Argentina
                                    1.0
                                                     0.0
                                                                  France
       Win conditions Attendance
                                   Half-time Home Goals
                                                          Half-time Away Goals
     0
                           4444.0
                                                     3.0
                                                                            0.0
     1
                          18346.0
                                                     2.0
                                                                            0.0
     2
                          24059.0
                                                     2.0
                                                                            0.0
     3
                           2549.0
                                                     1.0
                                                                            0.0
     4
                          23409.0
                                                     0.0
                                                                            0.0
                       Referee
                                              Assistant 1
       LOMBARDI Domingo (URU)
     0
                                    CRISTOPHE Henry (BEL)
     1
             MACIAS Jose (ARG)
                                MATEUCCI Francisco (URU)
     2
           TEJADA Anibal (URU)
                                  VALLARINO Ricardo (URU)
     3
         WARNKEN Alberto (CHI)
                                      LANGENUS Jean (BEL)
```

```
4
            REGO Gilberto (BRA)
                                        SAUCEDO Ulises (BOL)
                          Assistant 2
                                       RoundID
                                                 MatchID Home Team Initials \
      0
                 REGO Gilberto (BRA)
                                          201.0
                                                   1096.0
                                                                           FRA
      1
               WARNKEN Alberto (CHI)
                                          201.0
                                                   1090.0
                                                                           USA
      2
                 BALWAY Thomas (FRA)
                                          201.0
                                                                           YUG
                                                   1093.0
      3
           MATEUCCI Francisco (URU)
                                          201.0
                                                   1098.0
                                                                           ROU
         RADULESCU Constantin (ROU)
                                                                           ARG
                                          201.0
                                                   1085.0
        Away Team Initials
      0
                        MEX
      1
                        BEL
      2
                        BRA
                        PER.
      3
      4
                        FRA
[10]:
     d2_players.head()
[10]:
         RoundID
                   MatchID Team Initials
                                                      Coach Name Line-up
                                                                            Shirt Number
      0
              201
                      1096
                                       FR.A
                                            CAUDRON Raoul (FRA)
                                                                        S
                                                                                        0
      1
              201
                      1096
                                               LUQUE Juan (MEX)
                                                                        S
                                                                                        0
                                       MEX
      2
              201
                      1096
                                       FRA
                                            CAUDRON Raoul (FRA)
                                                                        S
                                                                                        0
      3
              201
                                                                         S
                                                                                        0
                      1096
                                       MEX
                                               LUQUE Juan (MEX)
      4
              201
                      1096
                                       FRA
                                            CAUDRON Raoul (FRA)
                                                                         S
                                                                                        0
               Player Name Position Event
      0
               Alex THEPOT
                                  GK
                                        NaN
      1
          Oscar BONFIGLIO
                                  GK
                                        NaN
      2
         Marcel LANGILLER
                                 NaN
                                       G40'
      3
              Juan CARRENO
                                       G70'
                                 NaN
      4
          Ernest LIBERATI
                                 NaN
                                        NaN
[11]: d3_cups.head()
[11]:
         Year
                    Country
                                  Winner
                                               Runners-Up
                                                               Third
                                                                           Fourth \
         1930
                    Uruguay
                                 Uruguay
                                                 Argentina
                                                                 USA
                                                                      Yugoslavia
         1934
      1
                      Italy
                                    Italy
                                           Czechoslovakia
                                                            Germany
                                                                          Austria
      2
         1938
                     France
                                    Italy
                                                   Hungary
                                                              Brazil
                                                                           Sweden
      3
         1950
                     Brazil
                                 Uruguay
                                                    Brazil
                                                              Sweden
                                                                            Spain
         1954
                Switzerland
                              Germany FR
                                                   Hungary
                                                            Austria
                                                                          Uruguay
         GoalsScored
                       QualifiedTeams
                                         MatchesPlayed Attendance
      0
                   70
                                     13
                                                     18
                                                           590.549
      1
                   70
                                     16
                                                     17
                                                           363.000
      2
                   84
                                     15
                                                     18
                                                           375.700
      3
                   88
                                     13
                                                     22
                                                         1.045.246
      4
                  140
                                     16
                                                     26
                                                           768.607
```

```
[12]: d1_matches = d1_matches.replace('Germany FR', 'Germany')
      d2_players= d2_players.replace('Germany FR', 'Germany')
      d3_cups = d3_cups.replace('Germany FR', 'Germany')
[13]: d1_matches.describe()
[13]:
                           Home Team Goals
                                             Away Team Goals
                                                                   Attendance
                     Year
                                 852.000000
              852.000000
                                                   852.000000
                                                                   850.000000
      count
                                                                45164.800000
      mean
             1985.089202
                                   1.811033
                                                     1.022300
                                                     1.087573
                                                                23485.249247
      std
               22.448825
                                   1.610255
      min
             1930.000000
                                   0.000000
                                                     0.00000
                                                                 2000.000000
      25%
             1970.000000
                                   1.000000
                                                     0.000000
                                                                30000.000000
      50%
             1990.000000
                                   2.000000
                                                     1.000000
                                                                41579.500000
      75%
             2002.000000
                                   3.000000
                                                     2.000000
                                                                61374.500000
             2014.000000
                                  10.000000
                                                     7.000000
                                                               173850.000000
      max
             Half-time Home Goals
                                     Half-time Away Goals
                                                                  RoundID
                                                                                MatchID
                        852.000000
                                               852.000000
                                                                           8.520000e+02
      count
                                                            8.520000e+02
                          0.708920
                                                  0.428404
                                                            1.066177e+07
                                                                           6.134687e+07
      mean
      std
                          0.937414
                                                  0.691252
                                                            2.729613e+07
                                                                           1.110572e+08
      min
                          0.000000
                                                  0.000000
                                                            2.010000e+02
                                                                           2.500000e+01
      25%
                          0.00000
                                                  0.000000
                                                            2.620000e+02
                                                                           1.188750e+03
      50%
                                                            3.370000e+02
                                                                           2.191000e+03
                          0.000000
                                                  0.000000
      75%
                          1.000000
                                                  1.000000
                                                            2.497220e+05
                                                                           4.395006e+07
                                                  5.000000
                                                            9.741060e+07
                                                                           3.001865e+08
      max
                          6.000000
[14]:
      d2_players.describe()
[14]:
                   RoundID
                                  MatchID
                                           Shirt Number
             3.778400e+04
                            3.778400e+04
                                           37784.000000
      count
             1.105647e+07
      mean
                            6.362233e+07
                                              10.726022
             2.770144e+07
                            1.123916e+08
      std
                                               6.960138
      min
             2.010000e+02
                            2.500000e+01
                                               0.000000
      25%
             2.630000e+02
                            1.199000e+03
                                               5.000000
      50%
             3.370000e+02
                            2.216000e+03
                                              11.000000
      75%
             2.559310e+05
                            9.741000e+07
                                              17.000000
             9.741060e+07
                            3.001865e+08
      max
                                              23.000000
[15]:
      d3_cups.describe()
[15]:
                     Year
                           GoalsScored
                                         QualifiedTeams
                                                          MatchesPlayed
               20.000000
                                                              20.000000
      count
                             20.000000
                                              20.000000
      mean
             1974.800000
                            118.950000
                                              21.250000
                                                              41.800000
      std
               25.582889
                             32.972836
                                               7.268352
                                                              17.218717
      min
             1930.000000
                             70.000000
                                              13.000000
                                                              17.000000
      25%
             1957.000000
                             89.000000
                                              16.000000
                                                              30.500000
      50%
             1976.000000
                            120.500000
                                              16.000000
                                                              38.000000
```

```
[17]: d1_matches.info()
     <class 'pandas.core.frame.DataFrame'>
     RangeIndex: 4572 entries, 0 to 4571
     Data columns (total 20 columns):
          Column
                                 Non-Null Count
                                                 Dtype
          _____
                                 _____
                                                 ----
      0
                                 852 non-null
                                                 float64
          Year
      1
          Datetime
                                 852 non-null
                                                 object
      2
          Stage
                                 852 non-null
                                                 object
      3
          Stadium
                                 852 non-null
                                                 object
      4
          City
                                 852 non-null
                                                 object
      5
          Home Team Name
                                 852 non-null
                                                 object
          Home Team Goals
                                 852 non-null
                                                 float64
      6
      7
          Away Team Goals
                                 852 non-null
                                                 float64
          Away Team Name
      8
                                 852 non-null
                                                 object
          Win conditions
                                 852 non-null
                                                 object
      10 Attendance
                                 850 non-null
                                                 float64
          Half-time Home Goals
                                 852 non-null
                                                 float64
      12
          Half-time Away Goals
                                 852 non-null
                                                 float64
          Referee
                                 852 non-null
      13
                                                 object
      14
          Assistant 1
                                 852 non-null
                                                 object
      15
         Assistant 2
                                 852 non-null
                                                 object
      16 RoundID
                                 852 non-null
                                                 float64
          MatchID
                                 852 non-null
      17
                                                 float64
          Home Team Initials
                                 852 non-null
                                                 object
          Away Team Initials
                                 852 non-null
                                                 object
     dtypes: float64(8), object(12)
     memory usage: 714.5+ KB
[22]: d1_matches['Datetime'] = pd.to_datetime(d1_matches['Datetime'],errors ='coerce')
      d1 matches.head()
[22]:
                                                                      City \
           Year
                           Datetime
                                       Stage
                                                      Stadium
      0 1930.0 1930-07-13 15:00:00
                                     Group 1
                                                      Pocitos Montevideo
      1 1930.0 1930-07-13 15:00:00
                                     Group 4
                                              Parque Central
                                                               Montevideo
      2 1930.0 1930-07-14 12:45:00
                                     Group 2
                                              Parque Central Montevideo
      3 1930.0 1930-07-14 14:50:00
                                     Group 3
                                                      Pocitos Montevideo
      4 1930.0 1930-07-15 16:00:00
                                     Group 1 Parque Central Montevideo
        Home Team Name
                        Home Team Goals
                                         Away Team Goals Away Team Name
      0
                France
                                    4.0
                                                      1.0
                                                                  Mexico
                                    3.0
      1
                   USA
                                                      0.0
                                                                 Belgium
      2
                                    2.0
                                                      1.0
                                                                  Brazil
            Yugoslavia
      3
               Romania
                                    3.0
                                                      1.0
                                                                    Peru
```

26.000000

32.000000

55.000000

64.000000

75%

max

1995.000000

2014.000000

145.250000

171.000000

```
1.0
                                                0.0
4
       Argentina
                                                             France
  Win conditions
                  Attendance
                              Half-time Home Goals
                                                     Half-time Away Goals \
0
                      4444.0
                                                 3.0
                                                                        0.0
1
                     18346.0
                                                 2.0
                                                                       0.0
2
                     24059.0
                                                 2.0
                                                                       0.0
3
                      2549.0
                                                 1.0
                                                                       0.0
4
                                                 0.0
                                                                       0.0
                     23409.0
                  Referee
                                         Assistant 1
  LOMBARDI Domingo (URU)
                               CRISTOPHE Henry (BEL)
1
        MACIAS Jose (ARG)
                           MATEUCCI Francisco (URU)
2
      TEJADA Anibal (URU)
                            VALLARINO Ricardo (URU)
                                 LANGENUS Jean (BEL)
3
    WARNKEN Alberto (CHI)
      REGO Gilberto (BRA)
                                SAUCEDO Ulises (BOL)
                  Assistant 2 RoundID MatchID Home Team Initials \
0
          REGO Gilberto (BRA)
                                  201.0
                                          1096.0
                                                                 FRA
        WARNKEN Alberto (CHI)
                                  201.0
                                          1090.0
                                                                 USA
1
                                                                 YUG
2
          BALWAY Thomas (FRA)
                                  201.0
                                          1093.0
3
     MATEUCCI Francisco (URU)
                                  201.0
                                          1098.0
                                                                 ROU
4 RADULESCU Constantin (ROU)
                                  201.0
                                          1085.0
                                                                 ARG
  Away Team Initials
0
                 MEX
1
                 BEL
2
                 BRA
3
                 PER
                 FRA
```

#### [23]: d1\_matches.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 4572 entries, 0 to 4571
Data columns (total 20 columns):

#	Column	Non-Null Count	Dtype
0	Year	852 non-null	float64
1	Datetime	842 non-null	datetime64[ns]
2	Stage	852 non-null	object
3	Stadium	852 non-null	object
4	City	852 non-null	object
5	Home Team Name	852 non-null	object
6	Home Team Goals	852 non-null	float64
7	Away Team Goals	852 non-null	float64
8	Away Team Name	852 non-null	object
9	Win conditions	852 non-null	object
10	Attendance	850 non-null	float64

```
11 Half-time Home Goals
                                 852 non-null
                                                  float64
      12 Half-time Away Goals
                                 852 non-null
                                                  float64
          Referee
      13
                                 852 non-null
                                                  object
      14 Assistant 1
                                 852 non-null
                                                  object
      15
          Assistant 2
                                 852 non-null
                                                  object
      16 RoundID
                                 852 non-null
                                                  float64
          MatchID
      17
                                 852 non-null
                                                  float64
      18 Home Team Initials
                                 852 non-null
                                                  object
      19 Away Team Initials
                                 852 non-null
                                                  object
     dtypes: datetime64[ns](1), float64(8), object(11)
     memory usage: 714.5+ KB
[24]: d1 matches.isnull().sum()
[24]: Year
                               3720
      Datetime
                               3730
      Stage
                               3720
      Stadium
                               3720
      City
                               3720
      Home Team Name
                               3720
      Home Team Goals
                               3720
      Away Team Goals
                               3720
      Away Team Name
                               3720
      Win conditions
                               3720
      Attendance
                               3722
      Half-time Home Goals
                               3720
      Half-time Away Goals
                               3720
      Referee
                               3720
      Assistant 1
                               3720
      Assistant 2
                               3720
      RoundID
                               3720
      MatchID
                               3720
      Home Team Initials
                               3720
      Away Team Initials
                               3720
      dtype: int64
[25]: d1_matches = d1_matches.dropna()
[27]: d1_matches.isnull().sum()
[27]: Year
                               0
      Datetime
                               0
      Stage
                               0
      Stadium
                               0
                               0
      City
                               0
      Home Team Name
      Home Team Goals
                               0
      Away Team Goals
                               0
```

```
Away Team Name
                              0
      Win conditions
                              0
      Attendance
                              0
      Half-time Home Goals
                              0
      Half-time Away Goals
                              0
      Referee
                              0
      Assistant 1
                              0
      Assistant 2
                              0
      RoundID
                              0
      MatchID
                              0
      Home Team Initials
                              0
      Away Team Initials
      dtype: int64
[29]: d1_matches.shape
[29]: (840, 20)
[30]: d1_matches = d1_matches.drop_duplicates()
[31]: d1 matches.shape
[31]: (825, 20)
[32]: d1_matches.columns
[32]: Index(['Year', 'Datetime', 'Stage', 'Stadium', 'City', 'Home Team Name',
             'Home Team Goals', 'Away Team Goals', 'Away Team Name',
             'Win conditions', 'Attendance', 'Half-time Home Goals',
             'Half-time Away Goals', 'Referee', 'Assistant 1', 'Assistant 2',
             'RoundID', 'MatchID', 'Home Team Initials', 'Away Team Initials'],
            dtype='object')
[34]: del d1_matches['RoundID']
[35]: d1_matches.columns
[35]: Index(['Year', 'Datetime', 'Stage', 'Stadium', 'City', 'Home Team Name',
             'Home Team Goals', 'Away Team Goals', 'Away Team Name',
             'Win conditions', 'Attendance', 'Half-time Home Goals',
             'Half-time Away Goals', 'Referee', 'Assistant 1', 'Assistant 2',
             'MatchID', 'Home Team Initials', 'Away Team Initials'],
            dtype='object')
[38]: d1_matches['Goals'] = d1_matches['Home Team Goals'] + d1_matches['Away Team_
       Goals'
[39]: d1_matches
```

[39]:		Year	Datetime	Stage	Stadiı	.m \
	0	1930.0 1930-0	7-13 15:00:00	Group 1	Pocito	os
	1	1930.0 1930-0	7-13 15:00:00	Group 4	Parque Centra	al
	2	1930.0 1930-0	7-14 12:45:00	Group 2	Parque Centra	al
	3	1930.0 1930-0	7-14 14:50:00	Group 3	Pocito	os
	4	1930.0 1930-0	7-15 16:00:00	Group 1	Parque Centra	al
	• •	•••	•••	•••	•••	
	831	2014.0 2014-0		Quarter-finals	Estadio Naciona	
	832	2014.0 2014-0		Round of 16	Estadio Castela	
	833	2014.0 2014-0		Round of 16	Arena Pernambuo	
	834	2014.0 2014-0		Round of 16	Arena de Sao Paul	
	835	2014.0 2014-0	7-01 17:00:00	Round of 16	Arena Fonte Nov	7a
		City H	ome Team Name	Home Team Goals	Away Team Goals	\
	0	Montevideo	France	4.0	1.0	
	1	Montevideo	USA	3.0	0.0	
	2	Montevideo	Yugoslavia	2.0	1.0	
	3	Montevideo	Romania	3.0	1.0	
	4	Montevideo	Argentina	1.0	0.0	
		•••	•••	•••	•••	
	831	Brasilia	Argentina	1.0	0.0	
	832	Fortaleza	Netherlands	2.0	1.0	
	833	Recife	Costa Rica	1.0	1.0	
	834	Sao Paulo	Argentina	1.0	0.0	
	835	Salvador	Belgium	2.0	1.0	
		Away Team Name		Win co	nditions Attendar	nce \
	0	Mexico		WIII CO.	4444	
	1	Belgium			18346	
	2	Brazil			24059	
	3	Peru			2549	
	4	France			23409	
						<i>7</i> .0
	831	Belgium			68551	1.0
	832	Mexico			58817	
	833	Greece		in on penalties		
	834	Switzerland		na win after ext		
	835	USA	_	um win after ext		
		Half-time Hom		time Away Goals		eferee \
	0		3.0	0.0	LOMBARDI Domingo	
	1		2.0	0.0	MACIAS Jose	
	2		2.0	0.0	TEJADA Anibal	
	3		1.0	0.0	WARNKEN Alberto	
	4		0.0	0.0	REGO Gilberto	(BRA)
	 831		1.0	0.0	 Nicola RIZZOLI	(TTA)
	501		1.0	0.0	1110010 1010001	(111)

832	0.	. 0		0.0	PROENC	A Pedro	(POR)	
833	0.				Ben W			
834	0.				ERIKSSO			
835	0.				HAIMOUDI			
000	0.			0.0	IIIIIIIOODI	DJamor	(IIII)	
	Assist	ant 1		Assi	stant 2	Mat	chID	\
0	CRISTOPHE Henry	(BEL)			o (BRA)	10	96.0	
1	MATEUCCI Francisco							
2	VALLARINO Ricardo	(URU)	BALWA	AY Thoma	as (FRA)	10	93.0	
3	LANGENUS Jean	(BEL)	MATEUCCI I	ranciso	o (URU)	10	98.0	
4	SAUCEDO Ulises	(BOL)	RADULESCU Co	onstanti	n (ROU)	10	85.0	
		•••			•••	•••		
831	Renato FAVERANI	(ITA)	Andrea	a STEFAN	II (ITA)	3001865	04.0	
832	MIRANDA Bertino	(POR)	TI	RIGO Jos	se (POR)	3001865	0.80	
833	CREAM Matthew	(AUS)	Al	NAZ Haka	an (AUS)	3001864	59.0	
834	KLASENIUS Mathias	(SWE)	WARNMAI	RK Danie	el (SWE)	3001865	03.0	
835	ACHIK Redouane	(MAR)	ETCHIALI	Abdelha	ak (ALG)	3001864	97.0	
	Home Team Initials A	Away Te	am Initials	Goals				
0	FRA		MEX	5.0				
1	USA		BEL	3.0				
2	YUG		BRA	3.0				
3	ROU		PER	4.0				
4	ARG		FRA	1.0				
	•••							
831	ARG		BEL	1.0				
832	NED		MEX	3.0				
833	CRC		GRE	2.0				
834	ARG		SUI	1.0				
835	BEL		USA	3.0				

[825 rows x 20 columns]

# [40]: d2\_players.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 37784 entries, 0 to 37783
Data columns (total 9 columns):

#	Column	Non-Null Count	Dtype
0	RoundID	37784 non-null	int64
1	MatchID	37784 non-null	int64
2	Team Initials	37784 non-null	object
3	Coach Name	37784 non-null	object
4	Line-up	37784 non-null	object
5	Shirt Number	37784 non-null	int64
6	Player Name	37784 non-null	object
7	Position	4143 non-null	obiect

```
dtypes: int64(3), object(6)
     memory usage: 2.6+ MB
[41]: d2_players.describe()
[41]:
                  RoundID
                                 MatchID
                                          Shirt Number
             3.778400e+04
                           3.778400e+04
                                          37784.000000
      count
             1.105647e+07
                            6.362233e+07
      mean
                                             10.726022
      std
             2.770144e+07
                            1.123916e+08
                                              6.960138
             2.010000e+02
                            2.500000e+01
                                              0.000000
     min
      25%
             2.630000e+02
                           1.199000e+03
                                              5.000000
      50%
             3.370000e+02
                           2.216000e+03
                                             11.000000
      75%
             2.559310e+05
                           9.741000e+07
                                             17.000000
             9.741060e+07
                           3.001865e+08
                                             23.000000
      max
[42]: d2_players.isnull().sum()
[42]: RoundID
                            0
      MatchID
                            0
      Team Initials
                            0
      Coach Name
                            0
     Line-up
                            0
      Shirt Number
                            0
     Player Name
                            0
     Position
                       33641
      Event
                       28715
      dtype: int64
[43]: d2_players.fillna('Not Available', inplace=True)
[44]: d2_players.isnull().sum()
[44]: RoundID
                       0
      MatchID
                       0
      Team Initials
                       0
      Coach Name
                       0
      Line-up
                       0
      Shirt Number
                       0
      Player Name
                       0
      Position
                       0
      Event
                       0
      dtype: int64
[48]: d1_matches = d1_matches.replace(['Germany FR'], 'Germany')
      d1_matches.head(30)
```

object

Event

9069 non-null

[48]:	Vaam	Dototimo	C+ 0 m 0	C+ o di um	\
[48]:	Year 1930.0 1930-07	Datetime	Stage	Stadium Pocitos	\
1	1930.0 1930-07		Group 1 Group 4	Parque Central	
2	1930.0 1930-07		Group 4 Group 2	-	
3	1930.0 1930-07		•	Parque Central Pocitos	
			Group 3		
4	1930.0 1930-07		Group 1	Parque Central	
5	1930.0 1930-07		Group 1	Parque Central	
6	1930.0 1930-07		Group 2	Parque Central	
7	1930.0 1930-07		Group 4	Parque Central Estadio Centenario	
8 9	1930.0 1930-07 1930.0 1930-07		Group 3	Estadio Centenario Estadio Centenario	
10	1930.0 1930-07		Group 1		
10	1930.0 1930-07		Group 1	Estadio Centenario	
12	1930.0 1930-07		Group 2	Estadio Centenario Estadio Centenario	
13	1930.0 1930-07		Group 4	Estadio Centenario	
13	1930.0 1930-07		Group 3 Group 1	Estadio Centenario	
15	1930.0 1930-07		Semi-finals	Estadio Centenario	
				Estadio Centenario Estadio Centenario	
16 17	1930.0 1930-07 1930.0 1930-07		Semi-finals Final		
18				Stadio Benito Mussolini	
19	1934.0 1934-05		•		
20	1934.0 1934-05 1934.0 1934-05		Preliminary round	•	
21	1934.0 1934-05		Preliminary round		
22	1934.0 1934-05		Preliminary round Preliminary round		
23	1934.0 1934-05		Preliminary round		
23	1934.0 1934-05		Preliminary round	9	
25	1934.0 1934-05		Preliminary round		
26	1934.0 1934-05		•	Stadio Benito Mussolini	
27	1934.0 1934-05		Quarter-finals	San Siro	
28	1934.0 1934-05		Quarter-finals	Giovanni Berta	
29	1934.0 1934-05		Quarter-finals	Littorale	
20	1301.0 1301 00	01 10.00.00	quarter rinars	Hittorale	
	City H	ome Team Name	Home Team Goals	Away Team Goals \	
0	Montevideo	France		1.0	
1	Montevideo	USA	3.0	0.0	
2	Montevideo	Yugoslavia	2.0	1.0	
3	Montevideo	Romania		1.0	
4	Montevideo	Argentina	1.0	0.0	
5	Montevideo	Chile	3.0	0.0	
6	Montevideo	Yugoslavia	4.0	0.0	
7	Montevideo	USA		0.0	
8	Montevideo	Uruguay	1.0	0.0	
9	Montevideo	Chile		0.0	
10	Montevideo	Argentina		3.0	
11	Montevideo	Brazil	4.0	0.0	
12	Montevideo	Paraguay	1.0	0.0	
13	Montevideo	Uruguay		0.0	
		_			

							4 0
14	Montevideo	Argentina			3.0		1.0
15	Montevideo	Argentina			6.0		1.0
16	Montevideo	Uruguay			6.0		1.0
17	Montevideo	Uruguay			4.0		2.0
18	Turin	Austria			3.0		2.0
19					4.0		2.0
	Naples	Hungary					
20	Milan	Switzerland			3.0		2.0
21	Bologna	Sweden			3.0		2.0
22	Florence	Germany			5.0		2.0
23	Genoa	Spain			3.0		1.0
24	Rome	Italy			7.0		1.0
25	Trieste	Czechoslovakia			2.0		1.0
26	Turin	Czechoslovakia			3.0		2.0
27	Milan	Germany			2.0		1.0
28	Florence	Italy			1.0		1.0
29	Bologna	Austria			2.0		1.0
	Away Team Nam	ıe	Win	cond	itions	Attendance	\
0	Mexic					4444.0	
1	Belgiu					18346.0	
2	_						
	Brazi					24059.0	
3	Per	u				2549.0	
4	Franc	e				23409.0	
5	Mexic	:0				9249.0	
6	Bolivi	.a				18306.0	
7	Paragua	V				18306.0	
8	Per	•				57735.0	
9	_					2000.0	
	Franc						
10	Mexic					42100.0	
11	Bolivi	.a				25466.0	
12	Belgiu	m				12000.0	
13	Romani	.a				70022.0	
14	Chil	.e				41459.0	
15	US	ΙΔ				72886.0	
16						79867.0	
	Yugoslavi						
17	Argentin					68346.0	
18	Franc	e Austria win a	after	extra	time	16000.0	
19	Egyp	ot				9000.0	
20	Netherland	ls				33000.0	
21	Argentin	ıa				14000.0	
22	Belgiu					8000.0	
23	Brazi					21000.0	
24	US					25000.0	
25	Romani					9000.0	
26	Switzerlan	ıd				12000.0	
27	Swede	n				3000.0	
28	Spai					35000.0	
	~}~						

23000.0

29

2	2.0	0.0 IEJADA ANIDAL	(UNU)
3	1.0	0.0 WARNKEN Alberto	(CHI)
4	0.0	0.0 REGO Gilberto	(BRA)
5	1.0	0.0 CRISTOPHE Henry	(BEL)
6	0.0	0.0 MATEUCCI Francisco	(URU)
7	2.0	0.0 MACIAS Jose	(ARG)
8	0.0	0.0 LANGENUS Jean	(BEL)
9	0.0	0.0 TEJADA Anibal	(URU)
10	3.0	1.0 SAUCEDO Ulises	(BOL)
11	1.0	0.0 BALWAY Thomas	(FRA)
12	1.0	0.0 VALLARINO Ricardo	(URU)
13	4.0	0.0 REGO Gilberto	(BRA)
14	2.0	1.0 LANGENUS Jean	(BEL)
15	1.0	0.0 LANGENUS Jean	(BEL)
16	3.0	1.0 REGO Gilberto	(BRA)
17	1.0	2.0 LANGENUS Jean	(BEL)
18	0.0	0.0 VAN MOORSEL Johannes	(NED)
19	2.0	2.0 BARLASSINA Rinaldo	(ITA)
20	2.0	1.0 EKLIND Ivan	(SWE)
21	1.0	1.0 BRAUN Eugen	(AUT)
22	1.0	2.0 MATTEA Francesco	(ITA)
23	3.0	0.0 BIRLEM Alfred	(GER)
24	3.0	0.0 MERCET Rene	(SUI)
25	0.0	1.0 LANGENUS Jean	(BEL)
26	1.0	1.0 BERANEK Alois	(AUT)
27	0.0	0.0 BARLASSINA Rinaldo	(ITA)
28	0.0	0.0 BAERT Louis	(BEL)
29	1.0	0.0 MATTEA Francesco	(ITA)
	Assistant 1		\
0	CRISTOPHE Henry (BEL)	REGO Gilberto (BRA) 1096.0	
1	MATEUCCI Francisco (URU)	WARNKEN Alberto (CHI) 1090.0	
2	VALLARINO Ricardo (URU)	BALWAY Thomas (FRA) 1093.0	
3	LANGENUS Jean (BEL)	MATEUCCI Francisco (URU) 1098.0	
4	SAUCEDO Ulises (BOL)	RADULESCU Constantin (ROU) 1085.0	
5	APHESTEGUY Martin (URU)	LANGENUS Jean (BEL) 1095.0	
6	LOMBARDI Domingo (URU)	WARNKEN Alberto (CHI) 1092.0	
7	APHESTEGUY Martin (URU)	TEJADA Anibal (URU) 1097.0	
8	BALWAY Thomas (FRA)	CRISTOPHE Henry (BEL) 1099.0	
9	LOMBARDI Domingo (URU)	REGO Gilberto (BRA) 1094.0	
10	ALONSO Gualberto (URU)	RADULESCU Constantin (ROU) 1086.0	
11	MATEUCCI Francisco (URU)	VALLEJO Gaspar (MEX) 1091.0	

12	MACIAS Jose	(ARG)	LOMBARDI Domingo	(URU)	1089.0
13	WARNKEN Alberto	(CHI)	SAUCEDO Ulises	(BOL)	1100.0
14	CRISTOPHE Henry	(BEL)	SAUCEDO Ulises	(BOL)	1084.0
15	VALLEJO Gaspar	(MEX)	WARNKEN Alberto	(CHI)	1088.0
16	SAUCEDO Ulises	(BOL)	BALWAY Thomas	(FRA)	1101.0
17	SAUCEDO Ulises	(BOL)	CRISTOPHE Henry	(BEL)	1087.0
18	CAIRONI Camillo	(ITA)	BAERT Louis	(BEL)	1104.0
19	DATTILO Generoso	(ITA)	SASSI Otello	(ITA)	1119.0
20	BERANEK Alois	(AUT)	BONIVENTO Ferruccio	(ITA)	1133.0
21	CARRARO Albino	(ITA)	TURBIANI Giuseppe	(ITA)	1102.0
22	MELANDRI Ermenegildo	(ITA)	BAERT Jacques	(FRA)	1108.0
23	CARMINATI Ettore	(ITA)	IVANCSICS Mihaly	(HUN)	1111.0
24	ESCARTIN Pedro	(ESP)	ZENISEK Bohumil	(TCH)	1135.0
25	SCARPI Giuseppe	(ITA)	SCORZONI Raffaele	(ITA)	1141.0
26	MOHAMED Youssuf	(EGY)	BAERT Jacques	(FRA)	1143.0
27	MERCET Rene	(SUI)	VAN MOORSEL Johannes	(NED)	1129.0
28	ZENISEK Bohumil	(TCH)	IVANCSICS Mihaly	(HUN)	1122.0
29	ESCARTIN Pedro	(ESP)	BIRLEM Alfred	(GER)	1106.0

	Home	Toam	Initiale	۸ ۲۰۲۵ ۲۰۲	Toam	Initials	Goals
0	Home	1 Calli	FRA	Away	1 Call	MEX	5.0
1			USA			BEL	3.0
2			YUG			BRA	3.0
3			ROU			PER	4.0
4			ARG			FRA	1.0
5			CHI			MEX	3.0
6			YUG			BOL	4.0
7			USA			PAR	3.0
8			URU			PER	1.0
9			CHI			FRA	1.0
10			ARG			MEX	9.0
11			BRA			BOL	4.0
12			PAR			BEL	1.0
13			URU			ROU	4.0
14			ARG			CHI	4.0
15			ARG			USA	7.0
16			URU			YUG	7.0
17			URU			ARG	6.0
18			AUT			FRA	5.0
19			HUN			EGY	6.0
20			SUI			NED	5.0
21			SWE			ARG	5.0
22			GER			BEL	7.0
23			ESP			BRA	4.0
24			ITA			USA	8.0
25			TCH			ROU	3.0
26			TCH			SUI	5.0
20			1011			501	0.0

```
27
                          GER
                                                SWE
                                                       3.0
      28
                                                ESP
                                                       2.0
                          ITA
      29
                          AUT
                                                HUN
                                                       3.0
[50]: d3 cups = d3 cups.replace(['Germany FR'], 'Germany')
      d3_cups
[50]:
                                                  Runners-Up
                                                                      Third \
           Year
                       Country
                                    Winner
      0
           1930
                                                                        USA
                       Uruguay
                                   Uruguay
                                                   Argentina
      1
           1934
                         Italy
                                     Italy
                                             Czechoslovakia
                                                                    Germany
      2
           1938
                        France
                                     Italy
                                                     Hungary
                                                                     Brazil
      3
           1950
                        Brazil
                                                      Brazil
                                                                     Sweden
                                   Uruguay
      4
           1954
                  Switzerland
                                   Germany
                                                     Hungary
                                                                   Austria
      5
           1958
                        Sweden
                                    Brazil
                                                      Sweden
                                                                     France
      6
                         Chile
           1962
                                    Brazil
                                             Czechoslovakia
                                                                      Chile
      7
           1966
                                   England
                                                     Germany
                                                                  Portugal
                       England
      8
           1970
                        Mexico
                                    Brazil
                                                       Italy
                                                                   Germany
      9
           1974
                       Germany
                                   Germany
                                                Netherlands
                                                                     Poland
      10
           1978
                     Argentina
                                 Argentina
                                                Netherlands
                                                                     Brazil
           1982
      11
                         Spain
                                     Italy
                                                     Germany
                                                                     Poland
           1986
      12
                        Mexico
                                 Argentina
                                                     Germany
                                                                     France
      13
           1990
                         Italy
                                   Germany
                                                   Argentina
                                                                      Italy
           1994
      14
                           USA
                                    Brazil
                                                       Italy
                                                                     Sweden
      15
           1998
                        France
                                    France
                                                      Brazil
                                                                    Croatia
      16
           2002
                  Korea/Japan
                                    Brazil
                                                     Germany
                                                                     Turkey
      17
           2006
                       Germany
                                     Italy
                                                      France
                                                                   Germany
      18
           2010
                 South Africa
                                     Spain
                                                Netherlands
                                                                   Germany
      19
           2014
                        Brazil
                                   Germany
                                                   Argentina
                                                               Netherlands
                                                             MatchesPlayed Attendance
                                           QualifiedTeams
                   Fourth
                            GoalsScored
      0
               Yugoslavia
                                      70
                                                                         18
                                                                                590.549
                                                        13
      1
                  Austria
                                      70
                                                        16
                                                                         17
                                                                                363.000
      2
                    Sweden
                                      84
                                                        15
                                                                                375.700
                                                                         18
      3
                     Spain
                                      88
                                                        13
                                                                         22
                                                                             1.045.246
      4
                                                        16
                                                                         26
                                                                                768.607
                  Uruguay
                                      140
      5
                                                                         35
                  Germany
                                      126
                                                        16
                                                                                819.810
      6
               Yugoslavia
                                      89
                                                        16
                                                                         32
                                                                                893.172
      7
             Soviet Union
                                      89
                                                        16
                                                                         32
                                                                             1.563.135
      8
                                      95
                                                        16
                                                                         32
                  Uruguay
                                                                             1.603.975
      9
                                      97
                                                                         38
                    Brazil
                                                        16
                                                                             1.865.753
      10
                     Italy
                                     102
                                                        16
                                                                             1.545.791
      11
                   France
                                      146
                                                        24
                                                                         52
                                                                             2.109.723
                                                        24
                                                                         52
                                                                             2.394.031
      12
                  Belgium
                                     132
      13
                  England
                                     115
                                                        24
                                                                         52
                                                                             2.516.215
      14
                 Bulgaria
                                     141
                                                        24
                                                                         52
                                                                             3.587.538
              Netherlands
      15
                                     171
                                                        32
                                                                         64
                                                                             2.785.100
          Korea Republic
                                                        32
                                                                             2.705.197
      16
                                      161
                                                                         64
```

```
17
                 Portugal
                                     147
                                                       32
                                                                       64
                                                                           3.359.439
                                                       32
      18
                  Uruguay
                                     145
                                                                       64
                                                                           3.178.856
      19
                   Brazil
                                     171
                                                       32
                                                                       64
                                                                           3.386.810
[51]: d3_cups.info()
```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 20 entries, 0 to 19

Data columns (total 10 columns):

# Column Non-Null Count Dtype \_\_\_\_\_ \_\_\_\_\_ 0 20 non-null Year int64 1 Country 20 non-null object 2 Winner 20 non-null object 3 Runners-Up 20 non-null object 4 Third 20 non-null object 5 Fourth 20 non-null object 6 GoalsScored 20 non-null int64 7 20 non-null int64 QualifiedTeams 8 MatchesPlayed 20 non-null int64 9 Attendance 20 non-null object

dtypes: int64(4), object(6)

memory usage: 1.7+ KB

## [52]: d3\_cups.describe()

[52]: Year GoalsScored QualifiedTeams MatchesPlayed count 20.000000 20.000000 20.000000 20.000000 1974.800000 118.950000 21.250000 41.800000 mean std 25.582889 32.972836 7.268352 17.218717 min 1930.000000 70.000000 13.000000 17.000000 25% 1957.000000 89.000000 16.000000 30.500000 50% 1976.000000 120.500000 16.000000 38.000000 75% 1995.000000 145.250000 26.000000 55.000000 max2014.000000 171.000000 32.000000 64.000000

## [53]: d3\_cups.isnull().sum()

0 [53]: Year 0 Country 0 Winner 0 Runners-Up Third 0 0 Fourth GoalsScored 0 QualifiedTeams 0 MatchesPlayed 0 Attendance 0

### dtype: int64