```
In [60]: #import libraries
import math
import statistics as st
import numpy as np
import scipy.stats
import pandas as pd
import numpy as np
import csv
import seaborn as sns
import matplotlib.pyplot as plt
%matplotlib inline
```

Part one:

• Read the data set, clean the data and prepare final dataset to be used for analysis.

```
In [61]: #getting the data
    df=pd.read_csv("DS - Part2 - Basketball.csv")
    df.head()
```

Out[61]:		Team	Tournament	Score	PlayedGames	WonGames	DrawnGames	LostGames	BasketScored	BasketGiven	Tou
-	0	Team 1	86	4385	2762	1647	552	563	5947	3140	
	1	Team 2	86	4262	2762	1581	573	608	5900	3114	
	2	Team 3	80	3442	2614	1241	598	775	4534	3309	
	3	Team 4	82	3386	2664	1187	616	861	4398	3469	
	4	Team 5	86	3368	2762	1209	633	920	4631	3700	

checking the data and make descriptive statistics.

```
In [62]: df.shape
Out[62]: 

(61, 13)

In [63]: df.describe()
    #here there are a lot of other columns should be numeric data type.
```

Out[63]:		Tournament	HighestPositionHeld
	count	61.000000	61.000000
	mean	24.000000	7.081967
	std	26.827225	5.276663
	min	1.000000	1.000000
	25%	4.000000	3.000000
	50%	12.000000	6.000000

df.dtypes	
# only [team - tourn	nament - highestpositionheid] are have right datatype.
Team	object
Tournament	int64
Score	object
PlayedGames	object
WonGames	object
DrawnGames	object
LostGames	object
BasketScored	object
BasketGiven	object
TournamentChampion	object
Runner-up	object
TeamLaunch	object
HighestPositionHeld	int64
dtype: object	
df.head(10)	

Tournament HighestPositionHeld

38.000000

75%

10.000000

•	Team	Tournament	Score	PlayedGames	WonGames	DrawnGames	LostGames	BasketScored	BasketGiven	Tou
0	Team 1	86	4385	2762	1647	552	563	5947	3140	
1	Team 2	86	4262	2762	1581	573	608	5900	3114	
2	Team 3	80	3442	2614	1241	598	775	4534	3309	
3	Team 4	82	3386	2664	1187	616	861	4398	3469	
4	Team 5	86	3368	2762	1209	633	920	4631	3700	
5	Team 6	73	2819	2408	990	531	887	3680	3373	
6	Team 7	82	2792	2626	948	608	1070	3609	3889	
7	Team 8	70	2573	2302	864	577	861	3228	3230	
8	Team 9	58	2109	1986	698	522	766	2683	2847	
9	Team 10	51	1884	1728	606	440	682	2159	2492	

cleaning:

- change columns'types to int
- replace TournamentChampion: from to 0, and runner-up columns

• TeamLaunch column remove from - and rely on the first part as it is the start year

```
In [66]:
         \#replacing (-) to (0) in TournamentChampion and runner-up columns.
         df["TournamentChampion"] = df["TournamentChampion"].replace("-","0")
In [67]:
         df["Runner-up"].unique()
         array(['23', '25', '8', '6', '7', '4', '-', '3', '1', '5'], dtype=object)
Out[67]:
In [68]:
         df["Runner-up"] = df["Runner-up"].replace("-","0")
In [69]:
         df.columns
        Index(['Team', 'Tournament', 'Score', 'PlayedGames', 'WonGames', 'DrawnGames',
Out[69]:
                'LostGames', 'BasketScored', 'BasketGiven', 'TournamentChampion',
                'Runner-up', 'TeamLaunch', 'HighestPositionHeld'],
              dtype='object')
In [70]:
         change list=['Score', 'PlayedGames', 'WonGames', 'DrawnGames', 'LostGames', 'BasketScored'
                'Runner-up']
         for i in change list:
             print(i+":"+str(df[i].str.contains("-").any()))
        Score:True
        PlayedGames: True
        WonGames:True
        DrawnGames:True
        LostGames: True
        BasketScored:True
        BasketGiven: True
        TournamentChampion:False
        Runner-up: False
In [71]:
         change list=['Score', 'PlayedGames', 'WonGames', 'DrawnGames', 'LostGames', 'BasketScored',
                'Runner-up']
         for i in change list:
             print(df[i].unique())
         ['4385' '4262' '3442' '3386' '3368' '2819' '2792' '2573' '2109' '1884'
          '1814' '1789' '1471' '1416' '1389' '1351' '1314' '1174' '1148' '1020'
          '970' '667' '662' '606' '553' '538' '510' '445' '421' '416' '375' '353'
          '343' '293' '285' '277' '242' '230' '190' '188' '168' '150' '148' '132'
          '107' '96' '91' '83' '81' '76' '71' '56' '52' '42' '40' '35' '34' '22'
          '19' '14' '-'1
         ['2762' '2614' '2664' '2408' '2626' '2302' '1986' '1728' '1530' '1698'
          '1466' '1428' '1458' '1318' '1255' '1192' '988' '1096' '646' '742' '652'
          '678' '456' '628' '494' '586' '380' '402' '423' '426' '448' '346' '334'
         '270' '228' '282' '160' '186' '204' '180' '152' '114' '130' '116' '80'
         '108' '90' '72' '68' '54' '38' '30' '-']
         ['1647' '1581' '1241' '1187' '1209' '990' '948' '864' '698' '606' '563'
          '586' '463' '453' '471' '426' '390' '408' '333' '367' '266' '218' '189'
         '203' '147' '184' '155' '145' '125' '113' '123' '129' '104' '96' '103'
         '76' '62' '82' '52' '50' '59' '53' '37' '35' '43' '26' '34' '20' '19'
          '30' '29' '21' '17' '18' '13' '8' '7' '5' '-']
         ['552' '573' '598' '616' '633' '531' '608' '577' '522' '440' '392' '389'
          '384' '336' '358' '327' '330' '292' '256' '242' '172' '175' '148' '180'
          '112' '149' '128' '143' '81' '95' '102' '127' '92' '79' '76' '56' '63'
          '45' '46' '50' '44' '37' '27' '21' '16' '23' '24' '13' '14' '18' '6' '11'
          '10' '8' '5' '4' '-']
```

```
'639' '629' '565' '535' '492' '399' '487' '208' '349' '305' '295' '197'
          '211' '298' '174' '194' '198' '202' '217' '158' '152' '118' '110' '137'
          '63' '90' '95' '83' '78' '52' '66' '44' '37' '62' '48' '33' '30' '41'
          '19' '20' '15' '18' '21' '-']
         ['5947' '5900' '4534' '4398' '4631' '3680' '3609' '3228' '2683' '2159'
          '2052' '2278' '1767' '1843' '1753' '1500' '1421' '1642' '1182' '1347'
         '892' '819' '760' '750' '520' '716' '619' '607' '458' '430' '422' '492'
          '393' '291' '419' '320' '244' '285' '199' '202' '216' '165' '155' '139'
         '227' '101' '181' '62' '70' '145' '121' '153' '71' '97' '36' '38' '37'
         '51' '34' '-'1
         ['3140' '3114' '3309' '3469' '3700' '3373' '3889' '3230' '2847' '2492'
          '2188' '2624' '2180' '2368' '2152' '1834' '1763' '1951' '1371' '1746'
          '789' '1157' '1088' '1022' '633' '1050' '744' '992' '623' '632' '581'
         '720' '662' '489' '588' '410' '366' '430' '241' '296' '310' '221' '253'
          '167' '308' '139' '295' '117' '115' '252' '183' '184' '116' '131' '182'
         '55' '66' '57' '85' '65' '-']
         ['33' '25' '10' '6' '8' '1' '0' '2']
         ['23' '25' '8' '6' '7' '4' '0' '3' '1' '5']
In [72]:
         change list=['Score', 'PlayedGames', 'WonGames', 'DrawnGames', 'LostGames', 'BasketScored'
         for i in change list:
             df[i]=df[i][:-1]
In [73]:
         change list=['Score', 'PlayedGames', 'WonGames', 'DrawnGames', 'LostGames', 'BasketScored'
                'Runner-up']
         for i in change list:
             print(df[i].unique())
         ['4385' '4262' '3442' '3386' '3368' '2819' '2792' '2573' '2109' '1884'
          '1814' '1789' '1471' '1416' '1389' '1351' '1314' '1174' '1148' '1020'
          '970' '667' '662' '606' '553' '538' '510' '445' '421' '416' '375' '353'
          '343' '293' '285' '277' '242' '230' '190' '188' '168' '150' '148' '132'
          '107' '96' '91' '83' '81' '76' '71' '56' '52' '42' '40' '35' '34' '22'
          '19' '14' nanl
         ['2762' '2614' '2664' '2408' '2626' '2302' '1986' '1728' '1530' '1698'
          '1466' '1428' '1458' '1318' '1255' '1192' '988' '1096' '646' '742' '652'
          '678' '456' '628' '494' '586' '380' '402' '423' '426' '448' '346' '334'
          '270' '228' '282' '160' '186' '204' '180' '152' '114' '130' '116' '80'
          '108' '90' '72' '68' '54' '38' '30' nan]
         ['1647' '1581' '1241' '1187' '1209' '990' '948' '864' '698' '606' '563'
          '586' '463' '453' '471' '426' '390' '408' '333' '367' '266' '218' '189'
          '203' '147' '184' '155' '145' '125' '113' '123' '129' '104' '96' '103'
          '76' '62' '82' '52' '50' '59' '53' '37' '35' '43' '26' '34' '20' '19'
          '30' '29' '21' '17' '18' '13' '8' '7' '5' nanl
         ['552' '573' '598' '616' '633' '531' '608' '577' '522' '440' '392' '389'
          '384' '336' '358' '327' '330' '292' '256' '242' '172' '175' '148' '180'
         '112' '149' '128' '143' '81' '95' '102' '127' '92' '79' '76' '56' '63'
         '45' '46' '50' '44' '37' '27' '21' '16' '23' '24' '13' '14' '18' '6' '11'
          '10' '8' '5' '4' nan]
         ['563' '608' '775' '861' '920' '887' '1070' '766' '682' '575' '723' '619'
          '639' '629' '565' '535' '492' '399' '487' '208' '349' '305' '295' '197'
          '211' '298' '174' '194' '198' '202' '217' '158' '152' '118' '110' '137'
          '63' '90' '95' '83' '78' '52' '66' '44' '37' '62' '48' '33' '30' '41'
          '19' '20' '15' '18' '21' nan]
         ['5947' '5900' '4534' '4398' '4631' '3680' '3609' '3228' '2683' '2159'
          '2052' '2278' '1767' '1843' '1753' '1500' '1421' '1642' '1182' '1347'
          '892' '819' '760' '750' '520' '716' '619' '607' '458' '430' '422' '492'
          '393' '291' '419' '320' '244' '285' '199' '202' '216' '165' '155' '139'
          '227' '101' '181' '62' '70' '145' '121' '153' '71' '97' '36' '38' '37'
          '51' '34' nanl
         ['3140' '3114' '3309' '3469' '3700' '3373' '3889' '3230' '2847' '2492'
          '2188' '2624' '2180' '2368' '2152' '1834' '1763' '1951' '1371' '1746'
```

['563' '608' '775' '861' '920' '887' '1070' '766' '682' '575' '723' '619'

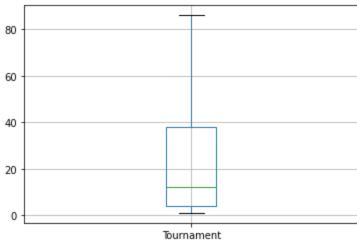
```
'789' '1157' '1088' '1022' '633' '1050' '744' '992' '623' '632' '581'
          '720' '662' '489' '588' '410' '366' '430' '241' '296' '310' '221' '253'
          '167' '308' '139' '295' '117' '115' '252' '183' '184' '116' '131' '182'
          '55' '66' '57' '85' '65' nan]
         ['33' '25' '10' '6' '8' '1' '0' '2']
         ['23' '25' '8' '6' '7' '4' '0' '3' '1' '5']
In [74]:
          # change columns type to int
         change list=['Score', 'PlayedGames', 'WonGames', 'DrawnGames', 'LostGames', 'BasketScored',
                'Runner-up']
         for i in change list:
             df[i]=df[i].fillna(0).astype(int)
In [75]:
         df.dtypes
         Team
                               object
Out[75]:
                                int64
        Tournament
                                 int32
         Score
        PlayedGames
                                 int32
                                 int32
        WonGames
        DrawnGames
                                int32
                                int32
        LostGames
        BasketScored
                                 int32
                                int32
        BasketGiven
         TournamentChampion
                                int32
        Runner-up
                                 int32
        TeamLaunch
                                object
        HighestPositionHeld
                               int64
         dtype: object
In [76]:
         df["TeamLaunch"].unique()
         array(['1929', '1931to32', '1934-35', '1939-40', '1932-33', '1941to42',
Out[76]:
                '1948-49', '1944 45', '1935-36', '1949 50', '1933to34', '1960-61',
                '1951-52', '1998-99', '1941-42', '1977-78', '1959-60', '2004to05',
                '1961-62', '1940-41', '1930-31', '1963-64', '1974-75', '1943-44',
                '1987-88', '1991 92', '2007-08', '1962-63', '1994-95', '1978-79',
                '1971-72', '1999to00', '2014-15', '1990-91', '1947-48', '1996-97',
                '1995-96', '1945-46', '1953-54', '1979-80', '1950-51', '2016_17',
                '2009-10', '1956-57', '1951~52', '1955-56', '2017~18'],
               dtype=object)
In [77]:
         df["TeamLaunch"].replace("t","-")
                   1929
Out[77]:
                   1929
         2
                  1929
         3
              1931to32
                  1929
         4
         56
               2009-10
         57
                1956-57
         58
               1951~52
         59
               1955-56
                2017~18
         60
        Name: TeamLaunch, Length: 61, dtype: object
In [78]:
         df["TeamLaunch"] = df["TeamLaunch"].str[:4]
```

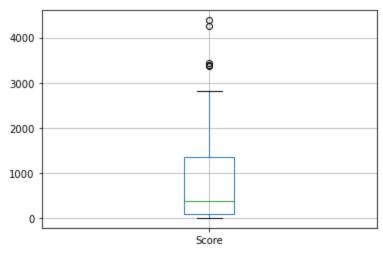
In [79]:

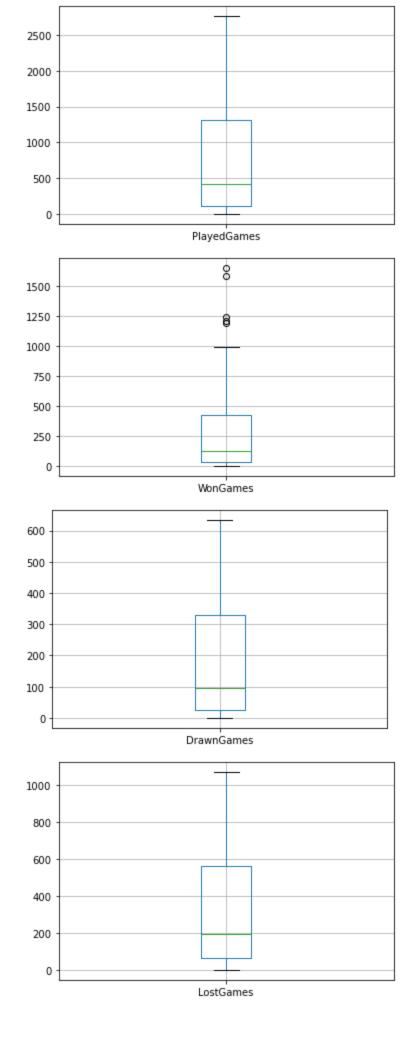
```
array(['1929', '1931', '1934', '1939', '1932', '1941', '1948', '1944',
Out[79]:
                  '1935', '1949', '1933', '1960', '1951', '1998', '1977',
                                                                                  '1959',
                  '2004', '1961', '1940', '1930', '1963', '1974', '1943', '1987',
                  '1991', '2007', '1962', '1994', '1978', '1971', '1999', '2014',
                  '1990', '1947', '1996', '1995', '1945', '1953', '1979', '1950',
                  '2016', '2009', '1956', '1955', '2017'], dtype=object)
         Save cleaned data to other csv file then use it in analysis
In [80]:
          df.to csv("file after cleaning.csv",index=False)
         Part two:
In [81]:
           #importing the final cleaned data
          df cl=pd.read csv("file after cleaning.csv")
          df cl.head(2)
Out[81]:
             Team Tournament Score PlayedGames WonGames DrawnGames LostGames BasketScored BasketGiven Tou
             Team
                           86
                                4385
                                             2762
                                                        1647
                                                                      552
                                                                                 563
                                                                                             5947
                                                                                                         3140
             Team
                           86
                                4262
                                             2762
                                                        1581
                                                                      573
                                                                                 608
                                                                                             5900
                                                                                                         3114
In [82]:
          df cl.describe()
Out[82]:
                 Tournament
                                  Score PlayedGames
                                                      WonGames DrawnGames
                                                                               LostGames BasketScored BasketGiven
                   61.000000
                               61.000000
                                            61.000000
                                                       61.000000
                                                                    61.000000
                                                                                61.000000
                                                                                             61.000000
                                                                                                         61.000000
          count
                   24.000000
                             901.426230
                                           796.819672
                                                      303.967213
                                                                   188.934426
                                                                               303.754098
                                                                                            1140.344262
                                                                                                       1140.229508
          mean
                   26.827225 1134.899121
                                           876.282765
                                                      406.991030
                                                                   201.799477
                                                                               294.708594
                                                                                            1506.740211
                                                                                                        1163.710766
            std
            min
                    1.000000
                               0.000000
                                            0.000000
                                                        0.000000
                                                                     0.000000
                                                                                 0.000000
                                                                                              0.000000
                                                                                                          0.000000
           25%
                   4.000000
                               96.000000
                                           114.000000
                                                       34.000000
                                                                    24.000000
                                                                                62.000000
                                                                                            153.000000
                                                                                                        221.000000
                   12.000000
           50%
                             375.000000
                                           423.000000
                                                       123.000000
                                                                    95.000000
                                                                               197.000000
                                                                                            430.000000
                                                                                                        632.000000
           75%
                   38.000000
                            1351.000000
                                          1318.000000
                                                      426.000000
                                                                   330.000000
                                                                               563.000000
                                                                                            1642.000000
                                                                                                        1951.000000
                   86.000000 4385.000000
                                                                              1070.000000
           max
                                          2762.000000 1647.000000
                                                                   633.000000
                                                                                            5947.000000
                                                                                                       3889.000000
In [83]:
          df cl.info()
          <class 'pandas.core.frame.DataFrame'>
          RangeIndex: 61 entries, 0 to 60
          Data columns (total 13 columns):
               Column
                                       Non-Null Count
                                                          Dtype
           0
               Team
                                        61 non-null
                                                          object
               Tournament
                                        61 non-null
                                                          int64
```

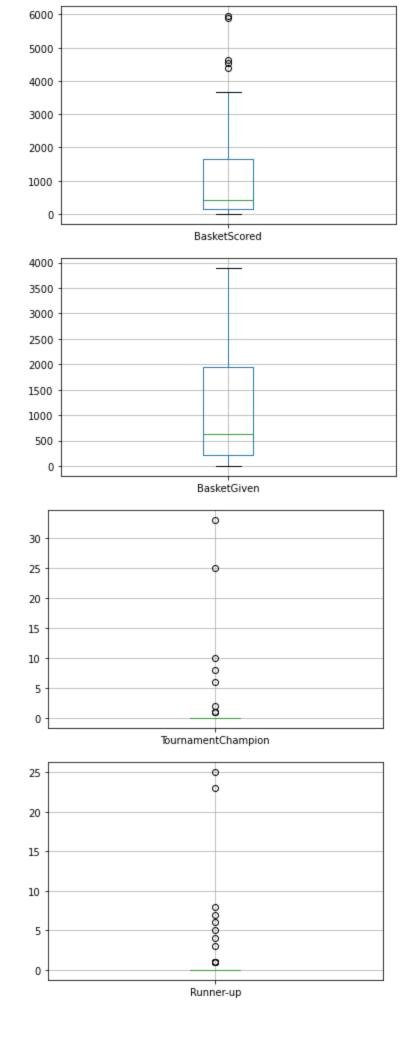
df["TeamLaunch"].unique()

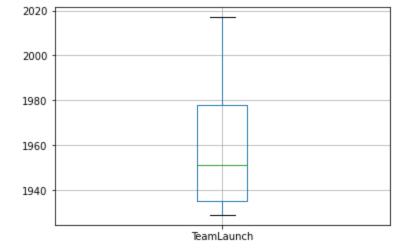
```
2
             Score
                                  61 non-null
                                                  int64
         3
             PlayedGames
                                  61 non-null
                                                  int64
         4
             WonGames
                                 61 non-null
                                                 int64
         5
            DrawnGames
                                  61 non-null
                                                 int64
            LostGames
                                 61 non-null
         6
                                                 int64
         7
            BasketScored
                                 61 non-null
                                                int64
         8
            BasketGiven
                                61 non-null
                                                 int64
             TournamentChampion 61 non-null
                                                 int64
         10 Runner-up
                                 61 non-null
                                                int64
         11 TeamLaunch
                                 61 non-null
                                                 int64
         12 HighestPositionHeld 61 non-null
                                                 int64
        dtypes: int64(12), object(1)
        memory usage: 6.3+ KB
In [84]:
         df cl.columns
        Index(['Team', 'Tournament', 'Score', 'PlayedGames', 'WonGames', 'DrawnGames',
Out[84]:
               'LostGames', 'BasketScored', 'BasketGiven', 'TournamentChampion',
               'Runner-up', 'TeamLaunch', 'HighestPositionHeld'],
              dtype='object')
In [85]:
         #box plot for each column to see the distribution and check if there are any outliers.
         list col=['Tournament', 'Score', 'PlayedGames', 'WonGames', 'DrawnGames',
                'LostGames', 'BasketScored', 'BasketGiven', 'TournamentChampion',
                'Runner-up', 'TeamLaunch']
         for col in list col:
             df cl.boxplot(column=[col])
             plt.show()
         80
```











In [86]: df_cl.head(2)

Out[86]:		Team	Tournament	Score	PlayedGames	WonGames	DrawnGames	LostGames	BasketScored	BasketGiven	Tou
	0	Team 1	86	4385	2762	1647	552	563	5947	3140	
	1	Team	86	4262	2762	1581	573	608	5900	3114	

In [87]: #creating new column as metric of success for each team according to played games.
df_cl["won_play"]=df_cl["WonGames"]/df_cl["PlayedGames"]

In [88]: df_cl.head(2)

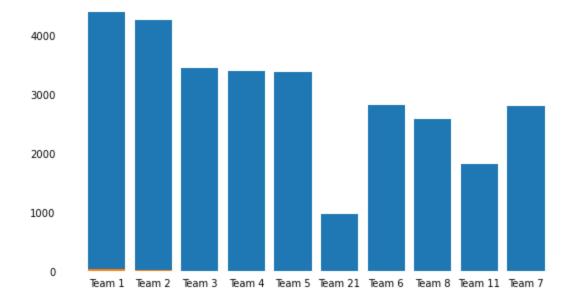
Out[88]: Team Tournament Score PlayedGames WonGames DrawnGames LostGames BasketScored BasketGiven Tou Team Team

In [89]: df_final=df_cl.nlargest(10,['won_play','TournamentChampion'])
 df_final.head()

Out[89]: Team Tournament Score PlayedGames WonGames DrawnGames LostGames BasketScored BasketGiven Tou Team Team Team Team

```
Team
                        86 3368
                                        2762
                                                  1209
                                                              633
                                                                        920
                                                                                  4631
                                                                                             3700
              5
In [90]:
         df cl["won play"].unique()
         array([0.59630702, 0.5724113 , 0.47475134, 0.44557057, 0.43772629,
Out[90]:
                0.41112957, 0.36100533, 0.3753258, 0.35146022, 0.35069444,
                0.36797386, 0.3451119 , 0.31582538, 0.31722689, 0.32304527,
                0.323217 , 0.31075697, 0.34228188, 0.33704453, 0.33485401,
                0.41176471, 0.29380054, 0.2898773 , 0.29941003, 0.32236842,
                0.29299363, 0.31376518, 0.24744027, 0.32894737, 0.28109453,
                0.29078014, 0.3028169 , 0.23214286, 0.27745665, 0.30838323,
                                                 , 0.2688172 , 0.28921569,
                0.28148148, 0.27192982, 0.325
                0.29444444, 0.24342105, 0.30701754, 0.33076923, 0.22807018,
                                                , 0.27777778, 0.32222222,
                0.29310345, 0.25
                                    , 0.2375
                0.29166667, 0.33333333, 0.19117647, 0.21052632, 0.23333333,
                0.16666667,
                                   nan])
In [91]:
         df cl["TournamentChampion"].unique()
        array([33, 25, 10, 6, 8, 1, 0, 2], dtype=int64)
Out[91]:
In [92]:
         team=df final["Team"]
         score=df final["Score"]
         fig, ax = plt.subplots(figsize = (9,5))
         # Remove axes splines
         for s in ['top', 'bottom', 'left', 'right']:
             ax.spines[s].set visible(False)
         # Horizontal Bar Plot
         ax.bar(team, score)
         # Remove x, y Ticks
         ax.xaxis.set ticks position('none')
         ax.yaxis.set ticks position('none')
         # Add padding between axes and labels
         ax.xaxis.set tick params(pad = 3)
         ax.yaxis.set tick params(pad = 6)
         plt.bar(df final["Team"], df final["TournamentChampion"])
         plt.show()
```

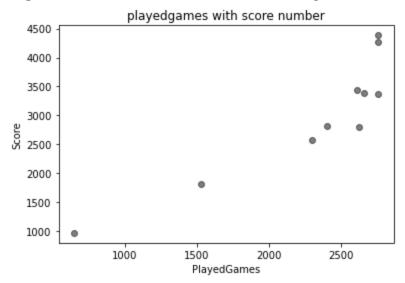
Team Tournament Score PlayedGames WonGames DrawnGames LostGames BasketScored BasketGiven Tou



from the bar chart as we see team 1 is the top team which have bigger score then team3 etc.

```
In [93]:
    colors = (0,0,0)
    plt.scatter(df_final["PlayedGames"],df_final["Score"], c=colors, alpha=0.5)
    plt.title('playedgames with score number')
    plt.xlabel('PlayedGames')
    plt.ylabel('Score')
    plt.show()
```

c argument looks like a single numeric RGB or RGBA sequence, which should be avoided as value-mapping will have precedence in case its length matches with *x* & *y*. Please use the *color* keyword-argument or provide a 2D array with a single row if you intend to spec ify the same RGB or RGBA value for all points.

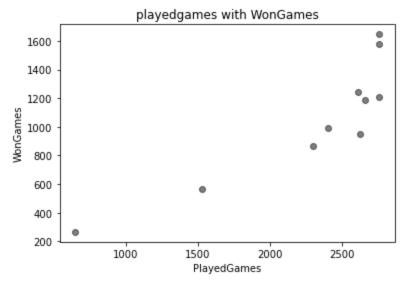


the more the team played ,the more score he get.

```
In [94]: colors = (0,0,0)
  plt.scatter(df_final["PlayedGames"], df_final["WonGames"], c=colors, alpha=0.5)
  plt.title('playedgames with WonGames')
  plt.xlabel('PlayedGames')
  plt.ylabel('WonGames')
  plt.show()
```

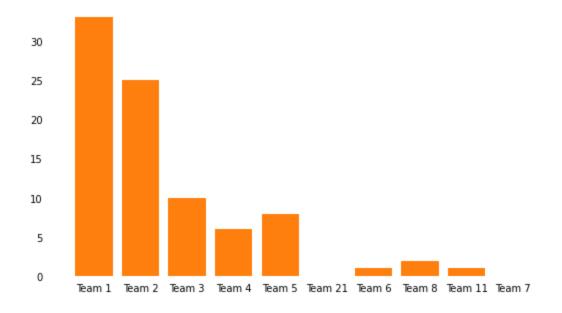
c argument looks like a single numeric RGB or RGBA sequence, which should be avoided as value-mapping will have precedence in case its length matches with *x* & *y*. Please use

the *color* keyword-argument or provide a 2D array with a single row if you intend to spec ify the same RGB or RGBA value for all points.



there a positive relation between number of playedgames ans the wongames.

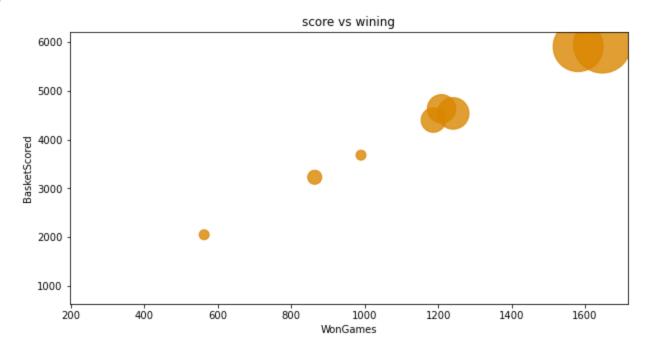
```
In [95]:
         team=df final["Team"]
         score=df final["TournamentChampion"]
         fig, ax = plt.subplots(figsize = (9,5))
          # Remove axes splines
         for s in ['top', 'bottom', 'left', 'right']:
             ax.spines[s].set visible(False)
          # Horizontal Bar Plot
         ax.bar(team, score)
          # Remove x, y Ticks
         ax.xaxis.set ticks position('none')
         ax.yaxis.set ticks position('none')
          # Add padding between axes and labels
         ax.xaxis.set tick params(pad = 3)
         ax.yaxis.set tick params(pad = 6)
         plt.bar(df final["Team"], df final["TournamentChampion"])
         plt.show()
```



team one is a top team, it gets 33 tournamentchampion which is amazinf and the team2 and tean3.

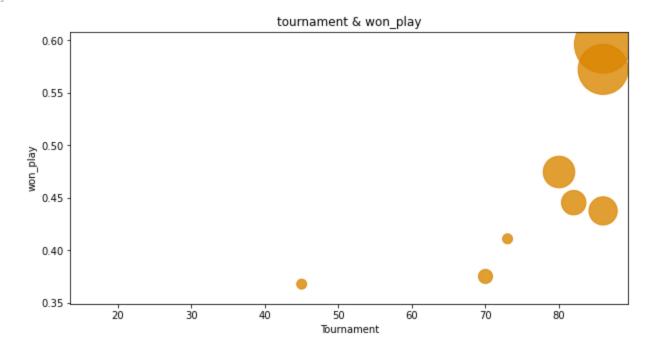
```
In [96]:
    figure, ax = plt.subplots(figsize=(10,5)) #Creates empty plot
    sns.regplot(data = df_final,x = 'WonGames',y = "BasketScored", fit_reg = False, color = '#
    ax.set_xlabel("WonGames")
    ax.set_ylabel("BasketScored")
    ax.set_title("score vs wining")
    #BasketScored BasketGiven TournamentChampion
```

Out[96]: Text(0.5, 1.0, 'score vs wining')



```
figure, ax = plt.subplots(figsize=(10,5)) #Creates empty plot
sns.regplot(data = df_final,x = 'Tournament',y = "won_play", fit_reg = False, color = '#da
ax.set_xlabel("Tournament")
ax.set_ylabel("won_play")
ax.set_title("tournament & won_play")
```

Out[97]: Text(0.5, 1.0, 'tournament & won_play')

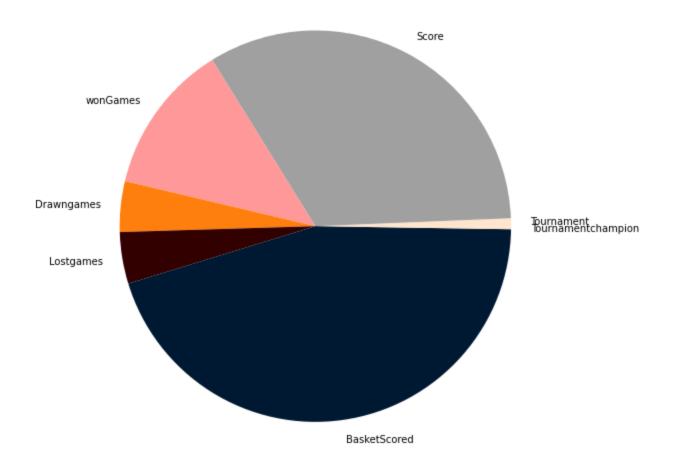


```
In [98]:  #pie chart for team1 (rating all different part)
```

```
df_final.head(1)
```

Out[98]:

٠	Team	Tournament	Score	PlayedGames	WonGames	DrawnGames	LostGames	BasketScored	BasketGiven	Tou
0	Team 1	86	4385	2762	1647	552	563	5947	3140	



From The EDA above, all the indicators refer to that Team1 is the best one then come team2 in the second position, Team1 has the highest relative frequency number in wining games, it took 33 chamion so it is a great deal to collaporate with it.

Part three:

Suggestions:

- According to the data above it is perfect and satisfied for analysis ,but the point is any team have a couch so it should be data for every couch (name-nationality-age-the period of his working time) which lead the team .
- Each team's budget column to see if that affect on the team performance by providing more suitable conditions.