Project: Investigate a Soccer Database

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Introduction

What is Soccer Database?

The ultimate Soccer Database is a collection of tables that contain information regarding players, teams, matches, and more. I shall first introduce you to the structure of the Tables :

Country

Attribute	Type	Describtion		
id	integer	table identifier		
name	text	country name		

League

Describtion	Type	Attribute
table identifier	integer	id
foreign key for country table	integer	country_id
name of league	text	name

Match

Attribute	Туре	Describtion
id	integer	table identifier
country_id	integer	foreign key for country table
league_id	integer	foreign key for the league
season	text	season eg.2018/2019
stage	integer	stage number
date	text	the date of the match
home_team_api_id	integer	the foreign key for the team represents the team who plays in his stadium
away_team_api_id	integer	the foreign key for the team represents the team who doesn't play in his stadium
home_team_goal	integer	number of goals home team has scored in the match
away_team_goal	integer	number of goals away team has scored in the match
home_player_x1	integer	position of the home player x axis
away_player_x1	integer	position of the away player x axis
home_player_y1	integer	position of the home player y axis
away_player_y1	integer	position of the away player y axis
home_player_1	integer	the foreign key for the player table represents the first player of the home team
away_player_1	integer	the foreign key for the player table represents the first player of the away team

XML text to represent the id of each player who made a shot on the targe	text	shoton
XML text to represent the id of each player who made a shot off the targe	text	shotoff
XML text to represent the ids of the players who scored goals and how many	text	goal
XML text to represent the ids of the players who commit fouls	text	foulcommit
XML text to represent the ids of the players who took a [yellow-red] care	text	card
XML text to represent the ids of the players who played corners	text	corner
XML text to represent home and away possession	text	possession
Bookmaker or betting site odds in decimal forma	numeric	B365H
Bookmaker or betting site odds in decimal forma	numeric	B365D

Player

Attribute	Type	Describtion
id	integer	table identifier
player_api_id	integer	unique id
palyer_fifa_api_id	integer	unique id
palyer_name	text	name of the player
birthday	text	palyer birthday
weight	integer	weight of the player
height	integer	height of the player

Player_Attributes

Describtion	Type	Attribute
table identifier	integer	id
foreign key for player table	integer	player_api_id
foreign key for player table	integer	palyer_fifa_api_id
date of the update	text	date
fifa rating	integer	overall_rating
fifa rating	integer	potential
fifa rating	text	preferred_foot

Team

Describtion	Type	Attribute
table identifier	integer	id
unique id	integer	team_api_id
unique id	integer	team_fifa_api_id
team long name	text	team_long_name
team short name	text	team short name

Team_Attributes

Describtion	Туре	Attribute
table identifier	integer	id
foreign key for player table	integer	team_api_id
foreign key for player table	integer	team_fifa_api_id
date of season	text	date

rank from 1 to 100	integer	buildupplayspeed
classification for build up speed	text	buildupplayspeedclass
rank from 1 to 100	integer	buildupplaydribbiling
classification for build up dribbiling	text	buildupplaydribbilingclass

Notes

- · the dots in the tables above mean that the next attributes will have the same sequence and i did't mention them to save time
- · there isn't a key between team table and player table
- I have used tablesgenerator web (https://www.tablesgenerator.com/markdown_tables#) site to write these tables in the markdown cell
- I have found a lot of information about betting websites her (http://www.football-data.co.uk/notes.txt)

Questions

- 1) which team has improved through all seasons in Spain LIGA BBVA?
- 2) How is the player's physical power related to weight and height?
- 3) How did the number of red cards change from 2008 to 2016?

In [1]:

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import os
from sqlalchemy import create_engine
from sqlalchemy.types import Integer
from bs4 import BeautifulSoup
%matplotlib inline
```

Data Wrangling

Sections:

- ▶ Lodaing the data
- ▶ General Properties
- Teams Dataset
- Players Dataset
- Matches Dataset
- Cleaning the data
- Teams_Dataset
- players_Dataset
- Matches_Dataset

Loading Data

Loading Data is one of the most easiest thing with **sql** ,but reading multiple tables each time we want to answer a question lead to code redundency so in the next cell i will make a two functions to do the following:

- Build a connection to our database
- Load the data into a dataframe
- Convert all the columns names to lowercase and replace spaces with "_"
- the second function will load a dataframe into our database

```
In [3]:
```

```
def make_Query(query):
   """This function to make query from database.db
   auery ---
             -----> string -----> the query to be done
   outputs:
         -----> dataframe-----> dataframe contains the query result
   df
   # the path of my database
   path = r"C:\Users\Eslam\Desktop\Eslam\Summer\Data analysis Udacity\Professional\Introduction to data analysis
\Project 2\database.sqlite"
   #bulding a connection with create engine object
   engine = create_engine('sqlite:///'+path)
   df = pd.read sql(query, engine)
   df.rename(columns = lambda name:name.lower().replace(' ',' '),inplace = True)
       types and look for instances of missing or possibly errant data.
   return df
```

In [4]:

```
def load_table( df, name, index = False, datatypes=None):
    this function ask the user for dataframe to load it to our database
    inputs :
    df------> DataFrame -----> dataframe to be converted into a table in database
    name----> string -----> name of the table
    index----> Boolean ------> specify if the table will come with index or not
    datatypes----> dictionary ----> specify datatype for each column such that column name is the key
    outputs :
    None
    """

# the path of my database
    path = r"C:\Users\Eslam\Desktop\Eslam\Summer\Data analysis Udacity\Professional\Introduction to data analysis
\Project 2\database.sqlite"

#bulding a connection with create_engine object
    engine = create_engine('sqlite:///'+path)
    df.to_sql( name, engine, index = index, dtype = datatypes)
```

In [5]:

```
# first of all let's get the team information
query = """
select ta.* ,t.team_short_name,t.team_long_name from Team_Attributes ta
JOIN Team t on(ta.team_api_id = t.team_api_id AND ta.team_fifa_api_id = t.team_fifa_api_id);
"""
df_teams_info = make_Query(query)
```

In [6]:

```
# let's get all the players information
query = """
select p.player_name ,p.birthday,p.height,p.weight,pa.* from Player_Attributes pa
JOIN Player p on(pa.player_api_id = p.player_api_id AND pa.player_fifa_api_id = p.player_fifa_api_id );
"""
df_players_info = make_Query(query)
```

In [7]:

```
query = """
SELECT t1.team_short_name as home_team_short_name,t1.team_long_name as home_team_long_name,
t2.team_short_name as away_team_short_name,t2.team_long_name as away_team_long_name,
l.name as league_name,
m.*
FROM Team t1
JOIN Match m on (t1.team_api_id = m.home_team_api_id)
JOIN Team t2 on (t2.team_api_id = m.away_team_api_id)
JOIN League l on(m.league_id = l.id);
df_mathces_info = make_Query(query)
```

General Properties

let's explore our data shape , columns names , datatypes , null values , duplicates and unique values

```
In [8]:
```

```
def explore_dataset(df):
    this function to print the main properties of any data set
    inputs:
    df----> dataframe ----> dataframe object
    outputs:
    None
    num rows = df.shape[0]
    num columns = df.shape[1]
    column_nulls = df.isnull().sum()
    total_nulls = df.isnull().sum().sum()
    num_duplicates = df.duplicated().sum()
    print("we have {} rows and {} columns ".format(num_rows,num_columns))
    print("\n","_"*50)
    for column in df.columns :
    print("column name : ",column,"\n")
        print("column datatype : ",type(df[column][0]),"\n")
         print("unique values : \n{}\nwith total {}".format(df[column].unique(),df[column].nunique())) 
    print("\n","_"*20)
print("\n","_"*50)
    print("columns with null values count :\n {} \n with total {}".format(column_nulls,total_nulls))
    print("\n","_"*50)
    print("columns with duplicates count :\n{}".format(num duplicates))
    print("\n"," "*50)
```

Teams Dataset

In [9]:

```
# first 5 rows of data
df_teams_info.head()
```

Out[9]:

id	team_fifa_api_id	team_api_id	date	buildupplayspeed	buildupplayspeedclass	buildupplaydribbling	buildupplaydribblingclass
0 1	434	9930	2010- 02-22 00:00:00	60	Balanced	NaN	Little
1 2	434	9930	2014- 09-19 00:00:00	52	Balanced	48.0	Normal
2 3	434	9930	2015- 09-10 00:00:00	47	Balanced	41.0	Normal
3 4	77	8485	2010- 02-22 00:00:00	70	Fast	NaN	Little
4 5	77	8485	2011- 02-22 00:00:00	47	Balanced	NaN	Little

In [10]:

```
# teams information dataset
explore_dataset(df_teams_info)
```

229 1530

we have 1458 rows and 27 columns

```
column name : id

column datatype : <class 'numpy.int64'>
  unique values :
[ 1 2 3 ... 1456 1457 1458]
  with total 1458

column name : team_fifa_api_id

column datatype : <class 'numpy.int64'>
  unique values :
[ 434 77 614 47 1901 650 245 1861
```

										_
111082	111989	150	112513	1	2	39	448	240	100409	
57	1906	241	1848	896	32	21	675	1897	1889	
1714	234	88	3	1926	1898	160	189	4	59	
22		111376	1943	1896	190	378	1796	210	1842	
647		112409		450	78		110915	5	192	
231		110747		110502	635		110569	180	181	
182	467	110500	1824	468	1746	162	452	10020	2013	
7		1971	79		100626	1915	236	1903	286	
894		110374			111657	144		110556	674	
	110316			100632				322	1805	
165	62	28	184	485		100634		166	81	
10029	1952	111239	44		110745	45	29	1832	82	
111083		111239	472	1862	46	1738	1739	347	873	
111003	1871	95	10018	64	1853	239	65	9	1844	
301	2007	217	897	66	169	573	453	10	1044	
1893	219	68	12	69	1747	70	1900		111560	
1904	1891	1823		100737	1910	13	72		1112225	
171	477		111540	682		100087	1892	10030	1843	
73	50	1754		100741		111086			1570	
1790	247	1734	456	86	480	1793	449	243	457	
571	203	379	74	744	1905	1838	1902	546	52 52	
631	203 874	1819		111974	58	1913	34	324	481	
110770		226		100646	670	237	459	48	898	
100805		100804	680	232	1806	106	1960	260	1715	
54	110329	1809	294	1908	55	1895		110456	462	
206	36	483	1909	1887		100651		1795	38	
109	19	681	1909	1907	1873	175	110913	435	36 1742	
						1/5	110	433	1/42	
	110749	244	112512	15005]						
with to	Lat 285									
column r		+00m	ni id							
column r	iaille :	realii_d	api_id							
column d			.1		+641					
Co Lumin (засасур	2 : <0	class i	iumpy. Ii	1104 >					
		_								
	values		0564	10215	10217	0502	0065	0625	0121	
[9930	8485	8576	8564	10215	10217	8593	9865	8635	8121	
	108893		158085	9825	10252	8524	8315	9906	8406	
8583	10229	8634	9976	9931	8178	9823	9993	10211	9807	
6493	9772	8658	8655	8483	8613	9911	9857	8559	9827	
9789	9788	4170	8678	10264	9858	8521	8191	7819	8529	
7788		208931	8530	9910	9925	9984	9880	8455	8533	
8342	7869	2186	9826	8262	8526	9783	9836	8284	9938	
8457	8372	9776	9810	10268	8534	8398	8558	7842	6351	

10000]

date column name :

with total 288

<class 'str'> column datatype :

unique values :

['2010-02-22 00:00:00' '2014-09-19 00:00:00' '2015-09-10 00:00:00' '2011-02-22 00:00:00' '2012-02-22 00:00:00' '2013-09-20 00:00:00']

with total 6

column name : buildupplayspeed

<class 'numpy.int64'> column datatype :

unique values :

```
[60 52 47 70 58 62 59 65 45 48 30 53 38 56 40 31 35 55 42 46 50 23 41 39
 69 66 75 25 67 63 64 57 68 43 24 36 61 73 37 51 44 49 71 74 76 54 32 80
34 72 29 78 33 26 28 20 77]
with total 57
                buildupplayspeedclass
column name :
column datatype : <class 'str'>
 unique values :
['Balanced' 'Fast' 'Slow']
with total 3
column name : buildupplaydribbling
column datatype : <class 'numpy.float64'>
 unique values :
[nan 48. 41. 64. 57. 70. 53. 47. 40. 43. 46. 61. 49. 66. 51. 32. 37. 45.
52. 50. 38. 55. 35. 63. 30. 29. 34. 24. 39. 31. 60. 44. 36. 56. 54. 33. 59. 58. 42. 69. 62. 67. 65. 77. 28. 68. 71. 26. 27. 74.]
with total 49
column name : buildupplaydribblingclass
column datatype : <class 'str'>
 unique values :
['Little' 'Normal' 'Lots']
with total 3
column name : buildupplaypassing
column datatype : <class 'numpy.int64'>
 unique values :
[50 56 54 70 52 62 45 53 40 30 44 35 47 55 66 38 33 39 65 41 51 37 48 58
 32 29 26 59 72 36 69 49 31 46 34 25 57 22 28 60 79 75 64 73 61 43 27 74
 67 42 68 77 71 63 24 20 23 80]
with total 58
column name : buildupplaypassingclass
column datatype : <class 'str'>
unique values :
['Mixed' 'Long' 'Short']
with total 3
column name : buildupplaypositioningclass
column datatype : <class 'str'>
unique values :
['Organised' 'Free Form']
with total 2
column name : chancecreationpassing
column datatype : <class 'numpy.int64'>
 unique values :
[60 54 70 53 45 40 56 51 65 48 55 50 66 30 67 39 58 57 68 35 52 33 49 41
 28 44 63 38 36 61 47 59 37 77 34 21 43 69 32 42 72 46 62 71 64 73 31 80
 76 291
with total 50
column name : chancecreationpassingclass
column datatype : <class 'str'>
 unique values :
['Normal' 'Risky' 'Safe']
with total 3
```

```
column name : chancecreationcrossing
column datatype : <class 'numpy.int64'>
 unique values :
[65 63 70 48 50 68 72 35 34 38 45 60 20 53 36 57 51 67 55 52 64 54 62 40
 33 59 44 30 47 49 78 73 69 74 56 25 24 31 66 46 37 71 61 58 43 26 42 77
 39 41 76 27 80 23 75 32]
with total 56
column name : chancecreationcrossingclass
column datatype : <class 'str'>
unique values :
['Normal' 'Lots' 'Little']
with total 3
column name : chancecreationshooting
column datatype : <class 'numpy.int64'>
 unique values :
[55 64 70 52 57 63 50 75 69 60 65 66 44 38 67 46 39 30 40 47 48 35 43 42
 56 34 51 59 37 36 79 54 49 72 53 68 61 22 41 58 45 76 73 62 80 78 33 32
71 28 31 23 77 24 27 74 29]
with total 57
column name : chancecreationshootingclass
column datatype : <class 'str'>
 unique values :
['Normal' 'Lots' 'Little']
with total 3
column name :
               chancecreationpositioningclass
column datatype : <class 'str'>
 unique values :
['Organised' 'Free Form']
with total 2
column name : defencepressure
column datatype : <class 'numpy.int64'>
 unique values :
[50 47 60 40 42 41 49 30 45 38 48 58 52 39 46 57 65 68 64 70 37 53 44 25
 36 35 51 43 55 54 59 33 34 67 66 61 72 32 28 27 23 24 63 31 26 29 56 62]
with total 48
column name : defencepressureclass
column datatype : <class 'str'>
unique values :
['Medium' 'Deep' 'High']
with total 3
column name : defenceaggression
column datatype : <class 'numpy.int64'>
 unique values :
[55 44 70 47 40 42 45 35 50 49 57 30 38 62 58 65 53 68 43 48 32 54 37 39
41 66 63 67 60 34 61 51 46 72 52 59 56 33 69 71 64 27 28 36 24 31 29]
with total 47
column name :
               defenceaggressionclass
```

column datatuna . . .class letala

column datatype : <class 'str'>

```
unique values :
['Press' 'Double' 'Contain']
with total 3
                  defenceteamwidth
column name :
                      <class 'numpy.int64'>
column datatype :
 unique values :
[45 54 70 52 60 63 30 50 53 49 65 61 62 64 59 67 51 35 36 58 57 48 37 55
 68 42 56 41 40 66 47 38 46 43 39 44 33 69 32 34 29 31 73]
with total 43
column name :
                  defenceteamwidthclass
column datatype : <class 'str'>
 unique values :
['Normal' 'Wide' 'Narrow']
with total 3
column name :
                  defencedefenderlineclass
column datatype :
                      <class 'str'>
 unique values :
['Cover' 'Offside Trap']
with total 2
column name :
                  team short name
column datatype : <class 'str'>
 unique values :
['AAR' 'ABE' 'AJA'
                     'ACM' 'ACA' 'HAA' 'ALM' 'AND'
                                                        'ANG'
                                                                'ARK'
                                                                     'ARL' 'BIE'
 'ARO' 'ARS' 'AVL'
                      'ATA' 'BIL' 'AMA'
                                          ' AUG '
                                                                'BAR'
                                                                             'LEV'
                                                 'AUX'
                                                         'ALK'
                                                                      'BAS'
 'BMU' 'BAC' 'B-M'
                     'BEL' 'BEN' 'BIR'
                                          'BLB' 'BLA'
                                                                      'BOL' 'BOR'
                                                       'B0A'
                                                                'B0C'
 'DOR' 'GLA' 'BOU'
                      'BRA'
                             'BRE'
                                    'BUR'
                                          'CAE'
                                                 'CAG'
                                                        'CAM'
                                                               'CAR'
                                                                      'CAP'
                                                                             'CAT
 'CEL' 'CEB'
                             'CHI'
              'CES'
                      'CHE'
                                    'CLB'
                                          'COR'
                                                 'CKR'
                                                        'CRY'
                                                                      'GRA'
                                                               'DAR'
                                                                             'DIJ'
 'DUF' 'DUU' 'DUN' 'EIB' 'EFR' 'ELC'
                                          'EMP' 'COT' 'ESP'
                                                                      'EUP' 'EVE'
                                                               'EST'
 'ETG' 'EXC' 'FAL' 'FCK' 'GRO' 'POR' 'UTR' 'VAD' 'ZUR' 'FEY' 'FIO' 'FDU'
       'FRO' 'FUL' 'GEN' 'GET' 'GAJ' 'GV' 'GAE' 'LEC' 'GOR' 'GRE' 'GRF'
 'FRE'
                                          'HIB' 'HOF' 'HUL'
                                                               'ING' 'INT'
 'GUI'
        'HAM'
              'HAN'
                     'HEA'
                            'HER'
                                   'HBE'
                                                                             'INV
 'BIA' 'JUV'
               'KAI' 'KAR' 'KIL' 'KKI' 'KOR' 'MEC' 'LAS'
                                                               'LAU' 'LAZ'
 'LEM' 'POZ' 'LGD' 'LEG' 'LEI' 'LEN' 'LIE' 'LIL' 'LIV'
                                                              'LOD' 'LOK' 'LOR'
 'LUZ'
        'LYO'
               'MAI'
                     'MAL'
                             'MCI'
                                   'MUN' 'MAR'
                                                 'MET' 'MID'
                                                               'MON'
                                                                      'MOR'
                                                                             'MOT
                     'NAN'
 'MOP' 'MOU'
                            'NAV'
                                          'NEW' 'NIC'
                                                       'NOR'
               'NAC'
                                    'NEC'
                                                               'NOV'
                                                                      'NUR'
                                                                             ' NUM '
 'ODR' 'OLH'
               '00S'
                      '0SA'
                            '0-H'
                                    'FER' 'PAD' 'PAL' 'PSG'
                                                               'PAR'
                                                                      ' ZWO '
                                                                             'PEN'
                            'POB' 'PWA' 'PSV' 'QPR' 'SAN'
                                                               'RAN' 'RAY' 'REA'
 'PES' 'PIG'
              'POD'
                     ' P0G '
                                    'REN' 'RA' 'RKC' 'SIE'
 'BET'
       'S0C'
               'HUE'
                      'REG'
                             'REI'
                                                              'ROD' 'ROS' 'ROM'
                                                                     'SOU' 'SPA'
                             'HEE'
                                    'S04'
                                          'SER' 'SEV' 'SIO'
 ' CH0 '
        'ETI'
               'SAM'
                      'SAS'
                                                               'SLA'
                                    'MIR' 'STP' 'JOH' 'STT'
               'SPG'
                      'NAP'
                             'GAL'
                                                               'STL'
                                                                      'STK'
 'CHA' 'SCP'
       'TEN'
              'THU'
                            'TOT' 'TOU' 'TRO' 'TWE' 'UDI'
                                                              'ULE' 'VAL' 'VER'
                     'T0R'
 'SWA'
 'STU' 'VIL' 'VIT' 'SET' 'VEN' 'WAA' 'WAT' 'WBR' 'WBA' 'WHU' 'WES' 'WIG' 'WII' 'WIS' 'WOL' 'XAM' 'XER' 'YB' 'ZAG' 'ZAR' 'ZAW' 'ZUL']
                                                              'WHU' 'WES'
with total 251
column name : team long name
column datatype : <class 'str'>
 unique values :
['FC Aarau' 'Aberdeen' 'AC Ajaccio' 'Milan' 'Académica de Coimbra'
 'ADO Den Haag' 'Ajax' 'UD Almería' 'RSC Anderlecht' 'Angers SCO'
'Arka Gdynia' 'AC Arles-Avignon' 'DSC Arminia Bielefeld' 'FC Arouca'
 'Arsenal' 'Aston Villa' 'Atalanta' 'Athletic Club de Bilbao' 'Atlético Madrid' 'FC Augsburg' 'AJ Auxerre' 'AZ' 'FC Barcelona' 'Bari'
 'FC Basel' 'Bayer 04 Leverkusen' 'FC Bayern Munich' 'Beerschot AC'
 'SC Beira Mar' 'CF Os Belenenses' 'AC Bellinzona' 'SL Benfica'
 'Birmingham City' 'Blackburn Rovers' 'Blackpool' 'Boavista FC
 'VfL Bochum' 'Bologna' 'Bolton Wanderers' 'Girondins de Bordeaux'
 'Borussia Dortmund' 'Borussia Mönchengladbach' "US Boulogne Cote D'Opale"
 'Bournemouth' 'SC Braga' 'Brescia' 'Stade Brestois 29' 'Burnley' 'SM Caen' 'Cagliari' 'SC Cambuur' 'Cardiff City' 'Carpi' 'Catania' 'RC Celta de Vigo' 'Celtic' 'KSV Cercle Brugge' 'Cesena' 'Chelsea'
 'Chievo Verona' 'Club Brugge KV' 'Córdoba CF' 'Cracovia' 'Crystal Palace'
 'SV Darmstadt 98' 'De Graafschap' 'RC Deportivo de La Coruña'
 'Dundee FC' 'Dundee United' 'Dunfermline Athletic' 'SD Eibar'
```

```
'Eintracht Braunschweig' 'Eintracht Frankfurt' 'Elche CF' 'Empoli'
 'FC Energie Cottbus' 'RCD Espanyol' 'Estoril Praia' 'KAS Eupen' 'Everton'
 'Évian Thonon Gaillard FC' 'Excelsior' 'Falkirk' '1. FC Köln'
 'FC Dordrecht' 'FC Groningen' 'FC Porto' 'FC Utrecht' 'FC Vaduz'
 'FC Zürich' 'Feyenoord' 'Fiorentina' 'Fortuna Düsseldorf' 'SC Freiburg' 'Frosinone' 'Fulham' 'KRC Genk' 'Genoa' 'KAA Gent' 'Getafe CF' 'GFC Ajaccio' 'Gil Vicente FC' 'GKS Bełchatów' 'Go Ahead Eagles'
 'Górnik Łęczna' 'Polonia Bytom' 'Granada CF' 'Grasshopper Club Zürich'
 'Grenoble Foot 38' 'SpVgg Greuther Fürth' 'En Avant de Guingamp'
 'Hamburger SV' 'Hamilton Academical FC' 'Hannover 96'
'Heart of Midlothian' 'Heracles Almelo' 'Hércules Club de Fútbol'
 'Hertha BSC Berlin' 'Hibernian' 'TSG 1899 Hoffenheim' 'Hull City'
 'FC Ingolstadt 04' 'Inter' 'Inverness Caledonian Thistle'
 'Jagiellonia Białystok' 'Juventus' '1. FC Kaiserslautern' 'Karlsruher SC' 'Kilmarnock' 'Korona Kielce' 'KV Kortrijk' 'KV Mechelen' 'UD Las Palmas' 'FC Lausanne-Sports' 'Lazio' 'Le Havre AC' 'Le Mans FC' 'Lecce'
 'Lech Poznań' 'Lechia Gdańsk' 'Legia Warszawa' 'Leicester City'
 'Leixões SC' 'RC Lens' 'Levante UD' 'Lierse SK' 'LOSC Lille' 'Liverpool' 'Livorno' 'Widzew Łódź' 'Sporting Lokeren' 'FC Lorient' 'FC Luzern' 'Olympique Lyonnais' '1. FSV Mainz 05' 'Málaga CF' 'RCD Mallorca' 'Manchester City' 'Manchester United' 'CS Marítimo'
  'Olympique de Marseille' 'FC Metz' 'Middlesbrough' 'AS Monaco'
  'RAÉC Mons' 'Montpellier Hérault SC' 'Moreirense FC' 'Motherwell'
  'Royal Excel Mouscron' 'NAC Breda' 'CD Nacional' 'AS Nancy-Lorraine'
 'FC Nantes' 'Naval 1° de Maio' 'N.E.C.' 'Newcastle United' 'OGC Nice'
 'Norwich City' 'Novara' '1. FC Nürnberg' 'CD Numancia' 'Odra Wodzisław' 'S.C. Olhanense' 'KV Oostende' 'CA Osasuna' 'Oud-Heverlee Leuven'
 'FC Paços de Ferreira' 'SC Paderborn 07' 'Palermo' 'Paris Saint-Germain'
 'Parma' 'Partick Thistle F.C.' 'PEC Zwolle' 'FC Penafiel' 'Pescara'
  'Piast Gliwice' 'Podbeskidzie Bielsko-Biała' 'Pogoń Szczecin'
 'P. Warszawa' 'Portsmouth' 'PSV' 'Queens Park Rangers' 'Racing Santander' 'Rangers' 'Rayo Vallecano' 'Reading' 'Real Betis Balompié'
 'Real Madrid CF' 'Real Sociedad' 'RC Recreativo' 'Reggio Calabria'
 'Stade de Reims' 'Stade Rennais FC' 'Rio Ave FC' 'RKC Waalwijk' 'Siena' 'Roda JC Kerkrade' 'KSV Roeselare' 'Roma' 'Ross County FC' 'Ruch Chorzów' 'AS Saint-Étienne' 'Sampdoria' 'Sassuolo' 'SC Bastia' 'SC Heerenveen' 'FC Schalke 04' 'Servette FC' 'Sevilla FC' 'FC Sion' 'Śląsk Wrocław'
 'FC Sochaux-Montbéliard' 'Southampton' 'Sparta Rotterdam'
 'Sporting Charleroi' 'Sporting CP' 'Real Sporting de Gijón' 'Napoli'
 'Sporting Charlerol' Sporting Cr Keal Sporting de Gijon Napoli
'FC St. Gallen' 'St. Mirren' 'FC St. Pauli' 'St. Johnstone FC'
'Sint-Truidense VV' 'Standard de Liège' 'Stoke City' 'Sunderland'
'Swansea City' 'CD Tenerife' 'FC Thun' 'Torino' 'Tottenham Hotspur'
'Toulouse FC' 'ES Troyes AC' 'FC Twente' 'Udinese' 'União de Leiria, SAD'
'Valencia CF' 'Valenciennes FC' 'Real Valladolid' 'Hellas Verona'
 'VfB Stuttgart' 'Villarreal CF' 'Vitesse' 'Vitória Guimarães'
  'Vitória Setúbal' 'VVV-Venlo' 'Waasland-Beveren' 'Watford'
 'SV Werder Bremen' 'West Bromwich Albion' 'West Ham United'
 'KVC Westerlo' 'Wigan Athletic' 'Willem II' 'Wisła Kraków'
 'VfL Wolfsburg' 'Wolverhampton Wanderers' 'Neuchâtel Xamax' 'Xerez Club Deportivo' 'BSC Young Boys' 'Zagłębie Lubin' 'Real Zaragoza'
  'Zawisza Bydgoszcz' 'SV Zulte-Waregem']
with total 285
```

columns with null values count : id 0 team_fifa_api_id 0 team_api_id date Θ buildupplayspeed 0 Θ buildupplayspeedclass 969 buildupplaydribbling buildupplaydribblingclass 0 buildupplaypassing buildupplaypassingclass 0 buildupplaypositioningclass chancecreationpassing chancecreationpassingclass chancecreationcrossing chancecreationcrossingclass Θ chancecreationshooting chancecreationshootingclass chancecreationpositioningclass 0 defencepressure 0 defencepressureclass defenceaggression defenceaggressionclass defenceteamwidth 0 defenceteamwidthclass defencedefenderlineclass team_short_name

columns with duplicates count :

In [11]:

with total 969

print some summary statistics about this data df_teams_info.describe()

Out[11]:

	id	team_fifa_api_id	team_api_id	buildupplayspeed	buildupplaydribbling	buildupplaypassing	chancecreationpassing
count	1458.000000	1458.000000	1458.000000	1458.000000	489.000000	1458.000000	1458.000000
mean	729.500000	17706.982167	9995.727023	52.462277	48.607362	48.490398	52.165295
std	421.032659	39179.857739	13264.869900	11.545869	9.678290	10.896101	10.360793
min	1.000000	1.000000	1601.000000	20.000000	24.000000	20.000000	21.000000
25%	365.250000	110.000000	8457.750000	45.000000	42.000000	40.000000	46.000000
50%	729.500000	485.000000	8674.000000	52.000000	49.000000	50.000000	52.000000
75%	1093.750000	1900.000000	9904.000000	62.000000	55.000000	55.000000	59.000000
max	1458.000000	112513.000000	274581.000000	80.0000	77.000000	80.000000	80.000000

- it seems that each team appears alot but with different date value
- id,team_fifa_api_id and team_api_id are unnecessary
- date attribute need to be coverted to date datatype
- date attribute ranges from 2010 to 2015
- all the attributes that have class at the end are categorical
- the rest of the attributes are continous random variables
- buildupplaydribbling attribute has a lot of null values so we have to drop it

Players Dataset

In [12]:

first 5 rows of dataset df_players_info.head()

Out[12]:

	player_name	birthday	height	weight	id	player_fifa_api_id	player_api_id	date	overall_rating	potential	 vision	penalties
0	Aaron Appindangoye	1992- 02-29 00:00:00	182.88	187	1	218353	505942	2016- 02-18 00:00:00	67.0	71.0	 54.0	48.0
1	Aaron Appindangoye	1992- 02-29 00:00:00	182.88	187	2	218353	505942	2015- 11-19 00:00:00	67.0	71.0	 54.0	48.0
2	Aaron Appindangoye	1992- 02-29 00:00:00	182.88	187	3	218353	505942	2015- 09-21 00:00:00	62.0	66.0	 54.0	48.0
3	Aaron Appindangoye	1992- 02-29 00:00:00	182.88	187	4	218353	505942	2015- 03-20 00:00:00	61.0	65.0	 53.0	47.0
4	Aaron Appindangoye	1992- 02-29 00:00:00	182.88	187	5	218353	505942	2007- 02-22 00:00:00	61.0	65.0	 53.0	47.0
5 rows x 46 columns												

In [13]:

players information dataset explore_dataset(df_players_info)

we have 183766 rows and 46 columns

column name : player_name

```
column datatype : <class 'str'>
 unique values :
['Aaron Appindangoye' 'Aaron Cresswell' 'Aaron Doran' ... 'Zsolt Low'
 'Zurab Khizanishvili' 'Zvjezdan Misimovic']
with total 10848
column name :
                birthday
column datatype : <class 'str'>
unique values :
['1992-02-29 00:00:00' '1989-12-15 00:00:00' '1991-05-13 00:00:00' ...
 '1996-01-10 00:00:00' '1986-12-18 00:00:00' '1979-04-29 00:00:00']
with total 5762
column name :
              height
column datatype : <class 'numpy.float64'>
 unique values :
[182.88 170.18 172.72 165.1 190.5 175.26 187.96 177.8 185.42 180.34
 200.66 198.12 193.04 167.64 195.58 162.56 203.2 160.02 157.48 208.28]
with total 20
column name :
               weight
column datatype : <class 'numpy.int64'>
 unique values :
[187 146 163 198 154 161 139 181 170 150 168 143 176 159 185 172 165 157
 179 174 212 218 190 148 152 141 132 201 183 205 194 137 203 196 126 192
134 214 130 209 128 207 216 123 220 225 227 117 243 121]
with total 50
column name : id
column datatype : <class 'numpy.int64'>
unique values :
     1
            2
                   3 ... 183976 183977 183978]
with total 183766
column name : player_fifa_api_id
column datatype :
                  <class 'numpy.int64'>
 unique values :
[218353 189615 186170 ... 111191 47058 102359]
with total 11060
column name : player_api_id
column datatype : <class 'numpy.int64'>
 unique values :
[505942 155782 162549 ... 36491 35506 39902]
with total 11060
column name : date
column datatype : <class 'str'>
 unique values :
['2016-02-18 00:00:00' '2015-11-19 00:00:00' '2015-09-21 00:00:00'
 '2015-03-20 00:00:00' '2007-02-22 00:00:00' '2016-04-21 00:00:00'
 '2016-04-07 00:00:00' '2016-01-07 00:00:00' '2015-12-24 00:00:00'
 '2015-12-17 00:00:00' '2015-10-16 00:00:00' '2015-09-25 00:00:00'
 '2015-01-09 00:00:00' '2014-12-05 00:00:00' '2014-11-07 00:00:00'
 '2014-09-18 00:00:00' '2014-05-02 00:00:00' '2014-04-04 00:00:00'
 '2014-03-14 00:00:00' '2013-12-13 00:00:00' '2013-11-08 00:00:00'
 '2013-10-04 00:00:00' '2013-09-20 00:00:00' '2013-05-03 00:00:00'
 '2013-03-22 00:00:00' '2013-03-15 00:00:00' '2013-02-22 00:00:00'
 '2013-02-15 00:00:00' '2012-08-31 00:00:00' '2012-02-22 00:00:00'
 '2011-08-30 00:00:00' '2010-08-30 00:00:00' '2010-02-22 00:00:00'
 '2009-08-30 00:00:00' '2009-02-22 00:00:00' '2008-08-30 00:00:00'
```

```
'2015-10-09 00:00:00' '2014-12-12 00:00:00' '2014-04-18 00:00:00'
 '2014-01-31 00:00:00' '2013-11-29 00:00:00' '2013-05-31 00:00:00'
 2013-04-26 00:00:00'
                       '2013-04-19 00:00:00'
                                              '2013-04-05 00:00:00'
                       '2011-02-22 00:00:00'
                                              '2015-10-02 00:00:00'
 '2013-03-08 00:00:00'
 '2015-07-03 00:00:00'
                       '2015-06-12 00:00:00' '2015-01-16 00:00:00'
 '2014-11-14 00:00:00'
                       '2014-06-06 00:00:00'
                                             '2014-04-11 00:00:00'
                                             '2015-05-08 00:00:00'
 '2013-05-10 00:00:00'
                       '2007-08-30 00:00:00'
 '2015-04-10 00:00:00'
                       '2014-01-17 00:00:00' '2016-04-28 00:00:00'
 '2016-02-25 00:00:00'
                       '2015-09-04 00:00:00' '2014-02-28 00:00:00'
                       '2013-10-18 00:00:00' '2016-02-04 00:00:00'
 '2014-02-14 00:00:00'
 '2014-10-02 00:00:00'
                       '2015-06-05 00:00:00' '2015-02-06 00:00:00'
                       '2014-02-07 00:00:00' '2013-11-01 00:00:00'
 '2014-03-21 00:00:00'
 '2013-05-24 00:00:00'
                       '2016-01-28 00:00:00' '2014-12-27 00:00:00'
                       '2014-10-10 00:00:00' '2015-12-03 00:00:00'
 '2014-10-31 00:00:00'
 '2015-11-26 00:00:00'
                       '2015-10-30 00:00:00' '2014-01-03 00:00:00'
                       '2016-01-21 00:00:00' '2015-11-06 00:00:00'
 '2013-03-01 00:00:00'
                       '2015-05-15 00:00:00' '2015-02-13 00:00:00'
 '2015-05-22 00:00:00'
                       '2014-09-19 00:00:00' '2013-11-22 00:00:00'
 '2015-01-30 00:00:00'
 '2014-04-25 00:00:00'
                       '2013-12-27 00:00:00' '2016-04-14 00:00:00'
 '2015-11-12 00:00:00'
                       '2015-03-06 00:00:00'
                                              '2013-12-20 00:00:00'
 '2016-03-10 00:00:00'
                       '2016-03-03 00:00:00' '2014-12-19 00:00:00'
                                             '2013-10-11 00:00:00'
 '2013-12-06 00:00:00'
                       '2013-10-25 00:00:00'
                       '2013-08-16 00:00:00' '2015-02-27 00:00:00'
 '2013-09-27 00:00:00'
                       '2014-01-10 00:00:00' '2016-05-12 00:00:00'
 '2015-01-02 00:00:00'
 '2016-01-14 00:00:00' '2016-06-23 00:00:00' '2013-03-28 00:00:00'
 '2016-03-17 00:00:00' '2014-07-18 00:00:00' '2013-06-07 00:00:00'
 '2015-01-23 00:00:00'
                       '2015-05-29 00:00:00' '2014-05-16 00:00:00'
                       '2013-04-12 00:00:00' '2014-10-24 00:00:00'
 '2014-05-09 00:00:00'
 '2014-11-28 00:00:00' '2014-11-26 00:00:00' '2013-05-17 00:00:00'
                       '2016-03-24 00:00:00' '2015-03-27 00:00:00'
 '2016-06-09 00:00:00'
                       '2014-03-07 00:00:00' '2014-02-21 00:00:00'
 '2014-03-28 00:00:00'
                       '2015-12-10 00:00:00' '2016-03-31 00:00:00'
 '2014-01-24 00:00:00'
 '2015-04-17 00:00:00' '2015-04-01 00:00:00' '2008-02-22 00:00:00'
 '2015-02-20 00:00:00' '2016-05-05 00:00:00' '2016-02-11 00:00:00'
                       '2014-07-25 00:00:00' '2013-07-12 00:00:00'
 '2014-11-21 00:00:00'
 '2014-10-17 00:00:00'
                       '2013-07-05 00:00:00' '2015-10-23 00:00:00'
 '2015-03-13 00:00:00'
                       '2013-11-15 00:00:00' '2016-02-19 00:00:00'
 '2015-04-24 00:00:00'
                       '2015-08-14 00:00:00' '2016-07-07 00:00:00'
 '2014-05-30 00:00:00'
                       '2014-09-23 00:00:00' '2016-06-02 00:00:00'
 '2016-05-19 00:00:00' '2015-05-01 00:00:00' '2014-05-23 00:00:00'
 '2016-06-16 00:00:00' '2015-03-10 00:00:00' '2013-09-06 00:00:00'
 '2015-10-19 00:00:00' '2013-06-14 00:00:00' '2016-05-26 00:00:00'
                       '2015-07-31 00:00:00' '2013-08-23 00:00:00'
 '2015-08-27 00:00:00'
 '2013-08-30 00:00:00' '2013-08-09 00:00:00' '2015-07-24 00:00:00'
 '2014-08-22 00:00:00' '2014-08-15 00:00:00' '2014-08-08 00:00:00'
 '2013-07-26 00:00:00' '2015-01-26 00:00:00' '2013-06-21 00:00:00'
                       '2013-08-02 00:00:00' '2013-07-19 00:00:00'
 '2013-06-28 00:00:00'
 '2015-07-10 00:00:00' '2014-09-12 00:00:00' '2013-09-13 00:00:00'
 '2015-12-30 00:00:00' '2014-08-29 00:00:00' '2015-08-21 00:00:00'
 '2016-06-30 00:00:00' '2015-07-16 00:00:00' '2014-08-01 00:00:00'
                                              '2015-01-28 00:00:00'
                       '2013-03-04 00:00:00'
 '2015-08-07 00:00:00'
 '2014-09-05 00:00:00' '2015-06-19 00:00:00' '2014-09-26 00:00:00'
 '2015-09-10 00:00:00' '2015-06-26 00:00:00' '2015-09-01 00:00:00'
 2016-02-13 00:00:00' '2014-07-20 00:00:00']
with total 197
column name :
                overall rating
column datatype : <class 'numpy.float64'>
 unique values :
[67. 62. 61. 74. 73. 71. 70. 69. 68. 65. 64. 54. 51. 52. 47. 53. 66. 59.
 75. 72. 76. 78. 77. 79. 60. 80. 81. 82. 84. 48. 63. 83. 55. 58. 50. 56.
 nan 49. 57. 42. 46. 45. 85. 44. 86. 89. 87. 88. 91. 40. 90. 41. 43. 38.
 93. 92. 39. 33. 36. 37. 35. 94.]
with total 61
column name :
                potential
column datatype :
                    <class 'numpy.float64'>
 unique values :
[71. 66. 65. 76. 75. 77. 78. 79. 80. 68. 64. 60. 67. 70. 72. 69. 82. 73.
 74. 81. 83. 86. 84. 85. 87. 90. 56. 57. 63. 62. 61. nan 59. 55. 58. 53.
 89. 54. 88. 52. 91. 92. 93. 51. 46. 44. 50. 47. 45. 95. 94. 48. 49. 42.
 97. 96. 39.]
with total 56
```

```
column datatype : <class 'str'>
unique values :
['right' 'left' None]
with total 2
column name : attacking work rate
column datatype : <class 'str'>
 unique values :
['medium' 'high' None 'low' 'None' 'le' 'norm' 'stoc' 'y']
with total 8
column name :
                   defensive_work_rate
column datatype : <class 'str'>
unique values :
['medium' 'high' 'low' '_0' None '5' 'ean' 'o' '1' 'ormal' '7' '2' '8' '4' 'tocky' '0' '3' '6' '9' 'es']
with total 19
column name :
                  crossing
column datatype : <class 'numpy.float64'>
 unique values :
[49.\ \ 48.\ \ 80.\ \ 79.\ \ 78.\ \ 77.\ \ 74.\ \ 58.\ \ 57.\ \ 22.\ \ 64.\ \ 65.\ \ 67.\ \ 69.\ \ 72.\ \ 73.\ \ 63.\ \ 56.
 59. 60. 46. 45. 75. 76. 47. 82. 71. 12. 62. 26. 70. 66. 40. 53. 55. 54.
61. 39. 41. 42. 52. 68. nan 35. 34. 50. 38. 84. 81. 25. 11. 6. 23. 29. 36. 44. 43. 51. 32. 33. 15. 14. 9. 21. 28. 20. 37. 19. 18. 83. 8. 31. 24. 92. 10. 30. 27. 86. 90. 88. 13. 17. 85. 87. 16. 91. 93. 3. 89. 7.
  5. 4. 94. 95. 2. 1.]
with total 95
column name :
                   finishing
column datatype :
                       <class 'numpy.float64'>
 unique values :
[44. 43. 53. 52. 51. 50. 40. 39. 48. 58. 56. 61. 69. 21. 20. 34. 33. 57. 72. 73. 74. 71. 77. 79. 32. 31. 66. 65. 67. 68. 70. 62. 64. 15. 42. 41.
 45. 63. 54. 23. 75. 76. 26. 25. 55. 29. 17. 16. 22. 60. 37. nan 30. 49.
 47. 46. 38. 28. 27. 80. 78. 11. 10. 18. 59. 36. 82. 13. 9. 5. 8. 35.
 14. 24. 81. 88. 92. 83. 84. 86. 90. 89. 93. 85. 19. 6. 3. 12. 4. 87. 91. 7. 2. 1. 95. 94. 97. 96.]
with total 97
                   heading accuracy
column name :
column datatype : <class 'numpy.float64'>
 unique values :
[71. 70. 58. 57. 56. 51. 50. 52. 60. 59. 62. 45. 68. 67. 73. 74. 79. 72.
 76. 64. 65. 66. 47. 46. 28. 27. 38. 49. 16. 61. 82. 42. 54. 53. 63. 55.
 43. 78. 77. 75. 48. 69. 39. 30. 80. nan 81. 84. 13. 25. 12. 23. 41. 44. 37. 32. 90. 40. 11. 10. 21. 35. 24. 18. 17. 33. 31. 26. 36. 85. 86. 87.
 83. 22. 19. 34. 88. 89. 15. 8. 92. 20. 14. 4. 91. 9. 3. 93. 29. 6.
  7. 95. 5. 1. 94. 2. 98.]
with total 96
column name :
                   short_passing
column datatype : <class 'numpy.float64'>
 unique values :
[61. 60. 71. 70. 69. 67. 64. 62. 59. 45. 44. 39. 66. 68. 63. 65. 53. 72.
 54. 79. 80. 75. 77. 78. 76. 23. 73. 84. 74. 58. 57. 52. 42. 83. 82. 85.
 55. 56. 40. 51. 49. nan 43. 47. 48. 34. 33. 41. 35. 81. 46. 25. 38. 16.
 15. 21. 26. 32. 28. 27. 50. 36. 37. 20. 30. 9. 13. 11. 10. 8. 29. 22. 12. 86. 87. 89. 18. 19. 88. 31. 90. 92. 24. 3. 93. 91. 94. 95. 97. 14.
 17. 96. 7. 6. 5. 4.]
with total 95
```

column name : volleys

```
column datatype :
                     <class 'numpy.float64'>
 unique values :
[44. 43. 40. 32. 29. 28. 30. 52. 51. 56. 63. 48. 47. 33. 77. 80. 34. 68.
 67. 69. 14. 60. 59. 65. 64. 57. 25. 61. 79. 81. 78. 76. 74. 73. 70. 42.
 41. 24. 55. 62. 36. 23. 72. nan 58. 31. 66. 37. 46. 45. 49. 13. 39. 50. 53. 54. 35. 75. 71. 10. 11. 5. 22. 21. 16. 38. 15. 27. 26. 12. 20. 6.
 18. 17. 9. 19. 82. 84. 83. 87. 86. 85. 4. 8. 7. 2. 88. 89. 3. 90.
 91. 1. 93. 92.]
with total 93
column name :
                  dribbling
column datatype : <class 'numpy.float64'>
 unique values :
[51. 50. 73. 71. 67. 66. 65. 64. 62. 44. 43. 26. 69. 70. 72. 74. 56. 55.
 59. 60. 52. 47. 46. 48. 53. 63. 78. 80. 79. 81. 82. 77. 54. 84. 83. 85.
 90. 88. 93. 94. 86. 15. 57. 75. 76. 68. 61. 49. 42. 45. 30. 41. 21. 58.
nan 36. 35. 34. 31. 25. 14. 9. 23. 40. 28. 38. 37. 11. 10. 5. 20. 32. 19. 18. 87. 33. 12. 89. 39. 16. 27. 22. 92. 13. 7. 8. 29. 1. 6. 91. 17. 24. 95. 4. 97. 3. 96. 2.]
with total 97
column name : curve
column datatype : <class 'numpy.float64'>
unique values :
[45. 44. 70. 68. 67. 66. 65. 63. 64. 41. 71. 72. 43. 38. 37. 42. 52. 77.
 78. 79. 56. 55. 62. 14. 69. 73. 59. 57. 58. 21. 51. 35. 76. 75. 27. 23. 22. nan 46. 40. 26. 54. 49. 36. 53. 15. 25. 28. 29. 30. 39. 31. 47. 48.
 50. 33. 32. 61. 60. 80. 83. 81. 12. 18. 17. 34. 74. 20. 84. 82. 86. 85.
 13. 9. 11. 8. 6. 87. 19. 10. 5. 2. 7. 90. 88. 16. 24. 92. 94. 91.
 89. 4. 93.1
with total 92
column name :
                  free_kick_accuracy
column datatype : <class 'numpy.float64'>
 unique values :
[39. 38. 69. 68. 43. 42. 26. 63. 62. 64. 41. 40. 25. 24. 81. 76. 74. 73.
 70. 57. 48. 53. 55. 54. 66. 18. 67. 65. 78. 71. 59. 61. 60. 58. 30. 50.
 77. 45. 23. 22. 47. 44. nan 32. 31. 49. 29. 52. 56. 28. 72. 14. 13. 9.
 75. 51. 33. 34. 79. 37. 83. 46. 80. 35. 12. 11. 27. 86. 36. 21. 20. 16. 15. 82. 91. 87. 88. 84. 17. 19. 89. 6. 8. 85. 7. 10. 90. 93. 95. 96.
 92. 5. 94. 3. 4. 97. 2. 1.]
with total 97
column name :
                  long passing
column datatype : <class 'numpy.float64'>
 unique values :
[64. 63. 68. 67. 65. 46. 45. 49. 62. 61. 53. 57. 58. 54. 60. 55. 70. 48.
 59. 18. 69. 72. 73. 79. 77. 74. 71. 66. 56. 80. 81. 82. 83. 75. 52. 51. 47. 39. 38. 33. 42. 27. 76. nan 35. 44. 43. 32. 41. 25. 24. 84. 78. 31.
 29. 40. 36. 12. 11. 30. 34. 37. 15. 26. 21. 50. 23. 20. 17. 28. 22. 8.
 14. 13. 85. 86. 87. 16. 19. 7. 90. 92. 94. 95. 96. 97. 89. 88. 10. 5.
 91. 6. 9. 93. 4. 3.]
with total 95
column name :
                 ball control
column datatype : <class 'numpy.float64'>
 unique values :
[49. 48. 71. 70. 68. 67. 66. 65. 64. 43. 42. 34. 73. 72. 74. 54. 62. 61.
 69. 58. 57. 59. 63. 79. 78. 76. 75. 77. 81. 80. 82. 84. 88. 83. 22. 60.
 52. 51. 44. 35. 46. 47. nan 53. 55. 50. 17. 28. 56. 85. 18. 25. 21. 19.
 24. 27. 26. 86. 87. 45. 30. 32. 89. 40. 36. 37. 92. 23. 31. 39. 29. 38.
 41. 13. 14. 10. 20. 15. 11. 91. 90. 94. 33. 16. 12. 93. 95. 6. 9. 96.
  7. 97. 8. 5.]
with total 93
```

```
column datatype :
                       <class 'numpy.float64'>
 unique values :
[60.\ 79.\ 80.\ 84.\ 85.\ 69.\ 43.\ 42.\ 66.\ 77.\ 81.\ 78.\ 82.\ 74.\ 76.\ 68.\ 71.\ 65.
 33. 37. 50. 55. 75. 73. 49. 54. 52. 53. 70. 72. 89. 90. 92. 94. 96. 93. 95. 15. 63. 67. 64. 51. 34. 61. 56. 83. 62. 57. nan 59. 86. 48. 40. 31.
 26. 36. 47. 87. 88. 44. 58. 91. 41. 35. 46. 39. 32. 25. 45. 29. 30. 18.
 21. 20. 28. 23. 27. 24. 38. 22. 13. 97. 14. 17. 10. 16. 19.]
with total 86
column name :
                    sprint speed
column datatype : <class 'numpy.float64'>
 unique values :
[64. 78. 82. 81. 72. 47. 46. 59. 74. 75. 80. 79. 77. 34. 37. 40. 48. 55.
 57. 61. 73. 31. 53. 54. 71. 69. 67. 89. 91. 95. 93. 94. 92. 90. 26. 65.
 66. 68. 76. 63. 60. 85. 58. 70. 84. 62. nan 49. 88. 83. 87. 86. 56. 52.
 32. 33. 38. 50. 42. 39. 45. 43. 51. 44. 41. 21. 30. 23. 29. 24. 35. 36. 28. 27. 22. 20. 25. 19. 96. 97. 15. 17. 12. 14. 16. 13.]
with total 85
column name :
                    agility
column datatype : <class 'numpy.float64'>
 unique values :
[59. 78. 79. 81. 77. 74. 85. 76. 66. 62. 63. 41. 45. 49. 57. 60. 93. 94.
 88. 31. 69. 72. 67. 55. 71. 68. 82. 75. 70. 73. 44. 48. 33. 36. 80. 86.
65. 50. 51. nan 56. 46. 47. 83. 34. 53. 87. 58. 32. 42. 52. 35. 91. 90. 64. 84. 54. 61. 43. 40. 38. 39. 92. 37. 22. 89. 28. 25. 26. 95. 23. 30. 21. 29. 16. 24. 27. 15. 19. 96. 11. 20.]
with total 81
column name :
                  reactions
column datatype : <class 'numpy.float64'>
unique values :
[47. 46. 67. 71. 69. 70. 66. 62. 61. 65. 51. 50. 57. 56. 64. 68. 80. 77.
79. 81. 78. 74. 76. 75. 73. 60. 84. 45. 72. 58. 52. 82. 53. 63. 55. 42. nan 59. 54. 41. 48. 49. 83. 39. 35. 33. 44. 43. 24. 37. 38. 90. 85. 88.
 32. 40. 22. 23. 36. 87. 86. 89. 34. 26. 31. 29. 92. 91. 27. 30. 96. 28.
 21. 93. 95. 94. 25. 20. 17.]
with total 78
column name :
                    balance
column datatype : <class 'numpy.float64'>
 unique values :
[65. 90. 87. 62. 92. 84. 56. 41. 44. 45. 52. 59. 66. 76. 72. 73. 67. 80. 94. 24. 79. 77. 71. 64. 53. 82. 75. 74. 70. 68. 60. 61. 54. 49. 78. 57.
 63. nan 58. 69. 25. 31. 50. 43. 81. 55. 47. 51. 38. 83. 88. 86. 48. 85.
 40. 30. 37. 36. 28. 33. 42. 29. 32. 34. 39. 91. 35. 27. 95. 93. 89. 46. 17. 23. 21. 22. 20. 26. 96. 15. 18. 12.]
with total 81
column name :
                    shot_power
column datatype : <class 'numpy.float64'>
 unique values :
[55. 54. 71. 70. 65. 48. 47. 61. 60. 56. 62. 67. 74. 64. 59. 68. 76. 78.
 77. 73. 53. 52. 69. 72. 26. 66. 63. 37. 81. 75. 58. 50. 57. 42. 82. nan
41. 40. 46. 49. 19. 34. 45. 51. 43. 33. 32. 39. 88. 85. 84. 83. 20. 80. 79. 16. 35. 23. 44. 17. 25. 21. 36. 27. 86. 30. 24. 12. 31. 29. 87. 90. 89. 93. 94. 96. 38. 28. 22. 14. 11. 18. 91. 13. 15. 6. 10. 8. 92. 9.
 95. 5. 4. 7. 2. 97. 3.]
with total 96
column name :
                    jumping
```

column name: acceleration

column datatype : <class 'numpy.float64'>

```
unique values :
[58. 85. 84. 77. 73. 64. 48. 65. 71. 56. 70. 69. 67. 78. 83. 81. 52. 38.
 63. 75. 72. 62. 66. 61. 68. 79. 46. 60. 54. nan 74. 57. 43. 76. 51. 55. 33. 50. 53. 80. 59. 90. 88. 87. 49. 82. 47. 86. 35. 37. 89. 34. 44. 91.
 42. 45. 39. 94. 41. 92. 93. 30. 40. 36. 32. 14. 31. 25. 96. 95. 24. 27.
 26. 29. 28. 19. 20. 21. 23. 22.]
with total 79
column name :
                   stamina
column datatype :
                       <class 'numpy.float64'>
 unique values :
[54. 79. 80. 77. 76. 74. 73. 63. 59. 55. 56. 66. 72. 81. 68. 69. 49. 39. 48. 75. 60. 62. 78. 85. 84. 86. 87. 18. 67. 70. 83. 61. 53. 92. 93. 90.
 58. 64. 65. 50. 47. 71. 88. nan 57. 45. 52. 42. 43. 46. 82. 31. 37. 89.
 35. 36. 34. 51. 33. 40. 21. 27. 41. 44. 91. 28. 22. 38. 30. 32. 29. 25.
 19. 24. 14. 94. 26. 23. 95. 16. 20. 96. 15. 17. 10.]
with total 84
column name :
                   strength
column datatype :
                       <class 'numpy.float64'>
 unique values :
[76. 56. 50. 49. 48. 43. 37. 38. 63. 68. 71. 90. 87. 86. 81. 78. 77. 75.
 72. 70. 74. 69. 65. 66. 62. 59. 52. 57. 41. 33. 44. 73. 51. 30. 64. 61.
 82. 47. 60. 45. 67. 40. 79. 55. 58. 83. 53. nan 46. 95. 39. 42. 88. 84. 85. 89. 91. 54. 80. 31. 92. 94. 22. 21. 35. 93. 32. 27. 34. 36. 29. 28.
25. 26. 20. 23. 24. 96. 18. 16. 12. 13. 10.]
with total 82
column name :
                   long_shots
column datatype : <class 'numpy.float64'>
 unique values :
[35. 34. 62. 60. 59. 58. 56. 55. 54. 53. 57. 51. 52. 61. 76. 67. 63. 29.
 28. 33. 26. 25. 20. 15. 75. 77. 78. 73. 72. 68. 38. 37. 12. 66. 24. 74. 79. 70. 30. 23. 47. 46. 43. 48. 71. 39. 69. 50. nan 44. 27. 65. 64. 11.
 49. 41. 31. 32. 42. 45. 22. 40. 18. 14. 13. 8. 21. 19. 81. 80. 82. 16.
 84. 10. 83. 85. 88. 90. 6. 9. 86. 91. 5. 3. 4. 36. 87. 93. 17. 89.
  7. 92. 1. 94. 95. 2. 96.]
with total 96
column name :
                   aggression
                      <class 'numpy.float64'>
column datatype :
 unique values :
[71. 63. 62. 68. 67. 66. 64. 60. 59. 70. 69. 72. 65. 77. 75. 76. 57. 55.
 51. 49. 36. 74. 56. 37. 46. 24. 21. 73. 78. 30. 45. 44. 43. 53. 54. 41.
 58. 48. 39. 38. 85. 84. 61. 52. 40. nan 80. 79. 83. 81. 87. 91. 89. 90.
 93. 86. 50. 31. 18. 25. 17. 23. 82. 88. 47. 26. 33. 32. 34. 35. 20. 19. 42. 22. 29. 10. 27. 28. 16. 94. 12. 14. 92. 15. 11. 13. 8. 97. 96. 6.
 95. 9.]
with total 91
column name :
                   interceptions
column datatype :
                      <class 'numpy.float64'>
 unique values :
[70. 41. 40. 67. 66. 65. 62. 59. 31. 32. 55. 54. 44. 35. 61. 68. 71. 77.
 80. 81. 83. 74. 56. 57. 37. 36. 60. 73. 19. 64. 63. 58. 45. 43. 39. 69. 72. 82. 30. 29. 24. 23. 51. 49. 48. 21. 27. 20. 25. 33. 28. 47. 50. 79.
 nan 52. 26. 76. 75. 42. 46. 84. 53. 12. 78. 34. 13. 38. 22. 15. 16. 10.
 18. 85. 11. 14. 17. 87. 7. 88. 93. 86. 92. 90. 9. 91. 8. 89. 95. 96. 94. 6. 2. 5. 1. 3. 4.]
with total 96
column name :
                   positioning
column datatype :
                       <class 'numpy.float64'>
 unique values :
[45. 44. 60. 58. 57. 56. 19. 27. 28. 64. 67. 68. 66. 62. 50. 30. 26. 25.
```

```
78. 81. 29. 76. 77. 71. 74. 75. 73. 39. 79. 69. 14. 65. 63. 55. 21. 70.
 41. 83. 84. 82. 80. 61. 52. 51. 49. 48. 72. 38. 23. 47. 53. 36. 17. 46. 31. 54. nan 24. 22. 20. 11. 10. 18. 42. 35. 32. 59. 40. 85. 37. 33. 43. 13. 12. 16. 15. 34. 87. 88. 4. 3. 89. 91. 95. 86. 90. 93. 5. 8. 9.
  6. 94. 2. 92. 7. 96.1
with total 95
column name :
                  vision
column datatype :
                      <class 'numpy.float64'>
 unique values :
[54. 53. 66. 65. 64. 61. 58. 63. 47. 38. 68. 71. 72. 73. 67. 41. 40. 60.
 76. 80. 82. 79. 83. 75. 77. 81. 15. 70. 62. 78. 31. 55. 50. 49. 44. 36. 43. 74. 52. 51. 46. nan 33. 32. 69. 30. 57. 42. 56. 39. 35. 24. 25. 59.
 45. 34. 29. 48. 21. 18. 17. 20. 23. 16. 27. 26. 22. 28. 85. 87. 37. 14.
 10. 84. 12. 9. 13. 86. 2. 89. 90. 7. 5. 6. 19. 8. 94. 95. 96. 92. 11. 93. 88. 91. 4. 1. 3. 97.]
with total 97
column name :
                  penalties
column datatype :
                      <class 'numpy.float64'>
 unique values :
[48. 47. 59. 58. 35. 28. 29. 61. 60. 63. 64. 66. 36. 37. 45. 44. 81. 82.
 76. 72. 68. 67. 73. 53. 42. 41. 62. 84. 70. 74. 56. 55. 52. 34. 69. 65.
 75. 71. 79. 54. 40. 39. 50. 85. 80. 32. 31. 22. 46. 57. nan 49. 43. 51. 77. 38. 20. 25. 33. 83. 21. 78. 18. 17. 27. 86. 30. 12. 88. 94. 7. 16.
 19. 26. 23. 15. 93. 24. 91. 90. 92. 14. 9. 11. 13. 6. 87. 95. 10. 89.
  8. 5. 3. 2. 96.]
with total 94
column name :
                  marking
column datatype : <class 'numpy.float64'>
 unique values :
[65. 62. 76. 73. 72. 66. 64. 53. 52. 23. 22. 21. 67. 78. 80. 77. 75. 74. 81. 79. 82. 69. 28. 36. 30. 51. 29. 25. 18. 15. 63. 58. 60. 68. 56. 54.
 59. 57. 35. 34. 46. 43. 42. 61. 32. 26. 70. 13. 20. 47. 45. 83. nan 55.
 19. 44. 38. 17. 71. 48. 37. 39. 24. 14. 33. 49. 50. 12. 9. 31. 40. 27.
 16. 5. 84. 85. 10. 41. 11. 7. 6. 1. 88. 86. 87. 94. 93. 8. 4. 90. 89. 91. 92. 3. 2. 96.]
with total 95
column name :
                  standing_tackle
column datatype :
                      <class 'numpy.float64'>
 unique values :
[69. 66. 63. 75. 72. 68. 64. 60. 59. 45. 22. 21. 71. 76. 78. 74. 70. 73.
 79. 80. 83. 34. 37. 30. 27. 25. 58. 56. 33. 23. 29. 15. 65. 62. 61. 54.
 18. 9. 12. 86. 85. 87. 88. 49. 8. 38. 2. 89. 90. 93. 95. 7. 91. 5.
 92. 6. 4. 3. 94. 1.]
with total 95
column name :
                  sliding tackle
column datatype :
                     <class 'numpy.float64'>
 unique values :
[69. 66. 78. 72. 67. 63. 24. 21. 68. 65. 70. 71. 74. 75. 76. 77. 35. 32. 29. 57. 56. 34. 25. 14. 12. 61. 60. 62. 73. 51. 44. 43. 17. 54. 52. 37.
 36. 45. 64. 59. 19. 18. 23. 33. 31. 38. 22. 30. nan 40. 53. 42. 55. 27.
 13. 82. 84. 79. 58. 46. 15. 11. 20. 41. 81. 47. 49. 26. 16. 50. 48. 39.
 80. 28. 10. 9. 83. 85. 6. 5. 7. 2. 4. 89. 90. 86. 87. 8. 88. 92.
  3. 91. 93. 94. 95.]
with total 94
column name :
                  gk diving
column datatype :
                       <class 'numpy.float64'>
 unique values :
```

```
[ 6. 5. 14. 13. 16. 15. 8. 7. 12. 9. 53. 11. 10. 24. 33. nan 2.
 70. 66. 65. 58. 3. 60. 51. 46. 77. 73. 75. 72. 63. 55. 69. 68. 64. 67. 74. 71. 1. 80. 79. 78. 56. 61. 62. 49. 76. 59. 57. 20. 81. 22. 21. 31. 54. 88. 83. 82. 48. 84. 18. 35. 90. 85. 86. 45. 19. 87. 17. 43. 44. 28.
 23. 52. 39. 47. 91. 93. 50. 26. 34. 32. 92. 89. 25. 94. 41. 40. 42. 29.
 27. 30. 36. 37.]
with total 93
column name :
                    gk_handling
column datatype : <class 'numpy.float64'>
 unique values :
[11. 10. 7. 6. 22. 21. 12. 5. 20. 9. 13. 25. 8. 41. 15. 14. 23. 30. 24. nan 16. 63. 62. 59. 4. 3. 2. 61. 49. 44. 71. 66. 72. 67. 56. 46.
 60. 58. 65. 69. 68. 48. 1. 75. 76. 79. 82. 70. 74. 73. 64. 55. 57. 53.
 51. 78. 77. 52. 19. 45. 43. 26. 54. 50. 32. 81. 83. 42. 29. 80. 84. 17.
 47. 86. 88. 18. 28. 87. 85. 91. 35. 92. 93. 90. 37. 27. 33. 89. 39. 36.
 40.]
with total 90
column name :
                    gk_kicking
column datatype :
                         <class 'numpy.float64'>
 unique values :
[10. 9. 8. 45. 46. 49. 12. 11. 54. 13. 64. 65. 61. 58. 16. 15. 57. 55.
 7. 6. 63. 48. 14. 59. 39. 73. 5. 79. 75. 72. 67. 21. 38. 33. 47. 52. 42. 62. 27. 71. 76. nan 35. 53. 43. 51. 69. 44. 60. 66. 3. 2. 56. 70.
 78. 68. 31. 29. 74. 20. 41. 82. 81. 84. 23. 4. 36. 32. 50. 28. 25. 83.
 86. 37. 77. 30. 80. 34. 24. 40. 26. 1. 95. 96. 97. 89. 90. 88. 18. 91.
 22. 19. 87. 85. 94. 92. 93. 17.]
with total 97
column name :
                    gk_positioning
column datatype : <class 'numpy.float64'>
 unique values :
[8. 7. 9. 22. 21. 12. 11. 20. 10. 16. 15. 6. 14. 13. 25. 51. 31. 24.
 23. nan 70. 65. 64. 39. 5. 3. 2. 19. 18. 62. 58. 63. 71. 72. 68. 60.
 50. 57. 53. 54. 59. 69. 67. 66. 4. 75. 76. 74. 61. 55. 56. 79. 78. 77.
 82. 81. 73. 52. 30. 80. 47. 32. 49. 43. 48. 84. 42. 1. 44. 83. 17. 86. 85. 87. 88. 45. 28. 46. 92. 38. 93. 91. 90. 94. 34. 41. 89. 96. 35. 27.
 37. 29. 33. 26. 36.]
with total 94
column name :
                    gk_reflexes
column datatype : <class 'numpy.float64'>
 unique values :
[ 8. 7. 12. 11. 22. 13. 21. 10. 20. 6. 15. 14. 9. 25. 53. 30. 5. 24. 23. nan 4. 16. 75. 74. 3. 2. 64. 60. 58. 55. 78. 76. 73. 72. 68. 54. 69. 63. 62. 66. 56. 80. 86. 85. 84. 81. 79. 52. 70. 18. 67. 71. 65. 59.
 61. 57. 83. 77. 82. 38. 17. 1. 48. 33. 50. 49. 45. 89. 88. 51. 87. 43.
 47. 46. 27. 37. 92. 90. 41. 19. 29. 44. 42. 91. 35. 26. 40. 93. 94. 96.
 32. 34. 31.]
with total 92
columns with null values count :
 player_name
                                 0
birthday
height
                                0
weight
id
player_fifa_api_id
player_api_id
date
{\tt overall\_rating}
                              750
potential
preferred foot
attacking work rate
                              750
defensive_work_rate
crossing
                              750
```

750

finishing

heading_accuracy short_passing volleys dribbling curve free_kick_accuracy long_passing ball_control acceleration	750 750 2627 750 2627 750 750 750
sprint speed	750
agility '	2627
reactions	750
balance	2627
shot_power	750
jumping	2627
stamina	750
strength	750
long_shots	750
aggression	750
interceptions	750
positioning	750
vision	2627
penalties	750 750
marking	750 750
<pre>standing_tackle sliding tackle</pre>	2627
gk diving	750
gk_handling	750 750
gk_kicking	750
gk positioning	750 750
gk_reflexes	750
dtype: int64	,50
with total 44033	

columns with duplicates count :

0

In [14]:

summary statistics
df_players_info.describe()

Out[14]:

									-
	height	weight	id	player_fifa_api_id	player_api_id	overall_rating	potential	crossing	
count	183766.000000	183766.000000	183766.000000	183766.000000	183766.000000	183016.000000	183016.000000	183016.000000	1
mean	181.875022	168.769974	91973.292715	165645.222642	135957.515514	68.597522	73.457851	55.081687	
std	6.395603	15.092227	53104.857009	53870.761415	136979.374220	7.041099	6.591720	17.237884	
min	157.480000	117.000000	1.000000	2.000000	2625.000000	33.000000	39.000000	1.000000	
25%	177.800000	159.000000	45986.250000	155715.750000	34763.000000	64.000000	69.000000	45.000000	
50%	182.880000	168.000000	91946.500000	183480.000000	77767.000000	69.000000	74.000000	59.000000	
75%	185.420000	179.000000	137950.750000	199848.000000	191081.000000	73.000000	78.000000	68.000000	
max	208.280000	243.000000	183978.000000	234141.000000	750584.000000	94.000000	97.000000	95.000000	

8 rowe x 40 columns

In [15]:

```
# inspect the null values with corresponding player name
df_players_info[df_players_info['heading_accuracy'].isnull()][['player_name']]
```

Out[15]:

	player_name
483	Abdeslam Ouaddou
983	Abel Gomez
1752	Adam Johnson
2089	Adam Rooney
2482	Adil Chihi
182375	Youssouf Hadji
183037	Zbigniew Malkowski
183097	Zdenek Pospech
183149	Zdravko Kuzmanovic
183275	Ze Roberto

750 rows × 1 columns

In [16]:

```
# we will use the player "Abdeslam Ouaddou" as example
# let's search for heading_accuracy values for that player
df_players_info.query('player_name == "Abdeslam Ouaddou"')[['heading_accuracy']]
```

Out[16]:

heading_accuracy							
478	70.0						
479	80.0						
480	80.0						
481	80.0						
482	80.0						
483	NaN						

Comment

one of the best ways to solve this problem is to fill null values with the mean value of the same calss let D be a data set with $C_1, C_2, C_3, \ldots, C_n$ columns.

Suppose that C_i is the class column. Hence, we can devide each column into multiple categories $G_1, G_2, G_3, \ldots, G_j$

Each category contain a list of elements $e_1, e_2, e_3, \ldots, e_k$ such that e_k is the last element before null value. Hence, we will fill the the null value as follows:

$$e_{k+1} = \sum_{k}^{i=1} \frac{e_i}{k}$$

In [17]:

```
# but what about categorical variables ?
# let's inspect the minimum number of occurrences for the players
# notice count ignore null values
print(df_players_info.groupby('player_name')['player_name'].count().min())
```

In [18]:

```
# we will use the player "Abdeslam Ouaddou" as example
# let's search for preferred_foot values for that player
df_players_info.query('player_name == "Abdeslam Ouaddou"')[['preferred_foot']]
```

Out[18]:

	preferred_foot
478	right
479	right
480	right
481	right
482	right
483	None

Comment

We can easily replace the null value with the previous value because we are 100% sure that the minimum number of occurrences of each player is 2

In [19]:

```
# but if all the values is null then it would be impossible that the previous two methods work
# let's give an example
df_players_info.query('player_name == "Abdeslam Ouaddou"')[['vision']]
```

Out[19]:

	vision
478	NaN
479	NaN
480	NaN
481	NaN
482	NaN
483	NaN

Comment

The only two ways to deal with this problem is:

- 1. drop the records
- 2. Replace them with the previous available value in the previous column
 - it seems that each player appears alot but with different date
 - id , player_fifa_api_id and player_api_id are unnecessary so we will drop them
 - · date, birthday attributes need to be coverted to date datatype
 - attacking_work_rate , preferred_foot and defensive_work_rate attributes are categorical
 - the rest of the attributes are continous random variables
 - The best solution to deal with null values in the numerical attributes here to use linear interpolation or the mean with the previuos player values in the same attribute.
 - For Example: "Abdeslam Ouaddou" has only one null value so we can replace it depending on the previous values
 - since all players have occurred at least twice then we can use thier previous categorical value to fill nulls
 - the player "Abdeslam Ouaddou" all of his vision values are null so i will drop them since no way to fill them

Matches Dataset

```
In [20]:
```

```
df_mathces_info.head()
```

Out[20]:

	home_team_short_name	home_team_long_name	away_team_short_name	away_team_long_name	league_name	id	country_id	league_
0	GEN	KRC Genk	BAC	Beerschot AC	Belgium Jupiler League	1	1	
1	ZUL	SV Zulte-Waregem	LOK	Sporting Lokeren	Belgium Jupiler League	2	1	
2	СЕВ	KSV Cercle Brugge	AND	RSC Anderlecht	Belgium Jupiler League	3	1	
3	GEN	KAA Gent	MON	RAEC Mons	Belgium Jupiler League	4	1	
4	DEN	FCV Dender EH	STL	Standard de Liège	Belgium Jupiler League	5	1	
5 r	ows × 120 columns							
4								>

```
In [21]:
explore dataset(df mathces info)
we have 25979 rows and 120 columns
column name :
                 home_team_short_name
column datatype :
                      <class 'str'>
 unique values :
['GEN' 'ZUL' 'CEB'
                     'DEN' 'MEC' 'ROS' 'TUB' 'WES' 'CLB'
                                                              'STL'
                                                                    'LOK'
 'BAC' 'AND'
                            'KOR' 'STT'
                                         'LIE'
                                                'EUP' '0-H'
                                                                     '00S' 'MOP'
              ' MON '
                     'CHA'
                                                              'WAA'
 'MUN' 'ARS' 'SUN'
                     'WHU'
                            'AVL' 'EVE' 'MID' 'BOL' 'HUL'
                                                                    'STK' 'LIV'
 'NEW'
              'T0T'
        'FUL'
                     'WBA'
                            'POR'
                                  'MCI'
                                         'BLB'
                                                'WIG'
                                                      ' WOL '
                                                              ' BUR '
                                                                     'BIR'
                                                                           'BLA'
 'QPR'
        'NOR'
              'SWA'
                     'REA'
                            'S0U'
                                                'LEI'
                                                       'B0U'
                                   'CRY'
                                          'CAR'
                                                              'WAT'
                                                                     'AUX'
 'LEH'
                     'NAN'
                            'REN' 'SOC'
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 'Club Brugge KV' 'Standard de Liège' 'Sporting Lokeren'
 'Royal Excel Mouscron' 'Beerschot AC' 'RSC Anderlecht' 'RAEC Mons'
 'Sporting Charleroi' 'KV Kortrijk' 'Sint-Truidense VV' 'Lierse SK' 'KAS Eupen' 'Oud-Heverlee Leuven' 'Waasland-Beveren' 'KV Oostende' 'Manchester United' 'Arsenal' 'Sunderland' 'West Ham United'
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'Chelsea' 'Stoke City' 'Liverpool' 'Newcastle United' 'Fulham'

'Leicester City' 'Bournemouth' 'Watford' 'AJ Auxerre'

'Tottenham Hotspur' 'West Bromwich Albion' 'Portsmouth' 'Manchester City' 'Blackburn Rovers' 'Wigan Athletic' 'Wolverhampton Wanderers' 'Burnley' 'Birmingham City' 'Blackpool' 'Queens Park Rangers' 'Norwich City' 'Swansea City' 'Reading' 'Southampton' 'Crystal Palace' 'Cardiff City'

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'FC Sochaux-Montbéliard' 'Valenciennes FC' 'LOSC Lille' 'FC Lorient' 'Olympique de Marseille' 'OGC Nice' 'AS Saint-Étienne' 'Toulouse FC'
 'SM Caen' 'Grenoble Foot 38' 'FC Nantes' 'Paris Saint-Germain' 'Montpellier Hérault SC' "US Boulogne Cote D'Opale" 'RC Lens'
 'AC Arles-Avignon' 'Stade Brestois 29' 'AC Ajaccio' 'Dijon FCO'
 'Évian Thonon Gaillard FC' 'Stade de Reims' 'ES Troyes AC' 'SC Bastia'
 'En Avant de Guingamp' 'FC Metz' 'Angers SCO' 'GFC Ajaccio' 'FC Bayern Munich' 'Bayer 04 Leverkusen' 'FC Schalke 04' 'VfL Wolfsburg' 'Eintracht Frankfurt' 'DSC Arminia Bielefeld' 'FC Energie Cottbus'
 'Borussia Mönchengladbach' 'Karlsruher SC' 'Hamburger SV
 'SV Werder Bremen' 'Hertha BSC Berlin' '1. FC Köln' 'VfL Bochum'
 'Borussia Dortmund' 'VfB Stuttgart' 'Hannover 96' 'TSG 1899 Hoffenheim' 'SC Freiburg' '1. FC Nürnberg' '1. FSV Mainz 05' '1. FC Kaiserslautern' 'FC St. Pauli' 'FC Augsburg' 'SpVgg Greuther Fürth' 'Fortuna Düsseldorf'
 'Eintracht Braunschweig' 'SC Paderborn 07' 'SV Darmstadt 98'
 'FC Ingolstadt 04' 'Atalanta' 'Cagliari' 'Catania' 'Chievo Verona' 'Fiorentina' 'Milan' 'Roma' 'Sampdoria' 'Torino' 'Udinese' 'Siena' 'Reggio Calabria' 'Palermo' 'Lazio' 'Juventus' 'Bologna' 'Napoli' 'Lecce' 'Inter' 'Genoa' 'Livorno' 'Parma' 'Bari' 'Cesena' 'Brescia' 'Novara'
 'Pescara' 'Hellas Verona' 'Sassuolo' 'Empoli' 'Frosinone' 'Carpi
 'Vitesse' 'Roda JC Kerkrade' 'Willem II' 'N.E.C.' 'FC Utrecht' 'Heracles Almelo' 'Sparta Rotterdam' 'FC Volendam' 'AZ' 'De Graafschap'
 'Ajax' 'FC Groningen' 'Feyenoord' 'ADO Den Haag' 'NAC Breda'
'SC Heerenveen' 'FC Twente' 'PSV' 'RKC Waalwijk' 'VVV-Venlo' 'Excelsior'
'PEC Zwolle' 'SC Cambuur' 'Go Ahead Eagles' 'FC Dordrecht' 'Wisła Kraków'
 'Polonia Bytom' 'Legia Warszawa' 'Śląsk Wrocław' 'Widzew Łódź'
 'Lech Poznań' 'Arka Gdynia' 'Piast Gliwice' 'GKS Bełchatów'
 'Jagiellonia Białystok' 'Cracovia' 'Ruch Chorzów' 'P. Warszawa'
'Odra Wodzisław' 'Lechia Gdańsk' 'Korona Kielce' 'Zagłębie Lubin'
 'Podbeskidzie Bielsko-Biała' 'Pogoń Szczecin' 'Zawisza Bydgoszcz'
 'Górnik Łęczna' 'Termalica Bruk-Bet Nieciecza' 'FC Porto' 'Sporting CP'
 'Vitória Guimarães' 'FC Paços de Ferreira' 'Amadora' 'Rio Ave FC'
 'Leixões SC' 'Naval 1° de Maio' 'SL Benfica' 'CF Os Belenenses' 'SC Braga' 'Trofense' 'CS Marítimo' 'Vitória Setúbal' 'CD Nacional'
 'Académica de Coimbra' 'União de Leiria, SAD' 'S.C. Olhanense' 'SC Beira Mar' 'Portimonense' 'Feirense' 'Gil Vicente FC' 'Moreirense FC' 'Estoril Praia' 'FC Arouca' 'FC Penafiel' 'Boavista FC'
 'Uniao da Madeira' 'Tondela' 'Falkirk' 'Heart of Midlothian' 'Kilmarnock'
 'Aberdeen' 'Celtic' 'Hamilton Academical FC' 'Dundee United'
  'Inverness Caledonian Thistle' 'Rangers' 'Motherwell' 'St. Mirren'
  'Hibernian' 'St. Johnstone FC' 'Dunfermline Athletic' 'Ross County FC'
 'Dundee FC' 'Partick Thistle F.C.' 'Valencia CF' 'CA Osasuna
 'RC Deportivo de La Coruña' 'CD Numancia' 'Racing Santander'
 'Real Sporting de Gijón' 'Real Betis Balompié' 'RCD Espanyol'
'Athletic Club de Bilbao' 'Atlético Madrid' 'Sevilla FC' 'Villarreal CF'
 'Real Madrid CF' 'FC Barcelona' 'Getafe CF' 'RCD Mallorca' 'UD Almería'
 'Málaga CF' 'Real Valladolid' 'RC Recreativo' 'Real Zaragoza'
 'CD Tenerife' 'Xerez Club Deportivo' 'Hércules Club de Fútbol'
 'Levante UD' 'Real Sociedad' 'Rayo Vallecano' 'Granada CF'
'RC Celta de Vigo' 'Elche CF' 'SD Eibar' 'Córdoba CF' 'UD Las Palmas'
'Grasshopper Club Zürich' 'BSC Young Boys' 'FC Aarau' 'FC Luzern'
 'Neuchâtel Xamax' 'AC Bellinzona' 'FC Basel' 'FC Sion' 'FC Vaduz
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'Girondins de Bordeaux' 'Le Havre AC' 'Le Mans FC' 'Olympique Lyonnais'

'AS Monaco' 'AS Nancy-Lorraine' 'Stade Rennais FC'

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'SEV' 'GET' 'HUE' 'ALM' 'SPG' 'BET' 'ESP' 'BIL' 'SAN' 'NUM' 'COR' 'OSA'
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'Sporting Charleroi' 'KAA Gent' 'KVC Westerlo' 'KSV Roeselare'
'KSV Cercle Brugge' 'KRC Genk' 'SV Zulte-Waregem' 'FCV Dender EH'
  'Tubize' 'KV Mechelen' 'Sint-Truidense VV' 'Lierse SK' 'KAS Eupen'
 'Oud-Heverlee Leuven' 'Waasland-Beveren' 'KV Oostende' 'Newcastle United' 'West Bromwich Albion' 'Liverpool' 'Wigan Athletic' 'Manchester City' 'Blackburn Rovers' 'Tottenham Hotspur' 'Stoke City' 'Fulham' 'Portsmouth' 'West Ham United' 'Everton' 'Chelsea' 'Sunderland' 'Hull City' 'Aston Villa' 'Arsonal' 'Manchester United' 'Middle Facuet'
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 'Blackpool' 'Swansea City' 'Norwich City' 'Queens Park Rangers'
'Southampton' 'Reading' 'Cardiff City' 'Crystal Palace' 'Leicester City'
'Watford' 'Bournemouth' 'FC Nantes' 'SM Caen' 'OGC Nice' 'FC Lorient'
  'Toulouse FC' 'Paris Saint-Germain' 'LOSC Lille' 'Olympique de Marseille'
  'Grenoble Foot 38' 'AS Saint-Étienne' 'Olympique Lyonnais' 'Valenciennes FC' 'FC Sochaux-Montbéliard' 'Girondins de Bordeaux'
 'Le Mans FC' 'AS Monaco' 'Le Havre AC' 'AJ Auxerre' 'AS Nancy-Lorraine' 'Stade Rennais FC' 'RC Lens' "US Boulogne Cote D'Opale"
  'Montpellier Hérault SC' 'AC Arles-Avignon' 'Stade Brestois 29' 'Évian Thonon Gaillard FC' 'Dijon FCO' 'AC Ajaccio' 'SC Bastia'
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  'Borussia Mönchengladbach' 'FC Bayern Munich' 'FC Energie Cottbus'
  'FC Schalke 04' 'DSC Arminia Bielefeld' 'VfL Wolfsburg'
 'Eintracht Frankfurt' 'Karlsruher SC' 'SC Freiburg' '1. FC Nürnberg' '1. FSV Mainz 05' '1. FC Kaiserslautern' 'FC St. Pauli' 'FC Augsburg' 'Fortuna Düsseldorf' 'SpVgg Greuther Fürth' 'Eintracht Braunschweig' 'SC Paderborn 07' 'FC Ingolstadt 04' 'SV Darmstadt 98' 'Siena' 'Lazio'
 'Genoa' 'Reggio Calabria' 'Juventus' 'Bologna' 'Napoli' 'Inter' 'Lecce' 'Palermo' 'Fiorentina' 'Torino' 'Chievo Verona' 'Catania' 'Roma' 'Sampdoria' 'Milan' 'Udinese' 'Atalanta' 'Cagliari' 'Bari' 'Parma'
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 'Hellas Verona' 'Empoli' 'Carpi' 'Frosinone' 'FC Groningen' 'FC Twente'
'Ajax' 'De Graafschap' 'PSV' 'Feyenoord' 'ADO Den Haag' 'SC Heerenveen'
'NAC Breda' 'Vitesse' 'Roda JC Kerkrade' 'Sparta Rotterdam' 'FC Volendam'
'FC Utrecht' 'Heracles Almelo' 'Willem II' 'N.E.C.' 'AZ' 'VVV-Venlo'
'RKC Waalwijk' 'Excelsior' 'PEC Zwolle' 'Go Ahead Eagles' 'SC Cambuur'
'FC Dordrecht' 'Polonia Bytom' 'Ruch Chorzów' 'P. Warszawa'
'Lechia Gdańsk' 'Odra Wodzisław' 'GKS Bełchatów' 'Jagiellonia Białystok'
  'Cracovia' 'Widzew Łódź' 'Wisła Kraków' 'Śląsk Wrocław' 'Arka Gdynia'
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'Dunfermline Athletic' 'Dundee FC' 'Ross County FC'
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  'Racing Santander' 'CD Numancia' 'RC Deportivo de La Coruña' 'CA Osasuna'
  'Xerez Club Deportivo' 'CD Tenerife' 'Real Zaragoza' 'Hércules Club de Fútbol' 'Real Sociedad' 'Levante UD' 'Granada CF'
 'Rayo Vallecano' 'RC Celta de Vigo' 'Elche CF' 'Córdoba CF' 'SD Eibar' 'UD Las Palmas' 'AC Bellinzona' 'FC Basel' 'FC Sion' 'FC Vaduz'
 'FC Zürich' 'Grasshopper Club Zürich' 'BSC Young Boys' 'FC Aarau' 'FC Luzern' 'Neuchâtel Xamax' 'FC St. Gallen' 'FC Thun'
  'FC Lausanne-Sports' 'Servette FC' 'Lugano']
with total 296
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 'Spain LIGA BBVA' 'Switzerland Super League']
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7896] with total 299

column name : home_team_goal

column datatype : <class 'numpy.int64'>

unique values :

7 6 9 8 10] [1 0 5

with total 11

column name : away team goal

<class 'numpy.int64'> column datatype :

```
unique values :
[1 0 3 2 4 5 6 7 9 8]
with total 10
column name :
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column datatype : <class 'numpy.float64'>
unique values :
[nan 1. 2. 0.]
with total 3
column name : home player x2
column datatype : <class 'numpy.float64'>
unique values :
[nan 2. 4. 3. 1. 5. 6. 8. 7. 0.]
with total 9
column name : home player x3
column datatype : <class 'numpy.float64'>
unique values :
[nan 4. 6. 8. 5. 3. 7. 2. 1.]
with total 8
column name : home_player_x4
column datatype : <class 'numpy.float64'>
unique values :
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with total 7
column name : home player x5
column datatype : <class 'numpy.float64'>
unique values :
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with total 9
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column datatype : <class 'numpy.float64'>
unique values :
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with total 9
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column datatype : <class 'numpy.float64'>
unique values :
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with total 9
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column datatype : <class 'numpy.float64'>
unique values :
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with total 9
column name : home_player_x9
column datatype : <class 'numpy.float64'>
unique values :
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```
[nan 8. 4. 2. 6. 7. 3. 9. 5. 1.]
with total 9
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unique values :
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with total 9
column name : home_player_x11
column datatype : <class 'numpy.float64'>
unique values :
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with total 6
column name : away_player_x1
column datatype : <class 'numpy.float64'>
unique values :
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with total 3
column name : away_player_x2
column datatype : <class 'numpy.float64'>
unique values :
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with total 8
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column datatype : <class 'numpy.float64'>
unique values :
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with total 9
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with total 9
column name : away_player_x7
column datatype : <class 'numpy.float64'>
unique values :
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with total 9
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unique values :
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with total 9
column name : away_player_x10
column datatype : <class 'numpy.float64'>
unique values :
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with total 9
column name : away_player_x11
column datatype : <class 'numpy.float64'>
unique values :
[nan 6. 4. 3. 7. 5. 8.]
with total 6
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column datatype : <class 'numpy.float64'>
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with total 3
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column datatype : <class 'numpy.float64'>
unique values :
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column datatype : <class 'numpy.float64'>
unique values :
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column name : home_player_y4
column datatype : <class 'numpy.float64'>
unique values :
[nan 3. 5.]
with total 2
column name : home player y5
column datatype : <class 'numpy.float64'>
unique values :
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with total 5
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unique values :
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with total 6
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column datatype : <class 'numpy.float64'>
 unique values :
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with total 6
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with total 7
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column datatype : <class 'numpy.float64'>
 unique values :
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with total 6
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column datatype : <class 'numpy.float64'>
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with total 2
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column datatype : <class 'numpy.float64'>
unique values :
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with total 1
column name : away_player_y3
column datatype : <class 'numpy.float64'>
unique values :
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with total 2
              away_player_y4
column name :
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with total 3
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column datatype : <class 'numpy.float64'>
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with total 5
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column datatype : <class 'numpy.float64'>
unique values :
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with total 7
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with total 7
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column datatype : <class 'numpy.float64'>
 unique values :
[nan 7. 8. 6. 5. 9. 3. 10.]
with total 7
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unique values :
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with total 6
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column name :
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                                             6.25 4.3
                                                                 1.08 1.06
              1.07 19.
                                 1.16 6.75
                                             1.15
                                                          1.05
  1.09 17.
                          21.
                                                    4.25
                                                                 1.04 23.
 26.
      14.
with total 121
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                                                                 4.2
                                                                       3.6
        4.
              3.8
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                           5.5
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                                              3.1
                                                          7.5
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  6.
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  3.7
        4.1
              8.
                    8.5
                           4.6
                                 3.
                                       10.
                                              9.
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                                                          4.8 15.
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        2.62
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                                                                       2.63
        2.05 1.4
                    1.75
                          1.53 2.5
                                              2.15 2.25
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                                                         1.73
                                                                       7.25
 1.7
 17. ]
with total 72
column name :
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 unique values :
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                    7.5
                           1.65
                                1.67
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                                                    2.88
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[ 5.
 2.38 4.5
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                                                    5.75 2.45
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                          1.73 15.
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                                             19.
                                                    1.4 12.
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                                                                       2.55
  nan
  1.44
        1.91
              3.75
                    6.25
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                                       2.63
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                                                               16.
                                21.
                                      23.
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  1.33 6.75 4.8
                    1.45
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                                                    1.61
                                                                1.22 26.
                    3.9 29.
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                                                               51.
 10.5 14.
             18.
                                      2.65 34.
                                                    1.25
                                                          1.9
  1.18 1.17 7.25
                           1.14 41.
                                       1.08
                    1.1
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with total 115
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                                                                       1.85
                           2.25
                                             1.95
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                                                          3.4
  2.75
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              5.1
                    4.3
                                 3.25
                                       1.38
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        2.
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              5.95
                                 4.9
                                              3.45
                                                    3.85
                    3.2
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                                       1.36
                                                          4.5
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                                                                 6.
              4.15
                    4.1
                           5.2
                                 1.88
                                       1.57
                                                    3.95
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1.31 1.62 1.53 1.37 1.12 1.33 8.5
                                           4.25 1.83 1.19 7.5
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                         4.65 1.73 6.15 1.27
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 2.22 8.35 7.35 1.07 7.7
                               7.95 1.56 1.05 6.3 8.2 15.5 14.5
 1.54 \quad 1.96 \quad 2.68 \quad 2.18 \quad 1.03 \quad 6.9 \quad 16.5 \quad 34.
                                                 1.04 19. ]
with total 237
column name :
               bwd
column datatype :
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unique values :
[ 3.35 3.3
             4.
                   3.5
                         3.4
                               3.25 5.
                                           3.2
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                                                 3.05
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                    nan
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                               5.2
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                                                       4.85
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                   6.75
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                               5.65
 8.25
       8.75
             7.75
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                         5.7
                               6.3
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                                           6.85
 6.4
       2.68
             2.55
                   3.37
                         3.38
                               8.35
                                     3.27
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                                                            1.8
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                                           3.73 6.6
                                                       7.4
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                   1.95
                         1.67
                               2.2
                                     5.05
       7.3 12.
                                    11.5 14.
 6.15
                   5.9
                         3.12 15.
                                                13.
                                                      15.5
 13.5 19.5 ]
with total 133
column name :
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column datatype : <class 'numpy.float64'>
unique values :
[ 4.2
       3.95 2.55
                   6.8
                         1.6
                               1.65
                                     3.15 2.4
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                                                                   2.25
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       1.55
             1.68
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                                           7.2
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                                                       3.4
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                                           2.75
                                                       8.
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 2.9
       8.25
                   8.5
                               3.05
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                         3.3
                                     6.
                                          12.
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                         7.
                                                 5.5
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                                           1.52 11.
                                                       4.4 14.
                                                                   6.25
                               3.35
                                     1.45
 1.85
       1.15
            1.57
                   5.55
                         1.82
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                                                 7.8
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            7.25 4.65
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                                                            9.75 6.75
 5.3
 2.05 3.25 12.5
                        6.4
                               4.45 6.95
                                                       1.87 1.83 6.9
                   3.45
                                           3.5
                                                 6.1
             1.62 6.65 6.15
                                           1.42 6.2
                                                                  15.5
                               8.75
                                     1.78
 6.6 11.5
                                                       4.33 15.
 16.
       9.25
             1.88 20.
                         1.67
                               1.91 13.5
                                           1.72
                                                 1.48 14.5 17.
                                                                   1.53
                                                       4.85 2.08 8.15
                              6.05 8.9
 1.25
      5.4
                   7.4
                         7.85
                                           1.58 18.
             1.3
 7.65
      1.22
            1.47 18.5
                         1.63 17.5
                                     1.33 21.
                                                 1.44 1.34
                                                            1.31 16.5
 1.37
                              8.85
                                          5.45 2.42 4.95 9.35 8.3
       1.36
             7.6
                   2.62
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                               6.45
             9.6
                   2.18
                         9.4
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                                          8.05
                                                 1.56 19.5 23.
 5.6
       8.2
                  7.7
                                                       1.28 1.24 1.23
       6.7
 1.26
             6.35
                         8.65 7.9
                                     7.45 10.75
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       1.18
             1.38 29.
                        31.
                              34.
                                     1.17 12.7
                                                 2.07 8.7
                                                             7.55
                                                                  2.77
 19.
             6.55 2.17 7.05 2.72 1.77
 8.6
       7.35
                                          4.77
                                                 5.95 1.1
                                                             9.2
                                                                   9.15
                                     2.02 9.85 2.38 11.25
 1.43
       1.93
             1.27
                   1.13 10.6
                               8.4
                                                             1.16
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 8.35 1.19 4.22 7.95 1.66 1.12 36.
                                           1.76 51.
                                                    41. ]
with total 261
column name :
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column datatype : <class 'numpy.float64'>
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                   1.4
                         4.
                               3.7
                                     2.4
                                           2.1
                                                 1.3
                                                       1.8
                                                             2.5
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                   1.75
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                                     3.9
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 2.2
       4.6
             3.1
                                           2.8
                                                             1.35
                                                                   3.8
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                         1.2
 1.55
       1.6
             1.65
                   4.2
                               3.2
                                     1.45
                                           6.
                                                 1.5
                                                       1.37
                                                             1.33
                                                                   2.9
 3.3
       2.75
             3.
                   1.17
                         4.4
                               1.15
                                     4.8
                                           5.
                                                 1.25
                                                             1.27 12.
                                                        nan
```

2.85 4.5 1.22 3.5 3.6 5.4 2.7 2.55 4.3 2.25 2.65 4.1 7. 4.7 6.5 5.5 2.15 7.3 6.1 5.1 5.6 1.95 8.5 7.5 8. 2.35 1.43 5.9 6.7 6.3 2.05 4.9 5.3 7.6 5.2 3.35 9.5 1.57 9. 1.12 10. 3.05 2.95 1.05 1.1 3.55 1.77 1.23 7.2 1.42 7.8 5.7 1.32 1.53 1.28 1.47 1.18 1.67 7.1 3.85 1.72 4.25 6.6 6.8 3.15 3.45 3.25 1.52 3.75 4.35 5.8 2.62 1.73 1.08 4.85 2.83 7.9 4.65 8.3 1.62 11. 1.114.75 10.3 2.57 2.53 1.13 1.07 12.5 15. 13. 11.5 14. 4.15 7.7 10.5 6.2 6.4 20.] with total 147

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column name : iwd
column datatype : <class 'numpy.float64'>
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                        4.2
                             3.4
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                                               3.5
                                                     5.
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                         nan 4.3
                                    4.7
                                          4.8
 5.5
       6.
             3.6
                   4.5
                                               4.9
                                                     4.1
                                                           4.6
                                                                4.4
 5.7
       5.2
             3.45 5.8
                         3.35
                             3.25
                                    5.3
                                          3.15 6.5
                                                     7.
                                                           6.2
                                                                10.
             3.75 8.
                                          3.85 3.05
                                                     3.65 2.8
                                                                2.9
 7.3
       5.4
                         3.55
                             5.6
                                    5.1
                  2.7
 2.85 2.95 2.6
                        2.1
                              2.4
                                    2.5
                                          4.25
                                               9.5
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             1.55 2.3
                                                                7.2
       7.5
                        1.85
                             1.8
                                    1.5
                                          1.6
                                               9.
                                                     5.9
                                                           6.4
 6.7 11. ]
with total 73
column name : iwa
column datatype : <class 'numpy.float64'>
unique values :
      2.3 6.
                  1.7
                        1.8
                              2.4
                                          8.
                                               3.8
                                                     4.2
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[ 3.5
                                    3.
 2.1
                  2.45 1.75 3.2
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                                          1.85
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                                                                 4.6
           1.65 10.
       2.9
                                                           5.
 2.7
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                                          5.4
                                                     3.4
                                                                 3.7
                              2.
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       2.75 11.
                  3.9 12.
                              5.8
                                    1.55 1.5
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                                                      nan 3.3
                                                                4.3
       1.15 9.5
                       5.2
                              1.45 2.65 2.05 4.1
                                                     7.5
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 8.5
                  3.6
                                                           4.5
             2.55 5.1
 1.35 6.5
                        5.6
                              7.3 10.5 10.3
                                                6.1 12.5
                                                           8.3 13.
           7.6
                        1.37 6.7
                                    2.95 2.85 5.3
                                                          1.43 2.15
 4.9
       4.7
                                                     3.35
                  1.3
          15.
                  1.42 1.33 22.
                                    8.2
                                         1.27 2.25 2.35
                                                          3.55 25.
 3.25 14.
 5.7
      4.45 3.45 1.47 1.28 7.8
                                    7.2
                                         1.67 1.52 1.57 6.6
                                                                1.72
                        7.1
                                               3.85 3.75
 1.87 1.95 16.
                                    4.25
                                         7.9
                  6.8
                              6.3
       7.4 3.15 5.9
                        4.85 1.53 4.35 2.83 4.65 2.62 7.65 3.65
 6.2
 1.25 20. 1.22 1.2 2.57
 1.32 21.
             1.48 19. ]
with total 159
column name :
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column datatype : <class 'numpy.float64'>
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                                    1.83 2.25 1.25 1.29 2.6
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 2.2
       5.5
            1.36 2.75 1.73 1.33 1.91 3.75 2.
                                                     3.
                                                           2.1
                                                                2.4
                                         1.62 2.38 2.88 2.37 6.
1.2 1.22 1.16 3.2 1.6
       1.57 1.72 4.5
                        4.33 2.3
                                    1.17
 1.5
 1.53 2.7
             1.4
                  2.8
                        4.2
                              3.1
                                    1.7
                                                                 1.66
  nan 1.75 1.61 3.6
                        2.62 3.5
                                    3.4
                                          9.
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                                                           2.9
                                                                1.85
 1.3
       1.28 2.87 3.25 6.5
                             1.12 1.1
                                          8.
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                                                     2.85 2.05 2.55
                                    7.5 1.55 1.95 4.1 1.48 3.3 1.08 1.11 1.45 1.15 5.25 10.5
 1.18 3.8
             4.75 2.15 2.45 4.8
                                                                3.3
 1.35
       1.65 5.75 11.
                      12. 10.
 1.6/ 8.5 1.47 2.29 2.04 9.5 4.6 1.09 13. 17. 15. 1.13 1.07 1.77 1.26 1.86 3.9 1.06 1.05 2.35 4.25 2.65 2.63 5.2 6.75 14. 20. 1.21 21. 3.7 1.04 19 26 22
                                                                1.13
with total 129
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column datatype : <class 'numpy.float64'>
unique values :
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                       3.25 4.5
                                    4.33 4.
                                               3.1
[ 3.3
       3.2 3.6
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                                               2.25 5.75 3.9
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             nan 6.
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                                                                3.7
                        4.1
                              2.88 8.
                                                    9.
 5.25 7.
             5.2
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                                         10.
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                                         6.25 4.3 11.
2.38 1.73 2.
 2.8
       2.87 2.3
                   2.4
                        2.75
                              2.5
                                    8.5
                                                          12.
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                  1.91 1.65 2.7
 1.8
       1.9
             2.1
                                    2.2
                                                          1.4
                                                                 1.67
 1.44 2.62 1.83 4.4
                        4.25 9.5 13.
                                         2.85 4.59 10.5 15.
 19.
with total 72
column name :
               lba
column datatype : <class 'numpy.float64'>
unique values :
                                                     9.
[ 3.75 3.5
            2.5
                  6.5
                        1.72 1.62 3.6 2.75 10.
                                                           2.38 4.5
             1.73 7.
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                        1.61 1.66 2.62 12.
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             5.
                        1.67 2.4 2.88 1.5/ Hall 1.4 1.85 8.5 4.2 13. 17.
                                    2.88 1.57 nan 1.83 2.3 1.53
 2.37 3.25 2.
                  11.
             1.91 1.2
                                                           1.29
 1.9
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3.1

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4.75 2.15 2.05 5.75 5.25 1.48 1.36 1.33 1.3 21. 19. 26. 1.25 23. 1.7 4.8 1.22 10.5 2.29 1.45 4.6 2.55 1.55 1.65 3.9 16. 2.45 2.63 4.59 29. 1.35 34. 2.04 1.28 1.16 1.17 41. 51. 1.18 1.1 1.77 1.76 4.25 2.35 2.65 5.2 2.85 18. 20. 31. 36. 4.3 1.38 1.14 11.5 1.12 1.13] with total 128
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column name : psh

column datatype : <class 'numpy.float64'>

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[nan	values 5.1		1.83	1.74	1.58	1.29	1.37	1.76	3.07
3.15	2.19	1.79	1.65	2.09	2.63		1.53	1.55	1.99
4.52	1.89	3.02	2.35	1.59	1.5		7.74	2.53	1.78
3.13	1.6	1.92	1.7	2.36	1.54	5.04	2.16	2.25	1.71
1.56	2.14	3.24	5.42	1.94	1.64	2.67	2.7		2.15
3.28	1.33	2.93	2.44	2.18	3.61 1.57	4.85	3.34	1.43	1.96
6.02	1.95	1.62	1.3	2.97	1.57	3.17	2.54	4.63	1.36
1.38	1.46	4.36	2.55	2.52	5.13	6.	2.78	3.9	5.22
3.42 1.28	1.48 2.72	2.3 2.58	3.35 4.2	2.65 1.45	3.49 1.4	1.41 2.71	2.39 2.77	1.77 2.03	1.52 5.35
2.46	4.57	2.69	2.4	1.43	2.22	1.47	3.18	1.81	1.44
3.71	2.29	2.31	2.68	6.94	1.22	1.66	2.1	4.07	2.98
1.93	2.13	4.31	2.	1.34	4.12	2.56	2.27		1.85
2.95	1.68	3.97	4.06	2.75	1.39	4.35	2.02	3.76	5.01
5.37	1.87	1.88	4.23	2.01	1.97	2.79	1.42	3.29	2.88
1.61	2.45	3.82	3.92	2.61	1.63	1.98	3.04	2.59	4.45
3.95	3.12	2.64 4.49	1.23	2.51 4.28	3.41 3.21	3. 3.26	1.84	2.84	3.69
3.4 1.27	4.67 3.77	4.49	2.07		2.66	4.04	2.38 2.92	2.33 4.91	1.19 2.11
2.74	2.06	2.83	1.72	5.19	2.37	6.71	2.08	1.69	8.37
1.21	2.04	4.64	2.57	8.66	1.2	5.38	3.19	1.49	3.53
7.41	3.3	2.91	2.34	3.32	4.29	1.51	1.32	3.67	5.68
4.1	3.66	2.41	2.23	1.9	4.29 7.81	2.89	4.81	4.3	2.86
4.11	2.43	2.73	6.96	3.05	4.4/	3./5	4.01	4.9	2.17
4.34	5.67	2.42	1.8	2.99	3.88	5.09	2.9	4.89	5.45
3.46 3.79	2.76	1.31 4.71	4.46 2.82	3.47	2.21	1.73 4.54	2.28 2.96	3.55 1.25	2.12 3.44
3.79	3.2 6.6	2.26	7.84	5.66 1.35	3.51 4.18	2.5	3.94	6.45	2.05
4.62	3.59	4.22	3.03	3.39	3.85	6.26	6.83	1.26	1.91
3.7	5.96	4.27	1.82		6.05	5.18	7.1	7.25	4.53
3.89	5.06	1.18	3.57	7.75	4.21	2.24	5.05	3.23	5.36
5.5	1.15	5.34	3.14	4.78	3.62	7.26	2.2	2.49	6.52
3.31	5.24	6.13	4.4	1.75	3.93	4.65	7.48	7.52	5.73
4.	3.56	5.65	4.59	3.78	6.66	3.65	7.62	4.48	4.87
5.71 4.68	6.25 5.9	3.06 4.6	3.8 6.4	1.16 4.5	5.03 5.3	3.38 3.52	4.19 3.01	7.35 3.98	8.35 6.2
5.16	6.79	5.93	3.36	6.32	8.97	3.48	7.05	6.76	6.09
6.42	2.85	5.31	6.59	2.47	3.33	9.03	6.58	2.94	1.13
4.03	6.51	7.99	5.63	6.43	5.98	3.16	3.63	3.87	6.95
5.89	9.51	8.	1.17	3.22	6.89	7.44	3.58	5.97	5.
7.65	6.62	3.11	9.27	4.41	9.63	9.37	4.72	4.86	9.19
8.91	4.95	4.25 4.8	8.38	2.6	3.27	5.79	3.45 5.8	6.87	5.62
6.46 5.54	5.85 3.72	4.8 3.08	4.55 10.2	5.7 2.87	9.85 7.23	9.77 6.88	5.55	3.96 6.77	7.14 6.21
6.65	4.83	3.25	4.58	4.88	6.29	7.17	10.8	5.64	4.93
5.58	4.14	4.24	6.11	8.52	6.15	3.5	5.6	9.2	4.15
5.52	4.66	4.56	8.05	8.5	5.21	5.75	3.91	4.02	8.15
4.79	6.68	5.25	4.75	6.24	3.37	3.6	5.51	5.14	2.81
7.5	4.32	3.84	4.44	7.27	3.64	6.61	5.39	7.91	4.37
4.51	6.55	4.08	4.7	8.34	7.42	4.05	3.1	5.46	5.82
9. 4.96	5.02 5.27	3.73 11.02	8.36 7.33	10.27 3.99	5.33 9.48	9.68 9.1	3.81 4.74	16.92 7.3	9.82 7.87
6.18	4.97	10.47	5.84	10.88	11.07	7.98	7.94	6.01	4.38
8.31	3.43	9.14	4.84	4.42	4.13	10.3	3.74	6.36	5.07
11.25	4.98	7.32	3.68	1.14	7.28	3.83	7.29	5.41	6.64
10.76	7.58	1.1	11.96	7.12	7.95	1.09	8.55	5.53	13.
5.77	4.73	7.09	4.61	8.95	10.71	8.69	9.29	8.99	13.95
7.15	8.4	6.17	8.61	14.24	7.83	4.09	6.37	5.2	7.68
6.1 12.45	11. 7.69	8.25 11.95	1.11 3.54	11.9 12.8	1.12 8.74	1.07 14.35	5.88 13.26	13.51 8.63	4.17 4.16
10.78	9.34	15.25	8.84	13.6	9.7	5.81	5.15	14.15	18.1
9.79	16.6	5.95	5.49	7.07	5.11	15.5	22.3	15.17	7.03
10.55	4.82	5.56	5.4	11.8	9.92	8.82	19.24	12.9	9.55
6.82	17.1	16.2	4.77	10.19	13.83	1.08	8.3		10.85
6.84	8.71	7.06	16.77	18.7	13.31	15.	6.74	12.22	5.92
9.74 4.33	6.56	6.7	6.27	9.78	1.909		23.6	18.5	20. 6.5
4.33 3.86	9.76 8.7	4.69 7.88	8.64 4.99	10.33 9.3	8.42 8.01	8.68 9.36	9.46 10.26	7.04 9.15	6.5 5.76
16.43	5.28	5.99	11.93	10.37		7.46	8.75	4.76	8.03
6.93	7.7	13.91	8.07	6.54	7.71		5.48	7.64	12.72

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with total 948
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column name : psd

<class 'numpy.float64'> column datatype :

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                                                                         6.52
                                                                        6.84
        8.77 12.19
 8.57
                    8.18
                                 6.73
                                        6.83
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                                                     9.37
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                                                                  8.07
                           6.27
 8.41
        6.19
              8.66
                     7.78
                           5.49
                                  6.18
                                        7.94
                                              7.46
                                                     8.02
                                                           6.62
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                                 6.95 10.9 10.76
 8.92
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                           8.74
                                                    14.06
                                                           7.54
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 8.86
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                                 7.99
                                       7.81 12.83
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                                                           8.69 11.79
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                                        8.32 12.2
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                                                           9.27 10.8
 7.39
       7.55 15.
                                                                         8.67
             11.37 10.85 11.96
                                              9.85
11.87 10.7
                                 7.71
                                        6.48
                                                     8.72
                                                           7.76
                                                                  7.24
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 7.36 9.53 10.01 6.58 8.31 13.19 13.3
                                              6.57
                                                                  9.08 13.34
```

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7.95 10.47 10.52 9.06 16.75 10.51 14.
                                             9.45 6.72 14.65 18.88 15.29
 20.36 18.34 18.37 22.68 18.31 19.
                                      15.99 8.48 11.39 8.23 13.15 16.85
 10.39 17.49 7.34 13.52 14.32 19.8 13.4 22.5 11.6 19.75 16. 8.9 17.4 25. 13.25 19.08 10.84 13.49 8.19 15.34 15.5 14.99 9.15 11.1
 18.8 11.45 20.5 11.4 15.75 12.22 8.68 20.
                                                  8.94 9.25 10.49 29.
 13.64 16.5 12.8
                    9.55 9.84 11.
with total 665
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with total 1475
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column datatype : <class 'numpy.float64'>
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                    1.44 4.2
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                          3.
                                1.4
                                       1.9
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                                                               3.2
                                                                      2.1
       1.45
                          1.33
                                       5.
  2.25
             1.5
                    1.6
                                1.36
                                             1.22
                                                   1.65
                                                         1.57
                                                               6.5
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        1.73
              1.67
                    1.17
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                                             3.8
                                                   1.12
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  2.38
       2.62
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                     nan
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                                                   1.53
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                                             2.87
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                    1.55
                          6.
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        4.75 11.
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                          9.5 10.5
                                       3.9 10.
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                                                        12.
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                                                                     3.7
                         4.35 4.25 13.
  1.72 4.1 15.
                                            6.2 19.
                    1.08
                                                        17.
                                                               5.2
                                                                      3.15
             1.16 1.13 1.06 1.05 1.04 1.66 4.9
  1.07 21.
                                                         2.85
  3.45 5.1
              1.02 5.7 23.
                               26. ]
with total 125
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column name :
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                                                                4.8
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                    5.
                                6.5
                          6.
                                       5.5
                                                  4.33
 3.8
        3.6
              3.15
                                                               3.9
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                                             nan
        4.6
              7.5
                    4.75
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       4.4
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                                2.95
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  9.5
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                         2.87
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                                                   1.91
                                                         1.67
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  5.8
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                                            1.53 1.2 11.
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  3.35 12.
                  13.
                         15.
                                2.38 17. ]
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with total 78
column name :
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column datatype :
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unique values :
[ 4.33 3.6
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                          1.7
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                                                   9.5
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        1.75
              8.5
                    2.6
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                                3.25
                                       3.
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                    5.
                                2.62
                                       2.9
                                                         1.57 1.6
       7.75
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  4.5
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              2.5
                    4.8
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                               10.
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                                             3.1
                                                   2.38
                                                        1.8 12.
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                    1.36
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                                1.85 2.45 17.
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                          2.35 5.2 34.
6.2 1.12 4.3
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                    2.85
                                             1.29 3.55 2.95 1.35
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 3.65 3.45 4.7
                    4.35
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                                3.35 4.25 14.
                                                   5.1
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                                                              6.9
  5.6 51.
             41.
                    1.1
                          1.08]
with total 136
column name :
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column datatype : <class 'numpy.float64'>
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                2.63
                       1.44
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                                                                   1.27
  1.8
         2.8
                1.7
                       2.3
                              5.25
                                      4.25
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                                                    2.4
                                                           3.3
                                                                   1.85
  1.4
         1.83
                2.05
                       3.6
                              2.15
                                      2.1
                                             3.5
                                                    2.25
                                                           4.33
                                                                   1.36
  4.75
                2.38
                                                    3.4
         1.62
                       1.67
                              6.
                                      1.2
                                             3.2
                                                           1.5
                                                                  6.5
                              1.18
                                             2.75
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         1.73
                3.
                       2.5
                                      3.25
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                1.75
                                               nan 4.2
                                                                   4.8
  1.22
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                              6.25
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         3.1
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                              3.75 11.
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                                             1.15
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  1.42
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                1.88
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                               2.45
                                      6.75
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                                                            5.2
                                                                   3.9
                              1.909 1.727
                3.12
  9.
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                                             2.375
                                                    1.533 2.62
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                                     1.64
                                                           1.08
  6.15
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  1.41
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                1.1
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                                                   21.
                                                          14.
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        1.07
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                                            23.
  1.05
                6.2
                       8.25
                               3.7
                                                   19.
with total 137
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                       3.75
                              3.4
                                             3.25
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                                                                   4.33
[ 3.3
                                      5.
                                     5.25
                              5.75
 5.5
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                6.5
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                                                             nan 3.1
                                             6.
  3.35
         4.2
                3.65
                       3.45
                               7.5
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                                                                   7.
                               6.25
                                      3.13
                                             4.1
                                                            8.
  4.6
         3.9
                3.
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                                                                   9.
         3.33
                2.88
                               2.75
                                                            3.05
                                                                   3.12
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                                      2.3
                                             2.4
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                       1.73
                               5.6
                                             2.1
                                                            1.91
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                                      1.5
                                                                   2.2
                                                          4.4
                       1.83
                               1.62
                                      2.7
                                             1.8
                                                    2.375
                                                                   3.85
  2.63
         2.
                1.4
         9.5
                                      5.4
                                            12.
 13.
                       2.6
                               6.2
                                                    5.1
                                                          14.
               11.
                                                                  15.
with total 79
column name :
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column datatype : <class 'numpy.float64'>
unique values :
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                       7.5
[ 4.
         3.8
                               1.73
                                      1.67
                                             3.6
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                                                            3.1
 4.25
         2.38
                4.75
                       2.88
                              1.62
                                      1.8
                                             9.
                                                    2.75
                                                            2.1
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                1.95
                       3.3
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                                                    2.8
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                             13.
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         2.3
                      12.
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                                             4.5
                                                    11.
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  6.
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  2.95
                        nan 4.33
                                             9.5
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                                                            2.63
                                                                   1.57
 14.
        16.
                1.18
                       1.45
                               1.44
                                      1.85
                                             1.9
                                                    15.
                                                            5.75
                                                                   4.8
 4.6
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                2.33
                       4.2
                               1.91
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                                             2.91
                                                    3.7
                                                            1.4
                                                                   8.75
  5.2
         2.9
               17.
                       1.65
                              3.9
                                      1.33
                                             2.62
                                                    5.8
                                                            2.875
                                                                 1.727
                6.25
  3.13
         3.12
                      19.
                              1.3
                                      1.36
                                             5.3
                                                    1.25
                                                                   1.29
                                                           21.
 29.
         1.87
                1.6
                       1.47
                              3.33
                                      6.75
                                             2.65
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                                                           1.2
                                                                  23.
  1.86
         1.88 26.
                       1.27
                             34.
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                                                    1.55
                                                           1.64
                                                                  1.571
  1.167 1.615 18.
                       1.17
                              1.13 12.5
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  1.56
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[ 1.65
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                                      4.
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                                               nan
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                                                            2.62
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                                      4.33
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                                                    2.88
                                                            4.75
                                                                   1.36
  7.5
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                                             3.12
                                                    4.6
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                                                                   7.
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                1.364
                       1.444
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                                                                   4.4
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                                             3.7
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  5.3
         2.85
                6.2
                        6.75
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                                      8.5
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                                                    1.11
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  2.875 1.571 1.909
                             10.5
                                             1.533 1.286
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 17.
        12.
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                              1.07
                                    19.
                                             1.833 1.952 2.625
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                                                    1.143 26.
 11.5
        18.
                             20.
                                                                  23.
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  1.333 1.16
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 5.
                5.5
                       3.8
                               4.2
                                                     nan 6.5
                                                                   4.75
         3.6
                                      3.7
                                             6.
  3.
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         4.33
                3.12
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  8.5
         5.75
                3.9
                       5.2
                                      4.1
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                               4.3
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3.85
        3.45
                6.7
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               2.8
                       2.88
                              2.75
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                       2.65
                              3.05
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 10.5
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                              2.15
                                    15.
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                                                          4.333 22.
      23.
               26.
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with total 82
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                                                                 3.8
  3.12
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                4.2
                      15.
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                                            4.4
                                                  17.
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                                                                26.
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               23.
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                                                                 5.75
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                      4.7
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 16.
        21.
                5.9
                       3.45
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                                     1.33
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                                                                 1.615
 4.333 2.875 20.
                             22.
                      18.
                                     3.125
                                            1.364 1.952 31.
                                                                36.
 41.
         1.18 34.
                      51.
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                                                         1.909 1.444
                      2.625 1.667 2.375
 14.
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               1.14
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                                                          1.533 46.
        1.08]
  1.13
with total 151
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[ 1.78 1.85 2.5
                                      1.95
  5.25
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                                                                    3.2
 4.25
                   1.37
                         4.6
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             1.45
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                                      1.62
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                                                                    4.75
                    2.35
                               2.05
                                            1.55
  1.6
        1.2
              1.67
                          2.85
                                      7.
                                                  1.65
                                                        3.
                                                                    1.35
                                      2.55
       1.18
                                                        6.25
             3.4
                    2.65
                         1.57
                                            1.73
                                                  1.83
  2.9
                                2.7
                                                               nan
                                                                   4.
  4.4
        1.36
              1.15
                   3.75 10.
                                1.47
                                      1.9
                                            6.5
                                                  1.22
                                                        5.5
                                                              5.
                                                                    3.7
                    4.33
                         1.72
                                      1.38
                                                  3.25
                                                              1.48
                               1.42
                                            4.2
                                                                   6.75
        3.3
              3.5
                                                        1.44
  6.
  3.15
       1.28
             1.14 1.87
                         8.5
                                2.95
                                     1.91
                                            1.34
                                                  5.75
                                                       1.26
                                                             1.88 3.9
       7.25
                                      3.45
  8.
             1.16 9.
                         7.5
                                2.63
                                            1.77
                                                  1.17 11.
                                                              1.13 3.8
                   1.23 12.
                                7.75
                                      2.38
  1.1
        1.12
             9.5
                                            3.65
                                                  3.55
                                                       1.32 3.05
                                                                    1.19
                                                  2.07 1.31 17.
                   4.3 13.
       3.35
             4.7
                               9.25 1.11 10.5
                                                                    3.85
  1.63
       1.43
                   1.93 8.75 5.3 21.
                                           4.9
                                                  5.05 16.
                                                              1.82
             5.4
            1.09 9.75 1.06 1.56 1.89 11.5
                                                  8.25 12.5
       1.08
                                                              2.86
  1.05
  1.29
       1.07 15.
                   14. ]
with total 159
column name :
               gbd
column datatype : <class 'numpy.float64'>
 unique values :
             3.75
                   3.5
                          3.4
                                3.3
                                      5.
                                            3.6
                                                  4.75 4.2
                                                                    4.25
[ 3.25 3.2
                                                              3.8
  4.5
              3.1
                    4.
                          6.
                                4.1
                                      3.9
                                            5.75
                                                 5.25
                                                       4.33
                                                              3.35
        5.5
                                                                     nan
       6.25
                   4.4
                                4.6
                                            2.95
             3.15
                          3.7
                                      7.
                                                        7.5
                                                              3.65
                                                                    3.45
  6.5
                                                  3.
  3.33
       7.25
              3.85
                   8.
                          6.75
                               8.5
                                      2.9
                                            2.8
                                                  2.85
                                                        2.75
                                                              2.35
                                                                    2.4
      9.25
             9.
                    6.35
                         3.05
                               2.55
                                     1.95 1.85
                                                 2.1
  2.65
                                                        1.7
                                                              2.05
                                                                    1.8
  2.6
       2.25 2.3
                    2.2
                          1.75
                               1.45
                                     2.5
                                            2.7
                                                  3.55 5.35 3.95
                                                                    4.3
             2.15 5.85
  4.05 8.25
                         1.67
                               2.
                                      5.05
                                           7.75 9.75 11.
                                                             10.
                                                                    8.75
  9.5]
with total 84
column name :
                gba
column datatype : <class 'numpy.float64'>
unique values :
[ 4.
       3.75 2.5
                    5.5
                          1.65 1.7
                                      2.25 2.8
                                                 10.
                                                        2.35 4.25 2.85
                                                  1.95 3.2
  1.6
        1.8
             7.5
                    2.75
                         2.15
                               4.2
                                      7.
                                            3.5
                                                             8.5
                                                                    2.1
  3.
        1.75
             8.
                    1.73
                         6.
                                5.25
                                      3.1
                                            2.9
                                                  4.4
                                                        5.
                                                             11.
                                                                    4.6
                                                  2.45 12.
  2.3
        2.2
              3.3
                    2.6
                          1.4
                                5.75
                                     4.75
                                            2.7
                                                              6.5
                                                                    2.
                                                  1.83 2.05
        1.67
             4.33
                    3.7
                          1.55
                               9.
                                      nan
                                            3.6
                                                             3.15 1.72
       2.4
                          3.4
                                                                   1.9
             7.75
                                4.3 13.
                                            1.85 1.18 1.45 2.65
  4.8
                   3.8
                          3.25
                                2.55
                                     9.5
                                            4.1
  6.25
       3.9
              1.5
                    1.77
                                                  1.62
                                                        1.57 15.
                                                                    3.85
```

1.87 6.75 7.25 1.88 2.95 17.

2.38

1.48

1.33 9.25

1.53 16.

```
1.3 14.
             1.42 1.36 2.63 3.35 1.46 1.44 1.37 12.5
                                     1.91 13.5
 19.
       1.35 21.
                   4.9
                         1.25 10.5
                                                8.25 9.75 11.5
                                                                   1.78
                        4.15 15.5 20. 17.5 18.5 14.5
 8.75
       4.7
             3.55
                  1.47
                                                             5.6
                                                                   1.63
             1.34 18.
 5.2
       1.2
                         1.22
                              3.45 1.12 6.15 6.35
                                                      3.95
                                                            5.85
                                                                  4.55
                                     7.7 19.5
       7.85 4.65 7.9
                         3.05 6.9
                                                 5.35 1.13
                                                            1.15
                                                                  5.05
       7.85 4.03 ...
1.93 1.38 1.17 26.
                              1.23 25.
 6.8
                                           1.26 1.32 16.5
                                                             2.86
24.
      34.
with total 172
column name :
               bsh
                   <class 'numpy.float64'>
column datatype :
unique values :
                   1.44 4.75
                               nan 2.1
                                           2.88 2.25 1.29 1.25 2.62
[ 1.73 1.91 2.3
 1.83 2.75 1.7
                         3.8
                               1.3
                                     3.1
                                           1.36 1.8
                   6.
                                                       2.
                                                            2.5
                                                 2.38 1.57 1.2
                   1.5
                               1.33 4.5
 2.2
       4.33 4.2
                         1.6
                                           5.
                                                                  1.67
 3.3
       2.7
             7.
                   1.53
                         2.4
                               1.14 1.62
                                           2.8
                                                 1.4
                                                       3.
                                                            1.75
                                                                  1.17
             1.95
                                           2.15 2.6
 1.18
                  1.22
                         3.4
                                                            2.05
                                                                  3.25
       5.5
                               9.
                                     3.6
                                                       6.5
       2.37 4.
                   3.75
                         5.4
                               1.28 1.12
                                                      2.87 8.5
 3.2
                                           8.
                                                 1.61
                                                                  7.5
       1.85 1.65 11.
                         6.75
                               2.9 12.
                                           5.25 1.9
                                                      6.25
 10.
                                                            1.1
                                                                   1.11
             9.5
                   2.45
                        2.17
                               2.63 17.
                                           1.55 15.
 3.9
      13.
                                                            1.08
 1.07 1.04 1.05 1.45 1.97 2.55]
with total 101
column name :
               bsd
column datatype : <class 'numpy.float64'>
unique values :
[ 3.4
       3.25 3.2
                   3.75
                        3.3
                                nan 4.5
                                           5.
                                                3.6
                                                       4.2
                                                             3.1
                                                                  3.5
       4.
             4.33
                   5.5
                         4.75
                               6.5
                                     3.8
                                           7.
                                                 5.4
                                                       5.25
                                                            3.7
 6.
                                                                  3.
 3.9
             7.5
                   5.75
                         8.
                               8.5
                                     2.88
                                           2.9
                                                 2.38
                                                      2.8
                                                             2.4
                                                                   2.62
 2.75 1.91 2.1
                   1.67
                         2.
                                     1.33 2.25 1.4
                                                            1.73 1.44
                               1.7
                                                       2.6
 2.5
      2.7
             2.15 2.2
                         9.
                              10.
                                    13.
                                          11.
                                                12.
                                                       3.45 5.95
with total 59
column name :
               bsa
column datatype :
                  <class 'numpy.float64'>
unique values :
            2.75
                   6.5
                         1.67
                               nan 3.1
                                           2.2
                                                2.8
                                                      9.
                                                            2.38
                                                                  3.8
[ 4.2
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       4.33 1.5
 2.3
                   1.83
                        8.5
                               2.7
                                     2.1
                                           4.5
                                                 7.
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                                                            3.3
                                                                   2.5
 1.91 2.9
                   3.4
                         1.73
                              6.
                                     5.
                                           2.88 7.5
                                                       1.62 2.62 5.5
             3.
 10.
       4.75
            2.
                   1.4
                         3.5
                              15.
                                     2.25 2.15 11.
                                                       1.75 12.
                                                                  2.6
 1.53
       1.7
             1.95
                   5.4
                         1.2
                               1.57
                                     1.85 13.
                                                2.4
                                                       1.44 3.2
                                                                  8.
                                                 1.33 1.29 23.
 3.75
       2.05
             2.37
                   1.61
                         1.8
                               3.25
                                     2.87 17.
                                                                 19.
                                          1.25 1.55 26.
 1.36 9.5
             5.75
                   5.25
                         3.7
                              21.
                                     1.3
                                                            1.22 3.9
 1.6
       2.63 10.5
                   1.12
                        4.6
                              1.17 16.
                                          29.
                                                34.
                                                       1.14 1.18 2.55
 3.15]
with total 96
columns with null values count :
home team short name
                            0
home team long name
away_team_short_name
                           Θ
away team_long_name
league name
                           0
gbd
                       11817
gba
                       11817
bsh
                       11818
bsd
                       11818
                       11818
bsa
Length: 120, dtype: int64
with total 407395
```

columns with duplicates count :

0

```
In [22]:
```

```
df_mathces_info.describe()
```

Out[22]:

	id	country_id	league_id	stage	match_api_id	home_team_api_id	away_team_api_id	home_team_goal	a١
count	25979.000000	25979.000000	25979.000000	25979.000000	2.597900e+04	25979.000000	25979.000000	25979.000000	_
mean	12990.000000	11738.630317	11738.630317	18.242773	1.195429e+06	9984.371993	9984.475115	1.544594	
std	7499.635658	7553.936759	7553.936759	10.407354	4.946279e+05	14087.453758	14087.445135	1.297158	
min	1.000000	1.000000	1.000000	1.000000	4.831290e+05	1601.000000	1601.000000	0.000000	
25%	6495.500000	4769.000000	4769.000000	9.000000	7.684365e+05	8475.000000	8475.000000	1.000000	
50%	12990.000000	10257.000000	10257.000000	18.000000	1.147511e+06	8697.000000	8697.000000	1.000000	
75%	19484.500000	17642.000000	17642.000000	27.000000	1.709852e+06	9925.000000	9925.000000	2.000000	
max	25979.000000	24558.000000	24558.000000	38.000000	2.216672e+06	274581.000000	274581.000000	10.000000	

8 rows × 105 columns

Comments:

- · The data from the matches seems missy
- · Attributes like shoton , goal ,...etc are in xml format
- · Attributes like sja, vch, vcd are numerical values which are odds from different websits in decimal formats
- · Fortunately we don't need any of these attributes to answer our questions .so, we will drop them and just keep home_team_goal and away_team_goal ,home_team_name and away_team_name,season
- · season attribute ranges from season 2008/2009 to 2015/2016
- · Null values in card attribute means there is no red/yellow cards in this match or it's unknown

Data Cleaning

Note:

This part of the section depend on the previous part. We will focus on the problems we have stated earlier and try to solve it.

Teams_Dataset

```
In [23]:
```

```
# first let's drop unneccessary columns
df_teams_info.drop(['id','team_fifa_api_id','team_api_id','buildupplaydribbling'],axis=1,inplace=True)
```

```
In [24]:
```

```
# change datatype for date
df_teams_info['date'] = pd.to_datetime(df_teams_info['date'])
# check for that
df_teams_info[['date']].dtypes
```

Out[24]:

date datetime64[ns]
dtype: object

In [25]:

```
# we have to rearange our dataset suchthat team name followed by the other attributes
# let's change short name attribute first
short_name = df_teams_info.pop('team_short_name')
df_teams_info.insert(0, 'team_short_name', short_name)
# change long name attribute
long_name = df_teams_info.pop('team_long_name')
df_teams_info.insert(1, 'team_long_name', long_name)
```

In [26]:

```
# check for changes
df_teams_info.head()
```

Out[26]:

	team_short_name	team_long_name	date	buildupplayspeed	buildupplayspeedclass	buildupplaydribblingclass	buildupplaypassing	bui
0	AAR	FC Aarau	2010- 02-22	60	Balanced	Little	50	
1	AAR	FC Aarau	2014- 09-19	52	Balanced	Normal	56	
2	AAR	FC Aarau	2015- 09-10	47	Balanced	Normal	54	
3	ABE	Aberdeen	2010- 02-22	70	Fast	Little	70	
4	ABE	Aberdeen	2011- 02-22	47	Balanced	Little	52	

5 rows × 23 columns

Note:

The dataset came from a database that's why it seems almost clean

Players_Dataset

In [27]:

```
# first let's drop unneccessary columns
df_players_info.drop(['id','player_fifa_api_id'],axis=1,inplace=True)
```

In [28]:

```
# change datatype for date and birthday
df_players_info['date'] = pd.to_datetime(df_players_info['date'])
df_players_info['birthday'] = pd.to_datetime(df_players_info['birthday'])
# check for that
df_players_info[['date','birthday']].dtypes
```

Out[28]:

date datetime64[ns] birthday datetime64[ns]

dtype: object

In [29]:

```
# change datatype from object to int or float
# since we have many attributes so using ""infer_objects" method will ease our mission
df_players_info = df_players_info.infer_objects()
# check for the datatypes
df_players_info.dtypes
```

Out[29]:

object
datetime64[ns]
float64
int64
int64
datetime64[ns]
float64
float64
object
object
object
float64

In [30]:

df_players_info.head()

Out[30]:

	player_name	birthday	height	weight	player_api_id	date	overall_rating	potential	preferred_foot	attacking_work_rate	 visio
0	Aaron Appindangoye	1992- 02-29	182.88	187	505942	2016- 02-18	67.0	71.0	right	medium	 54.
1	Aaron Appindangoye	1992- 02-29	182.88	187	505942	2015- 11-19	67.0	71.0	right	medium	 54.
2	Aaron Appindangoye	1992- 02-29	182.88	187	505942	2015- 09-21	62.0	66.0	right	medium	 54.
3	Aaron Appindangoye	1992- 02-29	182.88	187	505942	2015- 03-20	61.0	65.0	right	medium	 53.
4	Aaron Appindangoye	1992- 02-29	182.88	187	505942	2007- 02-22	61.0	65.0	right	medium	 53.

In [31]:

In [32]:

```
# check for heading_accuracy value of Abdeslam Ouaddou player
# what we have done her is just calculate the mean of the previous score for Abdeslam Ouaddou (70+80+80+80)/5
=
df_players_info.query('player_name == "Abdeslam Ouaddou"')[['heading_accuracy']]
```

Out[32]:

	heading_accuracy
478	70.0
479	80.0
480	80.0
481	80.0
482	80.0
483	78.0

In [33]:

```
# select null columns which are categorical
null_column = ['preferred_foot','attacking_work_rate','defensive_work_rate']
# loop through all of these columns
for column in null_column :
     # replace each null value with the previous value
     df_players_info[column].fillna(method = 'ffill',inplace = True)
```

In [34]:

```
# check for preferred_foot value of Abdeslam Ouaddou player
df_players_info.query('player_name == "Abdeslam Ouaddou"')[['preferred_foot']]
```

Out[34]:

	preferred_foot
478	right
479	right
480	right
481	right
482	right
483	right

```
In [35]:
```

```
# let's check again for null values
df_players_info.isnull().sum()
```

Out[35]:

0 player_name 0 birthday 0 height weight 0 player_api_id 0 date 0 0 overall_rating potential 0 preferred foot attacking_work_rate 0 defensive_work_rate 0 0 crossing finishing 0 heading_accuracy 0 short_passing volleys 1848 dribbling 1848 curve free_kick_accuracy 0 0 long_passing ball control acceleration 0 sprint_speed 0 1848 agility reactions 1848 balance shot power 0 1848 jumping stamina 0 0 strength long_shots 0 0 aggression interceptions 0 0 positioning vision 1848 penalties Θ marking 0 0 standing_tackle sliding_tackle 1848 0 gk_diving gk_handling 0 gk_kicking 0 gk_positioning 0 0 gk_reflexes dtype: int64

In [36]:

```
# we will use fowrard filling method to fill this null values
df_players_info = df_players_info.fillna(method='ffill',axis = 1)
```

In [37]:

```
# check for vision value of Abdeslam Ouaddou player
df_players_info.query('player_name == "Abdeslam Ouaddou"')[['vision']]
```

Out[37]:

	vision
478	70.0
479	71.0
480	71.0
481	71.0
482	71.0
483	70.8

```
In [38]:
```

```
# let's check again for null values
df_players_info.isnull().sum()
```

Out[38]:

player_name 0 birthday 0 height weight 0 player_api_id date Θ overall rating 0 potential 0 preferred foot attacking_work_rate 0 defensive_work_rate crossing 0 finishing 0 heading_accuracy short_passing volleys 0 dribbling 0 curve free_kick_accuracy 0 0 long_passing ball control acceleration Θ sprint speed 0 Θ agility reactions 0 0 balance shot power 0 0 jumping stamina 0 0 strength long_shots 0 Θ aggression interceptions 0 positioning 0 vision 0 penalties Θ marking 0 standing_tackle sliding_tackle 0 gk_diving 0 gk_handling 0 gk_kicking 0 gk_positioning 0 0 gk_reflexes

Matches_Dataset

dtype: int64

In [39]:

```
# store card and date columns in seperate dataframe to converted to tabular form
cards_info = df_mathces_info[['card','date']]
# we will just kepp the attributes that we want and drop the rest of them
df_mathces_info = df_mathces_info[['home_team_short_name', 'home_team_long_name','home_team_goal', 'away_team_sho
rt_name','away_team_long_name','away_team_goal','league_name', 'date', 'season','home_team_api_id','away_team_api
_id']]
```

In [40]:

```
# change datatype for date
df_mathces_info['date'] = pd.to_datetime(df_mathces_info['date'])
# check for that
df_mathces_info[['date']].dtypes
```

Out[40]:

```
date datetime64[ns]
```

dtype: object

```
In [41]:
```

In [42]:

dtype='object')

```
# in this section we will extract the players and the cards they have taken in specific date from xml files
# remove nulls from card column
cards info = cards info[cards info.card.notnull()]
# let's extract players ids with card type red/yellow using beautifulsoup
# define the following empty lists
player_id = []
card_type = []
dates = []
# extract the each xml file with the corresponding date
for xml, date in zip( cards_info.card, cards_info.date) :
    soup = BeautifulSoup( xml, 'lxml')
                                               # parse the xml file to be converted into html
    players = [id.string for id in soup.find_all('player1')] # find all the players within player1 tag
    cards = [type.string for type in soup.find all('card type')] # find all the cards within card type tag
    # sometimes card_type tag is not present so we replace it with comment tag
    comments = [comment.string for comment in soup.find_all('comment')]
   # we need to make the two lists cards and players consistent
    # if the we have players equal to cards that means our lists are consistent
   if len(players) == len(cards) :
        player_id.extend(players) # append the current list with the bigger list
        card type.extend(cards) # the samething here
        dates.extend([date for e in range(len(players))]) # repeat the date along with the players list
   # if the we have players not equal cards then use comments instead
   elif len(players) == len(comments) :
       player_id.extend(players)
        card_type.extend(comments)
       dates.extend([date for e in range(len(players))])
    # if the we have players not equal to cards or comments then there isn't enough information
    # that means we have palyers with unknown card types or card types with unknown players
   else:
       continue
# store the data into dataframe
cards info = pd.DataFrame({"player id":player id,"card type":card type,"date":dates})
```

```
In [43]:
# explore the new dataset
explore_dataset(cards_info)
we have 61767 rows and 3 columns
                 player id
column datatype : <class 'bs4.element.NavigableString'>
 unique values :
['24157' '30362' '30829' ... '25794' '95861' '214344']
with total 5864
column name :
                 card_type
column datatype : <class 'bs4.element.NavigableString'>
 unique values :
['y' 'y2' 'r']
with total 3
column name :
                 date
column datatype : <class 'str'>
 unique values :
['2008-08-17 00:00:00' '2008-08-16 00:00:00' '2008-10-29 00:00:00' ... '2016-05-16 00:00:00' '2016-05-22 00:00:00' '2016-05-25 00:00:00']
with total 1347
columns with null values count :
 player_id
              0
              Θ
card_type
date
dtype: int64
 with total 0
columns with duplicates count :
9
In [44]:
# change the datetype of date
cards_info.date = pd.to_datetime(cards_info.date)
In [45]:
# print the first 5 rows
cards_info.head()
Out[45]:
```

player_id card_type

24157

30362

30829

37442

46621

0

1

2

date

y 2008-08-17

y 2008-08-17

y 2008-08-17

y 2008-08-16

y 2008-08-16

Exploratory Data Analysis

Sections:

- ▶ Research Question 1
- ▶ Research Question 2
- ▶ Research Question 3

Research Question 1:

which teams has improved through all seasons in Spain LIGA BBVA?

Main Points:

- 1. select the Spain LIGA BBVA league
- 2. define a function to plot the results to avoid code redundency
- 3. call the function and comment on each season

------select the Spain LIGA BBVA league------select the Spain LIGA BBVA league-----

```
In [46]:
```

```
df_matches_spain = df_mathces_info.query('league_name == "Spain LIGA BBVA"')
```

In [47]:

```
# unique seasons
df_matches_spain.season.unique()
```

Out[47]:

```
array(['2008/2009', '2009/2010', '2010/2011', '2011/2012', '2012/2013', '2013/2014', '2014/2015', '2015/2016'], dtype=object)
```

-----define a function to plot the results to avoid code redundency------

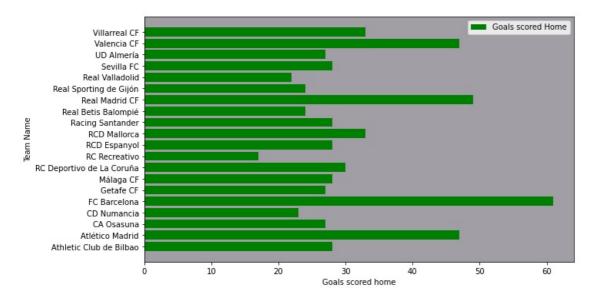
In [48]:

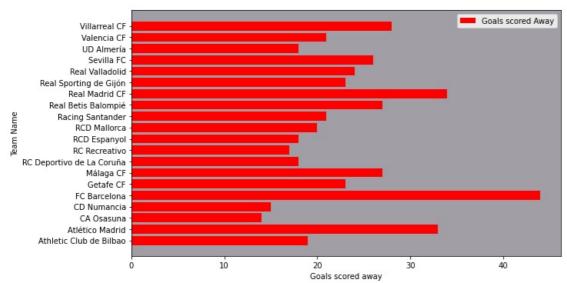
```
def compare_goals(season ,league,df):
    fig , (ax1 , ax2, ax3) = plt.subplots(3, figsize=(10,20))
    fig.suptitle("comparison Between goals scored Away and Home "+"\n"+"season : "+season+"\n"+league+" League")
   fig.patch.set_facecolor("#FFFFFF")
    # get the data related with season variable
   q = df.query("season == @season")
    # group by home goals
   home_goals = q.groupby(['season','home_team_long_name'])[['home_team_goal']].sum().reset_index()
   # select x and height for home teams
   x1 = home_goals['home_team_long_name']
   height1 = home_goals['home_team_goal']
   # group by away goals
   away_goals = q.groupby(['season','away_team_long_name'])[['away_team_goal']].sum().reset_index()
   # select x and height for away teams
   x2 = away_goals['away_team_long_name']
   height2 = away_goals['away_team_goal']
   # plot the home team goals
   ax1.set_xlabel("Goals scored home")
   ax1.set_ylabel("Team Name")
   ax1.set_facecolor('#A19FA5')
   ax1.barh( x1, height1, color = "g", label = "Goals scored Home")
   ax1.legend()
   # plot the away team goals
   ax2.set_xlabel("Goals scored away")
ax2.set_ylabel("Team Name")
   ax2.set facecolor('#A19FA5')
   ax2.barh(x2,height2,color='r', label = "Goals scored Away")
   ax2.legend()
   # stacked barchart to easily compare between them
   labels = list(home_goals['home_team_long_name'])
   x = np.arange(len(labels))
   width = 0.8
   ax3.set_facecolor('#A19FA5')
   ax3.barh( labels, height1, width ,label = 'Goals scored Home', color = 'g')
   ax3.barh( labels, height2, width,left = height1, label = 'Goals scored Away', color = 'r')
   ax3.set_xlabel("Goals scored [home-away]")
   ax3.set_ylabel("Team Name")
   ax3.legend()
   plt.show()
```

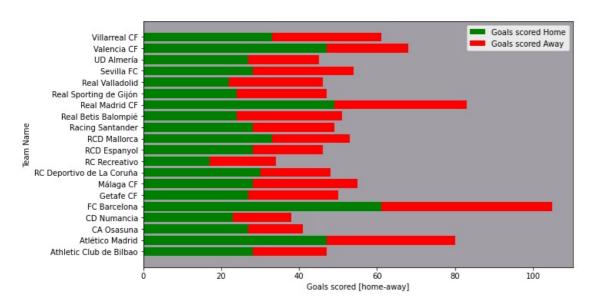
-----call the function and comment on each season-----

In [49]:

```
compare_goals('2008/2009','Spain LIGA BBVA',df_matches_spain)
```





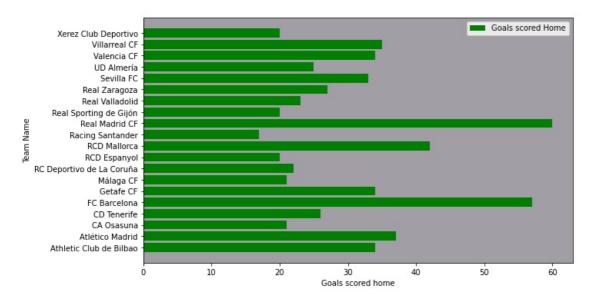


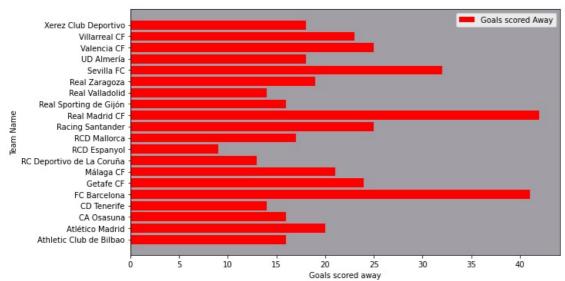
season 2008/2009:

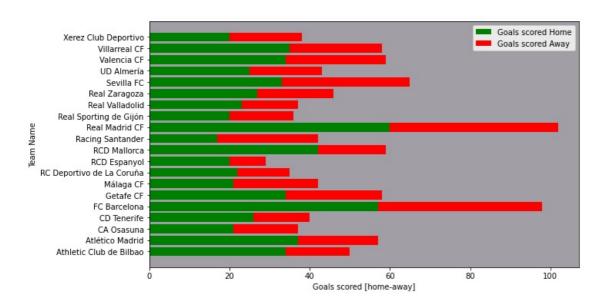
Barcelona has the heighest score with more than 100 goals most of them scored Home
Real Madrid has the second heighest score with more than 80 goals most of them scored Home
Atlitco Madrid has the third heighest score with 80 goalsmost of them scored Home
Recreativo has the lowest score with less than 40 goals

In [50]:

compare_goals('2009/2010','Spain LIGA BBVA',df_matches_spain)





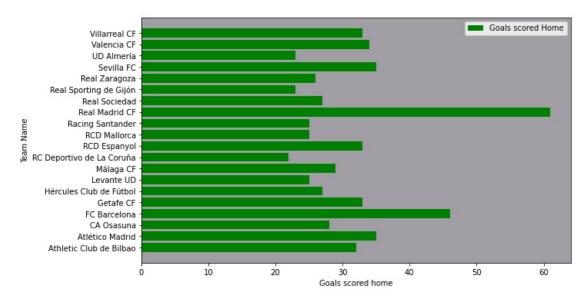


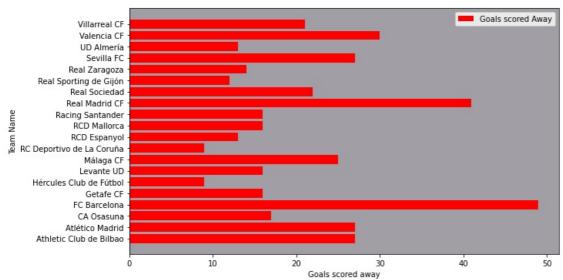
season 2009/2010:

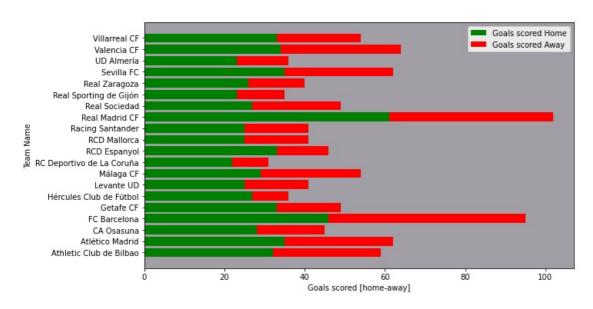
Real Madrid has the heighest score with more than 100 goals most of them scored Home Real Madrid has the second heighest score with 100 goals most of them scored Home Sevilla has the third heighest score with 60 goals most of them scored Home Espanyol has the lowest score with less than 40 goals

In [51]:

compare_goals('2010/2011','Spain LIGA BBVA',df_matches_spain)





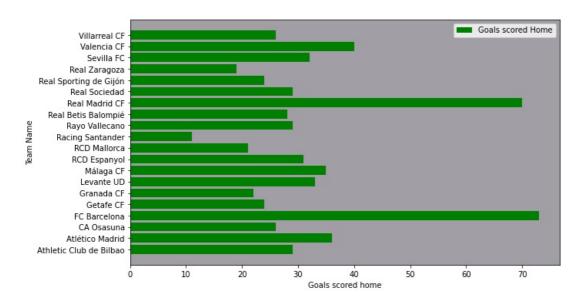


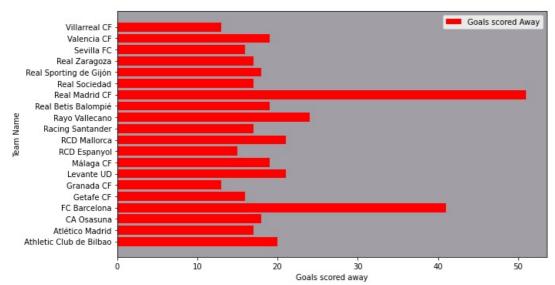
season 2010/2011:

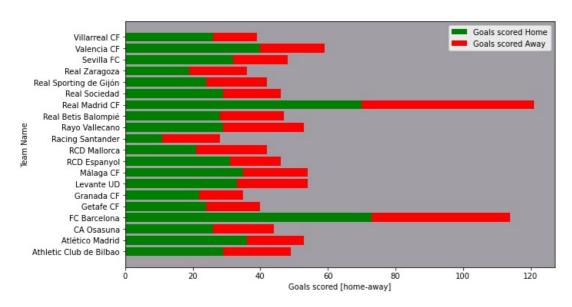
Real Madrid has the heighest score with more than 100 goals most of them scored Home
Barcelona has the second heighest score with less than 100 goals most of them scored Away
Valencia has the third heighest score with 60 goals most of them scored Home
Deportivo de la coruna has the lowest score with less than 40 goals

In [52]:

compare_goals('2011/2012','Spain LIGA BBVA',df_matches_spain)





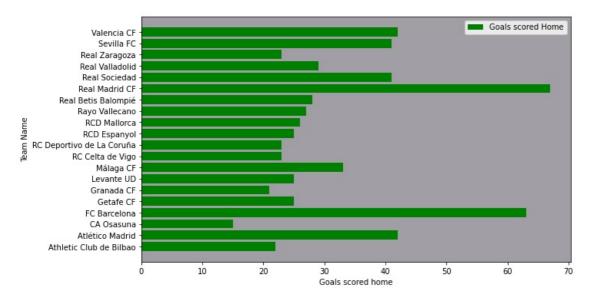


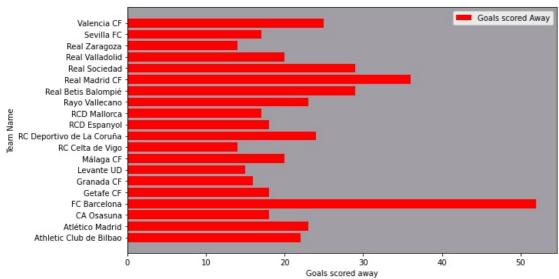
season 2011/2012:

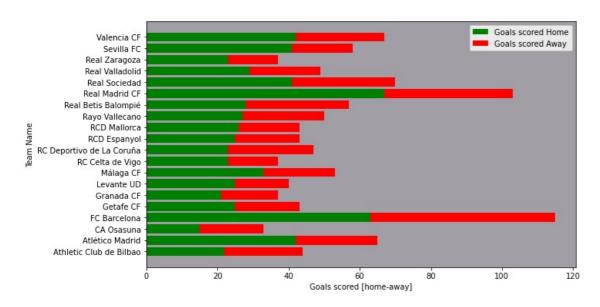
Real Madrid has the heighest score with 120 goals most of them scored Home
Barcelona has the second heighest score with more than 100 goals most of them scored Home
Valencia has the third heighest score with 60 goals most of them scored Home
Racing santander has the lowest score with less than 40 goals

In [53]:

compare_goals('2012/2013','Spain LIGA BBVA',df_matches_spain)





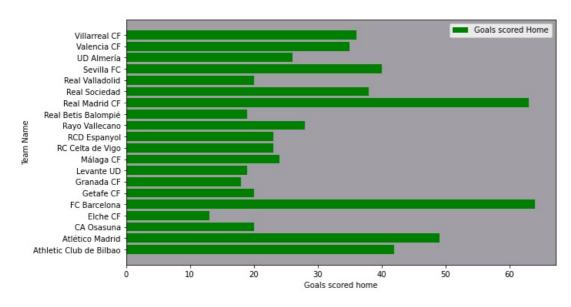


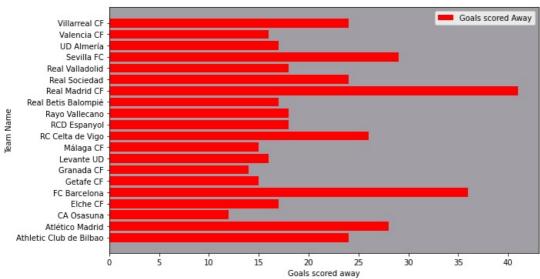
season 2012/2013:

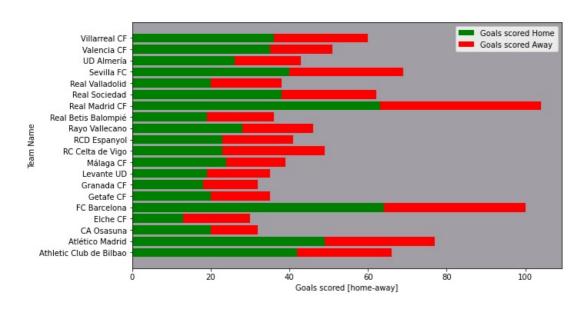
Barcelona has the heighest score with more than 100 goals most of them scored Home
Real Madrid has the second heighest score with more than 100 goals most of them scored Home
Real sociedad has the third heighest score with more than 60 goals most of them scored Home
Osasuna has the lowest score with less than 40 goals

In [54]:

compare_goals('2013/2014','Spain LIGA BBVA',df_matches_spain)





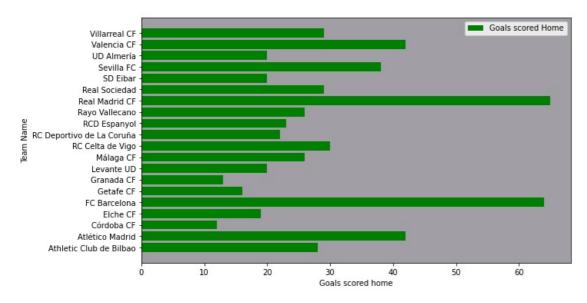


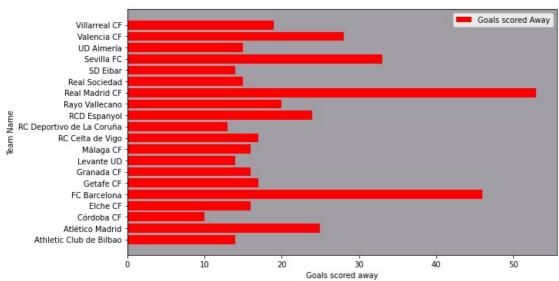
season 2013/2014:

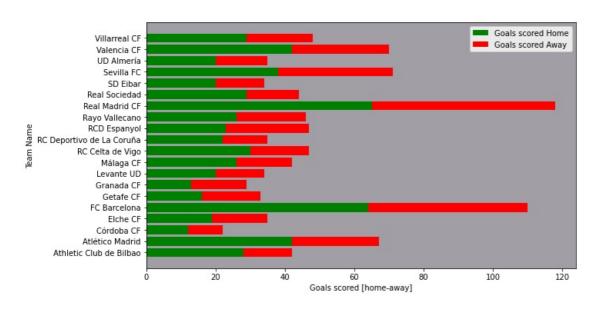
Real Madrid has the heighest score with more than 100 goals most of them scored Home Barcelona has the second heighest score with 100 goals most of them scored Home Atletico Madrid has the third heighest score with 60 goals most of them scored Home Elche has the lowest score with less than 40 goals

In [55]:

compare_goals('2014/2015','Spain LIGA BBVA',df_matches_spain)





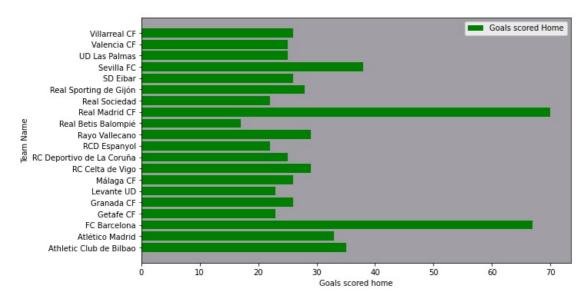


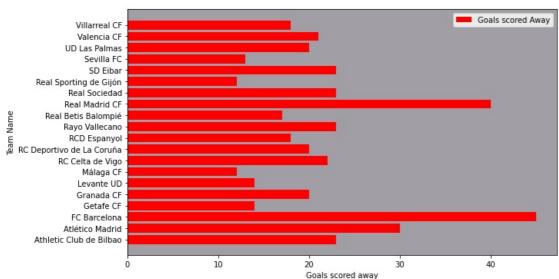
season 2014/2015:

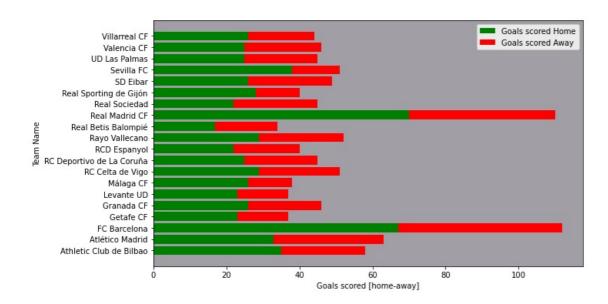
Real Madrid has the heighest score with more than 100 goals most of them scored Home
Barcelona has the second heighest score with more than 100 goals most of them scored Home
Sevilla has the third heighest score with 60 goals most of them scored Home
Cordoba has the lowest score with 20 goals

In [56]:

compare_goals('2015/2016','Spain LIGA BBVA',df_matches_spain)







season 2015/2016:

Barcelona has the heighest score with more than 100 goals most of them scored Home
Real Madrid has the second heighest score with more than 100 goals most of them scored Home
Atletico Madrid has the third heighest score with 60 goals most of them scored Home
Real betis balompie has the lowest score with less than 40 goals

Research Question 2:

How is the player's physical power related to weight and height?

Main Points:

- 1. The physical power can be determined by some attributes like Acceleration, Agility, Balance, jumping, stamina and strength
- 2. select specific date to deal with
- 3. Find the distribution of weight
- 4. Find the distribution of height
- 5. Check if there any correlation between weight and height
- 6. Check for the correaltion between weight and all the attributes
- 7. Check for the correlation between height and all the attributes Note: use correlation value R^2 such that : $R^2 \approx \pm 0.4$ or higher

In [57]:

```
physical_attr = df_players_info[['player_name','date','acceleration','agility','balance','jumping','stamina','str
ength','reactions','weight','height']]
```

In [58]:

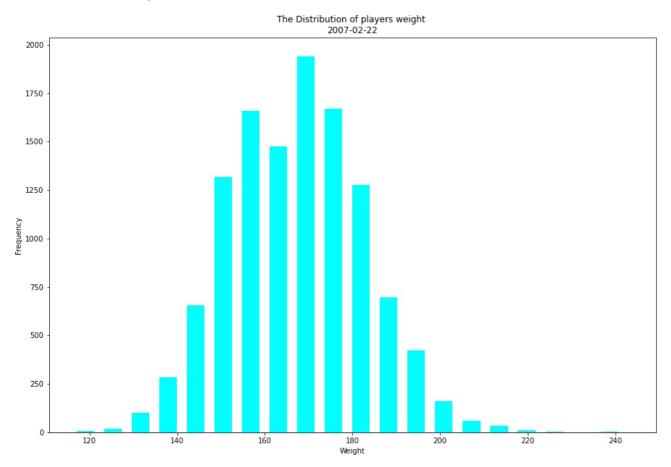
```
# select data within date 2007-02-22
# you can find unique dates in the previous phase Data Wrangling
physical_attr_227 = physical_attr.query('date == 20070222')
# make sure datatypes are consistent
physical_attr_227 = physical_attr_227.infer_objects()
```

......View the distribution of Weight.....

In [59]:

```
# view the distribution of players weight in this date
weight = physical_attr_227['weight']
plt.figure(figsize=(15,10))
plt.title("The Distribution of players weight "+"\n2007-02-22")
plt.ylabel("Frequency")
plt.xlabel("Weight")
plt.hist( weight,bins = 20,color='cyan',width=4);
print("The mean value of weight is {}".format(np.mean(weight)))
```

The mean value of weight is 168.44942294636795



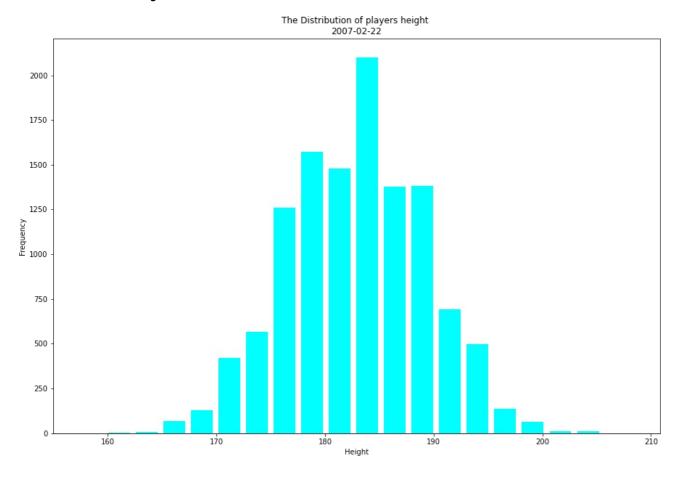
The players weight are normally distributed

.....View the distribution of Height.....

In [60]:

```
# view the distribution of players height in this date
height = physical_attr_227['height']
plt.figure(figsize=(15,10))
plt.title("The Distribution of players height "+"\n2007-02-22")
plt.ylabel("Frequency")
plt.xlabel("Height")
plt.hist( height,bins =20,color='cyan',width=2);
print("The mean value of height is {}".format(np.mean(height)))
```

The mean value of height is 181.86908689747958



The same thing for players height

......View the correlation between Height and Weight......

In [61]:

```
# let's see if there any correlation between weight and height
height = physical_attr_227['height']
weight = physical_attr_227['weight']
plt.title("The correlation between players height and weight "+"\n2007-02-22")
plt.ylabel("Weight")
plt.xlabel("Height")
plt.scatter( height, weight, color='blue');
```

The correlation between players height and weight 2007-02-22

......View Which attribute has a correlation with Weight.....

In [62]:

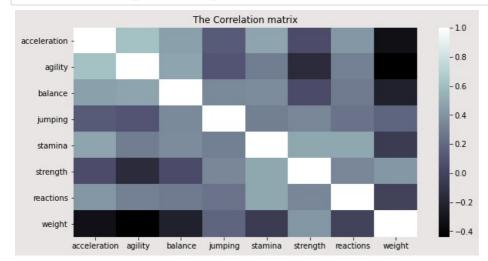
```
# build a correlation matrix between weight and all the other attributes
weight_correlation_matrix =physical_attr_227[['acceleration','agility','balance','jumping','stamina','strength','
reactions','weight']].corr()
weight_correlation_matrix
```

Out[62]:

	acceleration	agility	balance	jumping	stamina	strength	reactions	weight
acceleration	1.000000	0.613982	0.454475	0.130513	0.474922	0.052010	0.411562	-0.337811
agility	0.613982	1.000000	0.472631	0.099194	0.286786	-0.163240	0.310720	-0.439215
balance	0.454475	0.472631	1.000000	0.351952	0.359711	0.048557	0.282136	-0.220130
jumping	0.130513	0.099194	0.351952	1.000000	0.297487	0.338856	0.242815	0.175596
stamina	0.474922	0.286786	0.359711	0.297487	1.000000	0.483845	0.483094	-0.061764
strength	0.052010	-0.163240	0.048557	0.338856	0.483845	1.000000	0.337293	0.410662
reactions	0.411562	0.310720	0.282136	0.242815	0.483094	0.337293	1.000000	-0.016343
weight	-0.337811	-0.439215	-0.220130	0.175596	-0.061764	0.410662	-0.016343	1.000000

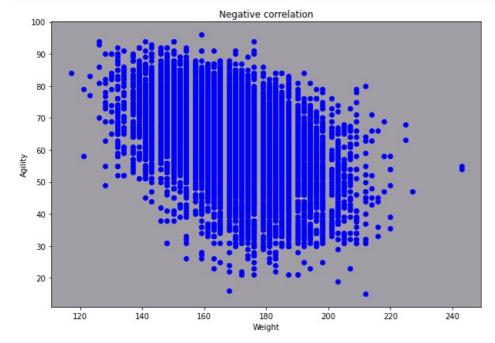
In [63]:

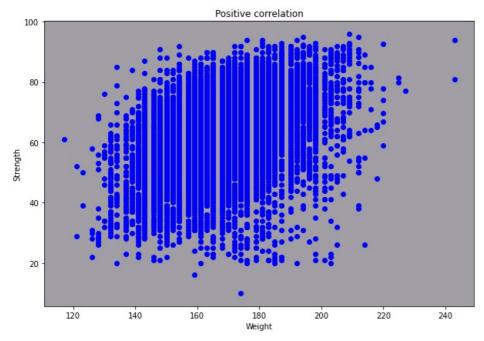
```
fig = plt.figure(figsize=(10,5))
plt.title("The Correlation matrix")
fig.patch.set_facecolor("#E9E5E5")
sns.heatmap(weight_correlation_matrix,cmap = 'bone');
```



In [64]:

```
# let's build a scatter plot for both correaltions
fig ,(ax1,ax2) = plt.subplots(2,figsize=(10,15))
fig.patch.set_facecolor("#FFFFFF")
weight = physical_attr_227['weight']
agility = physical_attr_227['agility']
strength = physical_attr_227['strength']
# scatter plot between weight and agility
ax1.set_facecolor('#A19FA5')
ax1.set_xlabel("Weight")
ax1.set_ylabel("Agility")
ax1.set_title("Negative correlation")
ax1.scatter(weight,agility,color ='blue');
# scatter plot between weight and strenght
ax2.set_facecolor('#A19FA5')
ax2.set_xlabel("Weight")
ax2.set_ylabel("Strength")
ax2.set_title("Positive correlation")
ax2.scatter(weight,strength,color ='blue');
```





- weight and agility has a negative correlation
- weight and strength has a positive correaltion

.....Repeat the same process to the Height......

According to previous steps weight and Height has a positive correlation. Hence, we must find a correlation between height and agility and strength

In [65]:

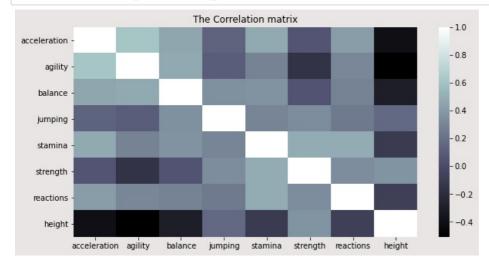
```
# build a correlation matrix between Height and all the other attributes
height_correlation_matrix = physical_attr_227[['acceleration', 'agility', 'balance', 'jumping', 'stamina', 'strength',
    'reactions', 'height']].corr()
height_correlation_matrix
```

Out[65]:

	acceleration	agility	balance	jumping	stamina	strength	reactions	height
acceleration	1.000000	0.613982	0.454475	0.130513	0.474922	0.052010	0.411562	-0.405290
agility	0.613982	1.000000	0.472631	0.099194	0.286786	-0.163240	0.310720	-0.507899
balance	0.454475	0.472631	1.000000	0.351952	0.359711	0.048557	0.282136	-0.306263
jumping	0.130513	0.099194	0.351952	1.000000	0.297487	0.338856	0.242815	0.161593
stamina	0.474922	0.286786	0.359711	0.297487	1.000000	0.483845	0.483094	-0.117280
strength	0.052010	-0.163240	0.048557	0.338856	0.483845	1.000000	0.337293	0.368340
reactions	0.411562	0.310720	0.282136	0.242815	0.483094	0.337293	1.000000	-0.083399
height	-0.405290	-0.507899	-0.306263	0.161593	-0.117280	0.368340	-0.083399	1.000000

In [66]:

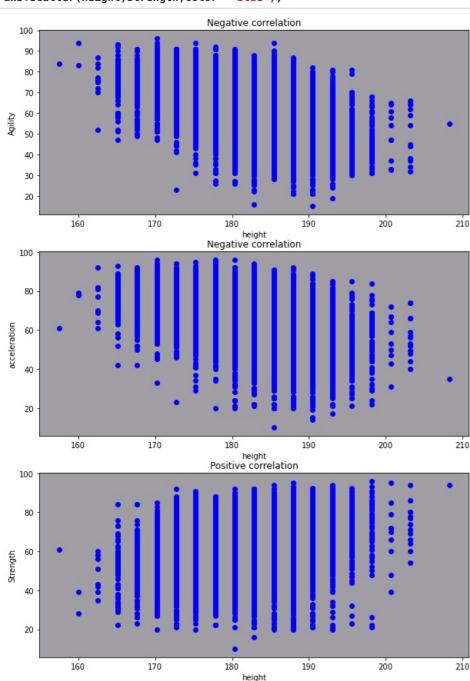
```
# let's make the correlation matrix clear by using a heatmap
fig = plt.figure(figsize=(10,5))
plt.title("The Correlation matrix")
fig.patch.set_facecolor("#E9E5E5")
sns.heatmap(height_correlation_matrix,cmap = 'bone');
```



The Height has a negative correlation with agility and acceleration The Height has a positve correlation with strength

```
In [67]:
```

```
# let's build a scatter plot for both correaltions
fig ,(ax1,ax2,ax3) = plt.subplots(3,figsize=(10,15))
fig.patch.set_facecolor("#FFFFFF")
height = physical_attr_227['height']
agility = physical_attr_227['agility']
acceleration = physical_attr_227['acceleration']
strength = physical_attr_227['strength']
# scatter plot between weight and agility
ax1.set_facecolor('#A19FA5')
ax1.set_xlabel("height")
ax1.set_ylabel("Agility")
ax1.set_title("Negative correlation")
ax1.scatter(height,agility,color ='blue');
# scatter plot between weight and acceleration
ax2.set_facecolor('#A19FA5')
ax2.set_xlabel("height")
ax2.set_ylabel("acceleration")
ax2.set title("Negative correlation")
ax2.scatter(height,acceleration,color ='blue');
# scatter plot between weight and strenght
ax3.set_facecolor('#A19FA5')
ax3.set xlabel("height")
ax3.set_ylabel("Strength")
ax3.set_title("Positive correlation")
ax3.scatter(height,strength,color ='blue');
```



Main Points:

try:

except ValueError:

""".format(table_name)
df = make_Query(query)

query = """

return df

print("The table already exists")

JOIN {} as r on(p.player_api_id = r.player_id);

SELECT p.player_name,r.card_type

- 1. define a function to filter the cards_info data by card_tpe,date and get the sum of red cards that a player got within this date
- 2. call the function using different dates
- 3. show how the number of red cards has changed from one date to another

```
-----define a function to filter the cards_info data-----
In [68]:
# view the range of date
cards info['date'].describe()
<ipython-input-68-8ef54e1lace5>:2: FutureWarning: Treating datetime data as categorical rather than
numeric in `.describe` is deprecated and will be removed in a future version of pandas. Specify `dat etime_is_numeric=True` to silence this warning and adopt the future behavior now.
  cards_info['date'].describe()
Out[68]:
                       61767
count
                        1347
unique
         2015-04-04 00:00:00
top
freq
                         184
first
         2008-08-15 00:00:00
last
         2016-05-25 00:00:00
Name: date, dtype: object
In [69]:
# will use this function multiple times with different date from 2008 to 2016
def invistigate_red_cards( df, table_name, start_date, end_date, card_type):
    this function is to filter the cards_info data by date and sum over card_type then join it with players
    table using sql
    inputs :
    df -----> DataFrame----> dataframe to store the result
    table name -----> String -----> the name of the table
    end date -----> String -----> the date to filter with in format yyyy0101
    ouputs :
    df -----> DataFrame-----> dataframe after filtering and joining with players table
    if card_type == 'y':
       card_type = '!='
    else :
       card_type = '=='
    # we have to filter players with red cards and within satrt_date to end_date
    query = 'card type {} "r" and {}< date <{}'.format( card type, start date, end date)
    df = cards_info.query(query)
    # we want to group the data by player id and count corresponding card type
    df = df.groupby(['player_id'])['card_type'].count().reset_index()
    # check if the table exist or not
```

------ dates-----call the function using different dates-----

query the result of joining the two tables players and red_card_2008

FROM (SELECT DISTINCT player_api_id,player_name FROM Player) as p

save the dataframe into a table called red_card_2008 load it into the datebase load_table(df, table_name, False, {'player_id':Integer(),'card_type':Integer()})

```
In [70]:
red_card_2008 = pd.DataFrame()
red_card_2008 = invistigate_red_cards( red_card_2008, 'red_card_2008', '20080101', '20090101', 'r')
yellow card 2008 = pd.DataFrame()
yellow_card_2008 = invistigate_red_cards( yellow_card_2008, 'yellow_card_2008', '20080101', '20090101', 'y')
The table already exists
The table already exists
In [71]:
red_card_2009 = pd.DataFrame()
red_card_2009 = invistigate_red_cards( red_card_2009, 'red_card_2009', '20090101', '20100101', 'r')
yellow_card_2009 = pd.DataFrame()
yellow card 2009 = invistigate red cards( yellow card 2009, 'yellow card 2009', '20090101', '20100101', 'y')
The table already exists
The table already exists
In [72]:
red_card_2010 = pd.DataFrame()
red_card_2010 = invistigate_red_cards( red_card_2010, 'red_card_2010', '20100101', '20110101','r')
yellow card 2010 = pd.DataFrame()
yellow_card_2010 = invistigate_red_cards( yellow_card_2010, 'yellow_card_2010', '20100101', '20110101', 'y')
The table already exists
The table already exists
In [73]:
red_card_2011 = pd.DataFrame()
red card 2011 = invistigate red cards( red card 2011, 'red card 2011', '20110101', '20120101','r')
yellow card 2011 = pd.DataFrame()
yellow_card_2011 = invistigate_red_cards( yellow_card_2011, 'yellow_card_2011', '20110101', '20120101','y')
The table already exists
The table already exists
In [74]:
red card 2012 = pd.DataFrame()
red card 2012 = invistigate red cards( red card 2012, 'red card 2012', '20120101', '20130101','r')
yellow_card_2012 = pd.DataFrame()
yellow_card_2012 = invistigate_red_cards( yellow_card_2012, 'yellow_card_2012', '20120101', '20130101', 'y')
The table already exists
The table already exists
In [75]:
red card 2013 = pd.DataFrame()
red card 2013 = invistigate red cards( red card 2013, 'red card 2013', '20130101', '20140101','r')
yellow_card_2013 = pd.DataFrame()
yellow_card_2013 = invistigate_red_cards( yellow_card_2013, 'yellow_card_2013', '20130101', '20140101', 'y')
The table already exists
The table already exists
In [76]:
red_card_2014 = pd.DataFrame()
red card 2014 = invistigate red cards( red card 2014, 'red card 2014', '20140101', '20150101','r')
yellow card 2014 = pd.DataFrame()
yellow_card_2014 = invistigate_red_cards( yellow_card_2014, 'yellow_card_2014', '20140101', '20150101','y')
```

The table already exists The table already exists

```
In [77]:
```

```
red_card_2015 = pd.DataFrame()
red_card_2015 = invistigate_red_cards( red_card_2015, 'red_card_2015', '20150101', '20160101','r')

yellow_card_2015 = pd.DataFrame()
yellow_card_2015 = invistigate_red_cards( yellow_card_2015, 'yellow_card_2015', '20150101', '20160101','y')
```

The table already exists The table already exists

In [78]:

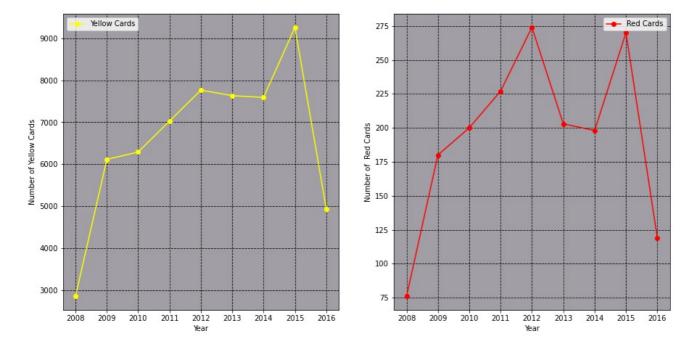
```
red_card_2016 = pd.DataFrame()
red_card_2016 = invistigate_red_cards( red_card_2016, 'red_card_2016', '20160101', '20170101','r')

yellow_card_2016 = pd.DataFrame()
yellow_card_2016 = invistigate_red_cards( yellow_card_2016, 'yellow_card_2016', '20160101', '20170101','y')
```

The table already exists The table already exists

In [79]:

```
# let's store the sum of all red/yellow cards in each season
red cards full = [ red card 2008, red card 2009, red card 2010, red card 2011, red card 2012, red card 2013, red
card_2014, red_card_2015, red_card_2016]
yellow_cards_full = [ yellow_card_2008, yellow_card_2009, yellow_card_2010, yellow_card_2011, yellow_card_2012, y
ellow_card_2013, yellow_card_2014, yellow_card_2015, yellow_card_2016]
x = ['2008', '2009', '2010', '2011', '2012', '2013', '2014', '2015', '2016']
y1 = []
y2 = []
for element in red_cards_full :
    y1.append(element.card_type.sum())
for element in yellow_cards_full :
   y2.append(element.card_type.sum())
fig , (ax1 , ax2) = plt.subplots(1,2,figsize=(15,7.5)) # we will plot two figures
fig.suptitle(" Comparison between number of red cards and yellow cards"+"\nfrom 2008 to 2016")
fig.patch.set_facecolor("#FFFFFF")
# plot first line chart for yellow cards
ax1.set_xlabel("Year")
ax1.set_ylabel("Number of Yellow Cards")
ax1.set_facecolor('#A19FA5')
ax1.grid(color='black',linestyle='dashed')
ax1.plot(x,y2,color= 'yellow',markersize = 12,marker='.',linewidth = 1.5,label="Yellow Cards");
ax1.legend();
# plot first line chart for yellow cards
ax2.set_xlabel("Year")
ax2.set_ylabel("Number of Red Cards")
ax2.set_facecolor('#A19FA5')
ax2.grid(color='black',linestyle='dashed')
ax2.plot(x,y1,color= 'red',markersize = 12,marker='.',linewidth = 1.5,label="Red Cards");
ax2.legend();
```



Conclusions

- · Most Teams in Spain LIGA BBVA league score in the home stadium more than in the away stadium
- · Real Madrid and Barcelona score more than 100 goals most of the time each season
- · Villarreal and valencia are often close to each other when comparing the number of goals in each season
- · The highest number of goals was made by Real Madrid in season 2011/2012
- · The weight of the players are normally distributed around the mean which is 168 kg
- \cdot The height of the players are normally distributed around the mean which is 182 cm
- · The height of the players are normally distributed around the mean which is 182 cm
- · Once a player is tall and gains weight there is a high chance to have a low agility score and a high acceleration score
- · In 2008 nearly 3000 yellow cards was recorded and increased by the double in 2009 and continue to increase to nearly 8000 cards till 2012 and decreased again to 7500 cards till 2014 and reached it's peak with more than 9000 cards and decreased again to 5000
- · The red cards follow the same pattern as the yellow cards the maximum number of red cards was recorded is 275 cards in 2012 and the minumum number of red cards was recorded is 75 cards in 2008

Limitations

Lacke of information is one of the limitations that I have encountered while dealing with this database *for example* there wasn't a foreign key team_api_id in the players' table that prevent us from relating the players' table with the teams' table.in addition to that,data inconsistency is another issue the database itself is consistent but some columns like card, goal, shot off,..etc written in XML format aren't consistent *for example*: in the card column, you might find a player_id but without specifying card_type or vice versa. other issue like different date ranges were used *for example*: in the players' table, you might find some players' date ranges from 2008 to 2012 and others from 2012 to 2014 that make it impossible to deal with all the players on the same date.

Resources

- · This website helped me a lot to understand the structure of xml file visit the site here (https://www.anyison.in/xml-to-table)
- · Kaggle website (https://www.kaggle.com/datasets/hugomathien/soccer/discussion?search=g) for soccer database
- · This website taught me LaTeX mathematical symbols (https://oeis.org/wiki/List_of_LaTeX_mathematical_symbols)