

# Mid-Diploma Project (FIFA 19 complete players dataset) From Kaggle

November 10, 2021

## 0.1 TASK

1. Choose a problem that have predefined dataset from any source: your own data, or from Kaggle or from scraping and the data can be in any format SQL, CSV, XLSX.
2. Make a notebook and fulfill all the below technical requirements
  - Notebook must have section demonstrate the business problem you try to analyze.
  - Notebook must have section demonstrate the dataset description.
  - Notebook must have section demonstrate the analysis process including numbers & graphs & comments for every thing you can analyze in the data.
  - Upload the Notebook on classroom

## 0.2 Problem:-

- We have large dataset of players info from fifa 19 Does Age has an effect on variables?

## 0.3 What we want to do

- We want to know if Age has an affect on variables like stamina, Overall
- Who have the highest Overall
- We want how the distribution of Age looks like

## Description

## 0.4 Context

Football analytics

Description - Detailed attributes for every player registered in the latest edition of FIFA 19 database.

```
[1]: # !pip install opendatasets
```

```
[2]: # import opendatasets as od
```

```
[3]: # od.download("https://www.kaggle.com/karangadiya/fifa19")
```

```
[4]: # import zipfile
```

```
[5]: # A = r"C:\Users\peter\Epsilon AI lecture 14 practical"
# with zipfile.ZipFile("fifa19.zip", "r") as zip_ref:
#     zip_ref.extractall(A)
```

```
[6]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

```
[7]: df = pd.read_csv(r"C:\Users\peter\Epsilon AI lecture 14 practical\fifa19\data.
↪csv")
```

```
[8]: df.shape
```

```
[8]: (18207, 89)
```

We can't do analysis for 18k row for now so to speed up the process we can take only 8k row

```
[9]: df.isnull().sum()
```

```
[9]: Unnamed: 0      0
ID                0
Name              0
Age              0
Photo            0
...
GKHandling        48
GKKicking         48
GKPositioning     48
GKReflexes        48
Release Clause   1564
Length: 89, dtype: int64
```

There's a lot of null values so we will also dropping that

```
[10]: df.columns
```

```
[10]: Index(['Unnamed: 0', 'ID', 'Name', 'Age', 'Photo', 'Nationality', 'Flag',
'Overall', 'Potential', 'Club', 'Club Logo', 'Value', 'Wage', 'Special',
'Preferred Foot', 'International Reputation', 'Weak Foot',
'Skill Moves', 'Work Rate', 'Body Type', 'Real Face', 'Position',
'Jersey Number', 'Joined', 'Loaned From', 'Contract Valid Until',
'Height', 'Weight', 'LS', 'ST', 'RS', 'LW', 'LF', 'CF', 'RF', 'RW',
'LAM', 'CAM', 'RAM', 'LM', 'LCM', 'CM', 'RCM', 'RM', 'LWB', 'LDM',
'CDM', 'RDM', 'RWB', 'LB', 'LCB', 'CB', 'RCB', 'RB', 'Crossing',
'Finishing', 'HeadingAccuracy', 'ShortPassing', 'Volleys', 'Dribbling',
'Curve', 'FKAccuracy', 'LongPassing', 'BallControl', 'Acceleration',
'SprintSpeed', 'Agility', 'Reactions', 'Balance', 'ShotPower',
```

```
'Jumping', 'Stamina', 'Strength', 'LongShots', 'Aggression',
'Interceptions', 'Positioning', 'Vision', 'Penalties', 'Composure',
'Marking', 'StandingTackle', 'SlidingTackle', 'GKDividing', 'GKHandling',
'GKKicking', 'GKPositioning', 'GKReflexes', 'Release Clause'],
dtype='object')
```

**From row names:-**

- We will be dropping some rows like ['Unnamed: 0', 'Photo', 'Flag', 'Club Logo',...]
- I can see Y/N and (left or right) and nationalities values we will convert them
  - why i am converting nationalities? because i want to see if there any relation between if the player from specific country has overall more than another players
- Is there a relationship between reputation and overall
- we may need to see different relation between Age and other values like overall
- we also may group by age and describe the data / getting info
- currently we don't need ID, Name, Club

```
[11]: df.head()
```

```
[11]:
```

	Unnamed: 0	ID	Name	Age	\
0	0	158023	L. Messi	31	
1	1	20801	Cristiano Ronaldo	33	
2	2	190871	Neymar Jr	26	
3	3	193080	De Gea	27	
4	4	192985	K. De Bruyne	27	

	Photo	Nationality	\
0	https://cdn.sofifa.org/players/4/19/158023.png	Argentina	
1	https://cdn.sofifa.org/players/4/19/20801.png	Portugal	
2	https://cdn.sofifa.org/players/4/19/190871.png	Brazil	
3	https://cdn.sofifa.org/players/4/19/193080.png	Spain	
4	https://cdn.sofifa.org/players/4/19/192985.png	Belgium	

	Flag	Overall	Potential	\
0	https://cdn.sofifa.org/flags/52.png	94	94	
1	https://cdn.sofifa.org/flags/38.png	94	94	
2	https://cdn.sofifa.org/flags/54.png	92	93	
3	https://cdn.sofifa.org/flags/45.png	91	93	
4	https://cdn.sofifa.org/flags/7.png	91	92	

	Club	...	Composure	Marking	StandingTackle	SlidingTackle	\
0	FC Barcelona	...	96.0	33.0	28.0	26.0	
1	Juventus	...	95.0	28.0	31.0	23.0	
2	Paris Saint-Germain	...	94.0	27.0	24.0	33.0	
3	Manchester United	...	68.0	15.0	21.0	13.0	
4	Manchester City	...	88.0	68.0	58.0	51.0	

	GKDividing	GKHandling	GKKicking	GKPositioning	GKReflexes	Release	Clause
--	------------	------------	-----------	---------------	------------	---------	--------

0	6.0	11.0	15.0	14.0	8.0	€226.5M
1	7.0	11.0	15.0	14.0	11.0	€127.1M
2	9.0	9.0	15.0	15.0	11.0	€228.1M
3	90.0	85.0	87.0	88.0	94.0	€138.6M
4	15.0	13.0	5.0	10.0	13.0	€196.4M

[5 rows x 89 columns]

```
[12]: df.drop(df.index[5000:], inplace = True)
      # df.dropna(inplace=True)
```

```
[13]: df.shape
```

```
[13]: (5000, 89)
```

```
[14]: df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 5000 entries, 0 to 4999
Data columns (total 89 columns):
#   Column                                Non-Null Count  Dtype
---  -
0   Unnamed: 0                            5000 non-null   int64
1   ID                                     5000 non-null   int64
2   Name                                  5000 non-null   object
3   Age                                   5000 non-null   int64
4   Photo                                5000 non-null   object
5   Nationality                           5000 non-null   object
6   Flag                                  5000 non-null   object
7   Overall                               5000 non-null   int64
8   Potential                             5000 non-null   int64
9   Club                                  4929 non-null   object
10  Club Logo                             5000 non-null   object
11  Value                                  5000 non-null   object
12  Wage                                  5000 non-null   object
13  Special                               5000 non-null   int64
14  Preferred Foot                         5000 non-null   object
15  International Reputation               5000 non-null   float64
16  Weak Foot                             5000 non-null   float64
17  Skill Moves                           5000 non-null   float64
18  Work Rate                             5000 non-null   object
19  Body Type                             5000 non-null   object
20  Real Face                             5000 non-null   object
21  Position                               5000 non-null   object
22  Jersey Number                         5000 non-null   float64
23  Joined                                4554 non-null   object
24  Loaned From                           375 non-null    object
25  Contract Valid Until                  4929 non-null   object
```

26	Height	5000	non-null	object
27	Weight	5000	non-null	object
28	LS	4545	non-null	object
29	ST	4545	non-null	object
30	RS	4545	non-null	object
31	LW	4545	non-null	object
32	LF	4545	non-null	object
33	CF	4545	non-null	object
34	RF	4545	non-null	object
35	RW	4545	non-null	object
36	LAM	4545	non-null	object
37	CAM	4545	non-null	object
38	RAM	4545	non-null	object
39	LM	4545	non-null	object
40	LCM	4545	non-null	object
41	CM	4545	non-null	object
42	RCM	4545	non-null	object
43	RM	4545	non-null	object
44	LWB	4545	non-null	object
45	LDM	4545	non-null	object
46	CDM	4545	non-null	object
47	RDM	4545	non-null	object
48	RWB	4545	non-null	object
49	LB	4545	non-null	object
50	LCB	4545	non-null	object
51	CB	4545	non-null	object
52	RCB	4545	non-null	object
53	RB	4545	non-null	object
54	Crossing	5000	non-null	float64
55	Finishing	5000	non-null	float64
56	HeadingAccuracy	5000	non-null	float64
57	ShortPassing	5000	non-null	float64
58	Volleys	5000	non-null	float64
59	Dribbling	5000	non-null	float64
60	Curve	5000	non-null	float64
61	FKAccuracy	5000	non-null	float64
62	LongPassing	5000	non-null	float64
63	BallControl	5000	non-null	float64
64	Acceleration	5000	non-null	float64
65	SprintSpeed	5000	non-null	float64
66	Agility	5000	non-null	float64
67	Reactions	5000	non-null	float64
68	Balance	5000	non-null	float64
69	ShotPower	5000	non-null	float64
70	Jumping	5000	non-null	float64
71	Stamina	5000	non-null	float64
72	Strength	5000	non-null	float64
73	LongShots	5000	non-null	float64

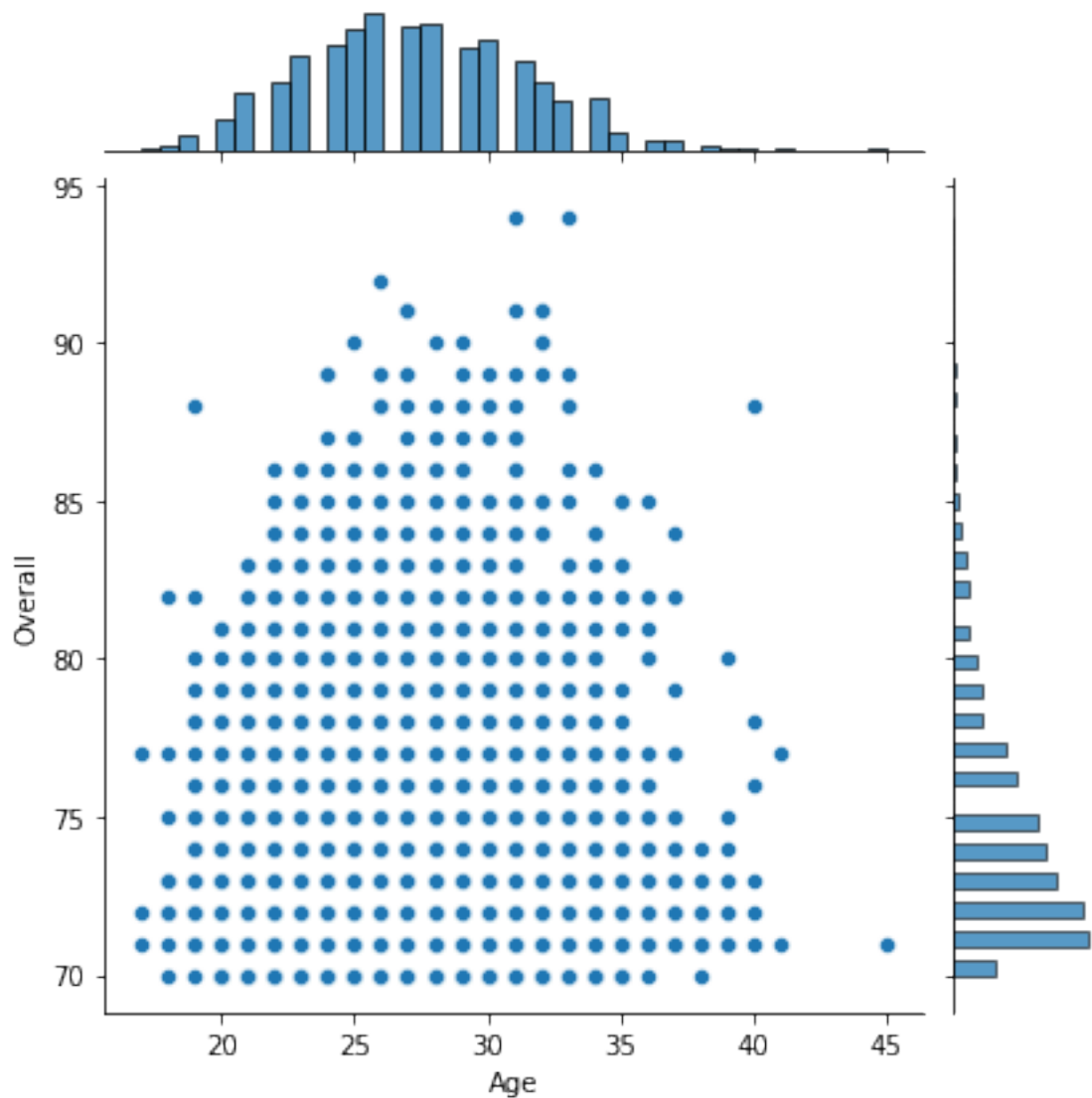
```

74 Aggression          5000 non-null   float64
75 Interceptions       5000 non-null   float64
76 Positioning         5000 non-null   float64
77 Vision              5000 non-null   float64
78 Penalties           5000 non-null   float64
79 Composure           5000 non-null   float64
80 Marking              5000 non-null   float64
81 StandingTackle      5000 non-null   float64
82 SlidingTackle       5000 non-null   float64
83 GK Diving           5000 non-null   float64
84 GK Handling          5000 non-null   float64
85 GK Kicking           5000 non-null   float64
86 GK Positioning      5000 non-null   float64
87 GK Reflexes         5000 non-null   float64
88 Release Clause      4551 non-null   object
dtypes: float64(38), int64(6), object(45)
memory usage: 3.4+ MB

```

```
[15]: sns.jointplot(data = df, x = "Age", y = "Overall", palette = "rocket")
```

```
[15]: <seaborn.axisgrid.JointGrid at 0xc9e7730>
```



from Visualization we can see that top performers are between 30 years old and 35 years old

```
[16]: df.drop(columns=['Unnamed: 0', 'Photo', 'Flag', 'Real Face', 'Jersey Number', 'Club_Logo'], axis = 1, inplace=True)
```

Is there specific nationality that we can find most of players are performing better than others?

```
[17]: cat_columns = df.select_dtypes("object").columns
for col in cat_columns:
    print("----{col}-----")
    print(df[col].unique())
```

```
----{col}-----
```

['L. Messi' 'Cristiano Ronaldo' 'Neymar Jr' ... 'A. Weber' 'F. Haugen'  
'T. Bruns']

----{col}-----

['Argentina' 'Portugal' 'Brazil' 'Spain' 'Belgium' 'Croatia' 'Uruguay'  
'Slovenia' 'Poland' 'Germany' 'France' 'England' 'Italy' 'Egypt'  
'Colombia' 'Denmark' 'Gabon' 'Wales' 'Senegal' 'Costa Rica' 'Slovakia'  
'Netherlands' 'Bosnia Herzegovina' 'Morocco' 'Serbia' 'Algeria' 'Austria'  
'Greece' 'Chile' 'Sweden' 'Korea Republic' 'Finland' 'Guinea'  
'Montenegro' 'Armenia' 'Switzerland' 'Norway' 'Czech Republic' 'Scotland'  
'Ghana' 'Central African Rep.' 'DR Congo' 'Ivory Coast' 'Russia'  
'Ukraine' 'Iceland' 'Mexico' 'Jamaica' 'Albania' 'Venezuela' 'Japan'  
'Turkey' 'Ecuador' 'Paraguay' 'Mali' 'Nigeria' 'Cameroon'  
'Dominican Republic' 'Israel' 'Kenya' 'Hungary' 'Republic of Ireland'  
'Romania' 'United States' 'Cape Verde' 'Australia' 'Peru' 'Togo' 'Syria'  
'Zimbabwe' 'Angola' 'Burkina Faso' 'Iran' 'Estonia' 'Tunisia'  
'Equatorial Guinea' 'New Zealand' 'FYR Macedonia' 'United Arab Emirates'  
'China PR' 'Guinea Bissau' 'Bulgaria' 'Kosovo' 'South Africa'  
'Madagascar' 'Georgia' 'Tanzania' 'Gambia' 'Cuba' 'Belarus' 'Uzbekistan'  
'Benin' 'Congo' 'Mozambique' 'Honduras' 'Canada' 'Northern Ireland'  
'Cyprus' 'Saudi Arabia' 'Curacao' 'Moldova' 'Bolivia' 'Trinidad & Tobago'  
'Sierra Leone' 'Zambia' 'Chad' 'Philippines' 'Haiti' 'Comoros' 'Libya'  
'Panama' 'São Tomé & Príncipe' 'Eritrea' 'Oman' 'Iraq' 'Burundi' 'Fiji'  
'New Caledonia' 'Lithuania' 'Luxembourg' 'Korea DPR' 'Liechtenstein'  
'St Kitts Nevis' 'Latvia' 'Suriname' 'Uganda']

----{col}-----

['FC Barcelona' 'Juventus' 'Paris Saint-Germain' 'Manchester United'  
'Manchester City' 'Chelsea' 'Real Madrid' 'Atlético Madrid'  
'FC Bayern München' 'Tottenham Hotspur' 'Liverpool' 'Napoli' 'Arsenal'  
'Milan' 'Inter' 'Lazio' 'Borussia Dortmund' 'Vissel Kobe'  
'Olympique Lyonnais' 'Roma' 'Valencia CF'  
'Guangzhou Evergrande Taobao FC' 'FC Porto' 'FC Schalke 04' 'Beşiktaş JK'  
'LA Galaxy' 'Sporting CP' 'Real Betis' 'Olympique de Marseille'  
'RC Celta' 'Bayer 04 Leverkusen' 'Real Sociedad' 'Villarreal CF'  
'Sevilla FC' 'SL Benfica' 'AS Saint-Étienne' 'AS Monaco' 'Leicester City'  
'Atalanta' 'Grêmio' 'Atlético Mineiro' 'RB Leipzig' 'Ajax'  
'Dalian Yifang FC' 'Everton' 'West Ham United' '1. FC Köln'  
'TSG 1899 Hoffenheim' 'Shanghai SIPG FC' 'OGC Nice' 'Al Nassr'  
'Wolverhampton Wanderers' 'Borussia Mönchengladbach' 'Hertha BSC'  
'SV Werder Bremen' 'Cruzeiro' 'Athletic Club de Bilbao' 'Torino'  
'Medipol Başakşehir FK' 'Beijing Sinobo Guoan FC' 'Crystal Palace'  
'PFC CSKA Moscow' 'VfL Wolfsburg' 'Shakhtar Donetsk' 'Toronto FC'  
'Lokomotiv Moscow' 'Sassuolo' 'New York City FC' 'Fluminense' 'PSV'  
'Levante UD' 'Fulham' 'Watford' 'Atlanta United' 'Montpellier HSC'  
'Galatasaray SK' 'Fenerbahçe SK' 'SD Eibar' 'Los Angeles FC' 'Sampdoria'  
'Al Hilal' 'VfB Stuttgart' 'SC Braga' 'River Plate' 'Deportivo Alavés'  
nan 'Eintracht Frankfurt' 'Girona FC' 'Guangzhou R&F; FC' 'Burnley'  
'Stoke City' 'Southampton' 'Tianjin Quanjian FC' 'Getafe CF'  
'Beijing Renhe FC' 'Montreal Impact' 'Chievo Verona' 'Genoa']



'Portland Timbers' 'Tigres U.A.N.L.' 'RCD Espanyol'  
 'Hebei China Fortune FC' 'Cagliari' 'Chicago Fire' 'DC United'  
 'Sagan Tosu' 'Dynamo Kyiv' 'Santos' 'Internacional'  
 'América FC (Minas Gerais)' 'Independiente' 'Boca Juniors' 'Cruz Azul'  
 '1. FSV Mainz 05' 'Bournemouth' 'Spartak Moscow' 'Racing Club'  
 'FC Augsburg' 'Fiorentina' 'FC Nantes' 'Feyenoord' 'Club Brugge KV'  
 'Brighton & Hove Albion' 'Al Ahli' 'Jiangsu Suning FC' 'SC Freiburg'  
 'PAOK' 'Stade Rennais FC' 'Trabzonspor' 'SPAL' 'Portimonense SC'  
 'Olympiacos CFP' 'Club Atlético Huracán' 'Kasimpasa SK'  
 'Newcastle United' 'Frosinone' 'Querétaro' 'KRC Genk' 'Hannover 96'  
 'Stade Malherbe Caen' 'Godoy Cruz' 'Toulouse Football Club'  
 'RSC Anderlecht' 'Huddersfield Town' 'CD Tondela' 'Seattle Sounders FC'  
 'Hamburger SV' 'FC Red Bull Salzburg' 'Rio Ave FC'  
 'FC Girondins de Bordeaux' 'Melbourne Victory' 'Parma' 'FC Basel 1893'  
 'Al Wehda' 'BSC Young Boys' 'KAA Gent' 'Al Ittihad' 'Standard de Liège'  
 'Shanghai Greenland Shenhua FC' 'Colo-Colo' 'Junior FC'  
 'West Bromwich Albion' 'RC Strasbourg Alsace' 'Göztepe SK'  
 'Deportivo Cali' 'Deportivo Toluca' 'Bologna' 'Nagoya Grampus'  
 'Amiens SC' 'Changchun Yatai FC' 'Club Atlético Lanús' 'Botafogo'  
 'Club América' 'Udinese' 'Real Valladolid CF' 'CD Leganés'  
 'Club Atlético Banfield' 'Celtic' 'Vitória Guimarães' 'FC København'  
 'UD Las Palmas' 'Deportivo de La Coruña' 'Universidad Católica'  
 'San Lorenzo de Almagro' 'Rayo Vallecano' 'Monterrey' 'Columbus Crew SC'  
 'MKE Ankaragücü' 'Guizhou Hengfeng FC' 'Swansea City' 'Tianjin TEDA FC'  
 'Chongqing Dangdai Lifan FC SWM Team' 'AEK Athens' 'Al Taawoun'  
 'Melbourne City FC' 'En Avant de Guingamp' 'Akhisar Belediyespor'  
 'Foggia' 'LOSC Lille' '1. FC Nürnberg' 'Clube Sport Marítimo'  
 'Real Sporting de Gijón' 'BB Erzurumspor' 'Shandong Luneng TaiShan FC'  
 'Club Atlético Colón' 'Bahia' 'Once Caldas' 'FC Groningen' 'Angers SCO'  
 'Paraná' 'Antalyaspor' 'Minnesota United FC' 'Club León' 'Empoli'  
 'VVV-Venlo' 'Leeds United' 'Viktoria Plzeň' 'Alanyaspor'  
 'Atlético Paranaense' 'Derby County' 'Kawasaki Frontale' 'Cardiff City'  
 'Aston Villa' 'Guadalajara' 'Dijon FCO' 'Santos Laguna' 'Málaga CF'  
 'Vitória' 'Çaykur Rizespor' 'U.N.A.M.' 'Nottingham Forest'  
 'Royal Antwerp FC' 'Club Tijuana' 'Sport Club do Recife' 'Real Salt Lake'  
 'AZ Alkmaar' 'SK Slavia Praha' 'Willem II' 'Middlesbrough'  
 'Dinamo Zagreb' 'Club Atlas' 'Granada CF' 'Sydney FC'  
 'Sporting Kansas City' 'SV Zulte-Waregem' 'Philadelphia Union'  
 'Real Oviedo' 'Pachuca' 'Boavista FC' 'Atiker Konyaspor' 'Kaizer Chiefs'  
 'GD Chaves' 'Palermo' 'Atlético Nacional' 'Puebla FC' 'Perth Glory'  
 'Panathinaikos FC' 'FC Sion' 'Vitória de Setúbal' 'New York Red Bulls'  
 'Al Shabab' 'Monarcas Morelia' 'Albacete BP' 'Rangers FC' 'Sparta Praha'  
 'Legia Warszawa' 'Urawa Red Diamonds' 'Rosario Central' 'Stade de Reims'  
 'ADO Den Haag' 'Chapecoense' 'FC Midtjylland' 'San Jose Earthquakes'  
 'Belgrano de Córdoba' 'Brescia' 'Kashima Antlers'  
 'CD Everton de Viña del Mar' 'Fortuna Düsseldorf' 'SD Huesca'  
 'Preston North End' 'Club Atlético Talleres' 'Benevento' 'Vitesse'  
 'Gimnasia y Esgrima La Plata' 'Houston Dynamo' 'Club Necaxa'

'Norwich City' 'Holstein Kiel' 'Ettifaq FC' 'Kayserispor'  
 '1. FC Heidenheim 1846' 'Brentford' 'Yeni Malatyaspor' 'Lobos BUAP'  
 'Bursaspor' 'Ceará Sporting Club' 'Sheffield United' 'FC Ingolstadt 04'  
 'Estudiantes de La Plata' 'AIK' 'Queens Park Rangers'  
 'Suwon Samsung Bluewings' 'Heart of Midlothian' 'Reading' 'FC Dallas'  
 'Heracles Almelo' 'Venezia FC' 'CD Lugo' 'Henan Jianye FC'  
 'Orlando City SC' 'CA Osasuna' 'NAC Breda' 'Livorno'  
 'Universidad de Chile' 'Brøndby IF' 'Aberdeen' 'Defensa y Justicia'  
 'Atlético Tucumán' 'Blackburn Rovers' 'SV Darmstadt 98' 'Moreirense FC'  
 'Sanfrecce Hiroshima' 'CD Numancia' 'KV Oostende' 'FC Utrecht'  
 'Vancouver Whitecaps FC' 'Odense Boldklub' 'SC Heerenveen'  
 'Racing Club de Lens' 'Independiente Santa Fe' 'Sporting de Charleroi'  
 'Millonarios FC' 'Sheffield Wednesday' 'Perugia' 'Daegu FC'  
 'Vélez Sarsfield' 'Grasshopper Club Zürich' 'Sivasspor' 'Nîmes Olympique'  
 'Rosenborg BK' 'SK Sturm Graz' 'FC Metz' 'CD Universidad de Concepción'  
 'Hellas Verona' 'Brisbane Roar' 'CD Feirense' 'Hull City'  
 'Waasland-Beveren' 'Neuchâtel Xamax' 'Real Zaragoza' 'CD Aves' 'Millwall'  
 'Unión de Santa Fe' 'KAS Eupen' 'Cádiz CF' 'FC Tokyo' 'CD Tenerife'  
 '1. FC Union Berlin' 'Al Fayha' 'AJ Auxerre' 'Patriotas Boyacá FC'  
 'Molde FK' 'Bristol City' 'CD Nacional' 'Sporting Lokeren' 'FC St. Pauli'  
 'Deportes Iquique' 'Al Qadisiyah' 'Atlético Bucaramanga'  
 'Club Atlético Tigre' 'FK Austria Wien' 'Patronato' 'Malmö FF'  
 'Kashiwa Reysol' 'US Cremonese' 'VfL Bochum 1848' 'SK Rapid Wien'  
 'KSV Cercle Brugge' 'Rionegro Águilas' 'Gimnàstic de Tarragona' 'Lecce'  
 'Santa Clara' 'BK Häcken' 'New England Revolution' 'Orlando Pirates'  
 'Atlético Huila' 'Western Sydney Wanderers' 'Kalmar FF'  
 'Independiente Medellín' 'Fortuna Sittard' 'Lech Poznań' 'Djurgårdens IF'  
 'CF Reus Deportiu' 'SK Brann' 'Ulsan Hyundai FC' 'Sint-Truidense VV'  
 'Carpi' 'Al Fateh' 'Royal Excel Mouscron' 'AC Ajaccio' 'PEC Zwolle'  
 'Sunderland' 'Club Atlético Aldosivi' 'US Salernitana 1919' 'FC Lorient'  
 'Argentinos Juniors' 'AD Alcorcón' 'Crotone' 'Excelsior' 'KV Kortrijk'  
 'IFK Norrköping' 'Adelaide United' 'FC St. Gallen'  
 'Tiburones Rojos de Veracruz' 'CD Palestino' 'Jeju United FC'  
 'Deportes Tolima' 'Jeonbuk Hyundai Motors' 'Birmingham City'  
 'América de Cali' 'La Equidad' 'Spezia' 'Aalborg BK' 'Le Havre AC'  
 'Górnik Zabrze' 'Central Coast Mariners' 'Wigan Athletic'  
 'Jagiellonia Białystok' 'Cittadella' 'Hibernian' 'FC Lugano'  
 'San Martín de San Juan' 'Strømsgodset IF' 'Júbilo Iwata'  
 'Newell's Old Boys' 'Al Faisaly' 'Colorado Rapids' 'IF Elfsborg'  
 'SV Sandhausen' 'Al Batin' 'Stade Brestois 29' 'UD Almería'  
 'Gyeongnam FC' 'Yokohama F. Marinos' 'Kilmarnock' 'Pescara'  
 'Newcastle Jets' 'Córdoba CF' 'RCD Mallorca' 'Hammarby IF' 'Cerezo Osaka'  
 'KFC Uerdingen 05' 'Shimizu S-Pulse' 'MSV Duisburg' 'Os Belenenses'  
 'DSC Arminia Bielefeld' 'Ipswich Town' 'FC Seoul' 'Lechia Gdańsk'  
 'Gamba Osaka' 'CF Rayo Majadahonda' 'LASK Linz' 'Bolton Wanderers'  
 'Al Raed' 'Extremadura UD' 'SC Paderborn 07' 'Wellington Phoenix'  
 'Unión Española' 'Alianza Petrolera' 'Cracovia' 'Gangwon FC' 'Elche CF'  
 'ESTAC Troyes' 'AS Béziers' 'La Berrichonne de Châteauroux'

'Clermont Foot 63' '1. FC Magdeburg' 'Pohang Steelers' 'Örebro SK'  
 'Arka Gdynia' 'SG Dynamo Dresden' 'SpVgg Greuther Fürth' 'CD Huachipato'  
 'Wisła Kraków' 'Stabæk Fotball' 'Eintracht Braunschweig'  
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'Guangzhou Evergrande Taobao FC' 'Inter' 'Jiangsu Suning FC'
'RCD Espanyol' 'Club Tijuana' 'West Bromwich Albion' 'Villarreal CF'
'Napoli' 'Borussia Dortmund' 'Southampton' 'Udinese' 'Swansea City'
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'FC Girondins de Bordeaux' 'PSV' 'Real Betis' 'Toulouse Football Club'
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'Stoke City' 'Tigres U.A.N.L.' 'Atlético Nacional' 'LOSC Lille'
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'Bournemouth' 'UD Las Palmas' 'Athletic Club de Bilbao' 'Watford'
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'FC Schalke 04' 'Manchester United' 'Ajax' 'Monterrey' 'Getafe CF'
'FC Nantes' 'KAA Gent' 'FC Augsburg' 'Empoli' 'AS Saint-Étienne' 'Bahia'
'Olympique Lyonnais' 'VfB Stuttgart' 'Medipol Başakşehir FK'
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'Olympique de Marseille' 'Grasshopper Club Zürich' 'Palermo'
'Club Atlético Talleres' 'Norwich City' 'Hannover 96' 'Deportivo Toluca'
'Parma' 'Tiburones Rojos de Veracruz' 'Toronto FC' 'West Ham United'
'Fulham' 'Fenerbahçe SK' 'Brentford' "Newell's Old Boys"
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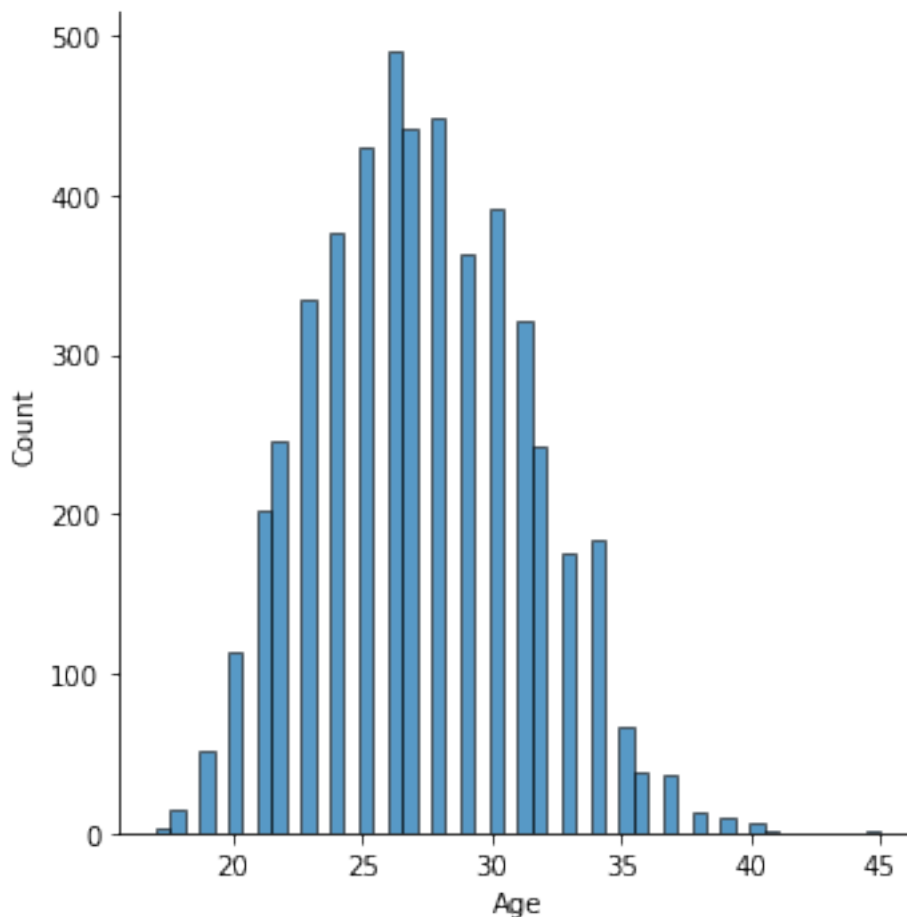
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 '€28.4M' '€27.3M' '€29.4M' '€20.9M' '€32.6M' '€11.9M' '€26.8M' '€36.3M'  
 '€18.5M' '€28.5M' '€18.7M' '€35M' '€31M' '€25.7M' '€11M' '€12.6M'  
 '€47.3M' '€48.3M' '€30.7M' '€20M' '€8.5M' '€32M' '€21.4M' '€24M' '€38.4M'  
 '€30.5M' '€39.5M' '€35.9M' '€28.3M' '€27.5M' '€33.7M' '€38.1M' '€31.2M'  
 '€24.9M' '€27.7M' '€28.6M' '€36.5M' '€34.8M' '€19.6M' '€24.2M' '€21.9M'  
 '€29.6M' '€18.4M' '€22.4M' '€40.2M' '€20.4M' '€27.9M' '€16.5M' '€17.9M'  
 '€14.7M' '€15.2M' '€23.7M' '€13.5M' '€16.7M' '€17M' '€17.3M' '€11.4M'  
 '€15.7M' '€11.1M' '€16.2M' '€19.2M' '€9.4M' '€11.3M' '€4.2M' '€9.7M'  
 '€2.9M' '€8.7M' '€18M' '€10M' '€1.7M' '€41.4M' '€28.8M' '€39.6M' '€22.8M'  
 '€18.1M' '€6.8M' '€21.8M' '€36M' '€14.8M' '€28M' '€35.3M' '€29.7M'  
 '€40.3M' '€30.1M' '€24.1M' '€18.2M' '€27.2M' '€34.5M' '€24.4M' '€26.6M'  
 '€15M' '€16M' '€39.4M' '€23.1M' '€26.1M' '€36.8M' '€13.3M' '€20.7M'  
 '€32.2M' '€22.2M' '€18.9M' '€22.7M' '€17.8M' '€24.6M' '€22.5M' '€15.4M'  
 '€14.3M' '€13.7M' '€14.5M' '€17.2M' '€15.8M' '€13M' '€9M' '€6.5M'  
 '€11.7M' '€7.6M' '€30.4M' '€9.5M' '€27M' '€27.6M' '€19.9M' '€21.7M'  
 '€19.5M' '€11.2M' '€26.7M' '€25.9M' '€15.1M' '€18.6M' '€28.7M' '€19.7M'  
 '€23.4M' '€22.3M' '€17.6M' '€23.9M' '€20.8M' '€19.8M' '€7M' '€10.5M'  
 '€12.8M' '€14M' '€4.5M' '€12.9M' '€5.6M' '€8.1M' '€17.7M' '€9.8M' '€8.6M'  
 '€8M' '€11.8M' '€6.1M' '€1.1M' '€17.4M' '€13.1M' '€9.1M' '€6.3M' '€7.7M'  
 '€16.3M' '€6.6M' '€5M' '€5.8M' '€28.1M' '€14.4M' '€22M' '€6.7M' '€4.6M'

```
'€19.4M' '€13.8M' '€16.9M' '€10.3M' '€3.6M' '€10.8M' '€13.2M' '€4M'
'€21.6M' '€5.4M' '€15.5M' '€25.3M' '€4.4M' '€22.6M' '€14.2M' '€5.1M'
'€7.5M' '€19.3M' '€8.3M' '€20.5M' '€18.3M' '€16.1M' '€10.4M' '€7.2M'
'€1.9M' '€840K' '€8.2M' '€10.1M' '€9.2M' '€5.3M' '€3.1M' '€2.1M' '€9.9M'
'€16.6M' '€15.6M' '€12.5M' '€4.8M' '€9.3M' '€26.5M' '€10.9M' '€5.9M'
'€11.6M' '€8.8M' '€14.1M' '€11.5M' '€23.6M' '€8.4M' '€4.1M' '€4.9M'
'€13.4M' '€12.2M' '€7.3M' '€7.9M' '€2.7M' '€15.9M' '€6M' '€1.5M' '€3.7M'
'€945K' '€10.7M' '€3.8M' '€4.3M' '€1.3M' '€1.6M' '€30.3M' '€743K' '€9.6M'
'€675K' '€1.2M' '€3.3M' '€16.4M' '€7.8M' '€765K' '€3.2M' '€7.1M' '€3.9M'
'€1.4M' '€3.4M' '€5.5M' '€12.1M' '€2.8M' '€10.6M' '€1.8M' '€713K' '€2.4M'
'€2.5M' '€2.2M' '€6.4M' '€18.8M' '€5.2M' '€19.1M' '€6.2M' '€2.6M' '€459K'
'€3.5M' '€14.9M' '€432K' '€2.3M' '€4.7M' '€825K' '€392K' '€12.7M' '€567K'
'€405K' '€378K' '€419K' '€798K' '€531K' '€294K' '€336K' '€2M' '€616K'
'€638K' '€305K' '€1M' '€680K' '€808K' '€723K' '€263K' '€389K' '€488K'
'€240K' '€272K' '€455K' '€770K' '€908K' '€715K' '€585K' '€486K' '€504K'
'€406K' '€853K' '€880K' '€935K' '€162K' '€781K']
```

```
[18]: sns.displot(df["Age"], bins = 50)
```

```
[18]: <seaborn.axisgrid.FacetGrid at 0xc9db820>
```





```
[19]: new_age = df[df["Age"] >= 30]
```

```
[20]: new_age.head()
```

```
[20]:
```

	ID	Name	Age	Nationality	Overall	Potential	\
0	158023	L. Messi	31	Argentina	94	94	
1	20801	Cristiano Ronaldo	33	Portugal	94	94	
6	177003	L. Modrić	32	Croatia	91	91	
7	176580	L. Suárez	31	Uruguay	91	91	
8	155862	Sergio Ramos	32	Spain	91	91	

	Club	Value	Wage	Special	... Composure	Marking	\
0	FC Barcelona	€110.5M	€565K	2202	... 96.0	33.0	
1	Juventus	€77M	€405K	2228	... 95.0	28.0	
6	Real Madrid	€67M	€420K	2280	... 84.0	60.0	
7	FC Barcelona	€80M	€455K	2346	... 85.0	62.0	
8	Real Madrid	€51M	€380K	2201	... 82.0	87.0	

	StandingTackle	SlidingTackle	GK Diving	GK Handling	GK Kicking	GK Positioning	\
0	28.0	26.0	6.0	11.0	15.0	14.0	
1	31.0	23.0	7.0	11.0	15.0	14.0	
6	76.0	73.0	13.0	9.0	7.0	14.0	
7	45.0	38.0	27.0	25.0	31.0	33.0	
8	92.0	91.0	11.0	8.0	9.0	7.0	

	GK Reflexes	Release Clause
0	8.0	€226.5M
1	11.0	€127.1M
6	9.0	€137.4M
7	37.0	€164M
8	11.0	€104.6M

[5 rows x 83 columns]

```
[21]: new_age.shape
```

```
[21]: (1486, 83)
```

```
[22]: # sns.pairplot(df, hue = "Nationality", height=1.5)
print("Numbers of duplicated rows :",df.duplicated().sum())
```

Numbers of duplicated rows : 0

Styling our description table from pandas documentation [website](#)

```
[23]: s = df.describe().T.style.bar(subset=['mean'],
                                   color='bwr').background_gradient(subset=['std'],
                                   cmap='brg').background_gradient(subset=['50%'],
                                   cmap='coolwarm').background_gradient(subset=['75%'],
                                   cmap='Pastel1').background_gradient(subset=['25%'],
                                   cmap='Pastel2').background_gradient(subset=['max'],
                                   cmap='crest').background_gradient(subset=['min'],
                                   cmap='copper').background_gradient(subset=['count'],
                                   cmap='cividis')
```

```
[24]: s
```

```
[24]: <pandas.io.formats.style.Styler at 0xcb87400>
```

From description we can see that we have 5000 row

```
[25]: ## €110.5M
## we can see also Wage, Value, and Release Clause are integers so we will
→ convert them to numbers by using .replace function
df["Wage"] = df["Wage"].astype(str).str.replace("€", "")
```

```
[26]: df["Wage"] = df["Wage"].astype(str).str.replace("K", "")
```

```
[27]: df.head(1)
```

```
[27]:      ID      Name  Age Nationality  Overall  Potential      Club \
0  158023  L. Messi   31   Argentina      94         94  FC Barcelona

      Value Wage  Special  ... Composure  Marking  StandingTackle \
0  €110.5M  565     2202  ...      96.0     33.0             28.0

      SlidingTackle GKDiving GKHandling GKKicking GKPositioning GKReflexes \
0             26.0       6.0         11.0        15.0             14.0       8.0

      Release Clause
0             €226.5M

[1 rows x 83 columns]
```

```
[28]: df["Wage"] = df["Wage"].astype(int)
```

```
[29]: df["Wage"] = df["Wage"] * 1000
```

```
[30]: ## we will repeat this for Value
## we found a better way on stackoverflow OFC
df["Value"] = df["Value"].astype(str).str.replace("€", "")
df.Value = (df.Value.replace(r' [KM]+$', '', regex=True).astype(float) * \
            df.Value.str.extract(r' [\d\.]+([KM]+)', expand=False))
```

```
.fillna(0)
.replace(['K','M'], [10**3, 10**6]).astype(int))
```

[link to stack overflow](#)

```
[31]: df["Value"].head()
```

```
[31]: 0    110500000.0
      1     77000000.0
      2    118500000.0
      3     72000000.0
      4    102000000.0
      Name: Value, dtype: float64
```

**GREAT !!!!**

```
[32]: df["Joined"].head()
```

```
[32]: 0    Jul 1, 2004
      1    Jul 10, 2018
      2    Aug 3, 2017
      3    Jul 1, 2011
      4    Aug 30, 2015
      Name: Joined, dtype: object
```

```
[33]: ## we will convert to datetime
      # import datetime
      # conv=pd.to_datetime.strptime(df["Joined"],"%b %d %Y")
      # time.strptime("%m/%d/%Y",conv)
      df["Joined"] = pd.to_datetime(df["Joined"])
```

```
[34]: df["Joined"].head()
```

```
[34]: 0    2004-07-01
      1    2018-07-10
      2    2017-08-03
      3    2011-07-01
      4    2015-08-30
      Name: Joined, dtype: datetime64[ns]
```

```
[35]: df.columns
```

```
[35]: Index(['ID', 'Name', 'Age', 'Nationality', 'Overall', 'Potential', 'Club',
        'Value', 'Wage', 'Special', 'Preferred Foot',
        'International Reputation', 'Weak Foot', 'Skill Moves', 'Work Rate',
        'Body Type', 'Position', 'Joined', 'Loaned From',
        'Contract Valid Until', 'Height', 'Weight', 'LS', 'ST', 'RS', 'LW',
        'LF', 'CF', 'RF', 'RW', 'LAM', 'CAM', 'RAM', 'LM', 'LCM', 'CM', 'RCM',
        'RM', 'LWB', 'LDM', 'CDM', 'RDM', 'RWB', 'LB', 'LCB', 'CB', 'RCB', 'RB',
```

```

'Crossing', 'Finishing', 'HeadingAccuracy', 'ShortPassing', 'Volleys',
'Dribbling', 'Curve', 'FKAccuracy', 'LongPassing', 'BallControl',
'Acceleration', 'SprintSpeed', 'Agility', 'Reactions', 'Balance',
'ShotPower', 'Jumping', 'Stamina', 'Strength', 'LongShots',
'Aggression', 'Interceptions', 'Positioning', 'Vision', 'Penalties',
'Composure', 'Marking', 'StandingTackle', 'SlidingTackle', 'GKDividing',
'GKHandling', 'GKKicking', 'GKPositioning', 'GKReflexes',
'Release Clause'],
dtype='object')

```

```
[36]: df.loc[df["Wage"] == df["Wage"].max()]
```

```

[36]:      ID      Name  Age Nationality  Overall  Potential      Club \
0  158023  L. Messi   31   Argentina      94         94  FC Barcelona

      Value   Wage  Special  ... Composure  Marking  StandingTackle \
0  110500000.0  565000    2202  ...      96.0     33.0           28.0

      SlidingTackle GKDividing GKHandling GKKicking GKPositioning GKReflexes \
0           26.0         6.0        11.0        15.0          14.0         8.0

      Release Clause
0      €226.5M

[1 rows x 83 columns]

```

```
[37]: df.loc[df["Value"] == df["Value"].max()]
```

```

[37]:      ID      Name  Age Nationality  Overall  Potential \
2  190871  Neymar Jr   26      Brazil      92         93

      Club      Value   Wage  Special  ... Composure  Marking \
2  Paris Saint-Germain  118500000.0  290000    2143  ...      94.0     27.0

      StandingTackle  SlidingTackle GKDividing GKHandling GKKicking GKPositioning \
2           24.0           33.0         9.0         9.0        15.0        15.0

      GKReflexes Release Clause
2           11.0      €228.1M

[1 rows x 83 columns]

```

```

[38]: df["Release Clause"] = df["Release Clause"].astype(str).str.replace("€", "")
df["Release Clause"] = (df["Release Clause"].replace(r'[KM]+$', '', regex=True)
    ↪.astype(float) * \
      df["Release Clause"].str.extract(r'[\d\.]+([KM]+)', expand=False)
      .fillna(0)

```

```
.replace(['K','M'], [10**3, 10**6]).astype(int))
```

```
[39]: df.loc[df["Release Clause"] == df["Release Clause"].max()]
```

```
[39]:      ID      Name  Age Nationality  Overall  Potential \
2  190871  Neymar Jr   26        Brazil      92         93

      Club      Value  Wage  Special  ... Composure  Marking \
2  Paris Saint-Germain 118500000.0  290000      2143  ...      94.0      27.0

      StandingTackle  SlidingTackle  GKDiving  GKHandling  GKKicking  GKPositioning \
2              24.0              33.0        9.0          9.0        15.0          15.0

      GKReflexes  Release Clause
2           11.0    228100000.0

[1 rows x 83 columns]
```

```
[40]: df.loc[df["Release Clause"] == df["Release Clause"].min()]
```

```
[40]:      ID      Name  Age Nationality  Overall  Potential \
4820 161807  M. Kelemen   38      Slovakia      70         70

      Club      Value  Wage  Special  ... Composure  Marking \
4820  Jagiellonia Białystok 120000.0  3000      1000  ...      56.0      12.0

      StandingTackle  SlidingTackle  GKDiving  GKHandling  GKKicking \
4820              18.0              12.0        68.0        68.0        66.0

      GKPositioning  GKReflexes  Release Clause
4820              69.0          68.0      162000.0

[1 rows x 83 columns]
```

```
[41]: df["Contract Valid Until"]=pd.to_datetime(df["Contract Valid Until"])
```

```
[42]: y = df["Nationality"].value_counts().head(10).index
```

```
[43]: x = df["Nationality"].value_counts().head(10).values
```

```
[44]: str(df.loc[df['Potential'].idxmax()][1])
```

```
[44]: 'K. Mbappé'
```

```
[45]: str(df.loc[df['Overall'].idxmax()][1])
```

```
[45]: 'L. Messi'
```

```
[46]: str(df.loc[df['Potential'].idxmin()][1])
```

```
[46]: 'R. Bianco'
```

```
[47]: str(df.loc[df['Overall'].idxmin()][1])
```

```
[47]: 'J. Botaka'
```

```
[48]: best_players=['Crossing', 'Finishing', 'HeadingAccuracy', 'ShortPassing',  
    ↪ 'Volleys',  
        'Dribbling', 'Curve', 'FKAccuracy', 'LongPassing', 'BallControl',  
        'Acceleration', 'SprintSpeed', 'Agility', 'Reactions', 'Balance',  
        'ShotPower', 'Jumping', 'Stamina', 'Strength', 'LongShots',  
        'Aggression', 'Interceptions', 'Positioning', 'Vision', 'Penalties',  
        'Composure', 'Marking', 'StandingTackle', 'SlidingTackle', 'GKDividing',  
        'GKHandling', 'GKkicking', 'GKPositioning', 'GKReflexes']  
print("Best in others aspect :")  
  
for i in best_players:  
    print('Best in {0}:{1} '.format(i,df.loc[df[i].idxmax()][0]))
```

```
Best in others aspect :
```

```
Best in Crossing:192985
```

```
Best in Finishing:158023
```

```
Best in HeadingAccuracy:171919
```

```
Best in ShortPassing:177003
```

```
Best in Volleys:179813
```

```
Best in Dribbling:158023
```

```
Best in Curve:20775
```

```
Best in FKAccuracy:158023
```

```
Best in LongPassing:182521
```

```
Best in BallControl:158023
```

```
Best in Acceleration:190483
```

```
Best in SprintSpeed:231747
```

```
Best in Agility:190871
```

```
Best in Reactions:20801
```

```
Best in Balance:205525
```

```
Best in ShotPower:20801
```

```
Best in Jumping:20801
```

```
Best in Stamina:215914
```

```
Best in Strength:232381
```

```
Best in LongShots:158023
```

```
Best in Aggression:213689
```

```
Best in Interceptions:215914
```

```
Best in Positioning:20801
```

```
Best in Vision:158023
```

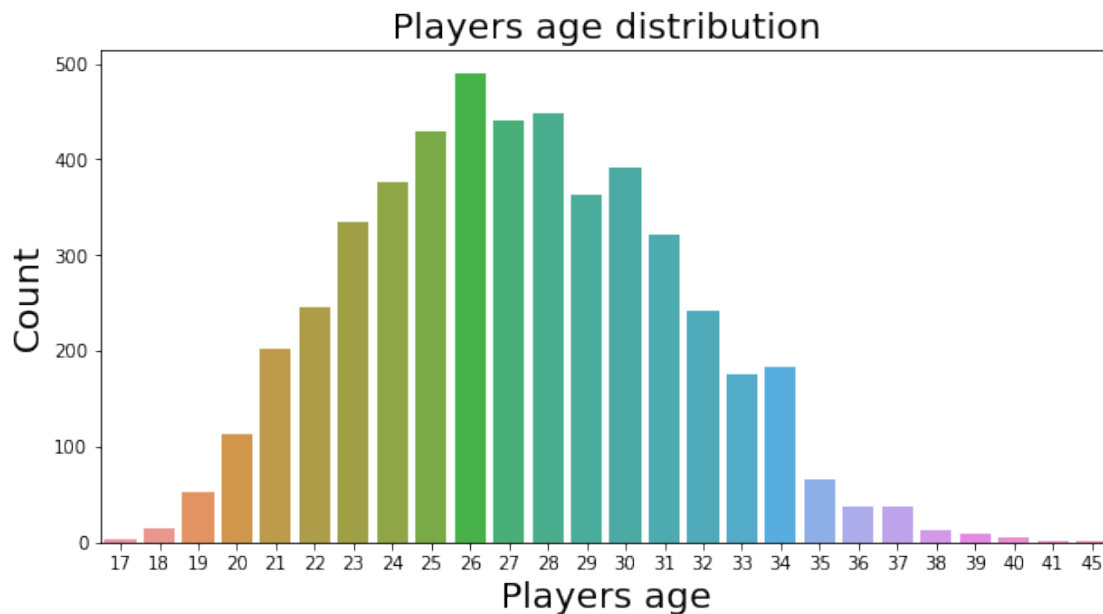
```
Best in Penalties:186627
```

```
Best in Composure:158023
```

```
Best in Marking:137186
Best in StandingTackle:138956
Best in SlidingTackle:155862
Best in GKDividing:193080
Best in GKHandling:200389
Best in GKKicking:167495
Best in GKPositioning:1179
Best in GKReflexes:193080
```

```
[49]: plt.figure(figsize=(10,5))
sns.countplot(df["Age"])
plt.title("Players age distribution",fontsize=20)
plt.xlabel("Players age",fontsize=20)
plt.ylabel("Count",fontsize=20)
plt.show()
```

```
C:\Users\peter\anaconda3\lib\site-packages\seaborn\_decorators.py:36:
FutureWarning: Pass the following variable as a keyword arg: x. From version
0.12, the only valid positional argument will be `data`, and passing other
arguments without an explicit keyword will result in an error or
misinterpretation.
  warnings.warn(
```



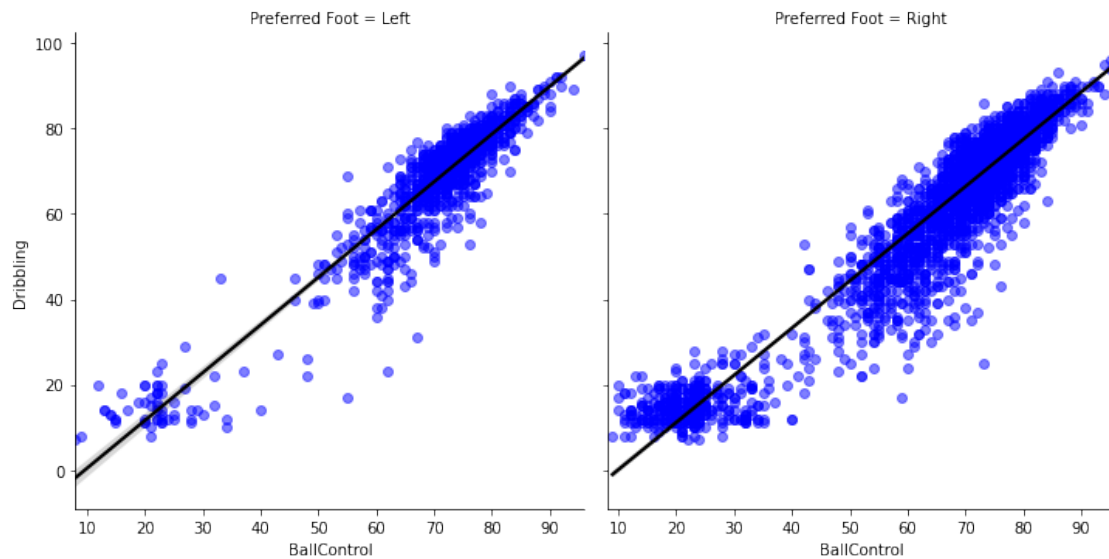
As we can see the highest total count is at 26 yo

```
[50]: df["Club"].nunique()
```

```
[50]: 505
```

```
[51]: sns.lmplot(x = 'BallControl', y = 'Dribbling',  
               data = df,col = 'Preferred Foot',  
               scatter_kws = {'alpha':0.5,'color':'blue'},  
               line_kws={'color':'black'})
```

```
[51]: <seaborn.axisgrid.FacetGrid at 0xd3f63a0>
```

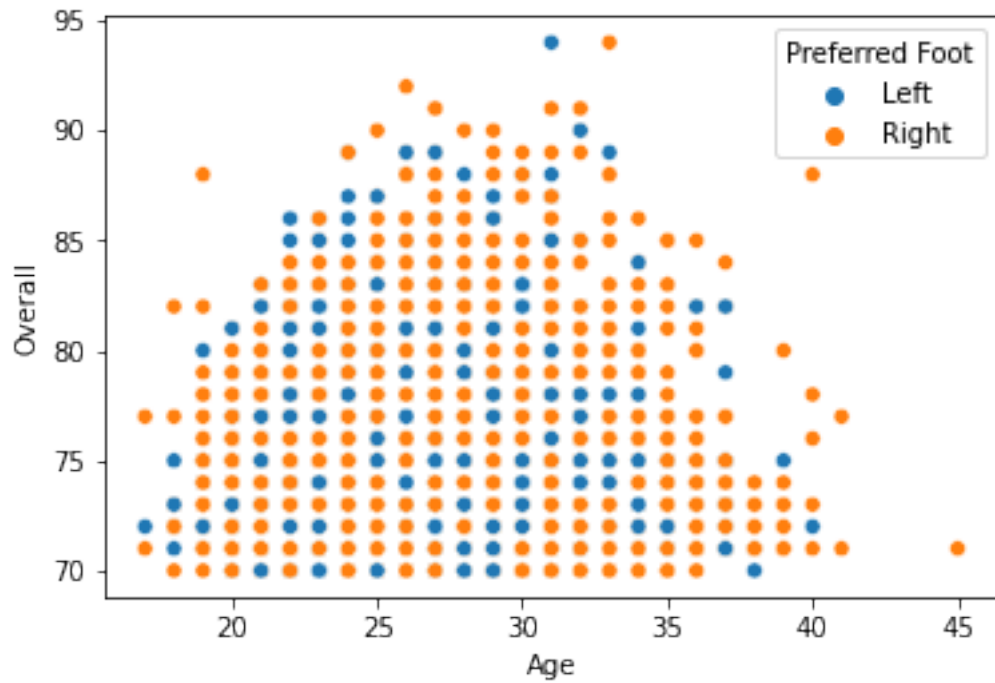


Most of players prefer right foot

```
[54]: sns.scatterplot(x='Age',y='Overall',hue = 'Preferred Foot',data=df)
```

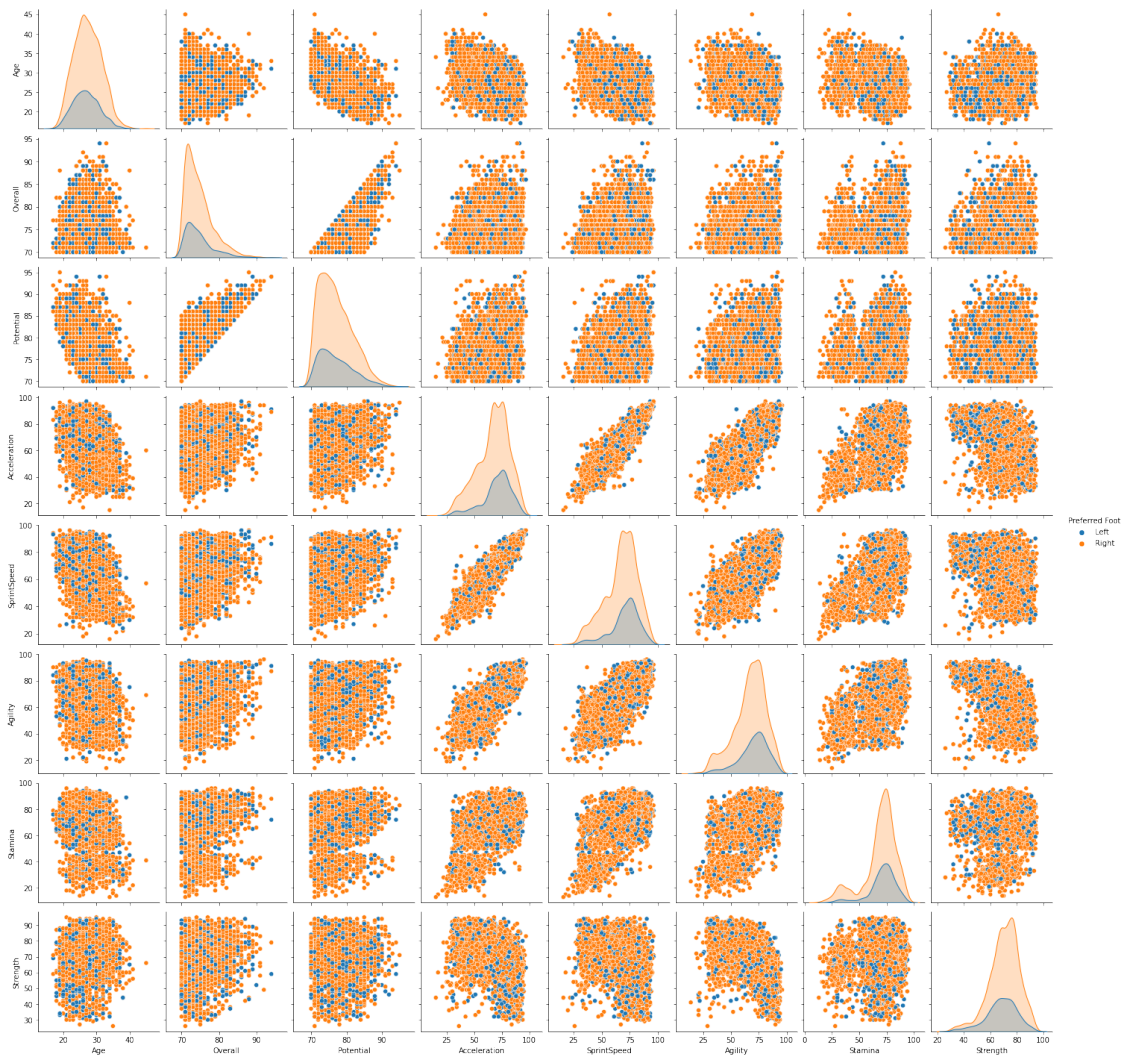
```
[54]: <AxesSubplot:xlabel='Age', ylabel='Overall'>
```





```
[56]: cols =_
      ↪['Age', 'Overall', 'Potential', 'Acceleration', 'SprintSpeed', "Agility", "Stamina", 'Strength', 'P
      ↪Foot']
df_small = df[cols]
sns.pairplot(df_small, hue="Preferred Foot")
```

```
[56]: <seaborn.axisgrid.PairGrid at 0xd31f340>
```



- From our plots we can see that most of players are right foot
- We can say that Age isn't a perfect variable to measure another variables on it

[ ]:

[ ]:

[ ]:

[ ]: