

chandana-EDA-MINIPROJECT (1)

March 8, 2020

```
[2]: import seaborn as sns
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import warnings
warnings.filterwarnings('ignore')
import os
```

```
[3]: pd.set_option("display.max_columns", 60)
```

```
[4]: fifa=pd.read_csv('fifa.csv')
fifa.head()
```

```
[4]:      ID      Name  Age  \
0  158023    L. Messi   31
1   20801 Cristiano Ronaldo   33
2  190871    Neymar Jr   26
3  193080      De Gea   27
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      Club Logo  Value  \
0  FC Barcelona  https://cdn.sofifa.org/teams/2/light/241.png  €110.5M
1    Juventus    https://cdn.sofifa.org/teams/2/light/45.png    €77M
```

2	Paris Saint-Germain	https://cdn.sofifa.org/teams/2/light/73.png	€118.5M
3	Manchester United	https://cdn.sofifa.org/teams/2/light/11.png	€72M
4	Manchester City	https://cdn.sofifa.org/teams/2/light/10.png	€102M

	Wage	Preferred Foot	International Reputation	Weak Foot	Skill Moves	\
0	€565K	Left	5.0	4.0	4.0	
1	€405K	Right	5.0	4.0	5.0	
2	€290K	Right	5.0	5.0	5.0	
3	€260K	Right	4.0	3.0	1.0	
4	€355K	Right	4.0	5.0	4.0	

	Work Rate	Body Type	Position	Jersey Number	Joined	\
0	Medium/ Medium	Messi	RF	10.0	Jul 1, 2004	
1	High/ Low	C. Ronaldo	ST	7.0	Jul 10, 2018	
2	High/ Medium	Neymar	LW	10.0	Aug 3, 2017	
3	Medium/ Medium	Lean	GK	1.0	Jul 1, 2011	
4	High/ High	Normal	RCM	7.0	Aug 30, 2015	

	Loaned From	Contract Valid Until	Height	Weight	Crossing	Finishing	\
0	NaN	2021	5'7	159lbs	84.0	95.0	
1	NaN	2022	6'2	183lbs	84.0	94.0	
2	NaN	2022	5'9	150lbs	79.0	87.0	
3	NaN	2020	6'4	168lbs	17.0	13.0	
4	NaN	2023	5'11	154lbs	93.0	82.0	

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy	\
0	70.0	90.0	86.0	97.0	93.0	94.0	
1	89.0	81.0	87.0	88.0	81.0	76.0	
2	62.0	84.0	84.0	96.0	88.0	87.0	
3	21.0	50.0	13.0	18.0	21.0	19.0	
4	55.0	92.0	82.0	86.0	85.0	83.0	

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions	\
0	87.0	96.0	91.0	86.0	91.0	95.0	
1	77.0	94.0	89.0	91.0	87.0	96.0	
2	78.0	95.0	94.0	90.0	96.0	94.0	
3	51.0	42.0	57.0	58.0	60.0	90.0	
4	91.0	91.0	78.0	76.0	79.0	91.0	

	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression	\
0	95.0	85.0	68.0	72.0	59.0	94.0	48.0	
1	70.0	95.0	95.0	88.0	79.0	93.0	63.0	
2	84.0	80.0	61.0	81.0	49.0	82.0	56.0	
3	43.0	31.0	67.0	43.0	64.0	12.0	38.0	
4	77.0	91.0	63.0	90.0	75.0	91.0	76.0	

Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
---------------	-------------	--------	-----------	-----------	---------	---

0	22.0	94.0	94.0	75.0	96.0	33.0
1	29.0	95.0	82.0	85.0	95.0	28.0
2	36.0	89.0	87.0	81.0	94.0	27.0
3	30.0	12.0	68.0	40.0	68.0	15.0
4	61.0	87.0	94.0	79.0	88.0	68.0

	StandingTackle	SlidingTackle	GKDividing	GKHandling	GKKicking	\
0	28.0	26.0	6.0	11.0	15.0	
1	31.0	23.0	7.0	11.0	15.0	
2	24.0	33.0	9.0	9.0	15.0	
3	21.0	13.0	90.0	85.0	87.0	
4	58.0	51.0	15.0	13.0	5.0	

	GKPositioning	GKReflexes	Release Clause
0	14.0	8.0	€226.5M
1	14.0	11.0	€127.1M
2	15.0	11.0	€228.1M
3	88.0	94.0	€138.6M
4	10.0	13.0	€196.4M

```
[5]: fifainfo=pd.read_csv('fifa_+variable_information.csv')
fifainfo
```

```
[5]:
```

	ID	unique id for every player
0	Name	name
1	Age	age
2	Photo	url to the player's photo
3	Nationality	nationality
4	Flag	url to players's country flag
5	Overall	overall rating
6	Potential	potential rating
7	Club	current club
8	Club Logo	url to club logo
9	Value	current market value
10	Wage	current wage
11	Preferred Foot	left/right
12	International Reputation	rating on scale of 5
13	Weak Foot	rating on scale of 5
14	Skill Moves	rating on scale of 5
15	Work Rate	attack work rate/defence work rate
16	Body Type	body type of player
17	Position	position on the pitch
18	Jersey Number	jersey number
19	Joined	joined date
20	Loaned From	club name if applicable
21	Contract Valid Until	contract end date
22	Height	height of the player

23	Weight	weight of the player
24	Crossing	rating on scale of 100
25	Finishing	rating on scale of 100
26	HeadingAccuracy	rating on scale of 100
27	ShortPassing	rating on scale of 100
28	Volleys	rating on scale of 100
29	Dribbling	rating on scale of 100
30	Curve	rating on scale of 100
31	FKAccuracy	rating on scale of 100
32	LongPassing	rating on scale of 100
33	BallControl	rating on scale of 100
34	Acceleration	rating on scale of 100
35	SprintSpeed	rating on scale of 100
36	Agility	rating on scale of 100
37	Reactions	rating on scale of 100\
38	Balance	rating on scale of 100
39	ShotPower	rating on scale of 100
40	Jumping	rating on scale of 100
41	Stamina	rating on scale of 100
42	Strength	rating on scale of 100
43	LongShots	rating on scale of 100
44	Aggression	rating on scale of 100
45	Interceptions	rating on scale of 100
46	Positioning	rating on scale of 100
47	Vision	rating on scale of 100
48	Penalties	rating on scale of 100
49	Composure	rating on scale of 100
50	Marking	rating on scale of 100
51	StandingTackle	rating on scale of 100
52	SlidingTackle	rating on scale of 100
53	GKDivining	rating on scale of 100
54	GKHandling	rating on scale of 100
55	GKKicking	rating on scale of 100
56	GKPositioning	rating on scale of 100
57	GKReflexes	rating on scale of 100
58	Release Clause	release clause value

```
[6]: fifa.columns
```

```
[6]: Index(['ID', 'Name', 'Age', 'Photo', 'Nationality', 'Flag', 'Overall',
          'Potential', 'Club', 'Club Logo', 'Value', 'Wage', 'Preferred Foot',
          'International Reputation', 'Weak Foot', 'Skill Moves', 'Work Rate',
          'Body Type', 'Position', 'Jersey Number', 'Joined', 'Loaned From',
          'Contract Valid Until', 'Height', 'Weight', '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',
'GKCKicking', 'GKPositioning', 'GKReflexes', 'Release Clause'],
dtype='object')
```

```
[7]: fifa.shape
```

```
[7]: (18207, 60)
```

```
[8]: fifa.describe()
```

```
[8]:
```

	ID	Age	Overall	Potential	\
count	18207.000000	18207.000000	18207.000000	18207.000000	
mean	214298.338606	25.122206	66.238699	71.307299	
std	29965.244204	4.669943	6.908930	6.136496	
min	16.000000	16.000000	46.000000	48.000000	
25%	200315.500000	21.000000	62.000000	67.000000	
50%	221759.000000	25.000000	66.000000	71.000000	
75%	236529.500000	28.000000	71.000000	75.000000	
max	246620.000000	45.000000	94.000000	95.000000	

	International Reputation	Weak Foot	Skill Moves	Jersey Number	\
count	18159.000000	18159.000000	18159.000000	18147.000000	
mean	1.113222	2.947299	2.361308	19.546096	
std	0.394031	0.660456	0.756164	15.947765	
min	1.000000	1.000000	1.000000	1.000000	
25%	1.000000	3.000000	2.000000	8.000000	
50%	1.000000	3.000000	2.000000	17.000000	
75%	1.000000	3.000000	3.000000	26.000000	
max	5.000000	5.000000	5.000000	99.000000	

	Crossing	Finishing	HeadingAccuracy	ShortPassing	\
count	18159.000000	18159.000000	18159.000000	18159.000000	
mean	49.734181	45.550911	52.298144	58.686712	
std	18.364524	19.525820	17.379909	14.699495	
min	5.000000	2.000000	4.000000	7.000000	
25%	38.000000	30.000000	44.000000	54.000000	
50%	54.000000	49.000000	56.000000	62.000000	
75%	64.000000	62.000000	64.000000	68.000000	
max	93.000000	95.000000	94.000000	93.000000	

	Volleys	Dribbling	Curve	FKAccuracy	LongPassing	\
count	18159.000000	18159.000000	18159.000000	18159.000000	18159.000000	
mean	42.909026	55.371001	47.170824	42.863153	52.711933	
std	17.694408	18.910371	18.395264	17.478763	15.327870	
min	4.000000	4.000000	6.000000	3.000000	9.000000	

25%	30.000000	49.000000	34.000000	31.000000	43.000000
50%	44.000000	61.000000	48.000000	41.000000	56.000000
75%	57.000000	68.000000	62.000000	57.000000	64.000000
max	90.000000	97.000000	94.000000	94.000000	93.000000

	BallControl	Acceleration	SprintSpeed	Agility	Reactions \
count	18159.000000	18159.000000	18159.000000	18159.000000	18159.000000
mean	58.369459	64.614076	64.726967	63.503607	61.836610
std	16.686595	14.927780	14.649953	14.766049	9.010464
min	5.000000	12.000000	12.000000	14.000000	21.000000
25%	54.000000	57.000000	57.000000	55.000000	56.000000
50%	63.000000	67.000000	67.000000	66.000000	62.000000
75%	69.000000	75.000000	75.000000	74.000000	68.000000
max	96.000000	97.000000	96.000000	96.000000	96.000000

	Balance	ShotPower	Jumping	Stamina	Strength \
count	18159.000000	18159.000000	18159.000000	18159.000000	18159.000000
mean	63.966573	55.460047	65.089432	63.219946	65.311967
std	14.136166	17.237958	11.820044	15.894741	12.557000
min	16.000000	2.000000	15.000000	12.000000	17.000000
25%	56.000000	45.000000	58.000000	56.000000	58.000000
50%	66.000000	59.000000	66.000000	66.000000	67.000000
75%	74.000000	68.000000	73.000000	74.000000	74.000000
max	96.000000	95.000000	95.000000	96.000000	97.000000

	LongShots	Aggression	Interceptions	Positioning	Vision \
count	18159.000000	18159.000000	18159.000000	18159.000000	18159.000000
mean	47.109973	55.868991	46.698276	49.958478	53.400903
std	19.260524	17.367967	20.696909	19.529036	14.146881
min	3.000000	11.000000	3.000000	2.000000	10.000000
25%	33.000000	44.000000	26.000000	38.000000	44.000000
50%	51.000000	59.000000	52.000000	55.000000	55.000000
75%	62.000000	69.000000	64.000000	64.000000	64.000000
max	94.000000	95.000000	92.000000	95.000000	94.000000

	Penalties	Composure	Marking	StandingTackle \
count	18159.000000	18159.000000	18159.000000	18159.000000
mean	48.548598	58.648274	47.281623	47.697836
std	15.704053	11.436133	19.904397	21.664004
min	5.000000	3.000000	3.000000	2.000000
25%	39.000000	51.000000	30.000000	27.000000
50%	49.000000	60.000000	53.000000	55.000000
75%	60.000000	67.000000	64.000000	66.000000
max	92.000000	96.000000	94.000000	93.000000

	SlidingTackle	GKDividing	GKHandling	GKKicking	GKPositioning \
count	18159.000000	18159.000000	18159.000000	18159.000000	18159.000000

mean	45.661435	16.616223	16.391596	16.232061	16.388898
std	21.289135	17.695349	16.906900	16.502864	17.034669
min	3.000000	1.000000	1.000000	1.000000	1.000000
25%	24.000000	8.000000	8.000000	8.000000	8.000000
50%	52.000000	11.000000	11.000000	11.000000	11.000000
75%	64.000000	14.000000	14.000000	14.000000	14.000000
max	91.000000	90.000000	92.000000	91.000000	90.000000

	GKReflexes
count	18159.000000
mean	16.710887
std	17.955119
min	1.000000
25%	8.000000
50%	11.000000
75%	14.000000
max	94.000000

checking for missing values

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

```
[9]: ID                0
     Name              0
     Age              0
     Photo            0
     Nationality      0
     Flag             0
     Overall          0
     Potential        0
     Club            241
     Club Logo        0
     Value            0
     Wage             0
     Preferred Foot   48
     International Reputation 48
     Weak Foot        48
     Skill Moves      48
     Work Rate        48
     Body Type        48
     Position         60
     Jersey Number    60
     Joined           1553
     Loaned From      16943
     Contract Valid Until 289
     Height           48
     Weight           48
```

Crossing	48
Finishing	48
HeadingAccuracy	48
ShortPassing	48
Volleys	48
Dribbling	48
Curve	48
FKAccuracy	48
LongPassing	48
BallControl	48
Acceleration	48
SprintSpeed	48
Agility	48
Reactions	48
Balance	48
ShotPower	48
Jumping	48
Stamina	48
Strength	48
LongShots	48
Aggression	48
Interceptions	48
Positioning	48
Vision	48
Penalties	48
Composure	48
Marking	48
StandingTackle	48
SlidingTackle	48
GKDividing	48
GKHandling	48
GK Kicking	48
GK Positioning	48
GK Reflexes	48
Release Clause	1564

dtype: int64

```
[10]: fifa.head()
```

```
[10]:
```

	ID	Name	Age	\
0	158023	L. Messi	31	
1	20801	Cristiano Ronaldo	33	
2	190871	Neymar Jr	26	
3	193080	De Gea	27	
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	Club Logo	Value	\
0	FC Barcelona	https://cdn.sofifa.org/teams/2/light/241.png	€110.5M	
1	Juventus	https://cdn.sofifa.org/teams/2/light/45.png	€77M	
2	Paris Saint-Germain	https://cdn.sofifa.org/teams/2/light/73.png	€118.5M	
3	Manchester United	https://cdn.sofifa.org/teams/2/light/11.png	€72M	
4	Manchester City	https://cdn.sofifa.org/teams/2/light/10.png	€102M	

	Wage	Preferred Foot	International Reputation	Weak Foot	Skill Moves	\
0	€565K	Left	5.0	4.0	4.0	
1	€405K	Right	5.0	4.0	5.0	
2	€290K	Right	5.0	5.0	5.0	
3	€260K	Right	4.0	3.0	1.0	
4	€355K	Right	4.0	5.0	4.0	

	Work Rate	Body Type	Position	Jersey Number	Joined	\
0	Medium/ Medium	Messi	RF	10.0	Jul 1, 2004	
1	High/ Low	C. Ronaldo	ST	7.0	Jul 10, 2018	
2	High/ Medium	Neymar	LW	10.0	Aug 3, 2017	
3	Medium/ Medium	Lean	GK	1.0	Jul 1, 2011	
4	High/ High	Normal	RCM	7.0	Aug 30, 2015	

	Loaned From	Contract Valid Until	Height	Weight	Crossing	Finishing	\
0	NaN	2021	5'7	159lbs	84.0	95.0	
1	NaN	2022	6'2	183lbs	84.0	94.0	
2	NaN	2022	5'9	150lbs	79.0	87.0	
3	NaN	2020	6'4	168lbs	17.0	13.0	
4	NaN	2023	5'11	154lbs	93.0	82.0	

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy	\
0	70.0	90.0	86.0	97.0	93.0	94.0	
1	89.0	81.0	87.0	88.0	81.0	76.0	
2	62.0	84.0	84.0	96.0	88.0	87.0	
3	21.0	50.0	13.0	18.0	21.0	19.0	
4	55.0	92.0	82.0	86.0	85.0	83.0	

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions	\
0	87.0	96.0	91.0	86.0	91.0	95.0	
1	77.0	94.0	89.0	91.0	87.0	96.0	
2	78.0	95.0	94.0	90.0	96.0	94.0	
3	51.0	42.0	57.0	58.0	60.0	90.0	
4	91.0	91.0	78.0	76.0	79.0	91.0	

	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression	\
0	95.0	85.0	68.0	72.0	59.0	94.0	48.0	
1	70.0	95.0	95.0	88.0	79.0	93.0	63.0	
2	84.0	80.0	61.0	81.0	49.0	82.0	56.0	
3	43.0	31.0	67.0	43.0	64.0	12.0	38.0	
4	77.0	91.0	63.0	90.0	75.0	91.0	76.0	

	Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
0	22.0	94.0	94.0	75.0	96.0	33.0	
1	29.0	95.0	82.0	85.0	95.0	28.0	
2	36.0	89.0	87.0	81.0	94.0	27.0	
3	30.0	12.0	68.0	40.0	68.0	15.0	
4	61.0	87.0	94.0	79.0	88.0	68.0	

	StandingTackle	SlidingTackle	GKDivining	GKHandling	GKKicking	\
0	28.0	26.0	6.0	11.0	15.0	
1	31.0	23.0	7.0	11.0	15.0	
2	24.0	33.0	9.0	9.0	15.0	
3	21.0	13.0	90.0	85.0	87.0	
4	58.0	51.0	15.0	13.0	5.0	

	GKPositioning	GKReflexes	Release Clause
0	14.0	8.0	€226.5M
1	14.0	11.0	€127.1M
2	15.0	11.0	€228.1M
3	88.0	94.0	€138.6M
4	10.0	13.0	€196.4M

```
[11]: c=[]
for i in fifa.Value:
    if i[-1]=='M':
        m = float(i[1:-1])
        f = m*1000000
        c.append(f)
    elif i[-1]=='K':
        k = float(i[1:-1])
        j = k*1000
        c.append(j)
    else:
```

```

        j=float(i[1:])
        c.append(j)

m=np.array(c)
fifa.Value=m

```

```

[12]: c=[]
for i in fifa.Wage:
    if i[-1]=='M':
        m = float(i[1:-1])
        f = m*1000000
        c.append(f)
    elif i[-1]=='K':
        k = float(i[1:-1])
        j = k*1000
        c.append(j)
    else:
        j=float(i[1:])
        c.append(j)

m=np.array(c)
fifa.Wage=m

```

```

[13]: fifa.head()

```

```

[13]:      ID      Name  Age  \
0  158023      L. Messi  31
1   20801  Cristiano Ronaldo  33
2  190871      Neymar Jr  26
3  193080      De Gea  27
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                                     Club Logo  \

```

0	FC Barcelona	https://cdn.sofifa.org/teams/2/light/241.png
1	Juventus	https://cdn.sofifa.org/teams/2/light/45.png
2	Paris Saint-Germain	https://cdn.sofifa.org/teams/2/light/73.png
3	Manchester United	https://cdn.sofifa.org/teams/2/light/11.png
4	Manchester City	https://cdn.sofifa.org/teams/2/light/10.png

	Value	Wage	Preferred Foot	International Reputation	Weak Foot \
0	110500000.0	565000.0	Left	5.0	4.0
1	77000000.0	405000.0	Right	5.0	4.0
2	118500000.0	290000.0	Right	5.0	5.0
3	72000000.0	260000.0	Right	4.0	3.0
4	102000000.0	355000.0	Right	4.0	5.0

	Skill Moves	Work Rate	Body Type	Position	Jersey Number \
0	4.0	Medium/ Medium	Messi	RF	10.0
1	5.0	High/ Low	C. Ronaldo	ST	7.0
2	5.0	High/ Medium	Neymar	LW	10.0
3	1.0	Medium/ Medium	Lean	GK	1.0
4	4.0	High/ High	Normal	RCM	7.0

	Joined	Loaned From	Contract Valid Until	Height	Weight	Crossing \
0	Jul 1, 2004	NaN	2021	5'7	159lbs	84.0
1	Jul 10, 2018	NaN	2022	6'2	183lbs	84.0
2	Aug 3, 2017	NaN	2022	5'9	150lbs	79.0
3	Jul 1, 2011	NaN	2020	6'4	168lbs	17.0
4	Aug 30, 2015	NaN	2023	5'11	154lbs	93.0

	Finishing	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve \
0	95.0	70.0	90.0	86.0	97.0	93.0
1	94.0	89.0	81.0	87.0	88.0	81.0
2	87.0	62.0	84.0	84.0	96.0	88.0
3	13.0	21.0	50.0	13.0	18.0	21.0
4	82.0	55.0	92.0	82.0	86.0	85.0

	FKAccuracy	LongPassing	BallControl	Acceleration	SprintSpeed	Agility \
0	94.0	87.0	96.0	91.0	86.0	91.0
1	76.0	77.0	94.0	89.0	91.0	87.0
2	87.0	78.0	95.0	94.0	90.0	96.0
3	19.0	51.0	42.0	57.0	58.0	60.0
4	83.0	91.0	91.0	78.0	76.0	79.0

	Reactions	Balance	ShotPower	Jumping	Stamina	Strength	LongShots \
0	95.0	95.0	85.0	68.0	72.0	59.0	94.0
1	96.0	70.0	95.0	95.0	88.0	79.0	93.0
2	94.0	84.0	80.0	61.0	81.0	49.0	82.0
3	90.0	43.0	31.0	67.0	43.0	64.0	12.0
4	91.0	77.0	91.0	63.0	90.0	75.0	91.0

	Aggression	Interceptions	Positioning	Vision	Penalties	Composure	\
0	48.0	22.0	94.0	94.0	75.0	96.0	
1	63.0	29.0	95.0	82.0	85.0	95.0	
2	56.0	36.0	89.0	87.0	81.0	94.0	
3	38.0	30.0	12.0	68.0	40.0	68.0	
4	76.0	61.0	87.0	94.0	79.0	88.0	

	Marking	StandingTackle	SlidingTackle	GKDividing	GKHandling	GKKicking	\
0	33.0	28.0	26.0	6.0	11.0	15.0	
1	28.0	31.0	23.0	7.0	11.0	15.0	
2	27.0	24.0	33.0	9.0	9.0	15.0	
3	15.0	21.0	13.0	90.0	85.0	87.0	
4	68.0	58.0	51.0	15.0	13.0	5.0	

	GKPositioning	GKReflexes	Release Clause
0	14.0	8.0	€226.5M
1	14.0	11.0	€127.1M
2	15.0	11.0	€228.1M
3	88.0	94.0	€138.6M
4	10.0	13.0	€196.4M

```
[14]: from datetime import datetime
      from dateutil.parser import parse
      import pandas as pd
```

```
[15]: fifa['Joined'] = pd.DatetimeIndex(fifa['Joined']).year
```

```
[16]: p=[]
      for i in fifa.Joined:
          if isinstance(i,float)!=True:
              v = int(i[-4:])
              p.append(v)

          else:
              p.append(i)

      m = np.array(p)
      fifa.Joined=m
```

```
[17]: fifa.head()
```

```
[17]:      ID      Name  Age  \
0  158023    L. Messi   31
1   20801 Cristiano Ronaldo  33
2  190871    Neymar Jr   26
3  193080      De Gea   27
```

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	Club Logo	\
0	FC Barcelona	https://cdn.sofifa.org/teams/2/light/241.png	
1	Juventus	https://cdn.sofifa.org/teams/2/light/45.png	
2	Paris Saint-Germain	https://cdn.sofifa.org/teams/2/light/73.png	
3	Manchester United	https://cdn.sofifa.org/teams/2/light/11.png	
4	Manchester City	https://cdn.sofifa.org/teams/2/light/10.png	

	Value	Wage	Preferred Foot	International Reputation	Weak Foot	\
0	110500000.0	565000.0	Left	5.0	4.0	
1	77000000.0	405000.0	Right	5.0	4.0	
2	118500000.0	290000.0	Right	5.0	5.0	
3	72000000.0	260000.0	Right	4.0	3.0	
4	102000000.0	355000.0	Right	4.0	5.0	

	Skill Moves	Work Rate	Body Type	Position	Jersey Number	Joined	\
0	4.0	Medium/ Medium	Messi	RF	10.0	2004.0	
1	5.0	High/ Low	C. Ronaldo	ST	7.0	2018.0	
2	5.0	High/ Medium	Neymar	LW	10.0	2017.0	
3	1.0	Medium/ Medium	Lean	GK	1.0	2011.0	
4	4.0	High/ High	Normal	RCM	7.0	2015.0	

	Loaned From	Contract Valid Until	Height	Weight	Crossing	Finishing	\
0	NaN	2021	5'7	159lbs	84.0	95.0	
1	NaN	2022	6'2	183lbs	84.0	94.0	
2	NaN	2022	5'9	150lbs	79.0	87.0	
3	NaN	2020	6'4	168lbs	17.0	13.0	
4	NaN	2023	5'11	154lbs	93.0	82.0	

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy	\
0	70.0	90.0	86.0	97.0	93.0	94.0	
1	89.0	81.0	87.0	88.0	81.0	76.0	

2	62.0	84.0	84.0	96.0	88.0	87.0
3	21.0	50.0	13.0	18.0	21.0	19.0
4	55.0	92.0	82.0	86.0	85.0	83.0

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions	\
0	87.0	96.0	91.0	86.0	91.0	95.0	
1	77.0	94.0	89.0	91.0	87.0	96.0	
2	78.0	95.0	94.0	90.0	96.0	94.0	
3	51.0	42.0	57.0	58.0	60.0	90.0	
4	91.0	91.0	78.0	76.0	79.0	91.0	

	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression	\
0	95.0	85.0	68.0	72.0	59.0	94.0	48.0	
1	70.0	95.0	95.0	88.0	79.0	93.0	63.0	
2	84.0	80.0	61.0	81.0	49.0	82.0	56.0	
3	43.0	31.0	67.0	43.0	64.0	12.0	38.0	
4	77.0	91.0	63.0	90.0	75.0	91.0	76.0	

	Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
0	22.0	94.0	94.0	75.0	96.0	33.0	
1	29.0	95.0	82.0	85.0	95.0	28.0	
2	36.0	89.0	87.0	81.0	94.0	27.0	
3	30.0	12.0	68.0	40.0	68.0	15.0	
4	61.0	87.0	94.0	79.0	88.0	68.0	

	StandingTackle	SlidingTackle	GK Diving	GK Handling	GK Kicking	\
0	28.0	26.0	6.0	11.0	15.0	
1	31.0	23.0	7.0	11.0	15.0	
2	24.0	33.0	9.0	9.0	15.0	
3	21.0	13.0	90.0	85.0	87.0	
4	58.0	51.0	15.0	13.0	5.0	

	GK Positioning	GK Reflexes	Release Clause
0	14.0	8.0	€226.5M
1	14.0	11.0	€127.1M
2	15.0	11.0	€228.1M
3	88.0	94.0	€138.6M
4	10.0	13.0	€196.4M

```
[18]: y = []
import datetime
for i in fifa['Contract Valid Until']:
    if isinstance(i,float)==False:
        if len(i) == 4:
            d = datetime.datetime.strptime(i, '%Y')
            y.append(d)
        else:
```

```

        d = datetime.datetime.strptime(i, '%b %d, %Y')
        y.append(d)
    else:
        y.append(i)

o = np.array(y)
fifa['Contract Valid Until']=o

```

```
[19]: fifa.head()
```

```

[19]:      ID      Name  Age  \
0  158023      L. Messi  31
1   20801  Cristiano Ronaldo  33
2  190871      Neymar Jr  26
3  193080      De Gea  27
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      Club Logo  \
0      FC Barcelona  https://cdn.sofifa.org/teams/2/light/241.png
1      Juventus  https://cdn.sofifa.org/teams/2/light/45.png
2  Paris Saint-Germain  https://cdn.sofifa.org/teams/2/light/73.png
3  Manchester United  https://cdn.sofifa.org/teams/2/light/11.png
4      Manchester City  https://cdn.sofifa.org/teams/2/light/10.png

      Value  Wage Preferred Foot  International Reputation  Weak Foot  \
0  110500000.0  565000.0  Left  5.0  4.0
1  77000000.0  405000.0  Right  5.0  4.0
2  118500000.0  290000.0  Right  5.0  5.0
3  72000000.0  260000.0  Right  4.0  3.0
4  102000000.0  355000.0  Right  4.0  5.0

      Skill Moves  Work Rate  Body Type Position  Jersey Number  Joined  \
0  4.0  Medium/ Medium  Messi  RF  10.0  2004.0

```


1	5.0	High/ Low	C. Ronaldo	ST	7.0	2018.0
2	5.0	High/ Medium	Neymar	LW	10.0	2017.0
3	1.0	Medium/ Medium	Lean	GK	1.0	2011.0
4	4.0	High/ High	Normal	RCM	7.0	2015.0

	Loaned From	Contract Valid Until	Height	Weight	Crossing	Finishing \
0	NaN	2021-01-01	5'7	159lbs	84.0	95.0
1	NaN	2022-01-01	6'2	183lbs	84.0	94.0
2	NaN	2022-01-01	5'9	150lbs	79.0	87.0
3	NaN	2020-01-01	6'4	168lbs	17.0	13.0
4	NaN	2023-01-01	5'11	154lbs	93.0	82.0

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy \
0	70.0	90.0	86.0	97.0	93.0	94.0
1	89.0	81.0	87.0	88.0	81.0	76.0
2	62.0	84.0	84.0	96.0	88.0	87.0
3	21.0	50.0	13.0	18.0	21.0	19.0
4	55.0	92.0	82.0	86.0	85.0	83.0

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions \
0	87.0	96.0	91.0	86.0	91.0	95.0
1	77.0	94.0	89.0	91.0	87.0	96.0
2	78.0	95.0	94.0	90.0	96.0	94.0
3	51.0	42.0	57.0	58.0	60.0	90.0
4	91.0	91.0	78.0	76.0	79.0	91.0

	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression \
0	95.0	85.0	68.0	72.0	59.0	94.0	48.0
1	70.0	95.0	95.0	88.0	79.0	93.0	63.0
2	84.0	80.0	61.0	81.0	49.0	82.0	56.0
3	43.0	31.0	67.0	43.0	64.0	12.0	38.0
4	77.0	91.0	63.0	90.0	75.0	91.0	76.0

	Interceptions	Positioning	Vision	Penalties	Composure	Marking \
0	22.0	94.0	94.0	75.0	96.0	33.0
1	29.0	95.0	82.0	85.0	95.0	28.0
2	36.0	89.0	87.0	81.0	94.0	27.0
3	30.0	12.0	68.0	40.0	68.0	15.0
4	61.0	87.0	94.0	79.0	88.0	68.0

	StandingTackle	SlidingTackle	GK Diving	GK Handling	GK Kicking \
0	28.0	26.0	6.0	11.0	15.0
1	31.0	23.0	7.0	11.0	15.0
2	24.0	33.0	9.0	9.0	15.0
3	21.0	13.0	90.0	85.0	87.0
4	58.0	51.0	15.0	13.0	5.0

	GKPositioning	GKReflexes	Release Clause
0	14.0	8.0	€226.5M
1	14.0	11.0	€127.1M
2	15.0	11.0	€228.1M
3	88.0	94.0	€138.6M
4	10.0	13.0	€196.4M

```
[20]: j=[]
      for i in fifa.Height:
          if isinstance(i,float)==False:
              o = i.replace("'", ".")
              j.append(float(o))
          else:
              j.append(i)
      m=np.array(j)
      fifa.Height=m
```

```
[21]: p=[]
      for i in fifa.Weight:
          if isinstance(i,float)!=True:
              v = float(i[:3])
              p.append(v)
          else:
              p.append(i)

      m = np.array(p)
      fifa.Weight=m
```

```
[22]: fifa.head()
```

```
[22]:      ID      Name  Age  \
0  158023      L. Messi  31
1   20801  Cristiano Ronaldo  33
2  190871      Neymar Jr   26
3  193080      De Gea   27
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	Club Logo \
0	FC Barcelona	https://cdn.sofifa.org/teams/2/light/241.png
1	Juventus	https://cdn.sofifa.org/teams/2/light/45.png
2	Paris Saint-Germain	https://cdn.sofifa.org/teams/2/light/73.png
3	Manchester United	https://cdn.sofifa.org/teams/2/light/11.png
4	Manchester City	https://cdn.sofifa.org/teams/2/light/10.png

	Value	Wage	Preferred Foot	International Reputation	Weak Foot \
0	110500000.0	565000.0	Left	5.0	4.0
1	77000000.0	405000.0	Right	5.0	4.0
2	118500000.0	290000.0	Right	5.0	5.0
3	72000000.0	260000.0	Right	4.0	3.0
4	102000000.0	355000.0	Right	4.0	5.0

	Skill Moves	Work Rate	Body Type	Position	Jersey Number	Joined \
0	4.0	Medium/ Medium	Messi	RF	10.0	2004.0
1	5.0	High/ Low	C. Ronaldo	ST	7.0	2018.0
2	5.0	High/ Medium	Neymar	LW	10.0	2017.0
3	1.0	Medium/ Medium	Lean	GK	1.0	2011.0
4	4.0	High/ High	Normal	RCM	7.0	2015.0

	Loaned From	Contract Valid Until	Height	Weight	Crossing	Finishing \
0	NaN	2021-01-01	5.70	159.0	84.0	95.0
1	NaN	2022-01-01	6.20	183.0	84.0	94.0
2	NaN	2022-01-01	5.90	150.0	79.0	87.0
3	NaN	2020-01-01	6.40	168.0	17.0	13.0
4	NaN	2023-01-01	5.11	154.0	93.0	82.0

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy \
0	70.0	90.0	86.0	97.0	93.0	94.0
1	89.0	81.0	87.0	88.0	81.0	76.0
2	62.0	84.0	84.0	96.0	88.0	87.0
3	21.0	50.0	13.0	18.0	21.0	19.0
4	55.0	92.0	82.0	86.0	85.0	83.0

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions \
0	87.0	96.0	91.0	86.0	91.0	95.0
1	77.0	94.0	89.0	91.0	87.0	96.0
2	78.0	95.0	94.0	90.0	96.0	94.0
3	51.0	42.0	57.0	58.0	60.0	90.0
4	91.0	91.0	78.0	76.0	79.0	91.0

	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression	\
0	95.0	85.0	68.0	72.0	59.0	94.0	48.0	
1	70.0	95.0	95.0	88.0	79.0	93.0	63.0	
2	84.0	80.0	61.0	81.0	49.0	82.0	56.0	
3	43.0	31.0	67.0	43.0	64.0	12.0	38.0	
4	77.0	91.0	63.0	90.0	75.0	91.0	76.0	

	Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
0	22.0	94.0	94.0	75.0	96.0	33.0	
1	29.0	95.0	82.0	85.0	95.0	28.0	
2	36.0	89.0	87.0	81.0	94.0	27.0	
3	30.0	12.0	68.0	40.0	68.0	15.0	
4	61.0	87.0	94.0	79.0	88.0	68.0	

	StandingTackle	SlidingTackle	GKDividing	GKHandling	GKKicking	\
0	28.0	26.0	6.0	11.0	15.0	
1	31.0	23.0	7.0	11.0	15.0	
2	24.0	33.0	9.0	9.0	15.0	
3	21.0	13.0	90.0	85.0	87.0	
4	58.0	51.0	15.0	13.0	5.0	

	GKPositioning	GKReflexes	Release Clause
0	14.0	8.0	€226.5M
1	14.0	11.0	€127.1M
2	15.0	11.0	€228.1M
3	88.0	94.0	€138.6M
4	10.0	13.0	€196.4M

```
[23]: c=[]
for i in fifa['Release Clause']:
    if isinstance(i,float)==False:
        if i[-1]=='M':
            m = float(i[1:-1])
            f = m*1000000
            c.append(f)
        elif i[-1]=='K':
            k = float(i[1:-1])
            j = k*1000
            c.append(j)
        else:
            j=float(i[1:])
            c.append(j)
    else:
        c.append(i)
m=np.array(c)
fifa['Release Clause']=m
```

```
[24]: fifa.head()
```

```
[24]:
```

	ID	Name	Age	\
0	158023	L. Messi	31	
1	20801	Cristiano Ronaldo	33	
2	190871	Neymar Jr	26	
3	193080	De Gea	27	
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	Club Logo	\
0	FC Barcelona	https://cdn.sofifa.org/teams/2/light/241.png	
1	Juventus	https://cdn.sofifa.org/teams/2/light/45.png	
2	Paris Saint-Germain	https://cdn.sofifa.org/teams/2/light/73.png	
3	Manchester United	https://cdn.sofifa.org/teams/2/light/11.png	
4	Manchester City	https://cdn.sofifa.org/teams/2/light/10.png	

	Value	Wage	Preferred Foot	International Reputation	Weak Foot	\
0	110500000.0	565000.0	Left	5.0	4.0	
1	77000000.0	405000.0	Right	5.0	4.0	
2	118500000.0	290000.0	Right	5.0	5.0	
3	72000000.0	260000.0	Right	4.0	3.0	
4	102000000.0	355000.0	Right	4.0	5.0	

	Skill Moves	Work Rate	Body Type	Position	Jersey Number	Joined	\
0	4.0	Medium/ Medium	Messi	RF	10.0	2004.0	
1	5.0	High/ Low	C. Ronaldo	ST	7.0	2018.0	
2	5.0	High/ Medium	Neymar	LW	10.0	2017.0	
3	1.0	Medium/ Medium	Lean	GK	1.0	2011.0	
4	4.0	High/ High	Normal	RCM	7.0	2015.0	

	Loaned From	Contract Valid Until	Height	Weight	Crossing	Finishing	\
0	NaN	2021-01-01	5.70	159.0	84.0	95.0	
1	NaN	2022-01-01	6.20	183.0	84.0	94.0	

2	NaN	2022-01-01	5.90	150.0	79.0	87.0
3	NaN	2020-01-01	6.40	168.0	17.0	13.0
4	NaN	2023-01-01	5.11	154.0	93.0	82.0

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy	\
0	70.0	90.0	86.0	97.0	93.0	94.0	
1	89.0	81.0	87.0	88.0	81.0	76.0	
2	62.0	84.0	84.0	96.0	88.0	87.0	
3	21.0	50.0	13.0	18.0	21.0	19.0	
4	55.0	92.0	82.0	86.0	85.0	83.0	

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions	\
0	87.0	96.0	91.0	86.0	91.0	95.0	
1	77.0	94.0	89.0	91.0	87.0	96.0	
2	78.0	95.0	94.0	90.0	96.0	94.0	
3	51.0	42.0	57.0	58.0	60.0	90.0	
4	91.0	91.0	78.0	76.0	79.0	91.0	

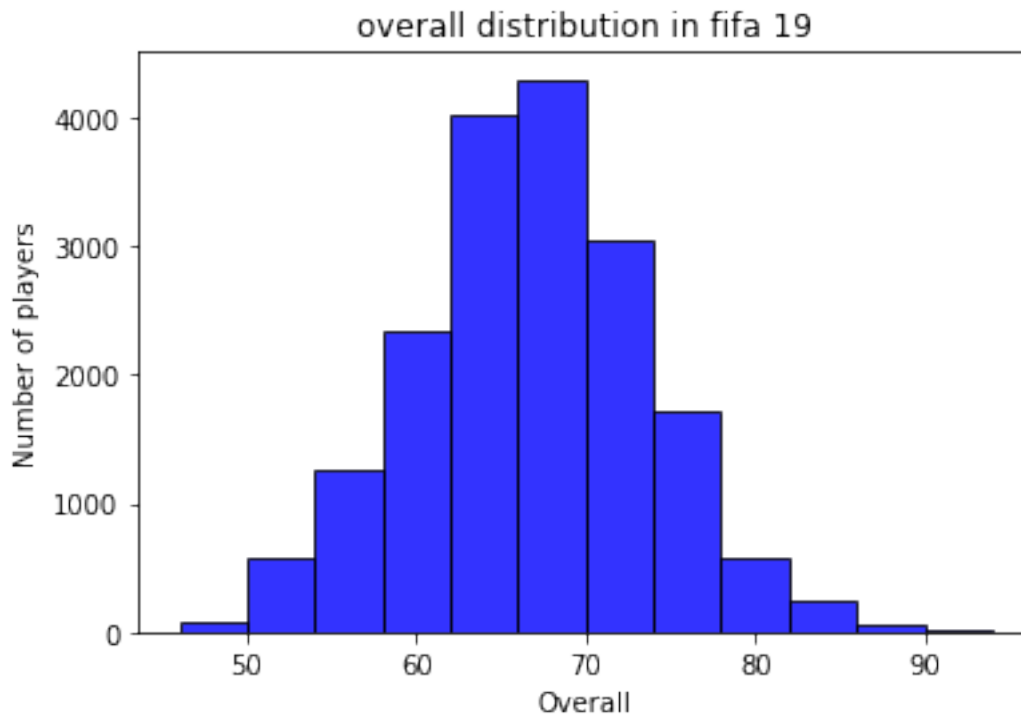
	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression	\
0	95.0	85.0	68.0	72.0	59.0	94.0	48.0	
1	70.0	95.0	95.0	88.0	79.0	93.0	63.0	
2	84.0	80.0	61.0	81.0	49.0	82.0	56.0	
3	43.0	31.0	67.0	43.0	64.0	12.0	38.0	
4	77.0	91.0	63.0	90.0	75.0	91.0	76.0	

	Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
0	22.0	94.0	94.0	75.0	96.0	33.0	
1	29.0	95.0	82.0	85.0	95.0	28.0	
2	36.0	89.0	87.0	81.0	94.0	27.0	
3	30.0	12.0	68.0	40.0	68.0	15.0	
4	61.0	87.0	94.0	79.0	88.0	68.0	

	StandingTackle	SlidingTackle	GKDividing	GKHandling	GKKicking	\
0	28.0	26.0	6.0	11.0	15.0	
1	31.0	23.0	7.0	11.0	15.0	
2	24.0	33.0	9.0	9.0	15.0	
3	21.0	13.0	90.0	85.0	87.0	
4	58.0	51.0	15.0	13.0	5.0	

	GKPositioning	GKReflexes	Release Clause
0	14.0	8.0	226500000.0
1	14.0	11.0	127100000.0
2	15.0	11.0	228100000.0
3	88.0	94.0	138600000.0
4	10.0	13.0	196400000.0

```
[25]: plt.hist(fifa.Overall, bins=12, ec='black', alpha=0.8, color='blue')
plt.xlabel('Overall')
plt.ylabel('Number of players')
plt.title('overall distribution in fifa 19')
plt.show()
```



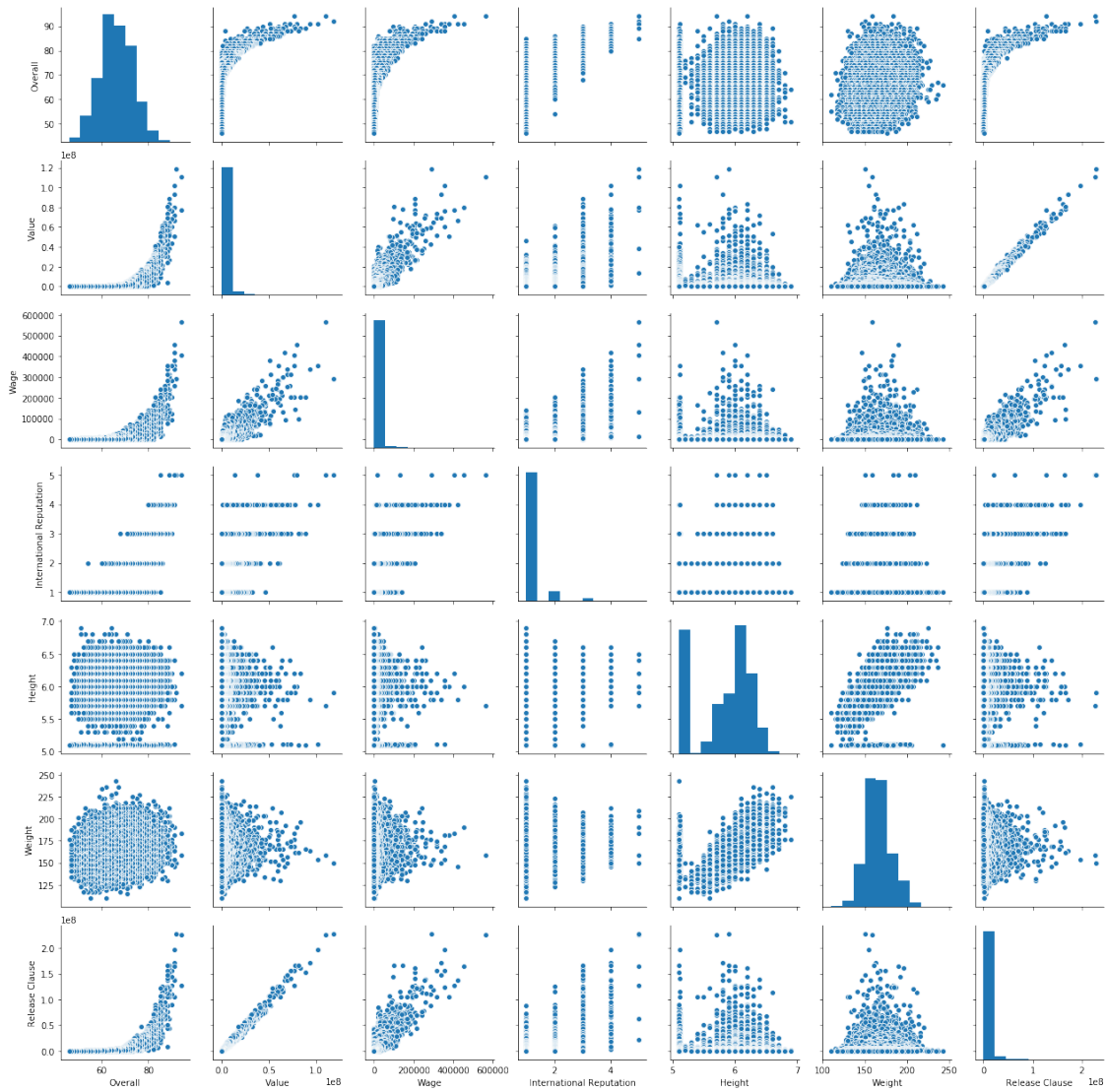
```
[26]: x = fifa[['Overall', 'Value', 'Wage', 'International Reputation', 'Height', 'Weight', 'Release Clause']]
```

```
[27]: x.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 18207 entries, 0 to 18206
Data columns (total 7 columns):
Overall                18207 non-null int64
Value                  18207 non-null float64
Wage                   18207 non-null float64
International Reputation 18159 non-null float64
Height                 18159 non-null float64
Weight                 18159 non-null float64
Release Clause         16643 non-null float64
dtypes: float64(6), int64(1)
memory usage: 995.8 KB
```

```
[28]: sns.pairplot(x)
```

```
[28]: <seaborn.axisgrid.PairGrid at 0x2179bbb8d88>
```



```
[ ]: x.info()
```

```
[97]: fifa['Release Clause'].dtype
```

```
[97]: dtype('O')
```

```
[98]: fifa['International Reputation'].dtype
```

```
[98]: dtype('O')
```



```
[99]: fifa['Overall'].dtype
```

```
[99]: dtype('int64')
```

```
[100]: fifa['Value'].dtype
```

```
[100]: dtype('float64')
```

```
[101]: fifa['Wage'].dtype
```

```
[101]: dtype('float64')
```

```
[102]: fifa['Height'].dtype
```

```
[102]: dtype('O')
```

```
[103]: fifa['Weight'].dtype
```

```
[103]: dtype('O')
```

```
[300]: op=['2020']  
a=fifa[fifa['Contract Valid Until'].isin(op)]  
b=a.nlargest(20,['Overall'])  
b
```

```
[300]:
```

	ID	Name	Age	\
3	193080	De Gea	27	
5	183277	E. Hazard	27	
6	177003	L. Modrić	32	
8	155862	Sergio Ramos	32	
13	168542	David Silva	32	
21	179813	E. Cavani	31	
24	138956	G. Chiellini	33	
31	190460	C. Eriksen	26	
39	164240	Thiago Silva	33	
46	193041	K. Navas	31	
49	189332	Jordi Alba	29	
50	175943	D. Mertens	31	
52	171877	M. Hamšík	30	
64	191043	Alex Sandro	27	
71	184087	T. Alderweireld	29	
73	177509	M. Benatia	31	
75	135507	Fernandinho	33	
80	216594	N. Fekir	24	
90	189513	Parejo	29	
98	180930	E. Džeko	32	

	Photo	Nationality \
3	https://cdn.sofifa.org/players/4/19/193080.png	Spain
5	https://cdn.sofifa.org/players/4/19/183277.png	Belgium
6	https://cdn.sofifa.org/players/4/19/177003.png	Croatia
8	https://cdn.sofifa.org/players/4/19/155862.png	Spain
13	https://cdn.sofifa.org/players/4/19/168542.png	Spain
21	https://cdn.sofifa.org/players/4/19/179813.png	Uruguay
24	https://cdn.sofifa.org/players/4/19/138956.png	Italy
31	https://cdn.sofifa.org/players/4/19/190460.png	Denmark
39	https://cdn.sofifa.org/players/4/19/164240.png	Brazil
46	https://cdn.sofifa.org/players/4/19/193041.png	Costa Rica
49	https://cdn.sofifa.org/players/4/19/189332.png	Spain
50	https://cdn.sofifa.org/players/4/19/175943.png	Belgium
52	https://cdn.sofifa.org/players/4/19/171877.png	Slovakia
64	https://cdn.sofifa.org/players/4/19/191043.png	Brazil
71	https://cdn.sofifa.org/players/4/19/184087.png	Belgium
73	https://cdn.sofifa.org/players/4/19/177509.png	Morocco
75	https://cdn.sofifa.org/players/4/19/135507.png	Brazil
80	https://cdn.sofifa.org/players/4/19/216594.png	France
90	https://cdn.sofifa.org/players/4/19/189513.png	Spain
98	https://cdn.sofifa.org/players/4/19/180930.png	Bosnia Herzegovina

	Flag	Overall	Potential \
3	https://cdn.sofifa.org/flags/45.png	91	93
5	https://cdn.sofifa.org/flags/7.png	91	91
6	https://cdn.sofifa.org/flags/10.png	91	91
8	https://cdn.sofifa.org/flags/45.png	91	91
13	https://cdn.sofifa.org/flags/45.png	90	90
21	https://cdn.sofifa.org/flags/60.png	89	89
24	https://cdn.sofifa.org/flags/27.png	89	89
31	https://cdn.sofifa.org/flags/13.png	88	91
39	https://cdn.sofifa.org/flags/54.png	88	88
46	https://cdn.sofifa.org/flags/72.png	87	87
49	https://cdn.sofifa.org/flags/45.png	87	87
50	https://cdn.sofifa.org/flags/7.png	87	87
52	https://cdn.sofifa.org/flags/43.png	87	87
64	https://cdn.sofifa.org/flags/54.png	86	86
71	https://cdn.sofifa.org/flags/7.png	86	87
73	https://cdn.sofifa.org/flags/129.png	86	86
75	https://cdn.sofifa.org/flags/54.png	86	86
80	https://cdn.sofifa.org/flags/18.png	85	89
90	https://cdn.sofifa.org/flags/45.png	85	85
98	https://cdn.sofifa.org/flags/8.png	85	85

	Club	Club Logo	Value \
3	Manchester United	https://cdn.sofifa.org/teams/2/light/11.png	72
5	Chelsea	https://cdn.sofifa.org/teams/2/light/5.png	93

6	Real Madrid	https://cdn.sofifa.org/teams/2/light/243.png	67
8	Real Madrid	https://cdn.sofifa.org/teams/2/light/243.png	51
13	Manchester City	https://cdn.sofifa.org/teams/2/light/10.png	60
21	Paris Saint-Germain	https://cdn.sofifa.org/teams/2/light/73.png	60
24	Juventus	https://cdn.sofifa.org/teams/2/light/45.png	27
31	Tottenham Hotspur	https://cdn.sofifa.org/teams/2/light/18.png	73.5
39	Paris Saint-Germain	https://cdn.sofifa.org/teams/2/light/73.png	24
46	Real Madrid	https://cdn.sofifa.org/teams/2/light/243.png	30.5
49	FC Barcelona	https://cdn.sofifa.org/teams/2/light/241.png	38
50	Napoli	https://cdn.sofifa.org/teams/2/light/48.png	45
52	Napoli	https://cdn.sofifa.org/teams/2/light/48.png	46.5
64	Juventus	https://cdn.sofifa.org/teams/2/light/45.png	36.5
71	Tottenham Hotspur	https://cdn.sofifa.org/teams/2/light/18.png	39
73	Juventus	https://cdn.sofifa.org/teams/2/light/45.png	30
75	Manchester City	https://cdn.sofifa.org/teams/2/light/10.png	18
80	Olympique Lyonnais	https://cdn.sofifa.org/teams/2/light/66.png	50
90	Valencia CF	https://cdn.sofifa.org/teams/2/light/461.png	37
98	Roma	https://cdn.sofifa.org/teams/2/light/52.png	30.5

	Wage	Preferred Foot	International Reputation	Weak Foot	Skill Moves	\
3	260	Right	4.0	3.0	1.0	
5	340	Right	4.0	4.0	4.0	
6	420	Right	4.0	4.0	4.0	
8	380	Right	4.0	3.0	3.0	
13	285	Left	4.0	2.0	4.0	
21	200	Right	4.0	4.0	3.0	
24	215	Left	4.0	3.0	2.0	
31	205	Right	3.0	5.0	4.0	
39	165	Right	4.0	3.0	2.0	
46	195	Right	3.0	3.0	1.0	
49	250	Left	3.0	3.0	3.0	
50	135	Right	3.0	4.0	4.0	
52	125	Right	3.0	5.0	3.0	
64	160	Left	3.0	3.0	3.0	
71	150	Right	3.0	3.0	2.0	
73	160	Right	3.0	3.0	2.0	
75	185	Right	3.0	4.0	3.0	
80	92	Left	3.0	3.0	4.0	
90	66	Right	2.0	4.0	3.0	
98	115	Right	3.0	5.0	2.0	

	Work Rate	Body Type	Position	Jersey Number	Joined	Loaned From	\
3	Medium/ Medium	Lean	GK	1.0	2011	NaN	
5	High/ Medium	Normal	LF	10.0	2012	NaN	
6	High/ High	Lean	RCM	10.0	2012	NaN	
8	High/ Medium	Normal	RCB	15.0	2005	NaN	
13	High/ Medium	Normal	LCM	21.0	2010	NaN	

21	High/ High	Lean	LS	21.0	2013	NaN
24	Medium/ High	Normal	LCB	3.0	2005	NaN
31	High/ Medium	Lean	CAM	10.0	2013	NaN
39	Medium/ High	Normal	RCB	2.0	2012	NaN
46	Medium/ Medium	Normal	GK	1.0	2014	NaN
49	High/ Medium	Normal	LB	18.0	2012	NaN
50	High/ Low	Normal	RF	14.0	2013	NaN
52	High/ Medium	Normal	LCM	17.0	2007	NaN
64	High/ High	Normal	LB	12.0	2015	NaN
71	Medium/ Medium	Normal	RCB	2.0	2015	NaN
73	Medium/ High	Normal	CB	4.0	2014	NaN
75	Medium/ High	Lean	CDM	25.0	2013	NaN
80	High/ Medium	Stocky	CAM	18.0	2013	NaN
90	Medium/ Low	Lean	RCM	10.0	2011	NaN
98	Medium/ Medium	Lean	ST	9.0	2015	NaN

	Contract	Valid Until	Height	Weight	Crossing	Finishing	HeadingAccuracy	\
3		2020-01-01	193.04	168	17.0	13.0	21.0	
5		2020-01-01	172.72	163	81.0	84.0	61.0	
6		2020-01-01	172.72	146	86.0	72.0	55.0	
8		2020-01-01	182.88	181	66.0	60.0	91.0	
13		2020-01-01	172.72	148	84.0	76.0	54.0	
21		2020-01-01	185.42	170	70.0	89.0	89.0	
24		2020-01-01	187.96	187	58.0	33.0	83.0	
31		2020-01-01	180.34	168	88.0	80.0	52.0	
39		2020-01-01	182.88	181	60.0	38.0	81.0	
46		2020-01-01	185.42	176	11.0	15.0	11.0	
49		2020-01-01	170.18	150	87.0	73.0	70.0	
50		2020-01-01	170.18	134	77.0	86.0	35.0	
52		2020-01-01	182.88	174	78.0	79.0	74.0	
64		2020-01-01	180.34	176	84.0	55.0	76.0	
71		2020-01-01	185.42	179	64.0	45.0	82.0	
73		2020-01-01	187.96	207	45.0	47.0	83.0	
75		2020-01-01	177.80	148	68.0	69.0	63.0	
80		2020-01-01	172.72	165	83.0	82.0	49.0	
90		2020-01-01	182.88	163	84.0	79.0	61.0	
98		2020-01-01	193.04	185	63.0	89.0	84.0	

	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy	LongPassing	\
3	50.0	13.0	18.0	21.0	19.0	51.0	
5	89.0	80.0	95.0	83.0	79.0	83.0	
6	93.0	76.0	90.0	85.0	78.0	88.0	
8	78.0	66.0	63.0	74.0	72.0	77.0	
13	93.0	82.0	89.0	82.0	77.0	87.0	
21	78.0	90.0	80.0	77.0	76.0	52.0	
24	59.0	45.0	58.0	60.0	31.0	59.0	
31	91.0	77.0	84.0	86.0	87.0	88.0	

39	80.0	63.0	62.0	61.0	64.0	80.0
46	30.0	11.0	16.0	11.0	15.0	37.0
49	84.0	60.0	80.0	80.0	63.0	74.0
50	82.0	70.0	91.0	82.0	79.0	74.0
52	88.0	79.0	86.0	80.0	72.0	83.0
64	81.0	68.0	80.0	78.0	59.0	71.0
71	79.0	38.0	62.0	63.0	69.0	85.0
73	65.0	44.0	64.0	34.0	27.0	65.0
75	85.0	74.0	77.0	70.0	72.0	81.0
80	83.0	77.0	90.0	81.0	79.0	75.0
90	90.0	72.0	78.0	89.0	90.0	87.0
98	77.0	77.0	76.0	65.0	54.0	72.0

	BallControl	Acceleration	SprintSpeed	Agility	Reactions	Balance \
3	42.0	57.0	58.0	60.0	90.0	43.0
5	94.0	94.0	88.0	95.0	90.0	94.0
6	93.0	80.0	72.0	93.0	90.0	94.0
8	84.0	76.0	75.0	78.0	85.0	66.0
13	94.0	70.0	64.0	92.0	90.0	90.0
21	82.0	75.0	76.0	77.0	91.0	59.0
24	57.0	63.0	75.0	54.0	82.0	55.0
31	91.0	75.0	73.0	79.0	88.0	81.0
39	80.0	70.0	72.0	68.0	82.0	68.0
46	19.0	54.0	53.0	60.0	84.0	61.0
49	84.0	93.0	93.0	90.0	83.0	85.0
50	89.0	93.0	85.0	94.0	88.0	92.0
52	87.0	69.0	68.0	76.0	88.0	66.0
64	81.0	83.0	86.0	79.0	84.0	78.0
71	74.0	61.0	66.0	60.0	86.0	50.0
73	64.0	65.0	75.0	59.0	82.0	53.0
75	82.0	68.0	67.0	72.0	86.0	78.0
80	89.0	79.0	79.0	90.0	80.0	91.0
90	84.0	51.0	43.0	66.0	78.0	72.0
98	84.0	65.0	66.0	57.0	83.0	36.0

	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression \
3	31.0	67.0	43.0	64.0	12.0	38.0
5	82.0	56.0	83.0	66.0	80.0	54.0
6	79.0	68.0	89.0	58.0	82.0	62.0
8	79.0	93.0	84.0	83.0	59.0	88.0
13	72.0	64.0	78.0	52.0	75.0	57.0
21	87.0	88.0	92.0	78.0	79.0	84.0
24	78.0	89.0	65.0	89.0	49.0	92.0
31	84.0	50.0	92.0	58.0	89.0	46.0
39	71.0	90.0	74.0	82.0	68.0	76.0
46	21.0	74.0	39.0	75.0	13.0	32.0
49	64.0	81.0	91.0	61.0	66.0	75.0

50	80.0	60.0	75.0	42.0	81.0	59.0
52	82.0	71.0	84.0	67.0	83.0	56.0
64	80.0	79.0	92.0	79.0	72.0	82.0
71	78.0	84.0	74.0	79.0	65.0	80.0
73	66.0	85.0	69.0	91.0	24.0	86.0
75	83.0	76.0	79.0	76.0	78.0	87.0
80	84.0	69.0	80.0	82.0	82.0	73.0
90	78.0	51.0	78.0	72.0	82.0	58.0
98	86.0	66.0	76.0	80.0	79.0	51.0

	Interceptions	Positioning	Vision	Penalties	Composure	Marking \
3	30.0	12.0	68.0	40.0	68.0	15.0
5	41.0	87.0	89.0	86.0	91.0	34.0
6	83.0	79.0	92.0	82.0	84.0	60.0
8	90.0	60.0	63.0	75.0	82.0	87.0
13	50.0	89.0	92.0	75.0	93.0	59.0
21	48.0	93.0	77.0	85.0	82.0	52.0
24	88.0	28.0	50.0	50.0	84.0	93.0
31	56.0	83.0	91.0	67.0	88.0	59.0
39	89.0	59.0	72.0	60.0	81.0	88.0
46	20.0	16.0	68.0	25.0	67.0	28.0
49	84.0	79.0	70.0	59.0	79.0	72.0
50	36.0	87.0	83.0	79.0	81.0	25.0
52	72.0	88.0	86.0	70.0	84.0	75.0
64	82.0	70.0	70.0	60.0	82.0	81.0
71	87.0	58.0	67.0	58.0	81.0	90.0
73	86.0	38.0	47.0	41.0	82.0	89.0
75	88.0	70.0	75.0	61.0	79.0	85.0
80	28.0	81.0	81.0	81.0	89.0	31.0
90	81.0	81.0	86.0	83.0	78.0	69.0
98	50.0	89.0	74.0	67.0	83.0	58.0

	StandingTackle	SlidingTackle	GK Diving	GK Handling	GK Kicking \
3	21.0	13.0	90.0	85.0	87.0
5	27.0	22.0	11.0	12.0	6.0
6	76.0	73.0	13.0	9.0	7.0
8	92.0	91.0	11.0	8.0	9.0
13	53.0	29.0	6.0	15.0	7.0
21	45.0	39.0	12.0	5.0	13.0
24	93.0	90.0	3.0	3.0	2.0
31	57.0	22.0	9.0	14.0	7.0
39	89.0	85.0	9.0	12.0	5.0
46	14.0	14.0	90.0	81.0	75.0
49	84.0	85.0	13.0	15.0	13.0
50	40.0	40.0	7.0	10.0	8.0
52	73.0	62.0	8.0	6.0	4.0
64	84.0	84.0	7.0	7.0	9.0

71	91.0	86.0	16.0	6.0	14.0
73	87.0	85.0	7.0	4.0	8.0
75	85.0	80.0	12.0	11.0	5.0
80	37.0	25.0	15.0	9.0	8.0
90	68.0	60.0	5.0	9.0	12.0
98	28.0	16.0	9.0	11.0	13.0

	GKPositioning	GKReflexes	Release	Clause
3	88.0	94.0		138.6
5	8.0	8.0		172.1
6	14.0	9.0		137.4
8	7.0	11.0		104.6
13	6.0	12.0		111.0
21	13.0	10.0		111.0
24	4.0	3.0		44.6
31	7.0	6.0		141.5
39	9.0	10.0		44.4
46	82.0	90.0		62.5
49	6.0	13.0		77.9
50	10.0	4.0		76.5
52	14.0	14.0		79.1
64	12.0	5.0		60.2
71	16.0	14.0		75.1
73	7.0	11.0		49.5
75	13.0	7.0		33.3
80	14.0	15.0		98.8
90	14.0	8.0		77.7
98	15.0	15.0		51.9

```
[34]: b.Wage.mean()
      # the average wage of the above set of players is 205.15
```

```
[34]: 205.15
```

```
[36]: b.Age.mean()
      # the average age is 29
```

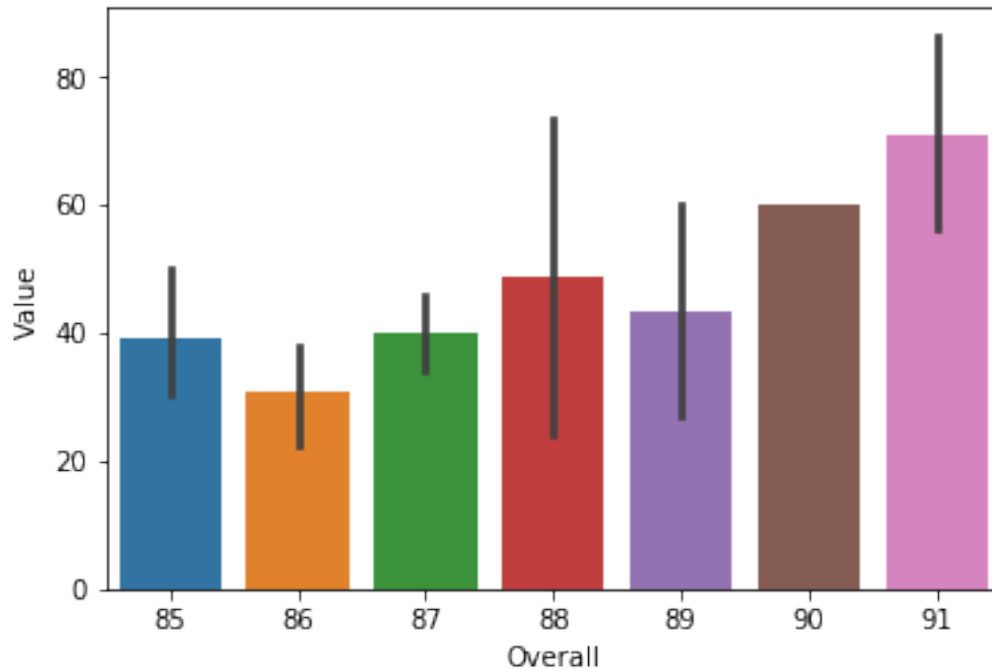
```
[36]: 29.95
```

```
[42]: b['Overall'].corr(b['Value'])
```

```
[42]: 0.6667878068079505
```

```
[43]: sns.barplot(data=b, x='Overall', y='Value')
```

```
[43]: <matplotlib.axes._subplots.AxesSubplot at 0x2471ab1b550>
```



- 1 we cannot say that there exists strong positive correlation but we see that as the values are getting increased the overall rating is getting increased so there is positive correlation between overall ratings and values

```
[52]: fifa.iloc[fifa.groupby(fifa['Position'])['Overall'].idxmax()]
```

```
[52]:
```

	ID	Name	Age	\
17	194765	A. Griezmann	27	
12	182493	D. Godín	32	
20	189511	Sergio Busquets	29	
271	198706	Luis Alberto	25	
67	189509	Thiago	27	
3	193080	De Gea	27	
28	198710	J. Rodríguez	26	
35	176676	Marcelo	30	
24	138956	G. Chiellini	33	
11	182521	T. Kroos	28	
14	215914	N. Kanté	27	
5	183277	E. Hazard	27	
33	188567	P. Aubameyang	29	
21	179813	E. Cavani	31	

2	190871	Neymar Jr	26
474	200536	N. Schulz	25
129	193082	J. Cuadrado	30
69	184432	Azpilicueta	28
8	155862	Sergio Ramos	32
4	192985	K. De Bruyne	27
45	195864	P. Pogba	25
0	158023	L. Messi	31
25	231747	K. Mbappé	19
7	176580	L. Suárez	31
56	218667	Bernardo Silva	23
450	207862	M. Ginter	24
1	20801	Cristiano Ronaldo	33

		Photo	Nationality	\
17	https://cdn.sofifa.org/players/4/19/194765.png		France	
12	https://cdn.sofifa.org/players/4/19/182493.png		Uruguay	
20	https://cdn.sofifa.org/players/4/19/189511.png		Spain	
271	https://cdn.sofifa.org/players/4/19/198706.png		Spain	
67	https://cdn.sofifa.org/players/4/19/189509.png		Spain	
3	https://cdn.sofifa.org/players/4/19/193080.png		Spain	
28	https://cdn.sofifa.org/players/4/19/198710.png		Colombia	
35	https://cdn.sofifa.org/players/4/19/176676.png		Brazil	
24	https://cdn.sofifa.org/players/4/19/138956.png		Italy	
11	https://cdn.sofifa.org/players/4/19/182521.png		Germany	
14	https://cdn.sofifa.org/players/4/19/215914.png		France	
5	https://cdn.sofifa.org/players/4/19/183277.png		Belgium	
33	https://cdn.sofifa.org/players/4/19/188567.png		Gabon	
21	https://cdn.sofifa.org/players/4/19/179813.png		Uruguay	
2	https://cdn.sofifa.org/players/4/19/190871.png		Brazil	
474	https://cdn.sofifa.org/players/4/19/200536.png		Germany	
129	https://cdn.sofifa.org/players/4/19/193082.png		Colombia	
69	https://cdn.sofifa.org/players/4/19/184432.png		Spain	
8	https://cdn.sofifa.org/players/4/19/155862.png		Spain	
4	https://cdn.sofifa.org/players/4/19/192985.png		Belgium	
45	https://cdn.sofifa.org/players/4/19/195864.png		France	
0	https://cdn.sofifa.org/players/4/19/158023.png		Argentina	
25	https://cdn.sofifa.org/players/4/19/231747.png		France	
7	https://cdn.sofifa.org/players/4/19/176580.png		Uruguay	
56	https://cdn.sofifa.org/players/4/19/218667.png		Portugal	
450	https://cdn.sofifa.org/players/4/19/207862.png		Germany	
1	https://cdn.sofifa.org/players/4/19/20801.png		Portugal	

		Flag	Overall	Potential	\
17	https://cdn.sofifa.org/flags/18.png		89	90	
12	https://cdn.sofifa.org/flags/60.png		90	90	
20	https://cdn.sofifa.org/flags/45.png		89	89	

271	https://cdn.sofifa.org/flags/45.png	82	85
67	https://cdn.sofifa.org/flags/45.png	86	86
3	https://cdn.sofifa.org/flags/45.png	91	93
28	https://cdn.sofifa.org/flags/56.png	88	89
35	https://cdn.sofifa.org/flags/54.png	88	88
24	https://cdn.sofifa.org/flags/27.png	89	89
11	https://cdn.sofifa.org/flags/21.png	90	90
14	https://cdn.sofifa.org/flags/18.png	89	90
5	https://cdn.sofifa.org/flags/7.png	91	91
33	https://cdn.sofifa.org/flags/115.png	88	88
21	https://cdn.sofifa.org/flags/60.png	89	89
2	https://cdn.sofifa.org/flags/54.png	92	93
474	https://cdn.sofifa.org/flags/21.png	80	81
129	https://cdn.sofifa.org/flags/56.png	84	84
69	https://cdn.sofifa.org/flags/45.png	86	86
8	https://cdn.sofifa.org/flags/45.png	91	91
4	https://cdn.sofifa.org/flags/7.png	91	92
45	https://cdn.sofifa.org/flags/18.png	87	91
0	https://cdn.sofifa.org/flags/52.png	94	94
25	https://cdn.sofifa.org/flags/18.png	88	95
7	https://cdn.sofifa.org/flags/60.png	91	91
56	https://cdn.sofifa.org/flags/38.png	86	91
450	https://cdn.sofifa.org/flags/21.png	80	82
1	https://cdn.sofifa.org/flags/38.png	94	94

	Club	Club Logo \
17	Atlético Madrid	https://cdn.sofifa.org/teams/2/light/240.png
12	Atlético Madrid	https://cdn.sofifa.org/teams/2/light/240.png
20	FC Barcelona	https://cdn.sofifa.org/teams/2/light/241.png
271	Lazio	https://cdn.sofifa.org/teams/2/light/46.png
67	FC Bayern München	https://cdn.sofifa.org/teams/2/light/21.png
3	Manchester United	https://cdn.sofifa.org/teams/2/light/11.png
28	FC Bayern München	https://cdn.sofifa.org/teams/2/light/21.png
35	Real Madrid	https://cdn.sofifa.org/teams/2/light/243.png
24	Juventus	https://cdn.sofifa.org/teams/2/light/45.png
11	Real Madrid	https://cdn.sofifa.org/teams/2/light/243.png
14	Chelsea	https://cdn.sofifa.org/teams/2/light/5.png
5	Chelsea	https://cdn.sofifa.org/teams/2/light/5.png
33	Arsenal	https://cdn.sofifa.org/teams/2/light/1.png
21	Paris Saint-Germain	https://cdn.sofifa.org/teams/2/light/73.png
2	Paris Saint-Germain	https://cdn.sofifa.org/teams/2/light/73.png
474	TSG 1899 Hoffenheim	https://cdn.sofifa.org/teams/2/light/10029.png
129	Juventus	https://cdn.sofifa.org/teams/2/light/45.png
69	Chelsea	https://cdn.sofifa.org/teams/2/light/5.png
8	Real Madrid	https://cdn.sofifa.org/teams/2/light/243.png
4	Manchester City	https://cdn.sofifa.org/teams/2/light/10.png
45	Manchester United	https://cdn.sofifa.org/teams/2/light/11.png

0	FC Barcelona	https://cdn.sofifa.org/teams/2/light/241.png
25	Paris Saint-Germain	https://cdn.sofifa.org/teams/2/light/73.png
7	FC Barcelona	https://cdn.sofifa.org/teams/2/light/241.png
56	Manchester City	https://cdn.sofifa.org/teams/2/light/10.png
450	Borussia Mönchengladbach	https://cdn.sofifa.org/teams/2/light/23.png
1	Juventus	https://cdn.sofifa.org/teams/2/light/45.png

	Value	Wage	Preferred Foot	International Reputation	Weak Foot	\
17	78.0	145.0	Left	4	3.0	
12	44.0	125.0	Right	3	3.0	
20	51.5	315.0	Right	4	3.0	
271	28.5	67.0	Right	2	3.0	
67	45.5	130.0	Right	3	3.0	
3	72.0	260.0	Right	4	3.0	
28	69.5	315.0	Left	4	3.0	
35	43.0	285.0	Left	4	4.0	
24	27.0	215.0	Left	4	3.0	
11	76.5	355.0	Right	4	5.0	
14	63.0	225.0	Right	3	3.0	
5	93.0	340.0	Right	4	4.0	
33	59.0	265.0	Right	3	4.0	
21	60.0	200.0	Right	4	4.0	
2	118.5	290.0	Right	5	5.0	
474	14.5	37.0	Left	1	2.0	
129	29.5	150.0	Right	3	3.0	
69	35.0	175.0	Right	3	3.0	
8	51.0	380.0	Right	4	3.0	
4	102.0	355.0	Right	4	5.0	
45	64.0	210.0	Right	4	4.0	
0	110.5	565.0	Left	5	4.0	
25	81.0	100.0	Right	3	4.0	
7	80.0	455.0	Right	5	4.0	
56	59.5	180.0	Left	2	3.0	
450	15.5	28.0	Right	2	3.0	
1	77.0	405.0	Right	5	4.0	

	Skill Moves	Work Rate	Body Type	Position	Jersey Number	Joined	\
17	4.0	High/ High	Lean	CAM	7.0	2014	
12	2.0	Medium/ High	Lean	CB	10.0	2010	
20	3.0	Medium/ Medium	Lean	CDM	5.0	2008	
271	4.0	High/ Medium	Lean	CF	10.0	2016	
67	5.0	Medium/ Medium	Normal	CM	19.0	2013	
3	1.0	Medium/ Medium	Lean	GK	1.0	2011	
28	4.0	Medium/ Medium	Normal	LAM	10.0	2018	
35	5.0	High/ Low	Normal	LB	12.0	2007	
24	2.0	Medium/ High	Normal	LCB	3.0	2005	
11	3.0	Medium/ Medium	Normal	LCM	8.0	2014	

14	2.0	Medium/ High	Lean	LDM	13.0	2016
5	4.0	High/ Medium	Normal	LF	10.0	2012
33	4.0	Medium/ Low	Lean	LM	14.0	2018
21	3.0	High/ High	Lean	LS	21.0	2013
2	5.0	High/ Medium	Neymar	LW	10.0	2017
474	3.0	High/ Medium	Normal	LWB	16.0	2017
129	5.0	High/ Medium	Lean	RAM	11.0	2015
69	2.0	Medium/ Medium	Normal	RB	14.0	2012
8	3.0	High/ Medium	Normal	RCB	15.0	2005
4	4.0	High/ High	Normal	RCM	7.0	2015
45	5.0	High/ Low	Normal	RDM	6.0	2016
0	4.0	Medium/ Medium	Messi	RF	10.0	2004
25	5.0	High/ Medium	Lean	RM	10.0	2018
7	3.0	High/ Medium	Normal	RS	9.0	2014
56	4.0	High/ Medium	Lean	RW	11.0	2017
450	2.0	Medium/ Medium	Normal	RWB	4.0	2017
1	5.0	High/ Low	C. Ronaldo	ST	7.0	2018

	Loaned From	Contract	Valid Until	Height	Weight	Crossing	Finishing \
17	NaN		2023-01-01	175.26	161	82.0	90.0
12	NaN		2019-01-01	187.96	172	55.0	42.0
20	NaN		2023-01-01	187.96	168	62.0	67.0
271	NaN		2022-01-01	182.88	163	76.0	80.0
67	NaN		2021-01-01	175.26	154	72.0	69.0
3	NaN		2020-01-01	193.04	168	17.0	13.0
28	Real Madrid		2019-06-30	180.34	172	90.0	83.0
35	NaN		2022-01-01	175.26	176	90.0	70.0
24	NaN		2020-01-01	187.96	187	58.0	33.0
11	NaN		2022-01-01	182.88	168	88.0	76.0
14	NaN		2023-01-01	167.64	159	68.0	65.0
5	NaN		2020-01-01	172.72	163	81.0	84.0
33	NaN		2021-01-01	187.96	176	77.0	88.0
21	NaN		2020-01-01	185.42	170	70.0	89.0
2	NaN		2022-01-01	175.26	150	79.0	87.0
474	NaN		2020-01-01	180.34	172	83.0	48.0
129	NaN		2020-01-01	177.80	159	80.0	67.0
69	NaN		2022-01-01	177.80	168	81.0	46.0
8	NaN		2020-01-01	182.88	181	66.0	60.0
4	NaN		2023-01-01	180.34	154	93.0	82.0
45	NaN		2021-01-01	193.04	185	80.0	73.0
0	NaN		2021-01-01	170.18	159	84.0	95.0
25	NaN		2022-01-01	177.80	161	77.0	88.0
7	NaN		2021-01-01	182.88	190	77.0	93.0
56	NaN		2022-01-01	172.72	141	85.0	75.0
450	NaN		2021-01-01	187.96	183	68.0	55.0
1	NaN		2022-01-01	187.96	183	84.0	94.0

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy	\
17	84.0	83.0	87.0	88.0	84.0	78.0	
12	92.0	79.0	47.0	53.0	49.0	51.0	
20	68.0	89.0	44.0	80.0	66.0	68.0	
271	49.0	88.0	76.0	86.0	86.0	81.0	
67	54.0	90.0	90.0	90.0	85.0	77.0	
3	21.0	50.0	13.0	18.0	21.0	19.0	
28	62.0	89.0	90.0	85.0	89.0	86.0	
35	75.0	84.0	54.0	90.0	85.0	67.0	
24	83.0	59.0	45.0	58.0	60.0	31.0	
11	54.0	92.0	82.0	81.0	86.0	84.0	
14	54.0	86.0	56.0	79.0	49.0	49.0	
5	61.0	89.0	80.0	95.0	83.0	79.0	
33	79.0	77.0	86.0	79.0	80.0	74.0	
21	89.0	78.0	90.0	80.0	77.0	76.0	
2	62.0	84.0	84.0	96.0	88.0	87.0	
474	54.0	78.0	49.0	79.0	59.0	42.0	
129	58.0	80.0	70.0	90.0	78.0	69.0	
69	76.0	81.0	51.0	69.0	68.0	58.0	
8	91.0	78.0	66.0	63.0	74.0	72.0	
4	55.0	92.0	82.0	86.0	85.0	83.0	
45	73.0	86.0	85.0	87.0	84.0	82.0	
0	70.0	90.0	86.0	97.0	93.0	94.0	
25	77.0	82.0	78.0	90.0	77.0	63.0	
7	77.0	82.0	88.0	87.0	86.0	84.0	
56	51.0	85.0	69.0	92.0	83.0	67.0	
450	85.0	75.0	53.0	62.0	44.0	42.0	
1	89.0	81.0	87.0	88.0	81.0	76.0	

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions	\
17	76.0	90.0	88.0	85.0	90.0	90.0	
12	70.0	76.0	68.0	68.0	58.0	85.0	
20	82.0	88.0	50.0	52.0	66.0	87.0	
271	87.0	88.0	77.0	72.0	79.0	83.0	
67	87.0	90.0	78.0	69.0	90.0	84.0	
3	51.0	42.0	57.0	58.0	60.0	90.0	
28	83.0	90.0	73.0	67.0	83.0	85.0	
35	76.0	92.0	83.0	82.0	86.0	88.0	
24	59.0	57.0	63.0	75.0	54.0	82.0	
11	93.0	90.0	64.0	62.0	70.0	89.0	
14	81.0	80.0	82.0	78.0	82.0	93.0	
5	83.0	94.0	94.0	88.0	95.0	90.0	
33	64.0	82.0	93.0	95.0	76.0	87.0	
21	52.0	82.0	75.0	76.0	77.0	91.0	
2	78.0	95.0	94.0	90.0	96.0	94.0	
474	70.0	78.0	88.0	86.0	76.0	78.0	
129	69.0	85.0	89.0	93.0	91.0	80.0	

69	80.0	77.0	76.0	76.0	72.0	88.0
8	77.0	84.0	76.0	75.0	78.0	85.0
4	91.0	91.0	78.0	76.0	79.0	91.0
45	90.0	90.0	71.0	79.0	74.0	81.0
0	87.0	96.0	91.0	86.0	91.0	95.0
25	73.0	91.0	96.0	96.0	92.0	87.0
7	64.0	90.0	86.0	75.0	82.0	92.0
56	79.0	91.0	84.0	74.0	90.0	82.0
450	70.0	72.0	55.0	69.0	55.0	79.0
1	77.0	94.0	89.0	91.0	87.0	96.0

	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression \
17	80.0	80.0	90.0	83.0	62.0	82.0	69.0
12	54.0	67.0	91.0	66.0	88.0	43.0	89.0
20	52.0	61.0	66.0	86.0	77.0	54.0	85.0
271	74.0	77.0	54.0	73.0	67.0	77.0	29.0
67	86.0	75.0	75.0	75.0	59.0	79.0	57.0
3	43.0	31.0	67.0	43.0	64.0	12.0	38.0
28	76.0	86.0	54.0	70.0	68.0	92.0	64.0
35	86.0	83.0	76.0	91.0	78.0	70.0	84.0
24	55.0	78.0	89.0	65.0	89.0	49.0	92.0
11	71.0	87.0	30.0	75.0	73.0	92.0	60.0
14	92.0	71.0	77.0	96.0	76.0	69.0	90.0
5	94.0	82.0	56.0	83.0	66.0	80.0	54.0
33	70.0	82.0	79.0	76.0	76.0	79.0	43.0
21	59.0	87.0	88.0	92.0	78.0	79.0	84.0
2	84.0	80.0	61.0	81.0	49.0	82.0	56.0
474	73.0	65.0	60.0	79.0	76.0	40.0	72.0
129	82.0	84.0	75.0	78.0	61.0	80.0	78.0
69	73.0	68.0	76.0	87.0	71.0	60.0	82.0
8	66.0	79.0	93.0	84.0	83.0	59.0	88.0
4	77.0	91.0	63.0	90.0	75.0	91.0	76.0
45	64.0	90.0	83.0	88.0	89.0	81.0	78.0
0	95.0	85.0	68.0	72.0	59.0	94.0	48.0
25	83.0	79.0	75.0	83.0	71.0	78.0	62.0
7	83.0	86.0	69.0	90.0	83.0	85.0	87.0
56	88.0	70.0	50.0	78.0	48.0	72.0	58.0
450	49.0	74.0	65.0	74.0	81.0	46.0	69.0
1	70.0	95.0	95.0	88.0	79.0	93.0	63.0

	Interceptions	Positioning	Vision	Penalties	Composure	Marking \
17	35.0	91.0	83.0	79.0	87.0	59.0
12	88.0	48.0	52.0	50.0	82.0	90.0
20	87.0	77.0	87.0	60.0	90.0	90.0
271	28.0	81.0	87.0	56.0	72.0	44.0
67	78.0	79.0	86.0	75.0	85.0	67.0
3	30.0	12.0	68.0	40.0	68.0	15.0

28	55.0	80.0	89.0	81.0	87.0	52.0
35	85.0	85.0	82.0	59.0	86.0	71.0
24	88.0	28.0	50.0	50.0	84.0	93.0
11	82.0	79.0	86.0	73.0	85.0	72.0
14	92.0	71.0	79.0	54.0	85.0	90.0
5	41.0	87.0	89.0	86.0	91.0	34.0
33	48.0	90.0	77.0	76.0	86.0	27.0
21	48.0	93.0	77.0	85.0	82.0	52.0
2	36.0	89.0	87.0	81.0	94.0	27.0
474	74.0	73.0	67.0	56.0	75.0	74.0
129	62.0	78.0	76.0	65.0	80.0	63.0
69	89.0	62.0	74.0	66.0	78.0	88.0
8	90.0	60.0	63.0	75.0	82.0	87.0
4	61.0	87.0	94.0	79.0	88.0	68.0
45	66.0	81.0	87.0	81.0	87.0	66.0
0	22.0	94.0	94.0	75.0	96.0	33.0
25	38.0	88.0	82.0	70.0	86.0	34.0
7	41.0	92.0	84.0	85.0	85.0	62.0
56	49.0	83.0	86.0	68.0	85.0	49.0
450	80.0	55.0	68.0	67.0	71.0	82.0
1	29.0	95.0	82.0	85.0	95.0	28.0

	StandingTackle	SlidingTackle	GKDivng	GKHandling	GKKicking	\
17	47.0	48.0	14.0	8.0	14.0	
12	89.0	89.0	6.0	8.0	15.0	
20	86.0	80.0	5.0	8.0	13.0	
271	25.0	18.0	6.0	8.0	6.0	
67	63.0	65.0	6.0	11.0	7.0	
3	21.0	13.0	90.0	85.0	87.0	
28	41.0	44.0	15.0	15.0	15.0	
35	85.0	86.0	12.0	5.0	5.0	
24	93.0	90.0	3.0	3.0	2.0	
11	79.0	69.0	10.0	11.0	13.0	
14	91.0	85.0	15.0	12.0	10.0	
5	27.0	22.0	11.0	12.0	6.0	
33	25.0	36.0	6.0	9.0	15.0	
21	45.0	39.0	12.0	5.0	13.0	
2	24.0	33.0	9.0	9.0	15.0	
474	76.0	77.0	13.0	9.0	15.0	
129	70.0	74.0	5.0	5.0	13.0	
69	90.0	86.0	13.0	9.0	10.0	
8	92.0	91.0	11.0	8.0	9.0	
4	58.0	51.0	15.0	13.0	5.0	
45	70.0	68.0	5.0	6.0	2.0	
0	28.0	26.0	6.0	11.0	15.0	
25	34.0	32.0	13.0	5.0	7.0	
7	45.0	38.0	27.0	25.0	31.0	

56	44.0	35.0	9.0	10.0	14.0
450	84.0	77.0	12.0	10.0	6.0
1	31.0	23.0	7.0	11.0	15.0

	GKPositioning	GKReflexes	Release	Clause
17	13.0	14.0		165.8
12	5.0	15.0		90.2
20	9.0	13.0		105.6
271	12.0	11.0		50.6
67	9.0	13.0		75.1
3	88.0	94.0		138.6
28	5.0	14.0		1.1
35	5.0	9.0		88.2
24	4.0	3.0		44.6
11	7.0	10.0		156.8
14	7.0	10.0		121.3
5	8.0	8.0		172.1
33	9.0	9.0		112.1
21	13.0	10.0		111
2	15.0	11.0		228.1
474	7.0	14.0		25.7
129	6.0	9.0		48.7
69	6.0	5.0		64.8
8	7.0	11.0		104.6
4	10.0	13.0		196.4
45	4.0	3.0		123.2
0	14.0	8.0		226.5
25	11.0	6.0		166.1
7	33.0	37.0		164
56	12.0	9.0		114.5
450	8.0	10.0		27.5
1	14.0	11.0		127.1

```
[53]: x=fifa.iloc[fifa.groupby(fifa['Position'])['Overall'].idxmax()]
      x.head()
```

```
[53]:      ID      Name  Age  \
17  194765  A. Griezmann  27
12  182493    D. Godin   32
20  189511 Sergio Busquets  29
271 198706  Luis Alberto  25
67  189509    Thiago    27
```

	Photo	Nationality
17	https://cdn.sofifa.org/players/4/19/194765.png	France
12	https://cdn.sofifa.org/players/4/19/182493.png	Uruguay
20	https://cdn.sofifa.org/players/4/19/189511.png	Spain

271	https://cdn.sofifa.org/players/4/19/198706.png	Spain
67	https://cdn.sofifa.org/players/4/19/189509.png	Spain

	Flag	Overall	Potential	\
17	https://cdn.sofifa.org/flags/18.png	89	90	
12	https://cdn.sofifa.org/flags/60.png	90	90	
20	https://cdn.sofifa.org/flags/45.png	89	89	
271	https://cdn.sofifa.org/flags/45.png	82	85	
67	https://cdn.sofifa.org/flags/45.png	86	86	

	Club	Club Logo	Value	\
17	Atlético Madrid	https://cdn.sofifa.org/teams/2/light/240.png	78.0	
12	Atlético Madrid	https://cdn.sofifa.org/teams/2/light/240.png	44.0	
20	FC Barcelona	https://cdn.sofifa.org/teams/2/light/241.png	51.5	
271	Lazio	https://cdn.sofifa.org/teams/2/light/46.png	28.5	
67	FC Bayern München	https://cdn.sofifa.org/teams/2/light/21.png	45.5	

	Wage	Preferred Foot	International Reputation	Weak Foot	Skill Moves	\
17	145.0	Left	4	3.0	4.0	
12	125.0	Right	3	3.0	2.0	
20	315.0	Right	4	3.0	3.0	
271	67.0	Right	2	3.0	4.0	
67	130.0	Right	3	3.0	5.0	

	Work Rate	Body Type	Position	Jersey Number	Joined	Loaned From	\
17	High/ High	Lean	CAM	7.0	2014	NaN	
12	Medium/ High	Lean	CB	10.0	2010	NaN	
20	Medium/ Medium	Lean	CDM	5.0	2008	NaN	
271	High/ Medium	Lean	CF	10.0	2016	NaN	
67	Medium/ Medium	Normal	CM	19.0	2013	NaN	

	Contract Valid Until	Height	Weight	Crossing	Finishing	\
17	2023-01-01	175.26	161	82.0	90.0	
12	2019-01-01	187.96	172	55.0	42.0	
20	2023-01-01	187.96	168	62.0	67.0	
271	2022-01-01	182.88	163	76.0	80.0	
67	2021-01-01	175.26	154	72.0	69.0	

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy	\
17	84.0	83.0	87.0	88.0	84.0	78.0	
12	92.0	79.0	47.0	53.0	49.0	51.0	
20	68.0	89.0	44.0	80.0	66.0	68.0	
271	49.0	88.0	76.0	86.0	86.0	81.0	
67	54.0	90.0	90.0	90.0	85.0	77.0	

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions	\
17	76.0	90.0	88.0	85.0	90.0	90.0	

12	70.0	76.0	68.0	68.0	58.0	85.0
20	82.0	88.0	50.0	52.0	66.0	87.0
271	87.0	88.0	77.0	72.0	79.0	83.0
67	87.0	90.0	78.0	69.0	90.0	84.0

	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression \
17	80.0	80.0	90.0	83.0	62.0	82.0	69.0
12	54.0	67.0	91.0	66.0	88.0	43.0	89.0
20	52.0	61.0	66.0	86.0	77.0	54.0	85.0
271	74.0	77.0	54.0	73.0	67.0	77.0	29.0
67	86.0	75.0	75.0	75.0	59.0	79.0	57.0

	Interceptions	Positioning	Vision	Penalties	Composure	Marking \
17	35.0	91.0	83.0	79.0	87.0	59.0
12	88.0	48.0	52.0	50.0	82.0	90.0
20	87.0	77.0	87.0	60.0	90.0	90.0
271	28.0	81.0	87.0	56.0	72.0	44.0
67	78.0	79.0	86.0	75.0	85.0	67.0

	StandingTackle	SlidingTackle	GKDividing	GKHandling	GKKicking \
17	47.0	48.0	14.0	8.0	14.0
12	89.0	89.0	6.0	8.0	15.0
20	86.0	80.0	5.0	8.0	13.0
271	25.0	18.0	6.0	8.0	6.0
67	63.0	65.0	6.0	11.0	7.0

	GKPositioning	GKReflexes	Release Clause
17	13.0	14.0	165.8
12	5.0	15.0	90.2
20	9.0	13.0	105.6
271	12.0	11.0	50.6
67	9.0	13.0	75.1

```
[54]: x.Wage.mean()
```

```
[54]: 243.40740740740742
```

```
[47]: fifa.Position.value_counts()
```

```
[47]: ST      2152
      GK      2025
      CB      1778
      CM      1394
      LB      1322
      RB      1291
      RM      1124
      LM      1095
```

CAM	958
CDM	948
RCB	662
LCB	648
LCM	395
RCM	391
LW	381
RW	370
RDM	248
LDM	243
LS	207
RS	203
RWB	87
LWB	78
CF	74
LAM	21
RAM	21
RF	16
LF	15

Name: Position, dtype: int64

```
[105]: a=fifa[fifa['Position']=='ST'].nlargest(5,['Overall'])
a
```

```
[105]:
```

	ID	Name	Age	\
1	20801	Cristiano Ronaldo	33	
10	188545	R. Lewandowski	29	
16	202126	H. Kane	24	
23	153079	S. Agüero	30	
36	173731	G. Bale	28	

	Photo	Nationality	\
1	https://cdn.sofifa.org/players/4/19/20801.png	Portugal	
10	https://cdn.sofifa.org/players/4/19/188545.png	Poland	
16	https://cdn.sofifa.org/players/4/19/202126.png	England	
23	https://cdn.sofifa.org/players/4/19/153079.png	Argentina	
36	https://cdn.sofifa.org/players/4/19/173731.png	Wales	

	Flag	Overall	Potential	\
1	https://cdn.sofifa.org/flags/38.png	94	94	
10	https://cdn.sofifa.org/flags/37.png	90	90	
16	https://cdn.sofifa.org/flags/14.png	89	91	
23	https://cdn.sofifa.org/flags/52.png	89	89	
36	https://cdn.sofifa.org/flags/50.png	88	88	

	Club	Club Logo	Value	\
1	Juventus	https://cdn.sofifa.org/teams/2/light/45.png	77.0	

10	FC Bayern München	https://cdn.sofifa.org/teams/2/light/21.png	77.0
16	Tottenham Hotspur	https://cdn.sofifa.org/teams/2/light/18.png	83.5
23	Manchester City	https://cdn.sofifa.org/teams/2/light/10.png	64.5
36	Real Madrid	https://cdn.sofifa.org/teams/2/light/243.png	60.0

	Wage	Preferred Foot	International Reputation	Weak Foot	Skill Moves	\
1	405.0	Right	5	4.0	5.0	
10	205.0	Right	4	4.0	4.0	
16	205.0	Right	3	4.0	3.0	
23	300.0	Right	4	4.0	4.0	
36	355.0	Left	4	3.0	4.0	

	Work Rate	Body Type	Position	Jersey Number	Joined	Loaned From	\
1	High/ Low	C. Ronaldo	ST	7.0	2018	NaN	
10	High/ Medium	Normal	ST	9.0	2014	NaN	
16	High/ High	Normal	ST	9.0	2010	NaN	
23	High/ Medium	Stocky	ST	10.0	2011	NaN	
36	High/ Medium	Lean	ST	11.0	2013	NaN	

	Contract Valid Until	Height	Weight	Crossing	Finishing	HeadingAccuracy	\
1	2022-01-01	187.96	183	84.0	94.0	89.0	
10	2021-01-01	182.88	176	62.0	91.0	85.0	
16	2024-01-01	187.96	196	75.0	94.0	85.0	
23	2021-01-01	172.72	154	70.0	93.0	77.0	
36	2022-01-01	185.42	181	87.0	86.0	84.0	

	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy	LongPassing	\
1	81.0	87.0	88.0	81.0	76.0	77.0	
10	83.0	89.0	85.0	77.0	86.0	65.0	
16	80.0	84.0	80.0	78.0	68.0	82.0	
23	81.0	85.0	89.0	82.0	73.0	64.0	
36	85.0	85.0	87.0	90.0	87.0	80.0	

	BallControl	Acceleration	SprintSpeed	Agility	Reactions	Balance	\
1	94.0	89.0	91.0	87.0	96.0	70.0	
10	89.0	77.0	78.0	78.0	90.0	78.0	
16	84.0	68.0	72.0	71.0	91.0	71.0	
23	89.0	88.0	80.0	86.0	90.0	91.0	
36	85.0	94.0	95.0	82.0	85.0	65.0	

	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression	\
1	95.0	95.0	88.0	79.0	93.0	63.0	
10	88.0	84.0	78.0	84.0	84.0	80.0	
16	88.0	78.0	89.0	84.0	85.0	76.0	
23	88.0	81.0	76.0	73.0	83.0	65.0	
36	92.0	87.0	75.0	80.0	91.0	65.0	

	Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
1	29.0	95.0	82.0	85.0	95.0	28.0	
10	39.0	91.0	77.0	88.0	86.0	34.0	
16	35.0	93.0	80.0	90.0	89.0	56.0	
23	24.0	92.0	83.0	83.0	90.0	30.0	
36	59.0	85.0	79.0	76.0	86.0	54.0	

	StandingTackle	SlidingTackle	GKDivining	GKHandling	GKKicking	\
1	31.0	23.0	7.0	11.0	15.0	
10	42.0	19.0	15.0	6.0	12.0	
16	36.0	38.0	8.0	10.0	11.0	
23	20.0	12.0	13.0	15.0	6.0	
36	55.0	52.0	15.0	15.0	11.0	

	GKPositioning	GKReflexes	Release	Clause
1	14.0	11.0		127.1
10	8.0	10.0		127.1
16	14.0	11.0		160.7
23	11.0	14.0		119.3
36	5.0	6.0		123

```
[106]: a.Wage.mean()
```

```
[106]: 294.0
```

```
[107]: b=fifa[fifa['Position']=='GK'].nlargest(5,['Overall'])
b
```

```
[107]:
```

	ID	Name	Age	\
3	193080	De Gea	27	
9	200389	J. Oblak	25	
18	192448	M. ter Stegen	26	
19	192119	T. Courtois	26	
22	167495	M. Neuer	32	

	Photo	Nationality	\
3	https://cdn.sofifa.org/players/4/19/193080.png	Spain	
9	https://cdn.sofifa.org/players/4/19/200389.png	Slovenia	
18	https://cdn.sofifa.org/players/4/19/192448.png	Germany	
19	https://cdn.sofifa.org/players/4/19/192119.png	Belgium	
22	https://cdn.sofifa.org/players/4/19/167495.png	Germany	

	Flag	Overall	Potential	\
3	https://cdn.sofifa.org/flags/45.png	91	93	
9	https://cdn.sofifa.org/flags/44.png	90	93	
18	https://cdn.sofifa.org/flags/21.png	89	92	
19	https://cdn.sofifa.org/flags/7.png	89	90	

22 <https://cdn.sofifa.org/flags/21.png> 89 89

	Club	Club Logo	Value \
3	Manchester United	https://cdn.sofifa.org/teams/2/light/11.png	72.0
9	Atlético Madrid	https://cdn.sofifa.org/teams/2/light/240.png	68.0
18	FC Barcelona	https://cdn.sofifa.org/teams/2/light/241.png	58.0
19	Real Madrid	https://cdn.sofifa.org/teams/2/light/243.png	53.5
22	FC Bayern München	https://cdn.sofifa.org/teams/2/light/21.png	38.0

	Wage	Preferred Foot	International Reputation	Weak Foot	Skill Moves \
3	260.0	Right	4	3.0	1.0
9	94.0	Right	3	3.0	1.0
18	240.0	Right	3	4.0	1.0
19	240.0	Left	4	2.0	1.0
22	130.0	Right	5	4.0	1.0

	Work Rate	Body Type	Position	Jersey Number	Joined	Loaned From \
3	Medium/ Medium	Lean	GK	1.0	2011	NaN
9	Medium/ Medium	Normal	GK	1.0	2014	NaN
18	Medium/ Medium	Normal	GK	22.0	2014	NaN
19	Medium/ Medium	Courtois	GK	1.0	2018	NaN
22	Medium/ Medium	Normal	GK	1.0	2011	NaN

	Contract	Valid Until	Height	Weight	Crossing	Finishing	HeadingAccuracy \
3		2020-01-01	193.04	168	17.0	13.0	21.0
9		2021-01-01	187.96	192	13.0	11.0	15.0
18		2022-01-01	187.96	187	15.0	14.0	11.0
19		2024-01-01	198.12	212	14.0	14.0	13.0
22		2021-01-01	193.04	203	15.0	13.0	25.0

	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy	LongPassing \
3	50.0	13.0	18.0	21.0	19.0	51.0
9	29.0	13.0	12.0	13.0	14.0	26.0
18	36.0	14.0	17.0	18.0	12.0	42.0
19	33.0	12.0	13.0	19.0	20.0	35.0
22	55.0	11.0	30.0	14.0	11.0	59.0

	BallControl	Acceleration	SprintSpeed	Agility	Reactions	Balance \
3	42.0	57.0	58.0	60.0	90.0	43.0
9	16.0	43.0	60.0	67.0	86.0	49.0
18	18.0	38.0	50.0	37.0	85.0	43.0
19	23.0	46.0	52.0	61.0	84.0	45.0
22	48.0	54.0	60.0	51.0	84.0	35.0

	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression \
3	31.0	67.0	43.0	64.0	12.0	38.0
9	22.0	76.0	41.0	78.0	12.0	34.0

18	22.0	79.0	35.0	79.0	10.0	43.0
19	36.0	68.0	38.0	70.0	17.0	23.0
22	25.0	77.0	43.0	80.0	16.0	29.0

	Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
3	30.0	12.0	68.0	40.0	68.0	15.0	
9	19.0	11.0	70.0	11.0	70.0	27.0	
18	22.0	11.0	69.0	25.0	69.0	25.0	
19	15.0	13.0	44.0	27.0	66.0	20.0	
22	30.0	12.0	70.0	47.0	70.0	17.0	

	StandingTackle	SlidingTackle	GK Diving	GK Handling	GK Kicking	\
3	21.0	13.0	90.0	85.0	87.0	
9	12.0	18.0	86.0	92.0	78.0	
18	13.0	10.0	87.0	85.0	88.0	
19	18.0	16.0	85.0	91.0	72.0	
22	10.0	11.0	90.0	86.0	91.0	

	GK Positioning	GK Reflexes	Release	Clause
3	88.0	94.0		138.6
9	88.0	89.0		144.5
18	85.0	90.0		123.3
19	86.0	88.0		113.7
22	87.0	87.0		62.7

```
[108]: b.Wage.mean()
```

```
[108]: 192.8
```

```
[109]: c=fifa[fifa['Position']=='CB'].nlargest(5,['Overall'])
c
```

```
[109]:
```

	ID	Name	Age	Photo	\
12	182493	D. Godín	32	https://cdn.sofifa.org/players/4/19/182493.png	
42	205600	S. Umtiti	24	https://cdn.sofifa.org/players/4/19/205600.png	
73	177509	M. Benatia	31	https://cdn.sofifa.org/players/4/19/177509.png	
89	192366	N. Otamendi	30	https://cdn.sofifa.org/players/4/19/192366.png	
102	171919	Naldo	35	https://cdn.sofifa.org/players/4/19/171919.png	

	Nationality	Flag	Overall	Potential	\
12	Uruguay	https://cdn.sofifa.org/flags/60.png	90	90	
42	France	https://cdn.sofifa.org/flags/18.png	87	92	
73	Morocco	https://cdn.sofifa.org/flags/129.png	86	86	
89	Argentina	https://cdn.sofifa.org/flags/52.png	85	85	
102	Brazil	https://cdn.sofifa.org/flags/54.png	85	85	

	Club	Club Logo	Value	\
--	------	-----------	-------	---

12	Atlético Madrid	https://cdn.sofifa.org/teams/2/light/240.png	44.0
42	FC Barcelona	https://cdn.sofifa.org/teams/2/light/241.png	57.0
73	Juventus	https://cdn.sofifa.org/teams/2/light/45.png	30.0
89	Manchester City	https://cdn.sofifa.org/teams/2/light/10.png	28.5
102	FC Schalke 04	https://cdn.sofifa.org/teams/2/light/34.png	9.0

	Wage	Preferred Foot	International Reputation	Weak Foot	Skill Moves	\
12	125.0	Right	3	3.0	2.0	
42	205.0	Left	3	3.0	2.0	
73	160.0	Right	3	3.0	2.0	
89	170.0	Right	3	3.0	2.0	
102	38.0	Right	3	4.0	2.0	

	Work Rate	Body Type	Position	Jersey Number	Joined	Loaned From	\
12	Medium/ High	Lean	CB	10.0	2010	NaN	
42	Medium/ High	Normal	CB	23.0	2016	NaN	
73	Medium/ High	Normal	CB	4.0	2014	NaN	
89	High/ High	Normal	CB	30.0	2015	NaN	
102	Medium/ Medium	Lean	CB	29.0	2016	NaN	

	Contract Valid Until	Height	Weight	Crossing	Finishing	\
12	2019-01-01	187.96	172	55.0	42.0	
42	2023-01-01	182.88	165	69.0	51.0	
73	2020-01-01	187.96	207	45.0	47.0	
89	2022-01-01	182.88	179	52.0	54.0	
102	2020-01-01	198.12	201	45.0	57.0	

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy	\
12	92.0	79.0	47.0	53.0	49.0	51.0	
42	79.0	81.0	70.0	69.0	72.0	62.0	
73	83.0	65.0	44.0	64.0	34.0	27.0	
89	85.0	75.0	57.0	51.0	50.0	39.0	
102	94.0	76.0	60.0	60.0	52.0	76.0	

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions	\
12	70.0	76.0	68.0	68.0	58.0	85.0	
42	73.0	77.0	71.0	73.0	68.0	82.0	
73	65.0	64.0	65.0	75.0	59.0	82.0	
89	72.0	70.0	57.0	61.0	64.0	79.0	
102	70.0	68.0	60.0	65.0	46.0	85.0	

	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression	\
12	54.0	67.0	91.0	66.0	88.0	43.0	89.0	
42	66.0	83.0	89.0	78.0	84.0	74.0	81.0	
73	53.0	66.0	85.0	69.0	91.0	24.0	86.0	
89	62.0	69.0	92.0	67.0	80.0	56.0	91.0	
102	36.0	92.0	45.0	61.0	83.0	82.0	72.0	

	Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
12	88.0	48.0	52.0	50.0	82.0	90.0	
42	87.0	58.0	58.0	61.0	82.0	90.0	
73	86.0	38.0	47.0	41.0	82.0	89.0	
89	84.0	51.0	53.0	45.0	80.0	83.0	
102	83.0	53.0	59.0	60.0	84.0	86.0	

	StandingTackle	SlidingTackle	GKDividing	GKHandling	GKKicking	\
12	89.0	89.0	6.0	8.0	15.0	
42	89.0	86.0	15.0	10.0	14.0	
73	87.0	85.0	7.0	4.0	8.0	
89	85.0	84.0	12.0	5.0	8.0	
102	88.0	85.0	14.0	10.0	14.0	

	GKPositioning	GKReflexes	Release	Clause
12	5.0	15.0		90.2
42	12.0	15.0		121.1
73	7.0	11.0		49.5
89	11.0	12.0		52.7
102	8.0	14.0		15.3

```
[110]: c.Wage.mean()
```

```
[110]: 139.6
```

```
[111]: d=fifa[fifa['Position']=='CM'].nlargest(5,['Overall'])
d
```

```
[111]:
```

	ID	Name	Age	\
67	189509	Thiago	27	
78	223848	S. Milinković-Savić	23	
121	205498	Jorginho	26	
136	186942	I. Gündoğan	27	
161	220971	N. Keïta	23	

	Photo	Nationality	\
67	https://cdn.sofifa.org/players/4/19/189509.png	Spain	
78	https://cdn.sofifa.org/players/4/19/223848.png	Serbia	
121	https://cdn.sofifa.org/players/4/19/205498.png	Italy	
136	https://cdn.sofifa.org/players/4/19/186942.png	Germany	
161	https://cdn.sofifa.org/players/4/19/220971.png	Guinea	

	Flag	Overall	Potential	\
67	https://cdn.sofifa.org/flags/45.png	86	86	
78	https://cdn.sofifa.org/flags/51.png	85	90	
121	https://cdn.sofifa.org/flags/27.png	84	87	

136	https://cdn.sofifa.org/flags/21.png	84	84
161	https://cdn.sofifa.org/flags/118.png	83	88

	Club	Club Logo	Value \
67	FC Bayern München	https://cdn.sofifa.org/teams/2/light/21.png	45.5
78	Lazio	https://cdn.sofifa.org/teams/2/light/46.png	50.5
121	Chelsea	https://cdn.sofifa.org/teams/2/light/5.png	38.0
136	Manchester City	https://cdn.sofifa.org/teams/2/light/10.png	32.0
161	Liverpool	https://cdn.sofifa.org/teams/2/light/9.png	34.0

	Wage	Preferred Foot	International Reputation	Weak Foot	Skill Moves \
67	130.0	Right	3	3.0	5.0
78	73.0	Right	2	4.0	4.0
121	155.0	Right	2	3.0	3.0
136	175.0	Right	3	4.0	4.0
161	120.0	Right	2	4.0	4.0

	Work Rate	Body Type	Position	Jersey Number	Joined	Loaned From \
67	Medium/ Medium	Normal	CM	19.0	2013	NaN
78	High/ Medium	Normal	CM	21.0	2015	NaN
121	Medium/ Medium	Lean	CM	8.0	2018	NaN
136	High/ Medium	Normal	CM	21.0	2016	NaN
161	High/ Medium	Lean	CM	8.0	2018	NaN

	Contract	Valid Until	Height	Weight	Crossing	Finishing \
67		2021-01-01	175.26	154	72.0	69.0
78		2023-01-01	190.50	168	64.0	80.0
121		2023-01-01	180.34	148	75.0	57.0
136		2020-01-01	180.34	176	74.0	73.0
161		2023-01-01	172.72	141	62.0	74.0

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy \
67	54.0	90.0	90.0	90.0	85.0	77.0
78	86.0	85.0	74.0	86.0	78.0	75.0
121	56.0	89.0	71.0	82.0	75.0	76.0
136	50.0	88.0	75.0	85.0	81.0	74.0
161	42.0	88.0	71.0	88.0	64.0	70.0

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions \
67	87.0	90.0	78.0	69.0	90.0	84.0
78	85.0	87.0	68.0	70.0	66.0	80.0
121	87.0	85.0	75.0	69.0	80.0	83.0
136	83.0	86.0	67.0	68.0	78.0	85.0
161	78.0	88.0	78.0	60.0	89.0	82.0

	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression \
67	86.0	75.0	75.0	75.0	59.0	79.0	57.0

78	59.0	83.0	85.0	85.0	88.0	80.0	73.0
121	73.0	71.0	58.0	79.0	66.0	62.0	79.0
136	78.0	77.0	61.0	69.0	72.0	73.0	70.0
161	90.0	76.0	53.0	82.0	58.0	73.0	78.0

	Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
67	78.0	79.0	86.0	75.0	85.0	67.0	
78	78.0	79.0	85.0	56.0	82.0	75.0	
121	78.0	72.0	87.0	84.0	79.0	63.0	
136	77.0	79.0	86.0	76.0	87.0	73.0	
161	75.0	74.0	81.0	58.0	79.0	68.0	

	StandingTackle	SlidingTackle	GKDividing	GKHandling	GKKicking	\
67	63.0	65.0	6.0	11.0	7.0	
78	77.0	72.0	7.0	10.0	7.0	
121	78.0	70.0	14.0	7.0	13.0	
136	68.0	64.0	11.0	14.0	5.0	
161	62.0	61.0	7.0	14.0	15.0	

	GKPositioning	GKReflexes	Release	Clause
67	9.0	13.0		75.1
78	16.0	7.0		89.6
121	14.0	8.0		73.2
136	5.0	13.0		59.2
161	14.0	9.0		67.2

```
[112]: d.Wage.mean()
```

```
[112]: 130.6
```

```
[113]: e=fifa[fifa['Position']=='LB'].nlargest(5,['Overall'])
e
```

```
[113]:
```

	ID	Name	Age	Photo	\
35	176676	Marcelo	30	https://cdn.sofifa.org/players/4/19/176676.png	
49	189332	Jordi Alba	29	https://cdn.sofifa.org/players/4/19/189332.png	
64	191043	Alex Sandro	27	https://cdn.sofifa.org/players/4/19/191043.png	
85	197445	D. Alaba	26	https://cdn.sofifa.org/players/4/19/197445.png	
106	164169	Filipe Luís	32	https://cdn.sofifa.org/players/4/19/164169.png	

	Nationality	Flag	Overall	Potential	\
35	Brazil	https://cdn.sofifa.org/flags/54.png	88	88	
49	Spain	https://cdn.sofifa.org/flags/45.png	87	87	
64	Brazil	https://cdn.sofifa.org/flags/54.png	86	86	
85	Austria	https://cdn.sofifa.org/flags/4.png	85	87	
106	Brazil	https://cdn.sofifa.org/flags/54.png	85	85	

	Club	Club Logo	Value \
35	Real Madrid	https://cdn.sofifa.org/teams/2/light/243.png	43.0
49	FC Barcelona	https://cdn.sofifa.org/teams/2/light/241.png	38.0
64	Juventus	https://cdn.sofifa.org/teams/2/light/45.png	36.5
85	FC Bayern München	https://cdn.sofifa.org/teams/2/light/21.png	38.0
106	Atlético Madrid	https://cdn.sofifa.org/teams/2/light/240.png	21.5

	Wage	Preferred Foot	International Reputation	Weak Foot	Skill Moves \
35	285.0	Left	4	4.0	5.0
49	250.0	Left	3	3.0	3.0
64	160.0	Left	3	3.0	3.0
85	110.0	Left	4	4.0	3.0
106	81.0	Left	3	3.0	3.0

	Work Rate	Body Type	Position	Jersey Number	Joined	Loaned From \
35	High/ Low	Normal	LB	12.0	2007	NaN
49	High/ Medium	Normal	LB	18.0	2012	NaN
64	High/ High	Normal	LB	12.0	2015	NaN
85	High/ Medium	Lean	LB	8.0	2010	NaN
106	High/ Medium	Lean	LB	3.0	2015	NaN

	Contract Valid Until	Height	Weight	Crossing	Finishing \
35	2022-01-01	175.26	176	90.0	70.0
49	2020-01-01	170.18	150	87.0	73.0
64	2020-01-01	180.34	176	84.0	55.0
85	2021-01-01	180.34	168	81.0	63.0
106	2019-01-01	182.88	163	86.0	59.0

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy \
35	75.0	84.0	54.0	90.0	85.0	67.0
49	70.0	84.0	60.0	80.0	80.0	63.0
64	76.0	81.0	68.0	80.0	78.0	59.0
85	75.0	82.0	68.0	79.0	78.0	84.0
106	72.0	80.0	56.0	77.0	74.0	75.0

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions \
35	76.0	92.0	83.0	82.0	86.0	88.0
49	74.0	84.0	93.0	93.0	90.0	83.0
64	71.0	81.0	83.0	86.0	79.0	84.0
85	80.0	83.0	79.0	86.0	79.0	84.0
106	77.0	83.0	76.0	75.0	75.0	85.0

	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression \
35	86.0	83.0	76.0	91.0	78.0	70.0	84.0
49	85.0	64.0	81.0	91.0	61.0	66.0	75.0
64	78.0	80.0	79.0	92.0	79.0	72.0	82.0
85	77.0	83.0	82.0	87.0	71.0	82.0	69.0

106	62.0	71.0	71.0	89.0	74.0	60.0	81.0
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	Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
35	85.0	85.0	82.0	59.0	86.0	71.0	
49	84.0	79.0	70.0	59.0	79.0	72.0	
64	82.0	70.0	70.0	60.0	82.0	81.0	
85	84.0	76.0	77.0	80.0	79.0	80.0	
106	84.0	71.0	70.0	65.0	88.0	78.0	

	StandingTackle	SlidingTackle	GK Diving	GK Handling	GK Kicking	\
35	85.0	86.0	12.0	5.0	5.0	
49	84.0	85.0	13.0	15.0	13.0	
64	84.0	84.0	7.0	7.0	9.0	
85	82.0	80.0	5.0	7.0	14.0	
106	84.0	86.0	11.0	15.0	9.0	

	GK Positioning	GK Reflexes	Release	Clause
35	5.0	9.0		88.2
49	6.0	13.0		77.9
64	12.0	5.0		60.2
85	15.0	9.0		65.6
106	9.0	5.0		44.1

```
[114]: e.Wage.mean()
```

```
[114]: 177.2
```

```
[115]: f=fifa[fifa['Position']=='RB'].nlargest(5,['Overall'])
f
```

```
[115]:      ID      Name  Age  \
69   184432  Azpilicueta  28
123  204963    Carvajal  26
135  188377    K. Walker  28
192  199564  Sergi Roberto  26
216  177457    L. Bender  29
```

	Photo	Nationality	\
69	https://cdn.sofifa.org/players/4/19/184432.png	Spain	
123	https://cdn.sofifa.org/players/4/19/204963.png	Spain	
135	https://cdn.sofifa.org/players/4/19/188377.png	England	
192	https://cdn.sofifa.org/players/4/19/199564.png	Spain	
216	https://cdn.sofifa.org/players/4/19/177457.png	Germany	

	Flag	Overall	Potential	\
69	https://cdn.sofifa.org/flags/45.png	86	86	
123	https://cdn.sofifa.org/flags/45.png	84	87	

135	https://cdn.sofifa.org/flags/14.png	84	84
192	https://cdn.sofifa.org/flags/45.png	83	86
216	https://cdn.sofifa.org/flags/21.png	83	83

	Club	Club Logo	Value \
69	Chelsea	https://cdn.sofifa.org/teams/2/light/5.png	35.0
123	Real Madrid	https://cdn.sofifa.org/teams/2/light/243.png	31.5
135	Manchester City	https://cdn.sofifa.org/teams/2/light/10.png	24.5
192	FC Barcelona	https://cdn.sofifa.org/teams/2/light/241.png	26.5
216	Bayer 04 Leverkusen	https://cdn.sofifa.org/teams/2/light/32.png	20.0

	Wage	Preferred Foot	International Reputation	Weak Foot	Skill Moves \
69	175.0	Right	3	3.0	2.0
123	185.0	Right	3	3.0	3.0
135	165.0	Right	3	2.0	2.0
192	170.0	Right	3	3.0	4.0
216	82.0	Right	3	3.0	2.0

	Work Rate	Body Type	Position	Jersey Number	Joined	Loaned From \
69	Medium/ Medium	Normal	RB	14.0	2012	NaN
123	High/ High	Stocky	RB	2.0	2013	NaN
135	High/ High	Normal	RB	2.0	2017	NaN
192	High/ High	Normal	RB	20.0	2013	NaN
216	High/ High	Lean	RB	8.0	2009	NaN

	Contract Valid Until	Height	Weight	Crossing	Finishing \
69	2022-01-01	177.80	168	81.0	46.0
123	2022-01-01	172.72	161	83.0	41.0
135	2022-01-01	182.88	154	81.0	51.0
192	2022-01-01	177.80	150	85.0	63.0
216	2021-01-01	185.42	179	69.0	59.0

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy \
69	76.0	81.0	51.0	69.0	68.0	58.0
123	70.0	81.0	34.0	76.0	72.0	47.0
135	74.0	78.0	57.0	79.0	76.0	71.0
192	72.0	86.0	50.0	78.0	74.0	60.0
216	78.0	79.0	57.0	72.0	49.0	47.0

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions \
69	80.0	77.0	76.0	76.0	72.0	88.0
123	71.0	83.0	79.0	84.0	81.0	82.0
135	67.0	78.0	86.0	93.0	67.0	83.0
192	78.0	83.0	78.0	79.0	69.0	80.0
216	74.0	75.0	66.0	67.0	65.0	83.0

	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression \
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69	73.0	68.0	76.0	87.0	71.0	60.0	82.0
123	79.0	64.0	76.0	84.0	74.0	36.0	81.0
135	72.0	86.0	83.0	89.0	75.0	69.0	78.0
192	74.0	65.0	47.0	85.0	69.0	66.0	68.0
216	63.0	74.0	77.0	86.0	76.0	71.0	79.0

	Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
69	89.0	62.0	74.0	66.0	78.0	88.0	
123	83.0	61.0	57.0	45.0	77.0	83.0	
135	81.0	67.0	69.0	63.0	75.0	78.0	
192	81.0	69.0	83.0	57.0	76.0	75.0	
216	86.0	69.0	76.0	52.0	83.0	88.0	

	StandingTackle	SlidingTackle	GK Diving	GK Handling	GK Kicking	\
69	90.0	86.0	13.0	9.0	10.0	
123	83.0	85.0	13.0	13.0	15.0	
135	84.0	83.0	12.0	6.0	16.0	
192	83.0	83.0	14.0	16.0	11.0	
216	86.0	82.0	12.0	6.0	7.0	

	GK Positioning	GK Reflexes	Release Clause
69	6.0	5.0	64.8
123	9.0	15.0	66.9
135	15.0	8.0	45.3
192	15.0	10.0	56.3
216	12.0	7.0	34

```
[116]: f.Wage.mean()
```

```
[116]: 155.4
```

```
[117]: g=fifa[fifa['Position']=='RM'].nlargest(5,['Overall'])
g
```

```
[117]:
```

	ID	Name	Age	\
25	231747	K. Mbappé	19	
26	209331	M. Salah	26	
122	204970	F. Thauvin	25	
137	185020	José Callejón	31	
138	183898	A. Di María	30	

	Photo	Nationality	\
25	https://cdn.sofifa.org/players/4/19/231747.png	France	
26	https://cdn.sofifa.org/players/4/19/209331.png	Egypt	
122	https://cdn.sofifa.org/players/4/19/204970.png	France	
137	https://cdn.sofifa.org/players/4/19/185020.png	Spain	
138	https://cdn.sofifa.org/players/4/19/183898.png	Argentina	

	Flag	Overall	Potential	\
25	https://cdn.sofifa.org/flags/18.png	88	95	
26	https://cdn.sofifa.org/flags/111.png	88	89	
122	https://cdn.sofifa.org/flags/18.png	84	87	
137	https://cdn.sofifa.org/flags/45.png	84	84	
138	https://cdn.sofifa.org/flags/52.png	84	84	

	Club	Club Logo	\
25	Paris Saint-Germain	https://cdn.sofifa.org/teams/2/light/73.png	
26	Liverpool	https://cdn.sofifa.org/teams/2/light/9.png	
122	Olympique de Marseille	https://cdn.sofifa.org/teams/2/light/219.png	
137	Napoli	https://cdn.sofifa.org/teams/2/light/48.png	
138	Paris Saint-Germain	https://cdn.sofifa.org/teams/2/light/73.png	

	Value	Wage	Preferred Foot	International Reputation	Weak Foot	\
25	81.0	100.0	Right		3	4.0
26	69.5	255.0	Left		3	3.0
122	39.0	72.0	Left		2	3.0
137	27.5	105.0	Right		3	3.0
138	29.5	125.0	Left		4	2.0

	Skill Moves	Work Rate	Body Type	Position	Jersey Number	\
25	5.0	High/ Medium	Lean	RM	10.0	
26	4.0	High/ Medium	PLAYER_BODY_TYPE_25	RM	10.0	
122	4.0	High/ Medium	Normal	RM	20.0	
137	3.0	High/ High	Lean	RM	7.0	
138	5.0	High/ Medium	Lean	RM	11.0	

	Joined	Loaned From	Contract Valid Until	Height	Weight	Crossing	\
25	2018	NaN	2022-01-01	177.80	161	77.0	
26	2017	NaN	2023-01-01	175.26	157	78.0	
122	2017	NaN	2021-01-01	177.80	154	83.0	
137	2013	NaN	2020-01-01	177.80	161	82.0	
138	2015	NaN	2021-01-01	180.34	152	83.0	

	Finishing	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	\
25	88.0	77.0	82.0	78.0	90.0	77.0	
26	90.0	59.0	82.0	73.0	89.0	83.0	
122	81.0	75.0	83.0	74.0	85.0	86.0	
137	78.0	65.0	80.0	84.0	82.0	73.0	
138	72.0	51.0	82.0	77.0	86.0	84.0	

	FKAccuracy	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	\
25	63.0	73.0	91.0	96.0	96.0	92.0	
26	60.0	72.0	88.0	94.0	91.0	91.0	
122	72.0	76.0	86.0	87.0	80.0	86.0	

137	65.0	51.0	85.0	88.0	89.0	85.0
138	82.0	79.0	85.0	85.0	84.0	92.0

	Reactions	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	\
25	87.0	83.0	79.0	75.0	83.0	71.0	78.0	
26	91.0	88.0	77.0	68.0	84.0	70.0	83.0	
122	83.0	71.0	83.0	76.0	83.0	66.0	82.0	
137	82.0	80.0	78.0	73.0	91.0	55.0	80.0	
138	80.0	77.0	83.0	72.0	73.0	60.0	77.0	

	Aggression	Interceptions	Positioning	Vision	Penalties	Composure	\
25	62.0	38.0	88.0	82.0	70.0	86.0	
26	63.0	55.0	90.0	82.0	61.0	91.0	
122	56.0	42.0	83.0	80.0	74.0	82.0	
137	54.0	40.0	88.0	78.0	62.0	79.0	
138	73.0	38.0	82.0	82.0	73.0	82.0	

	Marking	StandingTackle	SlidingTackle	GKDividing	GKHandling	GKKicking	\
25	34.0	34.0	32.0	13.0	5.0	7.0	
26	38.0	43.0	41.0	14.0	14.0	9.0	
122	46.0	29.0	31.0	8.0	11.0	14.0	
137	64.0	32.0	32.0	8.0	5.0	14.0	
138	35.0	59.0	56.0	10.0	7.0	11.0	

	GKPositioning	GKReflexes	Release	Clause
25	11.0	6.0	166.1	
26	11.0	14.0	137.3	
122	10.0	9.0	77	
137	11.0	11.0	46.8	
138	12.0	11.0	54.6	

```
[118]: g.Wage.mean()
```

```
[118]: 131.4
```

```
[119]: h=fifa[fifa['Position']=='LM'].nlargest(5,['Overall'])
h
```

```
[119]:      ID      Name  Age  \
33  188567  P. Aubameyang  29
58  208722      S. Mané   26
65  190483  Douglas Costa  27
68  188350      M. Reus   29
86  193747      Koke     26
```

	Photo	Nationality	\
33	https://cdn.sofifa.org/players/4/19/188567.png	Gabon	

58	https://cdn.sofifa.org/players/4/19/208722.png	Senegal
65	https://cdn.sofifa.org/players/4/19/190483.png	Brazil
68	https://cdn.sofifa.org/players/4/19/188350.png	Germany
86	https://cdn.sofifa.org/players/4/19/193747.png	Spain

	Flag	Overall	Potential	\
33	https://cdn.sofifa.org/flags/115.png	88	88	
58	https://cdn.sofifa.org/flags/136.png	86	87	
65	https://cdn.sofifa.org/flags/54.png	86	86	
68	https://cdn.sofifa.org/flags/21.png	86	86	
86	https://cdn.sofifa.org/flags/45.png	85	86	

	Club	Club Logo	Value	\
33	Arsenal	https://cdn.sofifa.org/teams/2/light/1.png	59.0	
58	Liverpool	https://cdn.sofifa.org/teams/2/light/9.png	52.0	
65	Juventus	https://cdn.sofifa.org/teams/2/light/45.png	46.5	
68	Borussia Dortmund	https://cdn.sofifa.org/teams/2/light/22.png	43.5	
86	Atlético Madrid	https://cdn.sofifa.org/teams/2/light/240.png	45.0	

	Wage	Preferred Foot	International Reputation	Weak Foot	Skill Moves	\
33	265.0	Right	3	4.0	4.0	
58	195.0	Right	3	4.0	4.0	
65	175.0	Left	3	3.0	5.0	
68	100.0	Right	4	4.0	4.0	
86	88.0	Right	3	4.0	3.0	

	Work Rate	Body Type	Position	Jersey Number	Joined	Loaned From	\
33	Medium/ Low	Lean	LM	14.0	2018	NaN	
58	High/ Medium	Lean	LM	10.0	2016	NaN	
65	High/ Medium	Normal	LM	11.0	2018	NaN	
68	High/ Medium	Lean	LM	11.0	2012	NaN	
86	High/ High	Normal	LM	8.0	2011	NaN	

	Contract Valid Until	Height	Weight	Crossing	Finishing	HeadingAccuracy	\
33	2021-01-01	187.96	176	77.0	88.0	79.0	
58	2023-01-01	175.26	152	73.0	84.0	62.0	
65	2022-01-01	172.72	154	84.0	67.0	50.0	
68	2023-01-01	180.34	157	79.0	87.0	49.0	
86	2019-01-01	175.26	163	86.0	72.0	61.0	

	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy	LongPassing	\
33	77.0	86.0	79.0	80.0	74.0	64.0	
58	79.0	71.0	87.0	74.0	64.0	71.0	
65	84.0	76.0	92.0	84.0	78.0	68.0	
68	86.0	90.0	87.0	89.0	84.0	75.0	
86	90.0	56.0	82.0	85.0	76.0	89.0	

	BallControl	Acceleration	SprintSpeed	Agility	Reactions	Balance	\
33	82.0	93.0	95.0	76.0	87.0	70.0	
58	86.0	95.0	93.0	91.0	86.0	86.0	
65	91.0	97.0	93.0	93.0	84.0	91.0	
68	86.0	86.0	85.0	86.0	87.0	81.0	
86	86.0	71.0	68.0	74.0	85.0	78.0	

	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression	\
33	82.0	79.0	76.0	76.0	79.0	43.0	
58	82.0	75.0	84.0	67.0	74.0	73.0	
65	86.0	61.0	78.0	63.0	80.0	55.0	
68	88.0	70.0	73.0	67.0	86.0	49.0	
86	84.0	61.0	90.0	79.0	81.0	71.0	

	Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
33	48.0	90.0	77.0	76.0	86.0	27.0	
58	35.0	87.0	82.0	71.0	80.0	42.0	
65	48.0	76.0	84.0	77.0	84.0	45.0	
68	50.0	88.0	86.0	89.0	84.0	47.0	
86	66.0	84.0	87.0	59.0	78.0	80.0	

	StandingTackle	SlidingTackle	GK Diving	GK Handling	GK Kicking	\
33	25.0	36.0	6.0	9.0	15.0	
58	42.0	38.0	10.0	10.0	15.0	
65	38.0	34.0	13.0	15.0	9.0	
68	36.0	45.0	12.0	12.0	13.0	
86	69.0	51.0	14.0	12.0	5.0	

	GK Positioning	GK Reflexes	Release	Clause
33	9.0	9.0	112.1	
58	7.0	14.0	102.7	
65	12.0	5.0	76.7	
68	13.0	11.0	74	
86	10.0	13.0	95.6	

```
[120]: h.Wage.mean()
```

```
[120]: 164.6
```

```
[122]: i=fifa[fifa['Position']=='CAM'].nlargest(5,['Overall'])
i
```

```
[122]:
```

	ID	Name	Age	\
17	194765	A. Griezmann	27	
31	190460	C. Eriksen	26	
61	201942	Roberto Firmino	26	
66	189596	T. Müller	28	

74 176635 M. Özil 29

	Photo	Nationality	\
17	https://cdn.sofifa.org/players/4/19/194765.png	France	
31	https://cdn.sofifa.org/players/4/19/190460.png	Denmark	
61	https://cdn.sofifa.org/players/4/19/201942.png	Brazil	
66	https://cdn.sofifa.org/players/4/19/189596.png	Germany	
74	https://cdn.sofifa.org/players/4/19/176635.png	Germany	

	Flag	Overall	Potential	\
17	https://cdn.sofifa.org/flags/18.png	89	90	
31	https://cdn.sofifa.org/flags/13.png	88	91	
61	https://cdn.sofifa.org/flags/54.png	86	87	
66	https://cdn.sofifa.org/flags/21.png	86	86	
74	https://cdn.sofifa.org/flags/21.png	86	86	

	Club	Club Logo	Value	\
17	Atlético Madrid	https://cdn.sofifa.org/teams/2/light/240.png	78.0	
31	Tottenham Hotspur	https://cdn.sofifa.org/teams/2/light/18.png	73.5	
61	Liverpool	https://cdn.sofifa.org/teams/2/light/9.png	53.0	
66	FC Bayern München	https://cdn.sofifa.org/teams/2/light/21.png	45.0	
74	Arsenal	https://cdn.sofifa.org/teams/2/light/1.png	43.5	

	Wage	Preferred Foot	International Reputation	Weak Foot	Skill Moves	\
17	145.0	Left	4	3.0	4.0	
31	205.0	Right	3	5.0	4.0	
61	195.0	Right	3	4.0	4.0	
66	135.0	Right	4	4.0	3.0	
74	190.0	Left	4	2.0	4.0	

	Work Rate	Body Type	Position	Jersey Number	Joined	Loaned From	\
17	High/ High	Lean	CAM	7.0	2014	NaN	
31	High/ Medium	Lean	CAM	10.0	2013	NaN	
61	High/ High	Lean	CAM	9.0	2015	NaN	
66	High/ High	Lean	CAM	13.0	2008	NaN	
74	Medium/ Low	Lean	CAM	10.0	2013	NaN	

	Contract	Valid Until	Height	Weight	Crossing	Finishing	HeadingAccuracy	\
17		2023-01-01	175.26	161	82.0	90.0	84.0	
31		2020-01-01	180.34	168	88.0	80.0	52.0	
61		2023-01-01	180.34	168	72.0	87.0	77.0	
66		2021-01-01	185.42	165	79.0	87.0	82.0	
74		2021-01-01	180.34	168	83.0	73.0	54.0	

	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy	LongPassing	\
17	83.0	87.0	88.0	84.0	78.0	76.0	
31	91.0	77.0	84.0	86.0	87.0	88.0	

61	86.0	81.0	87.0	80.0	65.0	75.0
66	83.0	84.0	75.0	81.0	59.0	72.0
74	89.0	80.0	84.0	84.0	77.0	82.0

	BallControl	Acceleration	SprintSpeed	Agility	Reactions	Balance \
17	90.0	88.0	85.0	90.0	90.0	80.0
31	91.0	75.0	73.0	79.0	88.0	81.0
61	88.0	78.0	77.0	80.0	86.0	81.0
66	82.0	73.0	75.0	75.0	91.0	72.0
74	90.0	72.0	69.0	79.0	84.0	70.0

	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression \
17	80.0	90.0	83.0	62.0	82.0	69.0
31	84.0	50.0	92.0	58.0	89.0	46.0
61	81.0	81.0	90.0	74.0	76.0	73.0
66	78.0	81.0	87.0	68.0	80.0	57.0
74	70.0	48.0	69.0	57.0	75.0	48.0

	Interceptions	Positioning	Vision	Penalties	Composure	Marking \
17	35.0	91.0	83.0	79.0	87.0	59.0
31	56.0	83.0	91.0	67.0	88.0	59.0
61	58.0	87.0	85.0	72.0	87.0	60.0
66	58.0	92.0	85.0	60.0	83.0	44.0
74	24.0	83.0	91.0	67.0	82.0	24.0

	StandingTackle	SlidingTackle	GK Diving	GK Handling	GK Kicking \
17	47.0	48.0	14.0	8.0	14.0
31	57.0	22.0	9.0	14.0	7.0
61	64.0	42.0	8.0	11.0	9.0
66	41.0	44.0	6.0	7.0	11.0
74	16.0	19.0	6.0	14.0	10.0

	GK Positioning	GK Reflexes	Release Clause
17	13.0	14.0	165.8
31	7.0	6.0	141.5
61	6.0	10.0	104.7
66	14.0	14.0	74.3
74	6.0	14.0	82.7

```
[125]: i.Wage.mean()
```

```
[125]: 174.0
```

```
[128]: j=fifa[fifa['Position']=='CDM'].nlargest(5,['Overall'])
j
```

[128]:

	ID	Name	Age	\
20	189511	Sergio Busquets	29	
27	200145	Casemiro	26	
72	180206	M. Pjanić	28	
75	135507	Fernandinho	33	
118	209499	Fabinho	24	

	Photo	Nationality	\
20	https://cdn.sofifa.org/players/4/19/189511.png	Spain	
27	https://cdn.sofifa.org/players/4/19/200145.png	Brazil	
72	https://cdn.sofifa.org/players/4/19/180206.png	Bosnia Herzegovina	
75	https://cdn.sofifa.org/players/4/19/135507.png	Brazil	
118	https://cdn.sofifa.org/players/4/19/209499.png	Brazil	

	Flag	Overall	Potential	Club	\
20	https://cdn.sofifa.org/flags/45.png	89	89	FC Barcelona	
27	https://cdn.sofifa.org/flags/54.png	88	90	Real Madrid	
72	https://cdn.sofifa.org/flags/8.png	86	86	Juventus	
75	https://cdn.sofifa.org/flags/54.png	86	86	Manchester City	
118	https://cdn.sofifa.org/flags/54.png	84	88	Liverpool	

	Club Logo	Value	Wage	\
20	https://cdn.sofifa.org/teams/2/light/241.png	51.5	315.0	
27	https://cdn.sofifa.org/teams/2/light/243.png	59.5	285.0	
72	https://cdn.sofifa.org/teams/2/light/45.png	44.0	180.0	
75	https://cdn.sofifa.org/teams/2/light/10.png	18.0	185.0	
118	https://cdn.sofifa.org/teams/2/light/9.png	34.0	120.0	

	Preferred Foot	International Reputation	Weak Foot	Skill Moves	\
20	Right	4	3.0	3.0	
27	Right	3	3.0	2.0	
72	Right	3	4.0	3.0	
75	Right	3	4.0	3.0	
118	Right	3	2.0	3.0	

	Work Rate	Body Type	Position	Jersey Number	Joined	Loaned From	\
20	Medium/ Medium	Lean	CDM	5.0	2008	NaN	
27	Medium/ High	Normal	CDM	14.0	2013	NaN	
72	Medium/ Medium	Normal	CDM	5.0	2016	NaN	
75	Medium/ High	Lean	CDM	25.0	2013	NaN	
118	Medium/ Medium	Lean	CDM	3.0	2018	NaN	

	Contract	Valid Until	Height	Weight	Crossing	Finishing	\
20		2023-01-01	187.96	168	62.0	67.0	
27		2021-01-01	185.42	185	52.0	59.0	
72		2023-01-01	177.80	159	80.0	60.0	
75		2020-01-01	177.80	148	68.0	69.0	

118	2023-01-01	187.96	172	79.0	66.0	
-----	------------	--------	-----	------	------	--

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy	\
20	68.0	89.0	44.0	80.0	66.0	68.0	
27	76.0	85.0	53.0	69.0	59.0	74.0	
72	60.0	89.0	72.0	86.0	86.0	92.0	
75	63.0	85.0	74.0	77.0	70.0	72.0	
118	75.0	83.0	47.0	76.0	71.0	53.0	

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions	\
20	82.0	88.0	50.0	52.0	66.0	87.0	
27	82.0	78.0	59.0	65.0	62.0	84.0	
72	85.0	89.0	66.0	66.0	77.0	84.0	
75	81.0	82.0	68.0	67.0	72.0	86.0	
118	78.0	82.0	69.0	72.0	69.0	83.0	

	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression	\
20	52.0	61.0	66.0	86.0	77.0	54.0	85.0	
27	66.0	86.0	88.0	87.0	89.0	79.0	87.0	
72	79.0	78.0	61.0	78.0	66.0	82.0	70.0	
75	78.0	83.0	76.0	79.0	76.0	78.0	87.0	
118	67.0	78.0	75.0	92.0	79.0	65.0	85.0	

	Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
20	87.0	77.0	87.0	60.0	90.0	90.0	
27	87.0	69.0	77.0	66.0	84.0	88.0	
72	78.0	70.0	88.0	79.0	86.0	75.0	
75	88.0	70.0	75.0	61.0	79.0	85.0	
118	84.0	70.0	75.0	91.0	84.0	83.0	

	StandingTackle	SlidingTackle	GKDividing	GKHandling	GKKicking	\
20	86.0	80.0	5.0	8.0	13.0	
27	90.0	87.0	13.0	14.0	16.0	
72	74.0	70.0	7.0	7.0	13.0	
75	85.0	80.0	12.0	11.0	5.0	
118	86.0	84.0	13.0	12.0	6.0	

	GKPositioning	GKReflexes	Release Clause
20	9.0	13.0	105.6
27	12.0	12.0	126.4
72	7.0	8.0	72.6
75	13.0	7.0	33.3
118	8.0	8.0	67.2

```
[129]: j.Wage.mean()
```

```
[129]: 217.0
```

```
[130]: k=fifa[fifa['Position']=='RCB'].nlargest(5,['Overall'])
k
```

```
[130]:      ID      Name  Age      Photo \
8      155862  Sergio Ramos  32  https://cdn.sofifa.org/players/4/19/155862.png
39     164240  Thiago Silva  33  https://cdn.sofifa.org/players/4/19/164240.png
54     152729      Piqué  31  https://cdn.sofifa.org/players/4/19/152729.png
62     201535    R. Varane  25  https://cdn.sofifa.org/players/4/19/201535.png
70     184344    L. Bonucci  31  https://cdn.sofifa.org/players/4/19/184344.png
```

```
      Nationality      Flag  Overall  Potential \
8      Spain  https://cdn.sofifa.org/flags/45.png      91      91
39     Brazil  https://cdn.sofifa.org/flags/54.png      88      88
54     Spain  https://cdn.sofifa.org/flags/45.png      87      87
62     France  https://cdn.sofifa.org/flags/18.png      86      91
70     Italy  https://cdn.sofifa.org/flags/27.png      86      86
```

```
      Club      Club Logo  Value \
8      Real Madrid  https://cdn.sofifa.org/teams/2/light/243.png  51.0
39  Paris Saint-Germain  https://cdn.sofifa.org/teams/2/light/73.png  24.0
54      FC Barcelona  https://cdn.sofifa.org/teams/2/light/241.png  34.0
62      Real Madrid  https://cdn.sofifa.org/teams/2/light/243.png  50.0
70      Juventus  https://cdn.sofifa.org/teams/2/light/45.png  30.0
```

```
      Wage Preferred Foot  International Reputation  Weak Foot  Skill Moves \
8      380.0      Right      4      3.0      3.0
39     165.0      Right      4      3.0      2.0
54     240.0      Right      4      3.0      2.0
62     210.0      Right      3      3.0      2.0
70     160.0      Right      3      3.0      2.0
```

```
      Work Rate Body Type Position  Jersey Number  Joined Loaned From \
8      High/ Medium  Normal      RCB      15.0      2005      NaN
39  Medium/ High  Normal      RCB      2.0      2012      NaN
54  High/ Medium  Normal      RCB      3.0      2008      NaN
62  Medium/ High  Lean      RCB      4.0      2011      NaN
70    Low/ High  Lean      RCB      19.0      2018      NaN
```

```
      Contract Valid Until  Height  Weight  Crossing  Finishing  HeadingAccuracy \
8      2020-01-01  182.88  181  66.0  60.0  91.0
39     2020-01-01  182.88  181  60.0  38.0  81.0
54     2022-01-01  193.04  187  57.0  64.0  83.0
62     2022-01-01  190.50  179  36.0  40.0  83.0
70     2023-01-01  190.50  187  44.0  48.0  86.0
```

```
      ShortPassing  Volleys  Dribbling  Curve  FKAaccuracy  LongPassing \
8      78.0  66.0  63.0  74.0  72.0  77.0
```


39	80.0	63.0	62.0	61.0	64.0	80.0
54	81.0	57.0	59.0	58.0	43.0	80.0
62	75.0	42.0	57.0	46.0	54.0	76.0
70	77.0	58.0	69.0	56.0	61.0	85.0

	BallControl	Acceleration	SprintSpeed	Agility	Reactions	Balance \
8	84.0	76.0	75.0	78.0	85.0	66.0
39	80.0	70.0	72.0	68.0	82.0	68.0
54	78.0	49.0	60.0	58.0	84.0	36.0
62	77.0	83.0	85.0	63.0	83.0	40.0
70	75.0	57.0	65.0	60.0	84.0	52.0

	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression \
8	79.0	93.0	84.0	83.0	59.0	88.0
39	71.0	90.0	74.0	82.0	68.0	76.0
54	62.0	74.0	65.0	83.0	51.0	72.0
62	52.0	79.0	73.0	84.0	53.0	77.0
70	74.0	85.0	71.0	83.0	65.0	82.0

	Interceptions	Positioning	Vision	Penalties	Composure	Marking \
8	90.0	60.0	63.0	75.0	82.0	87.0
39	89.0	59.0	72.0	60.0	81.0	88.0
54	88.0	58.0	62.0	69.0	86.0	91.0
62	82.0	44.0	56.0	43.0	82.0	87.0
70	90.0	38.0	74.0	70.0	86.0	90.0

	StandingTackle	SlidingTackle	GK Diving	GK Handling	GK Kicking \
8	92.0	91.0	11.0	8.0	9.0
39	89.0	85.0	9.0	12.0	5.0
54	86.0	84.0	10.0	11.0	14.0
62	88.0	87.0	11.0	11.0	9.0
70	86.0	80.0	2.0	2.0	3.0

	GK Positioning	GK Reflexes	Release Clause
8	7.0	11.0	104.6
39	9.0	10.0	44.4
54	15.0	8.0	69.7
62	5.0	14.0	106.3
70	2.0	4.0	49.5

```
[131]: k.Wage.mean()
```

```
[131]: 231.0
```

```
[132]: l=fifa[fifa['Position']=='LCB'].nlargest(5,['Overall'])
1
```

[132]:

	ID	Name	Age	\
24	138956	G. Chiellini	33	
34	178603	M. Hummels	29	
44	201024	K. Koulibaly	27	
51	172871	J. Vertonghen	31	
59	203376	V. van Dijk	26	

	Photo	Nationality	\
24	https://cdn.sofifa.org/players/4/19/138956.png	Italy	
34	https://cdn.sofifa.org/players/4/19/178603.png	Germany	
44	https://cdn.sofifa.org/players/4/19/201024.png	Senegal	
51	https://cdn.sofifa.org/players/4/19/172871.png	Belgium	
59	https://cdn.sofifa.org/players/4/19/203376.png	Netherlands	

	Flag	Overall	Potential	\
24	https://cdn.sofifa.org/flags/27.png	89	89	
34	https://cdn.sofifa.org/flags/21.png	88	88	
44	https://cdn.sofifa.org/flags/136.png	87	90	
51	https://cdn.sofifa.org/flags/7.png	87	87	
59	https://cdn.sofifa.org/flags/34.png	86	88	

	Club	Club Logo	Value	\
24	Juventus	https://cdn.sofifa.org/teams/2/light/45.png	27.0	
34	FC Bayern München	https://cdn.sofifa.org/teams/2/light/21.png	46.0	
44	Napoli	https://cdn.sofifa.org/teams/2/light/48.png	51.0	
51	Tottenham Hotspur	https://cdn.sofifa.org/teams/2/light/18.png	34.0	
59	Liverpool	https://cdn.sofifa.org/teams/2/light/9.png	44.5	

	Wage	Preferred Foot	International Reputation	Weak Foot	Skill Moves	\
24	215.0	Left	4	3.0	2.0	
34	160.0	Right	4	3.0	3.0	
44	115.0	Right	3	3.0	2.0	
51	155.0	Left	3	3.0	3.0	
59	165.0	Right	3	3.0	2.0	

	Work Rate	Body Type	Position	Jersey Number	Joined	Loaned From	\
24	Medium/ High	Normal	LCB	3.0	2005	NaN	
34	High/ Medium	Normal	LCB	5.0	2016	NaN	
44	High/ High	Normal	LCB	26.0	2014	NaN	
51	High/ High	Normal	LCB	5.0	2012	NaN	
59	Medium/ Medium	Normal	LCB	4.0	2018	NaN	

	Contract Valid Until	Height	Weight	Crossing	Finishing	Heading Accuracy	\
24	2020-01-01	187.96	187	58.0	33.0	83.0	
34	2021-01-01	190.50	203	64.0	55.0	87.0	
44	2021-01-01	187.96	196	30.0	19.0	81.0	
51	2019-01-01	187.96	190	68.0	56.0	80.0	

59	2023-01-01	193.04	203	53.0	52.0	82.0
----	------------	--------	-----	------	------	------

	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy	LongPassing	\
24	59.0	45.0	58.0	60.0	31.0	59.0	
34	81.0	60.0	68.0	65.0	53.0	85.0	
44	66.0	14.0	66.0	28.0	28.0	56.0	
51	79.0	52.0	71.0	58.0	73.0	74.0	
59	76.0	45.0	70.0	60.0	70.0	78.0	

	BallControl	Acceleration	SprintSpeed	Agility	Reactions	Balance	\
24	57.0	63.0	75.0	54.0	82.0	55.0	
34	81.0	53.0	64.0	63.0	87.0	60.0	
44	60.0	68.0	75.0	50.0	80.0	40.0	
51	76.0	61.0	65.0	61.0	84.0	60.0	
59	73.0	74.0	77.0	61.0	85.0	49.0	

	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression	\
24	78.0	89.0	65.0	89.0	49.0	92.0	
34	71.0	68.0	66.0	84.0	51.0	69.0	
44	55.0	81.0	71.0	94.0	15.0	87.0	
51	80.0	85.0	75.0	79.0	66.0	84.0	
59	81.0	85.0	71.0	92.0	64.0	81.0	

	Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
24	88.0	28.0	50.0	50.0	84.0	93.0	
34	92.0	56.0	79.0	68.0	91.0	88.0	
44	88.0	24.0	43.0	33.0	78.0	91.0	
51	89.0	60.0	68.0	66.0	83.0	90.0	
59	86.0	41.0	59.0	62.0	83.0	88.0	

	StandingTackle	SlidingTackle	GKDividing	GKHandling	GKKicking	\
24	93.0	90.0	3.0	3.0	2.0	
34	90.0	88.0	15.0	6.0	10.0	
44	88.0	86.0	7.0	11.0	7.0	
51	87.0	88.0	6.0	10.0	9.0	
59	89.0	84.0	13.0	10.0	13.0	

	GKPositioning	GKReflexes	Release	Clause
24	4.0	3.0		44.6
34	5.0	6.0		75.9
44	13.0	5.0		90.5
51	12.0	7.0		62.9
59	11.0	11.0		87.9

```
[133]: l.Wage.mean()
```

```
[133]: 162.0
```

```
[134]: m=fifa[fifa['Position']=='LCM'].nlargest(5,['Overall'])
m
```

```
[134]:      ID      Name  Age  \
11   182521    T. Kroos   28
13   168542  David Silva   32
52   171877    M. Hamšík   30
63   199556    M. Verratti  25
114  212198  Bruno Fernandes  23
```

```
      Photo Nationality  \
11  https://cdn.sofifa.org/players/4/19/182521.png    Germany
13  https://cdn.sofifa.org/players/4/19/168542.png    Spain
52  https://cdn.sofifa.org/players/4/19/171877.png    Slovakia
63  https://cdn.sofifa.org/players/4/19/199556.png    Italy
114 https://cdn.sofifa.org/players/4/19/212198.png    Portugal
```

```
      Flag Overall Potential  \
11  https://cdn.sofifa.org/flags/21.png           90           90
13  https://cdn.sofifa.org/flags/45.png           90           90
52  https://cdn.sofifa.org/flags/43.png           87           87
63  https://cdn.sofifa.org/flags/27.png           86           89
114 https://cdn.sofifa.org/flags/38.png           84           88
```

```
      Club      Club Logo  Value  \
11    Real Madrid  https://cdn.sofifa.org/teams/2/light/243.png  76.5
13  Manchester City  https://cdn.sofifa.org/teams/2/light/10.png  60.0
52      Napoli  https://cdn.sofifa.org/teams/2/light/48.png  46.5
63  Paris Saint-Germain  https://cdn.sofifa.org/teams/2/light/73.png  55.0
114   Sporting CP  https://cdn.sofifa.org/teams/2/light/237.png  40.5
```

```
      Wage Preferred Foot International Reputation  Weak Foot  Skill Moves  \
11   355.0           Right                4           5.0           3.0
13   285.0           Left                4           2.0           4.0
52   125.0           Right                3           5.0           3.0
63   135.0           Right                3           4.0           4.0
114   22.0           Right                2           3.0           4.0
```

```
      Work Rate Body Type Position Jersey Number  Joined Loaned From  \
11  Medium/ Medium   Normal      LCM           8.0   2014         NaN
13  High/ Medium   Normal      LCM          21.0   2010         NaN
52  High/ Medium   Normal      LCM          17.0   2007         NaN
63  Medium/ High   Normal      LCM           6.0   2012         NaN
114 High/ Medium   Lean      LCM           8.0   2017         NaN
```

```
      Contract Valid Until  Height  Weight  Crossing  Finishing  \
11           2022-01-01  182.88    168      88.0      76.0
```

13	2020-01-01	172.72	148	84.0	76.0
52	2020-01-01	182.88	174	78.0	79.0
63	2021-01-01	165.10	132	72.0	60.0
114	2023-01-01	177.80	152	84.0	73.0

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy \
11	54.0	92.0	82.0	81.0	86.0	84.0
13	54.0	93.0	82.0	89.0	82.0	77.0
52	74.0	88.0	79.0	86.0	80.0	72.0
63	55.0	90.0	64.0	90.0	73.0	64.0
114	58.0	85.0	84.0	83.0	85.0	81.0

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions \
11	93.0	90.0	64.0	62.0	70.0	89.0
13	87.0	94.0	70.0	64.0	92.0	90.0
52	83.0	87.0	69.0	68.0	76.0	88.0
63	89.0	88.0	69.0	62.0	87.0	85.0
114	82.0	85.0	79.0	76.0	77.0	84.0

	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression \
11	71.0	87.0	30.0	75.0	73.0	92.0	60.0
13	90.0	72.0	64.0	78.0	52.0	75.0	57.0
52	66.0	82.0	71.0	84.0	67.0	83.0	56.0
63	94.0	56.0	64.0	77.0	52.0	58.0	89.0
114	78.0	87.0	72.0	89.0	67.0	88.0	65.0

	Interceptions	Positioning	Vision	Penalties	Composure	Marking \
11	82.0	79.0	86.0	73.0	85.0	72.0
13	50.0	89.0	92.0	75.0	93.0	59.0
52	72.0	88.0	86.0	70.0	84.0	75.0
63	84.0	71.0	87.0	64.0	93.0	78.0
114	70.0	79.0	86.0	81.0	83.0	63.0

	StandingTackle	SlidingTackle	GK Diving	GK Handling	GK Kicking \
11	79.0	69.0	10.0	11.0	13.0
13	53.0	29.0	6.0	15.0	7.0
52	73.0	62.0	8.0	6.0	4.0
63	83.0	80.0	12.0	12.0	15.0
114	66.0	53.0	12.0	14.0	15.0

	GK Positioning	GK Reflexes	Release Clause
11	7.0	10.0	156.8
13	6.0	12.0	111
52	14.0	14.0	79.1
63	15.0	10.0	105.9
114	8.0	14.0	84

```
[135]: m.Wage.mean()
```

```
[135]: 184.4
```

```
[136]: n=fifa[fifa['Position']=='RCM'].nlargest(5,['Overall'])
n
```

```
[136]:
```

	ID	Name	Age	Photo \
4	192985	K. De Bruyne	27	https://cdn.sofifa.org/players/4/19/192985.png
6	177003	L. Modrić	32	https://cdn.sofifa.org/players/4/19/177003.png
53	168651	I. Rakitić	30	https://cdn.sofifa.org/players/4/19/168651.png
82	212622	J. Kimmich	23	https://cdn.sofifa.org/players/4/19/212622.png
83	208421	Saúl	23	https://cdn.sofifa.org/players/4/19/208421.png

	Nationality	Flag	Overall	Potential \
4	Belgium	https://cdn.sofifa.org/flags/7.png	91	92
6	Croatia	https://cdn.sofifa.org/flags/10.png	91	91
53	Croatia	https://cdn.sofifa.org/flags/10.png	87	87
82	Germany	https://cdn.sofifa.org/flags/21.png	85	88
83	Spain	https://cdn.sofifa.org/flags/45.png	85	90

	Club	Club Logo	Value \
4	Manchester City	https://cdn.sofifa.org/teams/2/light/10.png	102.0
6	Real Madrid	https://cdn.sofifa.org/teams/2/light/243.png	67.0
53	FC Barcelona	https://cdn.sofifa.org/teams/2/light/241.png	46.5
82	FC Bayern München	https://cdn.sofifa.org/teams/2/light/21.png	40.5
83	Atlético Madrid	https://cdn.sofifa.org/teams/2/light/240.png	50.5

	Wage	Preferred Foot	International Reputation	Weak Foot	Skill Moves \
4	355.0	Right	4	5.0	4.0
6	420.0	Right	4	4.0	4.0
53	260.0	Right	4	3.0	3.0
82	92.0	Right	3	4.0	3.0
83	77.0	Left	3	4.0	3.0

	Work Rate	Body Type	Position	Jersey Number	Joined	Loaned From \
4	High/ High	Normal	RCM	7.0	2015	NaN
6	High/ High	Lean	RCM	10.0	2012	NaN
53	High/ High	Normal	RCM	4.0	2014	NaN
82	High/ Low	Lean	RCM	18.0	2015	NaN
83	High/ High	Lean	RCM	6.0	2013	NaN

	Contract Valid Until	Height	Weight	Crossing	Finishing	HeadingAccuracy \
4	2023-01-01	180.34	154	93.0	82.0	55.0
6	2020-01-01	172.72	146	86.0	72.0	55.0
53	2021-01-01	182.88	172	84.0	83.0	58.0
82	2023-01-01	175.26	154	90.0	66.0	74.0

83	2026-01-01	182.88	170	69.0	78.0	83.0
----	------------	--------	-----	------	------	------

	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy	LongPassing	\
4	92.0	82.0	86.0	85.0	83.0	91.0	
6	93.0	76.0	90.0	85.0	78.0	88.0	
53	87.0	80.0	84.0	88.0	84.0	90.0	
82	85.0	61.0	80.0	81.0	61.0	80.0	
83	85.0	76.0	83.0	72.0	60.0	83.0	

	BallControl	Acceleration	SprintSpeed	Agility	Reactions	Balance	\
4	91.0	78.0	76.0	79.0	91.0	77.0	
6	93.0	80.0	72.0	93.0	90.0	94.0	
53	87.0	66.0	59.0	72.0	77.0	66.0	
82	85.0	78.0	68.0	84.0	85.0	83.0	
83	85.0	74.0	73.0	76.0	82.0	69.0	

	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression	\
4	91.0	63.0	90.0	75.0	91.0	76.0	
6	79.0	68.0	89.0	58.0	82.0	62.0	
53	84.0	39.0	84.0	66.0	90.0	67.0	
82	75.0	79.0	85.0	65.0	69.0	74.0	
83	78.0	79.0	86.0	77.0	79.0	69.0	

	Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
4	61.0	87.0	94.0	79.0	88.0	68.0	
6	83.0	79.0	92.0	82.0	84.0	60.0	
53	75.0	79.0	86.0	82.0	81.0	72.0	
82	79.0	80.0	79.0	44.0	82.0	75.0	
83	78.0	82.0	82.0	55.0	83.0	77.0	

	StandingTackle	SlidingTackle	GKDiving	GKHandling	GKKicking	\
4	58.0	51.0	15.0	13.0	5.0	
6	76.0	73.0	13.0	9.0	7.0	
53	74.0	70.0	14.0	11.0	12.0	
82	81.0	79.0	8.0	15.0	7.0	
83	79.0	76.0	7.0	13.0	12.0	

	GKPositioning	GKReflexes	Release	Clause
4	10.0	13.0		196.4
6	14.0	9.0		137.4
53	5.0	9.0		95.3
82	15.0	15.0		69.9
83	10.0	9.0		107.3

```
[138]: n.Wage.mean()
```

```
[138]: 240.8
```

```
[139]: o=fifa[fifa['Position']=='LW'].nlargest(5,['Overall'])
o
```

```
[139]:      ID      Name  Age      Photo \
2    190871  Neymar Jr   26  https://cdn.sofifa.org/players/4/19/190871.png
29   198219   L. Insigne  27  https://cdn.sofifa.org/players/4/19/198219.png
30   197781      Isco    26  https://cdn.sofifa.org/players/4/19/197781.png
32   189242  Coutinho    26  https://cdn.sofifa.org/players/4/19/189242.png
55   222492    L. Sané    22  https://cdn.sofifa.org/players/4/19/222492.png
```

```
      Nationality      Flag  Overall  Potential \
2      Brazil  https://cdn.sofifa.org/flags/54.png      92      93
29     Italy  https://cdn.sofifa.org/flags/27.png      88      88
30     Spain  https://cdn.sofifa.org/flags/45.png      88      91
32     Brazil  https://cdn.sofifa.org/flags/54.png      88      89
55    Germany  https://cdn.sofifa.org/flags/21.png      86      92
```

```
      Club      Club Logo  Value \
2  Paris Saint-Germain  https://cdn.sofifa.org/teams/2/light/73.png  118.5
29      Napoli  https://cdn.sofifa.org/teams/2/light/48.png   62.0
30   Real Madrid  https://cdn.sofifa.org/teams/2/light/243.png   73.5
32   FC Barcelona  https://cdn.sofifa.org/teams/2/light/241.png   69.5
55  Manchester City  https://cdn.sofifa.org/teams/2/light/10.png   61.0
```

```
      Wage Preferred Foot International Reputation  Weak Foot  Skill Moves \
2    290.0      Right      5      5.0      5.0
29   165.0      Right      3      3.0      4.0
30   315.0      Right      3      3.0      4.0
32   340.0      Right      3      4.0      5.0
55   195.0      Left      2      3.0      4.0
```

```
      Work Rate Body Type Position  Jersey Number  Joined Loaned From \
2  High/ Medium  Neymar      LW      10.0      2017      NaN
29 High/ Medium  Normal      LW      10.0      2010      NaN
30 High/ Medium  Normal      LW      22.0      2013      NaN
32 High/ High    Normal      LW      7.0      2018      NaN
55 High/ Medium  Lean      LW      19.0      2016      NaN
```

```
      Contract Valid Until  Height  Weight  Crossing  Finishing  HeadingAccuracy \
2      2022-01-01  175.26    150    79.0      87.0      62.0
29     2022-01-01  162.56    130    86.0      77.0      56.0
30     2022-01-01  175.26    174    75.0      79.0      55.0
32     2023-01-01  172.72    150    79.0      79.0      48.0
55     2021-01-01  182.88    165    83.0      81.0      72.0
```

```
      ShortPassing  Volleys  Dribbling  Curve  FKAccuracy  LongPassing \
2      84.0      84.0      96.0    88.0      87.0      78.0
```


29	85.0	74.0	90.0	87.0	77.0	78.0
30	89.0	65.0	94.0	88.0	76.0	83.0
32	88.0	75.0	91.0	91.0	86.0	83.0
55	79.0	85.0	88.0	82.0	68.0	64.0

	BallControl	Acceleration	SprintSpeed	Agility	Reactions	Balance \
2	95.0	94.0	90.0	96.0	94.0	84.0
29	93.0	94.0	86.0	94.0	83.0	93.0
30	95.0	75.0	69.0	87.0	77.0	90.0
32	92.0	89.0	75.0	92.0	83.0	93.0
55	85.0	93.0	96.0	88.0	81.0	81.0

	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression \
2	80.0	61.0	81.0	49.0	82.0	56.0
29	75.0	53.0	75.0	44.0	84.0	34.0
30	69.0	64.0	70.0	59.0	87.0	58.0
32	83.0	59.0	79.0	61.0	93.0	59.0
55	86.0	64.0	79.0	70.0	78.0	61.0

	Interceptions	Positioning	Vision	Penalties	Composure	Marking \
2	36.0	89.0	87.0	81.0	94.0	27.0
29	26.0	83.0	87.0	61.0	83.0	51.0
30	64.0	78.0	89.0	76.0	86.0	60.0
32	49.0	84.0	90.0	70.0	85.0	55.0
55	34.0	84.0	82.0	71.0	78.0	36.0

	StandingTackle	SlidingTackle	GK Diving	GK Handling	GK Kicking \
2	24.0	33.0	9.0	9.0	15.0
29	24.0	22.0	8.0	4.0	14.0
30	64.0	51.0	10.0	8.0	12.0
32	54.0	47.0	12.0	7.0	9.0
55	32.0	35.0	8.0	12.0	9.0

	GK Positioning	GK Reflexes	Release Clause
2	15.0	11.0	228.1
29	9.0	10.0	105.4
30	15.0	6.0	156.2
32	14.0	6.0	147.7
55	9.0	14.0	125.1

```
[140]: o.Wage.mean()
```

```
[140]: 261.0
```

```
[141]: p=fifa[fifa['Position']=='RW'].nlargest(5,['Overall'])
p
```

[141]:

	ID	Name	Age \
56	218667	Bernardo Silva	23
60	202652	R. Sterling	23
79	220834	Marco Asensio	22
84	204485	R. Mahrez	27
93	184941	A. Sánchez	29

	Photo	Nationality \
56	https://cdn.sofifa.org/players/4/19/218667.png	Portugal
60	https://cdn.sofifa.org/players/4/19/202652.png	England
79	https://cdn.sofifa.org/players/4/19/220834.png	Spain
84	https://cdn.sofifa.org/players/4/19/204485.png	Algeria
93	https://cdn.sofifa.org/players/4/19/184941.png	Chile

	Flag	Overall	Potential \
56	https://cdn.sofifa.org/flags/38.png	86	91
60	https://cdn.sofifa.org/flags/14.png	86	89
79	https://cdn.sofifa.org/flags/45.png	85	92
84	https://cdn.sofifa.org/flags/97.png	85	85
93	https://cdn.sofifa.org/flags/55.png	85	85

	Club	Club Logo	Value \
56	Manchester City	https://cdn.sofifa.org/teams/2/light/10.png	59.5
60	Manchester City	https://cdn.sofifa.org/teams/2/light/10.png	56.5
79	Real Madrid	https://cdn.sofifa.org/teams/2/light/243.png	54.0
84	Manchester City	https://cdn.sofifa.org/teams/2/light/10.png	40.5
93	Manchester United	https://cdn.sofifa.org/teams/2/light/11.png	37.5

	Wage	Preferred Foot	International Reputation	Weak Foot	Skill Moves \
56	180.0	Left	2	3.0	4.0
60	195.0	Right	3	3.0	4.0
79	215.0	Left	3	3.0	4.0
84	205.0	Left	3	4.0	5.0
93	215.0	Right	4	3.0	4.0

	Work Rate	Body Type	Position	Jersey Number	Joined	Loaned From \
56	High/ Medium	Lean	RW	11.0	2017	NaN
60	High/ Medium	Lean	RW	10.0	2015	NaN
79	High/ Medium	Normal	RW	10.0	2015	NaN
84	Medium/ Medium	Lean	RW	26.0	2018	NaN
93	High/ High	Normal	RW	7.0	2018	NaN

	Contract	Valid Until	Height	Weight	Crossing	Finishing	HeadingAccuracy \
56		2022-01-01	172.72	141	85.0	75.0	51.0
60		2023-01-01	170.18	152	77.0	77.0	38.0
79		2023-01-01	182.88	168	82.0	82.0	50.0
84		2023-01-01	177.80	148	81.0	80.0	48.0

93	2022-01-01	170.18	163	77.0	80.0	73.0
----	------------	--------	-----	------	------	------

	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy	LongPassing	\
56	85.0	69.0	92.0	83.0	67.0	79.0	
60	84.0	67.0	88.0	70.0	63.0	69.0	
79	83.0	79.0	86.0	83.0	76.0	82.0	
84	82.0	72.0	91.0	84.0	78.0	76.0	
93	77.0	83.0	87.0	79.0	78.0	75.0	

	BallControl	Acceleration	SprintSpeed	Agility	Reactions	Balance	\
56	91.0	84.0	74.0	90.0	82.0	88.0	
60	87.0	95.0	92.0	93.0	87.0	93.0	
79	85.0	85.0	82.0	79.0	82.0	76.0	
84	90.0	88.0	83.0	93.0	77.0	88.0	
93	86.0	86.0	79.0	90.0	83.0	87.0	

	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression	\
56	70.0	50.0	78.0	48.0	72.0	58.0	
60	73.0	57.0	78.0	52.0	73.0	38.0	
79	86.0	58.0	76.0	61.0	88.0	45.0	
84	79.0	61.0	76.0	54.0	81.0	48.0	
93	84.0	87.0	83.0	72.0	81.0	79.0	

	Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
56	49.0	83.0	86.0	68.0	85.0	49.0	
60	30.0	87.0	77.0	69.0	77.0	47.0	
79	45.0	82.0	84.0	62.0	83.0	40.0	
84	39.0	80.0	81.0	73.0	86.0	45.0	
93	46.0	84.0	82.0	77.0	84.0	38.0	

	StandingTackle	SlidingTackle	GKDividing	GKHandling	GKKicking	\
56	44.0	35.0	9.0	10.0	14.0	
60	58.0	54.0	15.0	12.0	12.0	
79	42.0	39.0	13.0	9.0	6.0	
84	31.0	18.0	15.0	9.0	13.0	
93	44.0	35.0	10.0	10.0	15.0	

	GKPositioning	GKReflexes	Release	Clause
56	12.0	9.0	114.5	
60	15.0	9.0	108.8	
79	12.0	10.0	121.5	
84	11.0	6.0	74.9	
93	12.0	13.0	69.4	

```
[142]: p.Wage.mean()
```

```
[142]: 202.0
```

```
[143]: q=fifa[fifa['Position']=='RDM'].nlargest(5,['Overall'])
q
```

```
[143]:
```

	ID	Name	Age	\
45	195864	P. Pogba	25	
134	190584	Illarramendi	28	
198	193474	I. Gueye	28	
223	53302	D. De Rossi	34	
298	183498	M. Parolo	33	

	Photo	Nationality	\
45	https://cdn.sofifa.org/players/4/19/195864.png	France	
134	https://cdn.sofifa.org/players/4/19/190584.png	Spain	
198	https://cdn.sofifa.org/players/4/19/193474.png	Senegal	
223	https://cdn.sofifa.org/players/4/19/53302.png	Italy	
298	https://cdn.sofifa.org/players/4/19/183498.png	Italy	

	Flag	Overall	Potential	\
45	https://cdn.sofifa.org/flags/18.png	87	91	
134	https://cdn.sofifa.org/flags/45.png	84	84	
198	https://cdn.sofifa.org/flags/136.png	83	83	
223	https://cdn.sofifa.org/flags/27.png	83	83	
298	https://cdn.sofifa.org/flags/27.png	82	82	

	Club	Club Logo	Value	\
45	Manchester United	https://cdn.sofifa.org/teams/2/light/11.png	64.0	
134	Real Sociedad	https://cdn.sofifa.org/teams/2/light/457.png	31.0	
198	Everton	https://cdn.sofifa.org/teams/2/light/7.png	21.0	
223	Roma	https://cdn.sofifa.org/teams/2/light/52.png	8.0	
298	Lazio	https://cdn.sofifa.org/teams/2/light/46.png	9.0	

	Wage	Preferred Foot	International Reputation	Weak Foot	Skill Moves	\
45	210.0	Right	4	4.0	5.0	
134	51.0	Right	2	3.0	4.0	
198	125.0	Right	2	3.0	3.0	
223	80.0	Right	3	4.0	2.0	
298	59.0	Right	2	4.0	3.0	

	Work Rate	Body Type	Position	Jersey Number	Joined	Loaned From	\
45	High/ Low	Normal	RDM	6.0	2016	NaN	
134	Medium/ High	Normal	RDM	4.0	2015	NaN	
198	Medium/ High	Lean	RDM	17.0	2016	NaN	
223	Medium/ High	Normal	RDM	16.0	2002	NaN	
298	High/ High	Lean	RDM	16.0	2014	NaN	

	Contract Valid Until	Height	Weight	Crossing	Finishing	\
45	2021-01-01	193.04	185	80.0	73.0	

134	2023-01-01	177.80	165	68.0	72.0
198	2022-01-01	175.26	146	60.0	50.0
223	2019-01-01	182.88	183	57.0	50.0
298	2020-01-01	182.88	165	70.0	70.0

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy \
45	73.0	86.0	85.0	87.0	84.0	82.0
134	51.0	86.0	58.0	78.0	76.0	68.0
198	69.0	80.0	32.0	75.0	33.0	61.0
223	81.0	81.0	74.0	64.0	62.0	71.0
298	75.0	80.0	76.0	75.0	67.0	55.0

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions \
45	90.0	90.0	71.0	79.0	74.0	81.0
134	82.0	83.0	66.0	57.0	71.0	84.0
198	72.0	79.0	76.0	72.0	80.0	81.0
223	80.0	77.0	63.0	67.0	64.0	80.0
298	83.0	79.0	68.0	69.0	67.0	82.0

	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression \
45	64.0	90.0	83.0	88.0	89.0	81.0	78.0
134	75.0	69.0	63.0	77.0	68.0	76.0	76.0
198	80.0	80.0	87.0	89.0	70.0	66.0	84.0
223	72.0	81.0	77.0	74.0	81.0	72.0	84.0
298	71.0	87.0	77.0	88.0	77.0	86.0	80.0

	Interceptions	Positioning	Vision	Penalties	Composure	Marking \
45	66.0	81.0	87.0	81.0	87.0	66.0
134	87.0	79.0	86.0	50.0	79.0	69.0
198	87.0	67.0	67.0	54.0	80.0	84.0
223	87.0	55.0	71.0	75.0	87.0	90.0
298	80.0	82.0	78.0	45.0	78.0	78.0

	StandingTackle	SlidingTackle	GK Diving	GK Handling	GK Kicking \
45	70.0	68.0	5.0	6.0	2.0
134	83.0	80.0	15.0	7.0	11.0
198	89.0	84.0	8.0	6.0	8.0
223	82.0	80.0	10.0	7.0	13.0
298	80.0	82.0	13.0	9.0	6.0

	GK Positioning	GK Reflexes	Release Clause
45	4.0	3.0	123.2
134	14.0	12.0	65.1
198	12.0	13.0	39.9
223	10.0	9.0	13.6
298	7.0	9.0	15.3

```
[144]: q.Wage.mean()
```

```
[144]: 105.0
```

```
[145]: r=fifa[fifa['Position']=='LDM'].nlargest(5,['Overall'])
r
```

```
[145]:
```

	ID	Name	Age	Photo \
14	215914	N. Kanté	27	https://cdn.sofifa.org/players/4/19/215914.png
91	187961	Paulinho	29	https://cdn.sofifa.org/players/4/19/187961.png
119	207865	Marquinhos	24	https://cdn.sofifa.org/players/4/19/207865.png
217	176266	Lucas Leiva	31	https://cdn.sofifa.org/players/4/19/176266.png
323	228702	F. de Jong	21	https://cdn.sofifa.org/players/4/19/228702.png

	Nationality	Flag	Overall	Potential \
14	France	https://cdn.sofifa.org/flags/18.png	89	90
91	Brazil	https://cdn.sofifa.org/flags/54.png	85	85
119	Brazil	https://cdn.sofifa.org/flags/54.png	84	89
217	Brazil	https://cdn.sofifa.org/flags/54.png	83	83
323	Netherlands	https://cdn.sofifa.org/flags/34.png	81	89

	Club \
14	Chelsea
91	Guangzhou Evergrande Taobao FC
119	Paris Saint-Germain
217	Lazio
323	Ajax

	Club Logo	Value	Wage \
14	https://cdn.sofifa.org/teams/2/light/5.png	63.0	225.0
91	https://cdn.sofifa.org/teams/2/light/111839.png	37.0	235.0
119	https://cdn.sofifa.org/teams/2/light/73.png	35.5	90.0
217	https://cdn.sofifa.org/teams/2/light/46.png	17.5	64.0
323	https://cdn.sofifa.org/teams/2/light/245.png	26.0	19.0

	Preferred Foot	International Reputation	Weak Foot	Skill Moves \
14	Right	3	3.0	2.0
91	Right	3	3.0	3.0
119	Right	3	3.0	2.0
217	Right	3	3.0	3.0
323	Right	1	3.0	4.0

	Work Rate	Body Type	Position	Jersey Number	Joined	Loaned From \
14	Medium/ High	Lean	LDM	13.0	2016	NaN
91	High/ High	Lean	LDM	9.0	2018	FC Barcelona
119	Medium/ Medium	Lean	LDM	5.0	2013	NaN
217	Medium/ High	Normal	LDM	6.0	2017	NaN

323	Medium/ Medium	Lean	LDM	7.0	2015	NaN
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	Contract	Valid Until	Height	Weight	Crossing	Finishing	\
14		2023-01-01	167.64	159	68.0	65.0	
91		2019-06-30	182.88	157	64.0	81.0	
119		2022-01-01	182.88	165	72.0	33.0	
217		2020-01-01	177.80	172	63.0	62.0	
323		2022-01-01	180.34	154	75.0	52.0	

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy	\
14	54.0	86.0	56.0	79.0	49.0	49.0	
91	85.0	84.0	75.0	82.0	66.0	72.0	
119	80.0	81.0	31.0	59.0	49.0	32.0	
217	72.0	82.0	59.0	77.0	74.0	47.0	
323	64.0	87.0	64.0	86.0	74.0	61.0	

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions	\
14	81.0	80.0	82.0	78.0	82.0	93.0	
91	80.0	84.0	73.0	73.0	69.0	84.0	
119	78.0	76.0	73.0	76.0	69.0	81.0	
217	81.0	78.0	67.0	67.0	78.0	82.0	
323	82.0	88.0	74.0	76.0	84.0	83.0	

	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression	\
14	92.0	71.0	77.0	96.0	76.0	69.0	90.0	
91	66.0	83.0	90.0	92.0	81.0	80.0	81.0	
119	68.0	53.0	86.0	75.0	74.0	35.0	80.0	
217	80.0	77.0	82.0	80.0	67.0	66.0	80.0	
323	78.0	68.0	76.0	74.0	69.0	55.0	62.0	

	Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
14	92.0	71.0	79.0	54.0	85.0	90.0	
91	81.0	84.0	78.0	71.0	80.0	75.0	
119	84.0	46.0	51.0	31.0	79.0	85.0	
217	87.0	66.0	81.0	61.0	86.0	82.0	
323	78.0	63.0	85.0	45.0	86.0	69.0	

	StandingTackle	SlidingTackle	GKDividing	GKHandling	GKKicking	\
14	91.0	85.0	15.0	12.0	10.0	
91	81.0	73.0	16.0	16.0	11.0	
119	87.0	87.0	6.0	6.0	12.0	
217	82.0	78.0	10.0	8.0	8.0	
323	73.0	70.0	7.0	13.0	10.0	

	GKPositioning	GKReflexes	Release Clause
14	7.0	10.0	121.3
91	6.0	8.0	1.1

119	10.0	13.0	68.3
217	5.0	6.0	29.8
323	10.0	9.0	41.6

```
[146]: r.Wage.mean()
```

```
[146]: 126.6
```

```
[147]: s=fifa[fifa['Position']=='LS'].nlargest(5,['Overall'])
s
```

```
[147]:
```

	ID	Name	Age	\
21	179813	E. Cavani	31	
38	167664	G. Higuaín	30	
100	179844	Diego Costa	29	
151	143076	A. Gómez	30	
174	208093	Gerard Moreno	26	

	Photo	Nationality	\
21	https://cdn.sofifa.org/players/4/19/179813.png	Uruguay	
38	https://cdn.sofifa.org/players/4/19/167664.png	Argentina	
100	https://cdn.sofifa.org/players/4/19/179844.png	Spain	
151	https://cdn.sofifa.org/players/4/19/143076.png	Argentina	
174	https://cdn.sofifa.org/players/4/19/208093.png	Spain	

	Flag	Overall	Potential	\
21	https://cdn.sofifa.org/flags/60.png	89	89	
38	https://cdn.sofifa.org/flags/52.png	88	88	
100	https://cdn.sofifa.org/flags/45.png	85	85	
151	https://cdn.sofifa.org/flags/52.png	84	84	
174	https://cdn.sofifa.org/flags/45.png	83	85	

	Club	Club Logo	Value	\
21	Paris Saint-Germain	https://cdn.sofifa.org/teams/2/light/73.png	60.0	
38	Milan	https://cdn.sofifa.org/teams/2/light/47.png	57.0	
100	Atlético Madrid	https://cdn.sofifa.org/teams/2/light/240.png	38.5	
151	Atalanta	https://cdn.sofifa.org/teams/2/light/39.png	30.0	
174	Villarreal CF	https://cdn.sofifa.org/teams/2/light/483.png	32.0	

	Wage	Preferred Foot	International Reputation	Weak Foot	Skill Moves	\
21	200.0	Right	4	4.0	3.0	
38	245.0	Right	4	4.0	3.0	
100	100.0	Right	4	4.0	2.0	
151	53.0	Right	3	4.0	4.0	
174	53.0	Left	1	4.0	4.0	

	Work Rate	Body Type	Position	Jersey Number	Joined	Loaned From	\
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21	High/ High	Lean	LS	21.0	2013	NaN
38	High/ Medium	Normal	LS	9.0	2018	Juventus
100	High/ Medium	Normal	LS	19.0	2018	NaN
151	High/ Medium	Normal	LS	10.0	2014	NaN
174	High/ Medium	Lean	LS	7.0	2018	NaN

	Contract Valid Until	Height	Weight	Crossing	Finishing	\
21	2020-01-01	185.42	170	70.0	89.0	
38	2019-06-30	185.42	196	68.0	92.0	
100	2021-01-01	187.96	190	65.0	87.0	
151	2022-01-01	165.10	150	82.0	76.0	
174	2023-01-01	180.34	170	61.0	83.0	

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy	\
21	89.0	78.0	90.0	80.0	77.0	76.0	
38	80.0	75.0	90.0	84.0	74.0	62.0	
100	82.0	65.0	81.0	77.0	62.0	59.0	
151	38.0	82.0	72.0	89.0	79.0	79.0	
174	80.0	78.0	79.0	78.0	71.0	56.0	

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions	\
21	52.0	82.0	75.0	76.0	77.0	91.0	
38	59.0	85.0	73.0	73.0	75.0	86.0	
100	52.0	83.0	74.0	76.0	58.0	85.0	
151	74.0	87.0	94.0	86.0	92.0	83.0	
174	56.0	81.0	77.0	80.0	70.0	82.0	

	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression	\
21	59.0	87.0	88.0	92.0	78.0	79.0	84.0	
38	69.0	86.0	79.0	70.0	85.0	80.0	50.0	
100	53.0	83.0	64.0	76.0	92.0	74.0	93.0	
151	94.0	76.0	70.0	75.0	48.0	79.0	56.0	
174	69.0	81.0	72.0	72.0	74.0	77.0	55.0	

	Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
21	48.0	93.0	77.0	85.0	82.0	52.0	
38	20.0	92.0	74.0	70.0	86.0	35.0	
100	40.0	87.0	74.0	75.0	83.0	58.0	
151	40.0	81.0	85.0	72.0	84.0	50.0	
174	40.0	83.0	58.0	73.0	72.0	43.0	

	StandingTackle	SlidingTackle	GK Diving	GK Handling	GK Kicking	\
21	45.0	39.0	12.0	5.0	13.0	
38	22.0	18.0	5.0	12.0	7.0	
100	39.0	34.0	11.0	13.0	12.0	
151	30.0	34.0	8.0	11.0	12.0	
174	41.0	41.0	15.0	12.0	7.0	

	GKPositioning	GKReflexes	Release Clause
21	13.0	10.0	111
38	5.0	10.0	1.1
100	8.0	11.0	78.9
151	9.0	6.0	51
174	12.0	10.0	69.6

```
[148]: s.Wage.mean()
```

```
[148]: 130.2
```

```
[149]: t=fifa[fifa['Position']=='RS'].nlargest(5,['Overall'])
t
```

```
[149]:      ID      Name  Age  \
7      176580    L. Suárez  31
109    41236  Z. Ibrahimović  36
148    167397      Falcao  32
267    199451  W. Ben Yedder  27
357    202685    S. Zaza  27
```

	Photo	Nationality
7	https://cdn.sofifa.org/players/4/19/176580.png	Uruguay
109	https://cdn.sofifa.org/players/4/19/41236.png	Sweden
148	https://cdn.sofifa.org/players/4/19/167397.png	Colombia
267	https://cdn.sofifa.org/players/4/19/199451.png	France
357	https://cdn.sofifa.org/players/4/19/202685.png	Italy

	Flag	Overall	Potential	Club
7	https://cdn.sofifa.org/flags/60.png	91	91	FC Barcelona
109	https://cdn.sofifa.org/flags/46.png	85	85	LA Galaxy
148	https://cdn.sofifa.org/flags/56.png	84	84	AS Monaco
267	https://cdn.sofifa.org/flags/18.png	82	82	Sevilla FC
357	https://cdn.sofifa.org/flags/27.png	81	82	Torino

	Club Logo	Value	Wage
7	https://cdn.sofifa.org/teams/2/light/241.png	80.0	455.0
109	https://cdn.sofifa.org/teams/2/light/697.png	14.0	15.0
148	https://cdn.sofifa.org/teams/2/light/69.png	25.0	115.0
267	https://cdn.sofifa.org/teams/2/light/481.png	23.5	28.0
357	https://cdn.sofifa.org/teams/2/light/54.png	21.0	48.0

	Preferred Foot	International Reputation	Weak Foot	Skill Moves
7	Right	5	4.0	3.0
109	Right	5	4.0	5.0
148	Right	3	4.0	3.0

267	Right	2	5.0	4.0
357	Left	2	3.0	4.0

	Work Rate	Body Type	Position	Jersey Number	Joined	Loaned From	\
7	High/ Medium	Normal	RS	9.0	2014	NaN	
109	Medium/ Low	Normal	RS	9.0	2018	NaN	
148	High/ Medium	Normal	RS	9.0	2013	NaN	
267	High/ High	Normal	RS	9.0	2016	NaN	
357	High/ High	Normal	RS	11.0	2018	Valencia CF	

	Contract Valid Until	Height	Weight	Crossing	Finishing	\
7	2021-01-01	182.88	190	77.0	93.0	
109	2022-01-01	195.58	209	73.0	86.0	
148	2020-01-01	177.80	159	55.0	86.0	
267	2021-01-01	170.18	150	74.0	84.0	
357	2019-06-30	185.42	185	52.0	80.0	

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy	\
7	77.0	82.0	88.0	87.0	86.0	84.0	
109	83.0	79.0	86.0	79.0	82.0	82.0	
148	89.0	79.0	84.0	75.0	83.0	73.0	
267	74.0	78.0	78.0	84.0	80.0	76.0	
357	79.0	71.0	81.0	77.0	71.0	56.0	

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions	\
7	64.0	90.0	86.0	75.0	82.0	92.0	
109	73.0	84.0	58.0	59.0	75.0	82.0	
148	58.0	82.0	69.0	66.0	76.0	85.0	
267	66.0	83.0	87.0	83.0	91.0	83.0	
357	45.0	79.0	79.0	79.0	76.0	78.0	

	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression	\
7	83.0	86.0	69.0	90.0	83.0	85.0	87.0	
109	39.0	90.0	68.0	61.0	86.0	82.0	84.0	
148	75.0	79.0	91.0	68.0	75.0	80.0	75.0	
267	87.0	79.0	81.0	69.0	60.0	69.0	55.0	
357	69.0	85.0	89.0	76.0	88.0	72.0	87.0	

	Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
7	41.0	92.0	84.0	85.0	85.0	62.0	
109	20.0	85.0	79.0	89.0	90.0	28.0	
148	41.0	88.0	70.0	81.0	87.0	39.0	
267	44.0	87.0	79.0	76.0	84.0	34.0	
357	40.0	83.0	66.0	79.0	72.0	54.0	

	StandingTackle	SlidingTackle	GKDividing	GKHandling	GKKicking	\
7	45.0	38.0	27.0	25.0	31.0	

109	37.0	24.0	13.0	15.0	10.0
148	42.0	19.0	10.0	13.0	6.0
267	33.0	26.0	6.0	13.0	9.0
357	42.0	50.0	7.0	13.0	9.0

	GKPositioning	GKReflexes	Release	Clause
7	33.0	37.0		164
109	9.0	12.0		21
148	9.0	5.0		47.5
267	7.0	7.0		49.4
357	7.0	9.0		1.1

```
[150]: t.Wage.mean()
```

```
[150]: 132.2
```

```
[151]: u=fifa[fifa['Position']=='RWB'].nlargest(5,['Overall'])
u
```

```
[151]:
```

	ID	Name	Age	\
450	207862	M. Ginter	24	
465	203605	P. Kadeřábek	26	
517	180216	S. Coleman	29	
652	197083	D. Caligiuri	30	
766	221342	Pablo Maffeo	20	

	Photo	Nationality	\
450	https://cdn.sofifa.org/players/4/19/207862.png	Germany	
465	https://cdn.sofifa.org/players/4/19/203605.png	Czech Republic	
517	https://cdn.sofifa.org/players/4/19/180216.png	Republic of Ireland	
652	https://cdn.sofifa.org/players/4/19/197083.png	Italy	
766	https://cdn.sofifa.org/players/4/19/221342.png	Spain	

	Flag	Overall	Potential	\
450	https://cdn.sofifa.org/flags/21.png	80	82	
465	https://cdn.sofifa.org/flags/12.png	80	81	
517	https://cdn.sofifa.org/flags/25.png	80	80	
652	https://cdn.sofifa.org/flags/27.png	79	79	
766	https://cdn.sofifa.org/flags/45.png	78	86	

	Club	Club Logo	\
450	Borussia Mönchengladbach	https://cdn.sofifa.org/teams/2/light/23.png	
465	TSG 1899 Hoffenheim	https://cdn.sofifa.org/teams/2/light/10029.png	
517	Everton	https://cdn.sofifa.org/teams/2/light/7.png	
652	FC Schalke 04	https://cdn.sofifa.org/teams/2/light/34.png	
766	VfB Stuttgart	https://cdn.sofifa.org/teams/2/light/36.png	

	Value	Wage	Preferred Foot	International Reputation	Weak Foot	\
450	15.5	28.0	Right		2	3.0
465	14.0	39.0	Right		2	2.0
517	11.0	97.0	Right		2	3.0
652	9.0	33.0	Right		2	4.0
766	13.0	24.0	Right		1	3.0

	Skill Moves	Work Rate	Body Type	Position	Jersey Number	Joined	\
450	2.0	Medium/ Medium	Normal	RWB	4.0	2017	
465	3.0	High/ Medium	Normal	RWB	2.0	2015	
517	3.0	High/ High	Normal	RWB	2.0	2009	
652	3.0	Medium/ Medium	Normal	RWB	18.0	2017	
766	3.0	Medium/ Medium	Lean	RWB	7.0	2018	

	Loaned From	Contract Valid Until	Height	Weight	Crossing	Finishing	\
450	NaN	2021-01-01	187.96	183	68.0	55.0	
465	NaN	2023-01-01	182.88	179	86.0	28.0	
517	NaN	2022-01-01	177.80	148	82.0	61.0	
652	NaN	2020-01-01	182.88	176	83.0	72.0	
766	NaN	2023-01-01	172.72	154	79.0	53.0	

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy	\
450	85.0	75.0	53.0	62.0	44.0	42.0	
465	71.0	77.0	57.0	76.0	57.0	52.0	
517	69.0	78.0	64.0	79.0	42.0	53.0	
652	65.0	78.0	68.0	81.0	80.0	61.0	
766	68.0	78.0	21.0	80.0	71.0	34.0	

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions	\
450	70.0	72.0	55.0	69.0	55.0	79.0	
465	69.0	77.0	78.0	78.0	66.0	82.0	
517	70.0	78.0	77.0	75.0	73.0	80.0	
652	70.0	80.0	77.0	78.0	76.0	79.0	
766	63.0	81.0	87.0	86.0	82.0	64.0	

	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression	\
450	49.0	74.0	65.0	74.0	81.0	46.0	69.0	
465	66.0	66.0	69.0	86.0	79.0	41.0	78.0	
517	74.0	75.0	71.0	77.0	69.0	66.0	78.0	
652	74.0	78.0	76.0	85.0	70.0	81.0	74.0	
766	84.0	57.0	61.0	74.0	65.0	52.0	65.0	

	Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
450	80.0	55.0	68.0	67.0	71.0	82.0	
465	72.0	72.0	68.0	54.0	78.0	72.0	
517	80.0	75.0	70.0	55.0	82.0	78.0	
652	76.0	75.0	77.0	83.0	76.0	70.0	

766	69.0	67.0	64.0	37.0	62.0	76.0
-----	------	------	------	------	------	------

	StandingTackle	SlidingTackle	GK Diving	GK Handling	GK Kicking	\
450	84.0	77.0	12.0	10.0	6.0	
465	79.0	76.0	10.0	11.0	14.0	
517	84.0	82.0	5.0	15.0	10.0	
652	72.0	68.0	12.0	10.0	13.0	
766	81.0	80.0	10.0	7.0	14.0	

	GK Positioning	GK Reflexes	Release Clause
450	8.0	10.0	27.5
465	13.0	7.0	24.9
517	13.0	7.0	20.9
652	6.0	14.0	15.3
766	12.0	15.0	24.7

```
[152]: u.Wage.mean()
```

```
[152]: 44.2
```

```
[153]: v=fifa[fifa['Position']=='LWB'].nlargest(5,['Overall'])
v
```

```
[153]:
```

	ID	Name	Age	Photo	\
474	200536	N. Schulz	25	https://cdn.sofifa.org/players/4/19/200536.png	
581	223682	Granell	29	https://cdn.sofifa.org/players/4/19/223682.png	
601	210455	Jonny	24	https://cdn.sofifa.org/players/4/19/210455.png	
605	208334	J. Hector	28	https://cdn.sofifa.org/players/4/19/208334.png	
787	214026	J. Mojica	25	https://cdn.sofifa.org/players/4/19/214026.png	

	Nationality	Flag	Overall	Potential	\
474	Germany	https://cdn.sofifa.org/flags/21.png	80	81	
581	Spain	https://cdn.sofifa.org/flags/45.png	79	79	
601	Spain	https://cdn.sofifa.org/flags/45.png	79	83	
605	Germany	https://cdn.sofifa.org/flags/21.png	79	79	
787	Colombia	https://cdn.sofifa.org/flags/56.png	78	81	

	Club	Club Logo	\
474	TSG 1899 Hoffenheim	https://cdn.sofifa.org/teams/2/light/10029.png	
581	Girona FC	https://cdn.sofifa.org/teams/2/light/110062.png	
601	Wolverhampton Wanderers	https://cdn.sofifa.org/teams/2/light/110.png	
605	1. FC Köln	https://cdn.sofifa.org/teams/2/light/31.png	
787	Girona FC	https://cdn.sofifa.org/teams/2/light/110062.png	

	Value	Wage	Preferred Foot	International Reputation	Weak Foot	\
474	14.5	37.0	Left	1	2.0	
581	12.0	37.0	Left	1	4.0	

601	13.5	43.0	Right	2	3.0
605	10.0	26.0	Left	3	3.0
787	10.5	28.0	Left	1	2.0

	Skill Moves	Work Rate	Body Type	Position	Jersey Number	Joined \
474	3.0	High/ Medium	Normal	LWB	16.0	2017
581	3.0	Medium/ Medium	Normal	LWB	6.0	2014
601	3.0	High/ High	Normal	LWB	19.0	2018
605	3.0	Medium/ Medium	Normal	LWB	3.0	2012
787	3.0	High/ Medium	Lean	LWB	3.0	2018

	Loaned From	Contract Valid Until	Height	Weight	Crossing \
474	NaN	2020-01-01	180.34	172	83.0
581	NaN	2021-01-01	175.26	154	73.0
601	Atlético Madrid	2019-06-30	170.18	154	77.0
605	NaN	2023-01-01	185.42	165	79.0
787	NaN	2022-01-01	185.42	161	79.0

	Finishing	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve \
474	48.0	54.0	78.0	49.0	79.0	59.0
581	74.0	55.0	83.0	56.0	76.0	80.0
601	34.0	70.0	73.0	44.0	73.0	60.0
605	55.0	71.0	78.0	51.0	74.0	65.0
787	62.0	55.0	78.0	43.0	78.0	74.0

	FKAccuracy	LongPassing	BallControl	Acceleration	SprintSpeed	Agility \
474	42.0	70.0	78.0	88.0	86.0	76.0
581	76.0	79.0	80.0	65.0	60.0	71.0
601	54.0	59.0	76.0	77.0	78.0	72.0
605	65.0	74.0	77.0	75.0	77.0	67.0
787	68.0	70.0	79.0	89.0	90.0	74.0

	Reactions	Balance	ShotPower	Jumping	Stamina	Strength	LongShots \
474	78.0	73.0	65.0	60.0	79.0	76.0	40.0
581	72.0	77.0	73.0	66.0	69.0	64.0	81.0
601	71.0	78.0	66.0	75.0	83.0	64.0	45.0
605	80.0	67.0	69.0	66.0	82.0	76.0	61.0
787	70.0	61.0	80.0	73.0	70.0	70.0	61.0

	Aggression	Interceptions	Positioning	Vision	Penalties	Composure \
474	72.0	74.0	73.0	67.0	56.0	75.0
581	73.0	74.0	74.0	78.0	68.0	69.0
601	82.0	80.0	53.0	55.0	46.0	70.0
605	71.0	81.0	62.0	72.0	65.0	78.0
787	75.0	72.0	69.0	65.0	67.0	69.0

Marking	StandingTackle	SlidingTackle	GK Diving	GK Handling	GK Kicking \
---------	----------------	---------------	-----------	-------------	--------------

474	74.0	76.0	77.0	13.0	9.0	15.0
581	55.0	75.0	65.0	6.0	13.0	13.0
601	77.0	79.0	82.0	7.0	10.0	12.0
605	76.0	79.0	79.0	9.0	10.0	10.0
787	67.0	78.0	79.0	13.0	8.0	14.0

	GKPositioning	GKReflexes	Release Clause
474	7.0	14.0	25.7
581	14.0	14.0	25.2
601	10.0	6.0	1.1
605	12.0	14.0	15
787	9.0	15.0	22.8

```
[154]: v.Wage.mean()
```

```
[154]: 34.2
```

```
[155]: x=fifa[fifa['Position']=='CF'].nlargest(5,['Overall'])
x
```

```
[155]:      ID      Name  Age \
271  198706  Luis Alberto  25
293  184431   S. Giovinco  31
350  205175    A. Milik   24
382  187072   L. Stindl   29
407  144622   Raffael    33
```

	Photo	Nationality	\
271	https://cdn.sofifa.org/players/4/19/198706.png	Spain	
293	https://cdn.sofifa.org/players/4/19/184431.png	Italy	
350	https://cdn.sofifa.org/players/4/19/205175.png	Poland	
382	https://cdn.sofifa.org/players/4/19/187072.png	Germany	
407	https://cdn.sofifa.org/players/4/19/144622.png	Brazil	

	Flag	Overall	Potential	\
271	https://cdn.sofifa.org/flags/45.png	82	85	
293	https://cdn.sofifa.org/flags/27.png	82	82	
350	https://cdn.sofifa.org/flags/37.png	81	88	
382	https://cdn.sofifa.org/flags/21.png	81	81	
407	https://cdn.sofifa.org/flags/54.png	81	81	

	Club	\
271	Lazio	
293	Toronto FC	
350	Napoli	
382	Borussia Mönchengladbach	
407	Borussia Mönchengladbach	

	Club Logo	Value	Wage	\
271	https://cdn.sofifa.org/teams/2/light/46.png	28.5	67.0	
293	https://cdn.sofifa.org/teams/2/light/111651.png	20.0	15.0	
350	https://cdn.sofifa.org/teams/2/light/48.png	25.5	71.0	
382	https://cdn.sofifa.org/teams/2/light/23.png	18.0	43.0	
407	https://cdn.sofifa.org/teams/2/light/23.png	11.0	41.0	

	Preferred Foot	International Reputation	Weak Foot	Skill Moves	\
271	Right	2	3.0	4.0	
293	Right	2	4.0	4.0	
350	Left	3	3.0	4.0	
382	Right	2	4.0	4.0	
407	Right	2	4.0	4.0	

	Work Rate	Body Type	Position	Jersey Number	Joined	Loaned From	\
271	High/ Medium	Lean	CF	10.0	2016	NaN	
293	High/ Medium	Normal	CF	21.0	2015	NaN	
350	Medium/ Medium	Lean	CF	7.0	2016	NaN	
382	Medium/ Medium	Normal	CF	13.0	2015	NaN	
407	High/ Medium	Lean	CF	11.0	2013	NaN	

	Contract Valid Until	Height	Weight	Crossing	Finishing	\
271	2022-01-01	182.88	163	76.0	80.0	
293	2019-01-01	162.56	134	72.0	80.0	
350	2021-01-01	185.42	172	58.0	88.0	
382	2021-01-01	180.34	176	76.0	79.0	
407	2019-01-01	175.26	152	78.0	78.0	

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy	\
271	49.0	88.0	76.0	86.0	86.0	81.0	
293	34.0	80.0	75.0	86.0	90.0	93.0	
350	78.0	63.0	76.0	74.0	71.0	74.0	
382	64.0	85.0	86.0	78.0	79.0	69.0	
407	63.0	83.0	83.0	87.0	79.0	77.0	

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions	\
271	87.0	88.0	77.0	72.0	79.0	83.0	
293	76.0	86.0	88.0	80.0	94.0	80.0	
350	62.0	78.0	69.0	74.0	68.0	75.0	
382	69.0	83.0	74.0	67.0	70.0	84.0	
407	76.0	85.0	74.0	66.0	83.0	82.0	

	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression	\
271	74.0	77.0	54.0	73.0	67.0	77.0	29.0	
293	91.0	80.0	34.0	77.0	42.0	81.0	75.0	
350	63.0	85.0	62.0	73.0	78.0	82.0	67.0	

382	78.0	81.0	73.0	78.0	69.0	83.0	74.0
407	83.0	77.0	70.0	62.0	62.0	74.0	66.0

	Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
271	28.0	81.0	87.0	56.0	72.0	44.0	
293	26.0	82.0	81.0	73.0	82.0	23.0	
350	36.0	81.0	60.0	79.0	72.0	35.0	
382	60.0	84.0	83.0	80.0	83.0	59.0	
407	45.0	82.0	81.0	72.0	79.0	43.0	

	StandingTackle	SlidingTackle	GK Diving	GK Handling	GK Kicking	\
271	25.0	18.0	6.0	8.0	6.0	
293	29.0	28.0	6.0	3.0	6.0	
350	34.0	32.0	9.0	16.0	16.0	
382	61.0	50.0	7.0	10.0	13.0	
407	42.0	31.0	12.0	10.0	5.0	

	GK Positioning	GK Reflexes	Release Clause
271	12.0	11.0	50.6
293	3.0	3.0	30
350	15.0	6.0	48.5
382	11.0	12.0	30.6
407	13.0	14.0	18.7

```
[156]: x.Wage.mean()
```

```
[156]: 47.4
```

```
[157]: y=fifa[fifa['Position']=='LAM'].nlargest(5,['Overall'])
y
```

```
[157]:
```

	ID	Name	Age	\
28	198710	J. Rodríguez	26	
365	199434	D. Tadić	29	
1587	230408	Fabrio Farinha	26	
2247	230487	Leo Caldeirinha	34	
2342	230276	Nicolás Formido	30	

	Photo	Nationality	\
28	https://cdn.sofifa.org/players/4/19/198710.png	Colombia	
365	https://cdn.sofifa.org/players/4/19/199434.png	Serbia	
1587	https://cdn.sofifa.org/players/4/19/230408.png	Brazil	
2247	https://cdn.sofifa.org/players/4/19/230487.png	Brazil	
2342	https://cdn.sofifa.org/players/4/19/230276.png	Brazil	

	Flag	Overall	Potential	\
28	https://cdn.sofifa.org/flags/56.png	88	89	

365	https://cdn.sofifa.org/flags/51.png	81	81
1587	https://cdn.sofifa.org/flags/54.png	75	75
2247	https://cdn.sofifa.org/flags/54.png	74	74
2342	https://cdn.sofifa.org/flags/54.png	74	74

	Club	Club Logo	Value \
28	FC Bayern München	https://cdn.sofifa.org/teams/2/light/21.png	69.5
365	Ajax	https://cdn.sofifa.org/teams/2/light/245.png	17.5
1587	Atlético Mineiro	https://cdn.sofifa.org/teams/2/light/1035.png	7.0
2247	Vitória	https://cdn.sofifa.org/teams/2/light/1719.png	2.8
2342	Internacional	https://cdn.sofifa.org/teams/2/light/1048.png	5.5

	Wage	Preferred Foot	International Reputation	Weak Foot	Skill Moves \
28	315.0	Left	4	3.0	4.0
365	26.0	Left	3	2.0	4.0
1587	31.0	Left	1	3.0	4.0
2247	13.0	Left	1	3.0	4.0
2342	23.0	Left	1	4.0	4.0

	Work Rate	Body Type	Position	Jersey Number	Joined	Loaned From \
28	Medium/ Medium	Normal	LAM	10.0	2018	Real Madrid
365	Medium/ Low	Normal	LAM	10.0	2018	NaN
1587	High/ Medium	Normal	LAM	8.0	2018	NaN
2247	Medium/ Medium	Normal	LAM	8.0	2018	NaN
2342	Medium/ Medium	Normal	LAM	7.0	2018	NaN

	Contract Valid Until	Height	Weight	Crossing	Finishing \
28	2019-06-30	180.34	172	90.0	83.0
365	2022-01-01	180.34	168	83.0	74.0
1587	2021-01-01	177.80	159	75.0	65.0
2247	2021-01-01	175.26	165	75.0	72.0
2342	2021-01-01	182.88	170	74.0	57.0

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy \
28	62.0	89.0	90.0	85.0	89.0	86.0
365	63.0	81.0	73.0	85.0	83.0	76.0
1587	58.0	77.0	66.0	77.0	70.0	62.0
2247	77.0	73.0	61.0	75.0	79.0	76.0
2342	71.0	75.0	55.0	74.0	81.0	76.0

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions \
28	83.0	90.0	73.0	67.0	83.0	85.0
365	77.0	86.0	69.0	68.0	82.0	78.0
1587	74.0	75.0	74.0	75.0	82.0	73.0
2247	64.0	75.0	76.0	69.0	71.0	70.0
2342	73.0	75.0	75.0	67.0	77.0	78.0

	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression	\
28	76.0	86.0	54.0	70.0	68.0	92.0	64.0	
365	80.0	69.0	64.0	69.0	62.0	65.0	56.0	
1587	62.0	55.0	64.0	58.0	60.0	57.0	47.0	
2247	81.0	72.0	74.0	72.0	64.0	77.0	61.0	
2342	62.0	71.0	56.0	67.0	74.0	75.0	54.0	

	Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
28	55.0	80.0	89.0	81.0	87.0	52.0	
365	31.0	75.0	85.0	71.0	82.0	46.0	
1587	44.0	67.0	77.0	64.0	76.0	23.0	
2247	22.0	72.0	76.0	65.0	76.0	25.0	
2342	54.0	73.0	75.0	69.0	72.0	18.0	

	StandingTackle	SlidingTackle	GK Diving	GK Handling	GK Kicking	\
28	41.0	44.0	15.0	15.0	15.0	
365	34.0	26.0	11.0	11.0	14.0	
1587	56.0	48.0	8.0	15.0	11.0	
2247	24.0	22.0	18.0	16.0	13.0	
2342	29.0	21.0	9.0	8.0	8.0	

	GK Positioning	GK Reflexes	Release	Clause
28	5.0	14.0		1.1
365	9.0	16.0		24.5
1587	7.0	15.0		13.3
2247	15.0	15.0		5.4
2342	7.0	12.0		10.5

```
[158]: y.Wage.mean()
```

```
[158]: 81.6
```

```
[159]: z=fifa[fifa['Position']=='RAM'].nlargest(5,['Overall'])
z
```

```
[159]:
```

	ID	Name	Age	\
129	193082	J. Cuadrado	30	
171	208670	H. Ziyech	25	
1705	230465	Allan Bardinho	26	
2242	230483	Jacson Zonta	34	
2322	230267	Sebas Couteira	30	

	Photo	Nationality	\
129	https://cdn.sofifa.org/players/4/19/193082.png	Colombia	
171	https://cdn.sofifa.org/players/4/19/208670.png	Morocco	
1705	https://cdn.sofifa.org/players/4/19/230465.png	Brazil	
2242	https://cdn.sofifa.org/players/4/19/230483.png	Brazil	

2322 <https://cdn.sofifa.org/players/4/19/230267.png> Brazil

	Flag	Overall	Potential	\
129	https://cdn.sofifa.org/flags/56.png	84	84	
171	https://cdn.sofifa.org/flags/129.png	83	86	
1705	https://cdn.sofifa.org/flags/54.png	75	75	
2242	https://cdn.sofifa.org/flags/54.png	74	74	
2322	https://cdn.sofifa.org/flags/54.png	74	74	

	Club	Club Logo	\
129	Juventus	https://cdn.sofifa.org/teams/2/light/45.png	
171	Ajax	https://cdn.sofifa.org/teams/2/light/245.png	
1705	Botafogo	https://cdn.sofifa.org/teams/2/light/517.png	
2242	Vitória	https://cdn.sofifa.org/teams/2/light/1719.png	
2322	Atlético Paranaense	https://cdn.sofifa.org/teams/2/light/1039.png	

	Value	Wage	Preferred Foot	International Reputation	Weak Foot	\
129	29.5	150.0	Right	3	3.0	
171	32.5	28.0	Left	3	2.0	
1705	7.0	22.0	Left	1	4.0	
2242	2.8	13.0	Right	1	4.0	
2322	5.5	14.0	Right	1	4.0	

	Skill Moves	Work Rate	Body Type	Position	Jersey Number	Joined	\
129	5.0	High/ Medium	Lean	RAM	11.0	2015	
171	4.0	High/ High	Lean	RAM	22.0	2016	
1705	4.0	Medium/ Medium	Stocky	RAM	7.0	2018	
2242	3.0	Medium/ Medium	Normal	RAM	7.0	2018	
2322	4.0	Medium/ Medium	Lean	RAM	8.0	2018	

	Loaned From	Contract Valid Until	Height	Weight	Crossing	Finishing	\
129	NaN	2020-01-01	177.80	159	80.0	67.0	
171	NaN	2021-01-01	180.34	143	84.0	68.0	
1705	NaN	2021-01-01	175.26	159	73.0	71.0	
2242	NaN	2021-01-01	180.34	163	74.0	61.0	
2322	NaN	2021-01-01	177.80	154	76.0	70.0	

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy	\
129	58.0	80.0	70.0	90.0	78.0	69.0	
171	53.0	86.0	77.0	83.0	90.0	78.0	
1705	44.0	75.0	51.0	77.0	56.0	55.0	
2242	51.0	72.0	55.0	77.0	83.0	75.0	
2322	54.0	76.0	67.0	74.0	67.0	76.0	

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions	\
129	69.0	85.0	89.0	93.0	91.0	80.0	
171	89.0	83.0	76.0	74.0	85.0	82.0	

1705	76.0	77.0	66.0	68.0	82.0	66.0
2242	61.0	71.0	81.0	71.0	72.0	77.0
2322	59.0	76.0	81.0	77.0	64.0	74.0

	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression	\
129	82.0	84.0	75.0	78.0	61.0	80.0	78.0	
171	78.0	80.0	38.0	86.0	59.0	75.0	71.0	
1705	81.0	66.0	46.0	61.0	55.0	70.0	31.0	
2242	70.0	57.0	55.0	66.0	67.0	62.0	45.0	
2322	70.0	52.0	67.0	48.0	52.0	52.0	46.0	

	Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
129	62.0	78.0	76.0	65.0	80.0	63.0	
171	62.0	75.0	88.0	73.0	83.0	52.0	
1705	52.0	72.0	77.0	72.0	71.0	23.0	
2242	45.0	76.0	77.0	71.0	66.0	31.0	
2322	38.0	74.0	73.0	57.0	71.0	32.0	

	StandingTackle	SlidingTackle	GK Diving	GK Handling	GK Kicking	\
129	70.0	74.0	5.0	5.0	13.0	
171	66.0	36.0	11.0	7.0	11.0	
1705	33.0	32.0	12.0	8.0	17.0	
2242	21.0	22.0	8.0	14.0	9.0	
2322	52.0	41.0	15.0	13.0	12.0	

	GK Positioning	GK Reflexes	Release	Clause
129	6.0	9.0	48.7	
171	8.0	14.0	47.9	
1705	8.0	15.0	13.3	
2242	9.0	12.0	5.4	
2322	10.0	9.0	10.5	

```
[160]: z.Wage.mean()
```

```
[160]: 45.4
```

```
[161]: ab=fifa[fifa['Position']=='RF'].nlargest(5,['Overall'])
ab
```

```
[161]:
```

	ID	Name	Age	\
0	158023	L. Messi	31	
50	175943	D. Mertens	31	
528	172114	D. Valeri	32	
890	150516	L. Podolski	33	
1774	201313	C. Ciano	28	

Photo Nationality \

0	https://cdn.sofifa.org/players/4/19/158023.png	Argentina
50	https://cdn.sofifa.org/players/4/19/175943.png	Belgium
528	https://cdn.sofifa.org/players/4/19/172114.png	Argentina
890	https://cdn.sofifa.org/players/4/19/150516.png	Germany
1774	https://cdn.sofifa.org/players/4/19/201313.png	Italy

	Flag	Overall	Potential	\
0	https://cdn.sofifa.org/flags/52.png	94	94	
50	https://cdn.sofifa.org/flags/7.png	87	87	
528	https://cdn.sofifa.org/flags/52.png	80	80	
890	https://cdn.sofifa.org/flags/21.png	78	78	
1774	https://cdn.sofifa.org/flags/27.png	75	75	

	Club	Club Logo	\
0	FC Barcelona	https://cdn.sofifa.org/teams/2/light/241.png	
50	Napoli	https://cdn.sofifa.org/teams/2/light/48.png	
528	Portland Timbers	https://cdn.sofifa.org/teams/2/light/111140.png	
890	Vissel Kobe	https://cdn.sofifa.org/teams/2/light/101146.png	
1774	Frosinone	https://cdn.sofifa.org/teams/2/light/111657.png	

	Value	Wage	Preferred Foot	International Reputation	Weak Foot	\
0	110.5	565.0	Left	5	4.0	
50	45.0	135.0	Right	3	4.0	
528	11.5	12.0	Right	2	3.0	
890	6.5	11.0	Left	3	3.0	
1774	6.5	17.0	Left	1	4.0	

	Skill Moves	Work Rate	Body Type	Position	Jersey Number	Joined	\
0	4.0	Medium/ Medium	Messi	RF	10.0	2004	
50	4.0	High/ Low	Normal	RF	14.0	2013	
528	3.0	High/ Medium	Lean	RF	8.0	2013	
890	4.0	Medium/ Low	Normal	RF	10.0	2017	
1774	4.0	High/ Medium	Normal	RF	28.0	2017	

	Loaned From	Contract Valid Until	Height	Weight	Crossing	Finishing	\
0	NaN	2021-01-01	170.18	159	84.0	95.0	
50	NaN	2020-01-01	170.18	134	77.0	86.0	
528	NaN	2018-01-01	177.80	165	78.0	80.0	
890	NaN	2019-01-01	182.88	183	75.0	77.0	
1774	NaN	2021-01-01	175.26	161	72.0	70.0	

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy	\
0	70.0	90.0	86.0	97.0	93.0	94.0	
50	35.0	82.0	70.0	91.0	82.0	79.0	
528	70.0	79.0	75.0	78.0	80.0	79.0	
890	66.0	76.0	88.0	78.0	80.0	75.0	
1774	60.0	73.0	67.0	76.0	75.0	76.0	

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions	\
0	87.0	96.0	91.0	86.0	91.0	95.0	
50	74.0	89.0	93.0	85.0	94.0	88.0	
528	76.0	82.0	62.0	60.0	72.0	80.0	
890	67.0	78.0	76.0	75.0	67.0	76.0	
1774	70.0	77.0	87.0	75.0	82.0	71.0	

	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression	\
0	95.0	85.0	68.0	72.0	59.0	94.0	48.0	
50	92.0	80.0	60.0	75.0	42.0	81.0	59.0	
528	73.0	85.0	68.0	82.0	63.0	84.0	53.0	
890	70.0	92.0	71.0	70.0	83.0	80.0	70.0	
1774	78.0	70.0	55.0	68.0	62.0	71.0	51.0	

	Interceptions	Positioning	Vision	Penalties	Composure	Marking	\
0	22.0	94.0	94.0	75.0	96.0	33.0	
50	36.0	87.0	83.0	79.0	81.0	25.0	
528	36.0	84.0	82.0	79.0	83.0	39.0	
890	36.0	75.0	79.0	83.0	79.0	54.0	
1774	25.0	67.0	72.0	70.0	74.0	24.0	

	StandingTackle	SlidingTackle	GK Diving	GK Handling	GK Kicking	\
0	28.0	26.0	6.0	11.0	15.0	
50	40.0	40.0	7.0	10.0	8.0	
528	40.0	30.0	15.0	15.0	8.0	
890	39.0	39.0	10.0	9.0	16.0	
1774	23.0	20.0	9.0	12.0	9.0	

	GK Positioning	GK Reflexes	Release Clause
0	14.0	8.0	226.5
50	10.0	4.0	76.5
528	10.0	12.0	17.3
890	9.0	9.0	8.1
1774	9.0	7.0	11.7

```
[162]: ab.Wage.mean()
```

```
[162]: 148.0
```

```
[163]: bc=fifa[fifa['Position']=='LF'].nlargest(5,['Overall'])
bc
```

```
[163]:
```

	ID	Name	Age	\
5	183277	E. Hazard	27	
15	211110	P. Dybala	24	
76	41	Iniesta	34	

272	198164	Jonathan Viera	28
1379	190577	S. Blanco	30

	Photo	Nationality	\
5	https://cdn.sofifa.org/players/4/19/183277.png	Belgium	
15	https://cdn.sofifa.org/players/4/19/211110.png	Argentina	
76	https://cdn.sofifa.org/players/4/19/41.png	Spain	
272	https://cdn.sofifa.org/players/4/19/198164.png	Spain	
1379	https://cdn.sofifa.org/players/4/19/190577.png	Argentina	

	Flag	Overall	Potential	\
5	https://cdn.sofifa.org/flags/7.png	91	91	
15	https://cdn.sofifa.org/flags/52.png	89	94	
76	https://cdn.sofifa.org/flags/45.png	86	86	
272	https://cdn.sofifa.org/flags/45.png	82	82	
1379	https://cdn.sofifa.org/flags/52.png	76	76	

	Club	\
5	Chelsea	
15	Juventus	
76	Vissel Kobe	
272	Beijing Sinobo Guoan FC	
1379	Portland Timbers	

	Club Logo	Value	Wage	\
5	https://cdn.sofifa.org/teams/2/light/5.png	93.0	340.0	
15	https://cdn.sofifa.org/teams/2/light/45.png	89.0	205.0	
76	https://cdn.sofifa.org/teams/2/light/101146.png	21.5	21.0	
272	https://cdn.sofifa.org/teams/2/light/111768.png	22.5	31.0	
1379	https://cdn.sofifa.org/teams/2/light/111140.png	7.5	9.0	

	Preferred Foot	International Reputation	Weak Foot	Skill Moves	\
5	Right	4	4.0	4.0	
15	Left	3	3.0	4.0	
76	Right	4	4.0	4.0	
272	Right	2	4.0	4.0	
1379	Right	1	3.0	3.0	

	Work Rate	Body Type	Position	Jersey Number	Joined	Loaned From	\
5	High/ Medium	Normal	LF	10.0	2012	NaN	
15	High/ Medium	Normal	LF	21.0	2015	NaN	
76	High/ Medium	Normal	LF	8.0	2018	NaN	
272	High/ Low	Normal	LF	23.0	2018	NaN	
1379	Medium/ Medium	Normal	LF	10.0	2017	NaN	

	Contract Valid Until	Height	Weight	Crossing	Finishing	\
5	2020-01-01	172.72	163	81.0	84.0	

15	2022-01-01	177.80	165	82.0	84.0
76	2021-01-01	170.18	150	77.0	70.0
272	2020-01-01	170.18	141	75.0	78.0
1379	2018-01-01	167.64	141	69.0	69.0

	HeadingAccuracy	ShortPassing	Volleys	Dribbling	Curve	FKAccuracy \
5	61.0	89.0	80.0	95.0	83.0	79.0
15	68.0	87.0	88.0	92.0	88.0	88.0
76	54.0	90.0	74.0	90.0	80.0	70.0
272	41.0	84.0	65.0	84.0	80.0	76.0
1379	66.0	76.0	76.0	75.0	64.0	60.0

	LongPassing	BallControl	Acceleration	SprintSpeed	Agility	Reactions \
5	83.0	94.0	94.0	88.0	95.0	90.0
15	75.0	92.0	87.0	83.0	91.0	86.0
76	85.0	92.0	70.0	67.0	79.0	86.0
272	78.0	82.0	86.0	76.0	89.0	81.0
1379	70.0	77.0	76.0	78.0	87.0	76.0

	Balance	ShotPower	Jumping	Stamina	Strength	LongShots	Aggression \
5	94.0	82.0	56.0	83.0	66.0	80.0	54.0
15	85.0	82.0	75.0	80.0	65.0	88.0	48.0
76	84.0	65.0	47.0	55.0	58.0	71.0	58.0
272	92.0	70.0	88.0	79.0	67.0	79.0	56.0
1379	79.0	79.0	65.0	85.0	59.0	79.0	79.0

	Interceptions	Positioning	Vision	Penalties	Composure	Marking \
5	41.0	87.0	89.0	86.0	91.0	34.0
15	32.0	84.0	87.0	86.0	84.0	23.0
76	66.0	81.0	93.0	71.0	89.0	67.0
272	73.0	72.0	84.0	74.0	80.0	56.0
1379	33.0	71.0	74.0	61.0	65.0	30.0

	StandingTackle	SlidingTackle	GK Diving	GK Handling	GK Kicking \
5	27.0	22.0	11.0	12.0	6.0
15	20.0	20.0	5.0	4.0	4.0
76	57.0	56.0	6.0	13.0	6.0
272	68.0	55.0	16.0	16.0	9.0
1379	22.0	32.0	9.0	7.0	9.0

	GK Positioning	GK Reflexes	Release Clause
5	8.0	8.0	172.1
15	5.0	8.0	153.5
76	13.0	7.0	26.9
272	14.0	9.0	49.5
1379	13.0	12.0	11.3

```
[165]: bc.Wage.mean()
```

```
[165]: 121.2
```

here we have to observe that no player is repeated and we have all the unique players in every table above