DSCI 510 Fall 2021 Final Project Submission

1. The name of student:

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1. About the project (Motivation):

I am a fan of soccer. Therefore, I decided to choose this topic as my fist data analysis project. Analysis I would like to do with the combined data is to find:

- 1) What affects the transfer cost of a soccer player? For example, does the number of goals affect the transfer cost of a soccer player?
- 2) Do players with a high market value influence the results of the match?

1. Datasources:

Source 1 = https://www.transfermarkt.us/ - one of the biggest soccer databases and communities in the world. We will get information about the most valuable players by web-scrapping.

Source 2 = https://api.football-data.org - External public API, provides football data and statistics (live scores, fixtures, tables, squads, lineups/subs, etc.) in a machine-readable way. We will get information about players, their results of the matches by API requests.

Source 3 = https://www.theguardian.com/football - the part of news-portal about soccer with current standings of soccer clubs. We will get information about soccer clubs in 5 top European soccer leagues by web-scrapping.

1. Information about API keys for Source 2:

We have to register to receive an API key by email. The free API key has limitations. We will be available to send no more than 10 requests in a minute.

1. How to run the code

We can get the clean data used in this notebook or run using command-line "python .\src\main_Yerkebulan_Bauyrzhanov.py --static" analysis simply from the data subfolder where the data sets have existed already, or you can run the "main_Yerkebulan_Bauyrzhanov.py" file to get the data sets from the Internet.

To do so, using command-line: python .\src\main_Yerkebulan_Bauyrzhanov.py, then datasets will be stored in the data subfolder.

Be ready that it takes more than 25 minutes to scrape datasets from sources (especially source2) due to the API source having a limitation of 10 calls/minute.

This project requires the following packages:

pandas, numpy, seaborn, requests, and beautifulsoup To run this project, make sure the above packages are installed, and then simply clone the repo at https://github.com/bauyrzha/DSCI510-finalproject and execute this notebook.

If it cannot successfully run, check the requirements.txt.

We can also collect data from sources separately by running Scrapping_source_1.py, Api_request_source_2.py, and Scrapping_source_3.py.

Analysis performed for combained data sources 1 and 2

1) Before analyzing let's find out what variables we have.

name - name of players.

position - position of players on the soccer pitch.

Age - age of players.

Nat. - nationality of players.

Market value - the cost of players in the transfer market.

club - the name of clubs where players are playing.

Goals - the number of goals of players in the current season (2021-2022).

Assists - the number of assists of players in the current season (2021-2022).

win - the number of wins in the current season (2021-2022).

draw - the number of draws in the current season (2021-2022).

lost - the number of losses in the current season (2021-2022).

1. Create new variables that will be needed for analysis.

Below the following variables will be created:

player_avg_points - the average earned points of players in one match in the current season (2021-2022).

continent - we divided players into two categories: players who are from European countries and who are from other (non-Europe countries)

```
In [1]: #import necessary libraries
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
import numpy as np

In [2]: # Read in the data sets
df = pd.read_csv('../data/df_source1+source2.csv')
df3 = pd.read_csv('../data/df_source3.csv')
```

```
In [3]: # get unique nationalities of players
df['Nat.'].unique()
```

```
array(['England', 'France', 'Italy', 'Nigeria', 'Brazil', 'Belgium',
Out[3]:
                 'Spain', 'Denmark', 'Scotland', 'Portugal', 'Cameroon', 'Germany',
                 'Netherlands', 'Albania', 'United States', 'Austria', 'Argentina',
                 'Japan', 'Sweden', 'Switzerland', 'Hungary', 'Colombia',
                 'Burkina Faso', 'Senegal', 'Norway', "Cote d'Ivoire", 'Morocco',
                 'Mexico', 'Guinea', 'Poland', 'Uruguay', 'Turkey', 'Egypt',
                 'The Gambia', 'Czech Republic', 'Gabon', 'Algeria', 'Ukraine',
                 'Serbia', 'Ghana'], dtype=object)
In [4]:
         # I want to add a new variable 'continent' which we divided players into two categories:
          # players who are from European countries and who are from other (non-Europe countries)
         nat list = ['England', 'France', 'Italy', 'Belgium', 'Spain', 'Denmark', 'Scotland', 'Port
         df['continent'] = np.where(df['Nat.'].isin(nat list), 'Europe', 'other')
In [5]:
         #add a new column player points (average points in one match)
         df['player avg points'] = (df['win']*3 + df['draw'])/(df['win'] + df['draw'] + df['lost'])
In [6]:
         # check our DataFrame
         df.info()
        <class 'pandas.core.frame.DataFrame'>
        RangeIndex: 202 entries, 0 to 201
        Data columns (total 14 columns):
            Column Non-Null Count Dtype
         ---
                                  -----
         0 name 202 non-null object
1 position 202 non-null object
2 Age 202 non-null int64
3 Nat. 202 non-null object
4 Market value 202 non-null object
5 club 202 non-null object
6 Goals 202 non-null int64
          7 Assists
                                  202 non-null int64
                                 202 non-null int64
202 non-null int64
202 non-null int64
202 non-null int64
          8 id
            win
          10 draw
          11 lost
         12 continent 202 non-null object
13 player_avg_points 197 non-null float64
        dtypes: float64(1), int64(7), object(6)
        memory usage: 22.2+ KB
```

1. Data cleaning

We will

- delete extra characters
- change type of variables
- delete NaN rows in continuous variables
- delete the column 'id'

```
In [7]:
# replace a character from column to apply to numeric
df['Market value'] = df['Market value'].str.replace('m','')
df['Market value'] = df['Market value'].str.replace('f','')
```

```
Out[8]:
                                           Market
                       position Age
                                      Nat.
                                                         club Goals Assists
                                                                             id win draw lost continent pl
               name
                                             value
               Aaron
                                                     Arsenal FC
         0
                     Goalkeeper
                                23 England
                                             18.00
                                                                  0
                                                                        0 5530
                                                                                  4
                                                                                        3
                                                                                            6
                                                                                                 Europe
             Ramsdale
            Abdoulaye
                        Central
                                28
                                             22.50
                                                     Everton FC
                                                                  2
                                                                        4 8119
                                                                                        2
                                     France
                                                                                  3
                                                                                                 Europe
            Doucouré
                       Midfield
               Adam
                        Centre-
                                                   Southampton
                                24 England
                                             16.20
                                                                        3 4863
                                                                                  2
                                                                                        5
                                                                                            5
                                                                                                 Europe
            Armstrong
                       Forward
                                                           FC
               Adrien
                        Central
         3
                                26
                                             27.00
                                                    Juventus FC
                                                                  0
                                                                        1 3368
                                                                                            8
                                     France
                                                                                  3
                                                                                        1
                                                                                                 Europe
               Rabiot
                       Midfield
              Alessio
                        Centre-
                                                                                        2
                                26
                                       Italy
                                             18.00
                                                      AC Milan
                                                                  1
                                                                        0 1740
                                                                                  5
                                                                                            9
                                                                                                 Europe
            Romagnoli
                          Back
In [9]:
          # change type of the column
          df['Market value'] = df['Market value'].astype('float')
In [10]:
          # check our DataFrame
          df.info()
         <class 'pandas.core.frame.DataFrame'>
         RangeIndex: 202 entries, 0 to 201
         Data columns (total 14 columns):
          #
              Column
                                  Non-Null Count Dtype
              ----
                                  -----
          0
                                  202 non-null
              name
                                                   object
          1
              position
                                 202 non-null object
          2
                                  202 non-null
                                                  int64
              Age
          3
              Nat.
                                  202 non-null
                                                 object
          4
              Market value
                                 202 non-null
                                                 float64
          5
              club
                                 202 non-null
                                                 object
          6
              Goals
                                  202 non-null
                                                   int64
          7
                                 202 non-null
              Assists
                                                 int64
          8
              id
                                  202 non-null
                                                  int64
          9
              win
                                  202 non-null
                                                  int64
          10
             draw
                                  202 non-null
                                                  int64
          11
             lost
                                  202 non-null
                                                  int64
             continent
                                  202 non-null
                                                   object
          13 player avg points 197 non-null
                                                   float64
         dtypes: float64(2), int64(7), object(5)
         memory usage: 22.2+ KB
In [11]:
          # delete error data in our dataFrame
          df = df.dropna()
In [12]:
          # check our DataFrame
          df.info()
         <class 'pandas.core.frame.DataFrame'>
         Int64Index: 197 entries, 0 to 201
         Data columns (total 14 columns):
          #
              Column
                                  Non-Null Count Dtype
         ___
              ----
                                  _____
          0
                                  197 non-null
                                                   object
              name
          1
              position
                                  197 non-null
                                                   object
```

df.head()

In [8]:

```
2
                              197 non-null int64
                Age
            3 Nat.
                                        197 non-null object
                                  197 non-null float64
197 non-null object
197 non-null int64
            4 Market value
            5 club
            6 Goals
            7 Assists
            8 id
            9 win
            10 draw
            11 lost 197 non-null int64
12 continent 197 non-null object
13 player_avg_points 197 non-null float64
            11 lost
                                       197 non-null int64
           dtypes: float64(2), int64(7), object(5)
           memory usage: 23.1+ KB
In [13]:
           #delete the column 'id'
            df = df.drop('id', axis = 1)
In [14]:
           df.info()
           <class 'pandas.core.frame.DataFrame'>
           Int64Index: 197 entries, 0 to 201
           Data columns (total 13 columns):
            # Column Non-Null Count Dtype
                -----
                                        _____
                name 197 non-null object position 197 non-null object Age 197 non-null int64 Nat. 197 non-null object
            0 name
            1
            1 post.
2 Age
                                  197 non-null object
197 non-null object
197 non-null int64
            4 Market value
            5 club
            6 Goals
            7 Assists
            8 win
            9 draw
            10 lost
           10 lost 197 non-null int64
11 continent 197 non-null object
12 player_avg_points 197 non-null float64
           dtypes: float64(2), int64(6), object(5)
```

Data visualization

memory usage: 21.5+ KB

We use visualization to "grab" some hypotheses (predictions) on our data.

In our particular case, we want to establish the following:

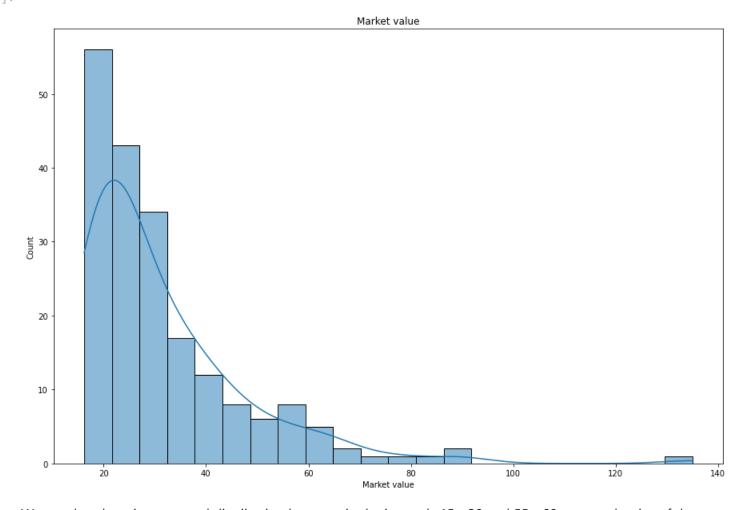
- 1) the distribution of the target variable the market value (cost);
- 2) presence of correlation between variables.

1. Figure out the distribution of the target variable

```
In [15]: #Trying to figure out the distribution of the market value (cost);
fig, ax = plt.subplots(figsize=(15, 10))
# the line is the density of the distribution
```

```
sns.histplot(df['Market value'], kde=True)
plt.title('Market value')
```

Out[15]: Text(0.5, 1.0, 'Market value')



We see that there is no normal distribution because, in the intervals 15 - 30 and 55 - 60, we see the rise of the lines. This should not be the case with the normal distribution. This means that we observe costs in these intervals more often than the normal distribution predicts.

1. Figure out correlation between variables

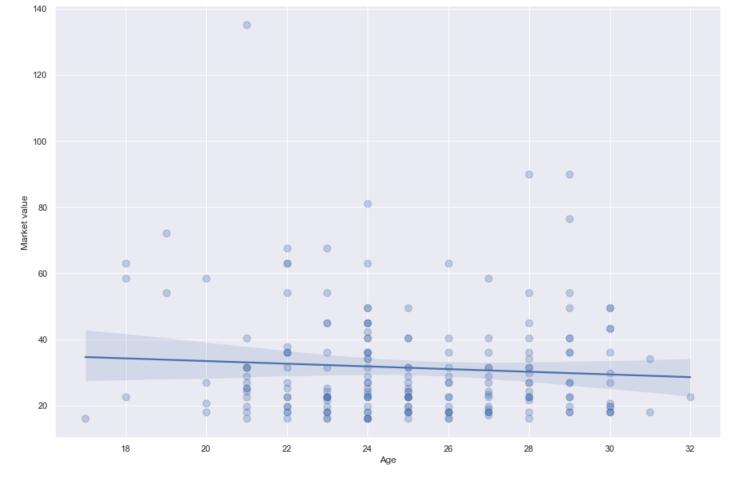
a) Market value, age and continent

```
In [16]: # Set the style of the graph
    sns.set_theme(color_codes=True)

# set the size of the graph
    fig, ax = plt.subplots(figsize=(15, 10))

#Trying to figure out whether the market value correlates the Ages
    sns.regplot(x='Age', y='Market value', data = df, scatter_kws={'s':80, 'alpha': 0.3})
```

Out[16]: <AxesSubplot:xlabel='Age', ylabel='Market value'>



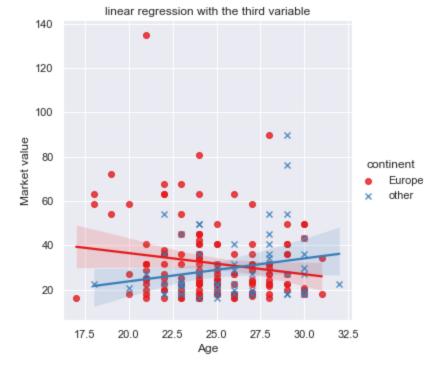
```
In [17]: # Get the R squared value
df['Market value'].corr(df['Age'])
```

Out[17]: -0.07403426852072618

We can conclude that the Market value and age of players have a slight negative relationship. R squared value is close to zero, which can be considered no relationship.

```
In [18]: # linear regression with the third variable, which is given by color
# In our case, we use 'continent' as the third variable.
sns.lmplot(x='Age', y='Market value', hue="continent", data=df, markers=["o", "x"], palett plt.title('linear regression with the third variable')
```

Out[18]: Text(0.5, 1.0, 'linear regression with the third variable')



In this plot, we can consider that players from Europe lose the market value with age whereas players from non-European countries become more expensive.

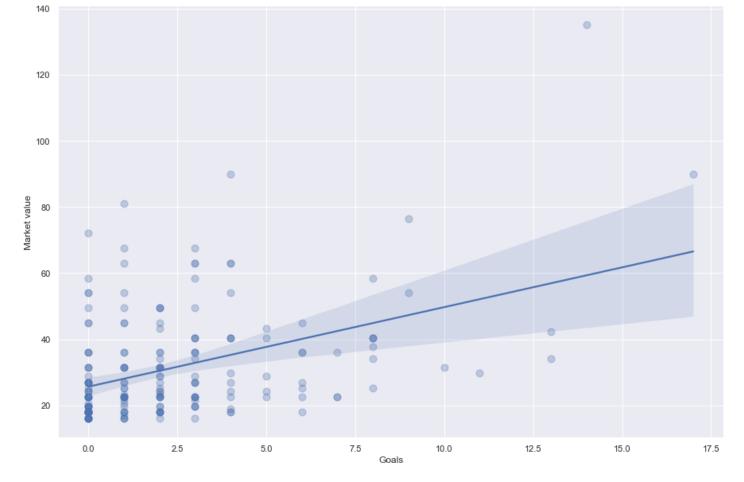
b) Market value, Goals and continent

```
In [19]: # Set the style of the graph
    sns.set_theme(color_codes=True)

# set the size of the graph
    fig, ax = plt.subplots(figsize=(15, 10))

#Trying to figure out whether the market value correlates the Goals
    sns.regplot(x='Goals', y='Market value', data = df, scatter_kws={'s':80, 'alpha': 0.3})
```

Out[19]: <AxesSubplot:xlabel='Goals', ylabel='Market value'>



```
In [20]: # Get the R squared value
df['Market value'].corr(df['Goals'])
```

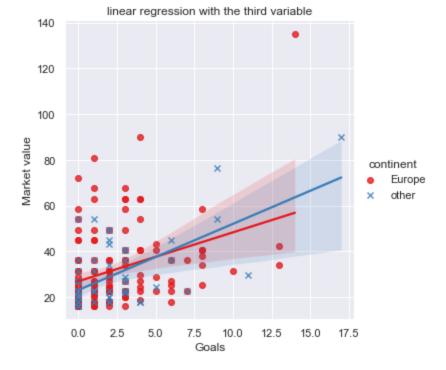
Out[20]: 0.42291961406517575

We can conclude that the Market value and the number of goals of players have a enough strong relationship. That is, it means the more goals players score, the higher their market value is.

```
In [21]: # linear regression with the third variable, which is given by color
# In our case, we use 'continent' as the third variable.

sns.lmplot(x='Goals', y='Market value', hue="continent", data=df, markers=["o", "x"], pale
plt.title('linear regression with the third variable')
```

Out[21]: Text(0.5, 1.0, 'linear regression with the third variable')



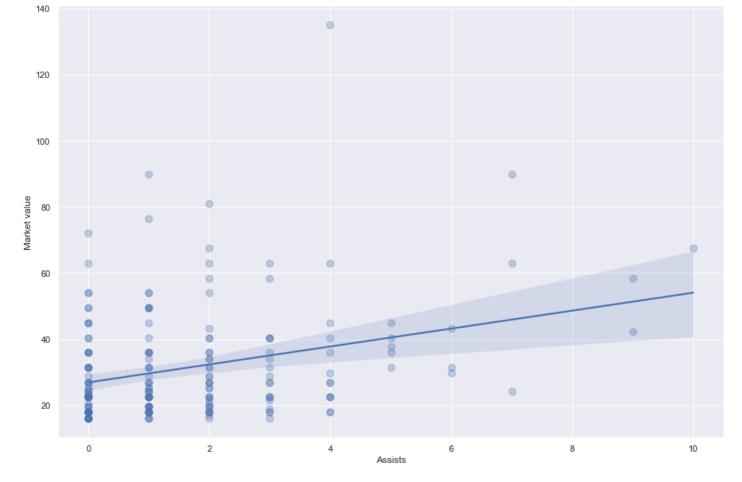
c) Market value, Assists and continent

```
In [22]: # Set the style of the graph
    sns.set_theme(color_codes=True)

# set the size of the graph
    fig, ax = plt.subplots(figsize=(15, 10))

#Trying to figure out whether the market value correlates the Assists
    sns.regplot(x='Assists', y='Market value', data = df, scatter_kws={'s':80, 'alpha': 0.3})
```

Out[22]: Ylabel='Market value'>



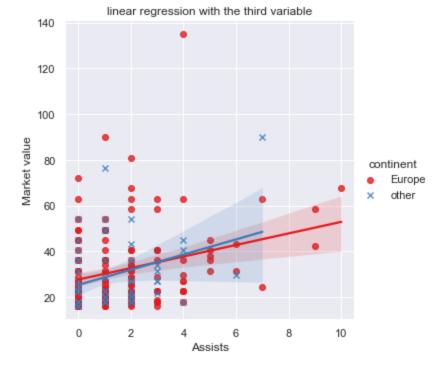
```
In [23]: # Get the R squared value
df['Market value'].corr(df['Assists'])
```

Out[23]: 0.30578884210208673

We can conclude that the Market value and the number of assists of players have a relationship, but not stronger than goals. That is, it means the more assists players do, the higher their market value is.

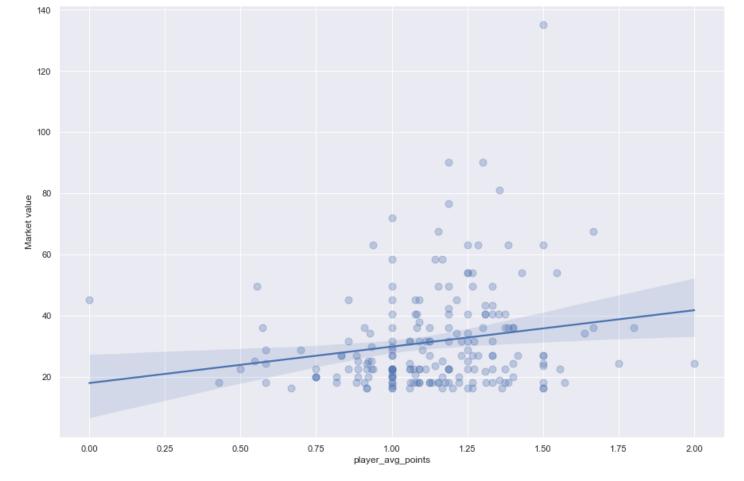
```
In [24]: # linear regression with the third variable, which is given by color
# In our case, we use 'continent' as the third variable.
sns.lmplot(x='Assists', y='Market value', hue="continent", data=df, markers=["o", "x"], paper plt.title('linear regression with the third variable')
```

Out[24]: Text(0.5, 1.0, 'linear regression with the third variable')



d) Market value, player_avg_points and continent

Out[25]: <AxesSubplot:xlabel='player_avg_points', ylabel='Market value'>



```
In [26]: # Get the R squared value
    df['Market value'].corr(df['player_avg_points'])
```

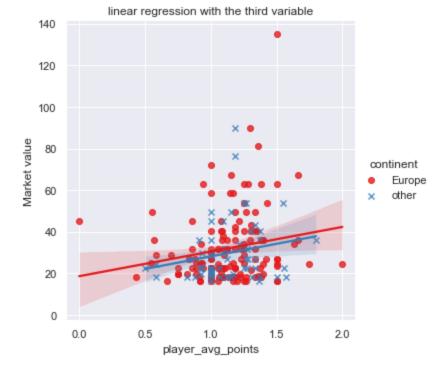
Out[26]: 0.18677070382134778

We can conclude that the Market value and player_points have a slight positive relationship. That is, it means The more points players earn, the higher their price is.

```
In [27]: # linear regression with the third variable, which is given by color
# In our case, we use 'continent' as the third variable.

sns.lmplot(x='player_avg_points', y='Market value', hue="continent", data=df, markers=["o'plt.title('linear regression with the third variable')
```

Out[27]: Text(0.5, 1.0, 'linear regression with the third variable')



The number of goals, the number of assists, and points players earn affect the transfer cost of a soccer player.

Analysis performed for combained data sources 1, 2 and 3

1) Before analyzing let's find out what variables we have.

club - the name of clubs where players are playing.

Age - the average age of players grouped by the club.

Market value - the average cost of players grouped by the club in the transfer market.

Goals - the average number of goals of players grouped by the club in the current season (2021-2022).

Assists - the average number of assists of players grouped by the club in the current season (2021-2022).

win - the average number of wins of players grouped by the club in the current season (2021-2022).

draw - the average number of draws of players grouped by the club in the current season (2021-2022).

lost - the average number of losses of players grouped by the club in the current season (2021-2022).

club_avg_points - the average earned points of clubs in one match in the current season (2021-2022).

```
In [28]: # Read in the data set (data source 3)
df3 = pd.read_csv('../data/df_source3.csv')
```

In [29]:

```
extra characters = [' FC','FC ', ' BC', 'AC ', ' CF', 'AC ', 'AS ', 'SS ', 'SSC ', 'ACF ']
         for ch in extra characters:
             df['club'] = df['club'].str.replace(ch, '')
In [30]:
         # Get the average of all continuous variables for each club
         df2 = df.groupby(df['club']).mean()
In [31]:
         # reset index
         df2 = df2.reset index()
In [32]:
         #check our dataframe
         df2.info()
        <class 'pandas.core.frame.DataFrame'>
        RangeIndex: 34 entries, 0 to 33
        Data columns (total 9 columns):
         # Column
                               Non-Null Count Dtype
        ____
                               -----
         0 club
                               34 non-null
                                               object
         1 Age 34 non-null float64
2 Market value 34 non-null float64
3 Goals 34 non-null float64
4 Assists 34 non-null float64
5 win 34 non-null float64
         6 draw
                               34 non-null
                                               float64
         7 lost
                               34 non-null
                                               float64
         8 player avg points 34 non-null
                                              float64
        dtypes: float64(8), object(1)
        memory usage: 2.5+ KB
In [33]:
         # get list of clubs
         club list = df2["club"].to list()
         print(club list)
        ['Arsenal', 'Atalanta', 'Barcelona', 'Bayer 04 Leverkusen', 'Bologna 1909', 'Borussia Dort
        mund', 'Borussia Mönchengladbach', 'Brentford', 'Burnley', 'Cagliari Calcio', 'Chelsea',
        'Eintracht Frankfurt', 'Everton', 'Fiorentina', 'Getafe', 'Juventus', 'Lazio', 'Liverpoo
        l', 'Milan', 'Napoli', 'OGC Nice', 'RB Leipzig', 'Real Betis Balompié', 'Roma', 'Sevilla',
        'Southampton', 'TSG 1899 Hoffenheim', 'Torino', 'UC Sampdoria', 'Valencia', 'VfB Stuttgar
        t', 'VfL Wolfsburg', 'Villarreal', 'Watford']
In [34]:
         # we leave the clubs which matched
         df3 = df3[df3['club'].isin(club list)]
In [35]:
        df3.info()
        <class 'pandas.core.frame.DataFrame'>
        Int64Index: 22 entries, 0 to 76
        Data columns (total 10 columns):
         # Column Non-Null Count Dtype
        --- ----
                             -----
                             22 non-null object
             club
         1 GP
                             22 non-null
                                             int64
         2 W
                             22 non-null
                                             int64
         3 D
                             22 non-null
                                             int64
         4
                             22 non-null
                                             int64
            L
         5 F
                             22 non-null
                                             int64
                             22 non-null int64
```

```
8
            Pts
                              22 non-null
                                             int64
            club avg points 22 non-null
                                             float64
        dtypes: float64(1), int64(8), object(1)
        memory usage: 1.9+ KB
In [36]:
         # we have 22 clubs, for simple analysis it is enough.
         # get list of clubs
         club list = df3["club"].to list()
         print(club list)
        ['Chelsea', 'Liverpool', 'Arsenal', 'Brentford', 'Everton', 'Southampton', 'Watford', 'Bur
        nley', 'RB Leipzig', 'Eintracht Frankfurt', 'Napoli', 'Atalanta', 'Roma', 'Fiorentina', 'J
        uventus', 'Lazio', 'Torino', 'Sevilla', 'Barcelona', 'Valencia', 'Villarreal', 'Getafe']
In [37]:
         # we leave the clubs which matched
         df2 = df2[df2['club'].isin(club list)]
In [38]:
         #check our dataFrame
         df2.info()
        <class 'pandas.core.frame.DataFrame'>
        Int64Index: 22 entries, 0 to 33
        Data columns (total 9 columns):
             Column
                               Non-Null Count Dtype
            _____
                                -----
                               22 non-null object
         \cap
            club
         1
                               22 non-null
                                              float64
             Age
                             22 non-null
                                              float64
         2
            Market value
         3 Goals
                               22 non-null
                                              float64
         4 Assists
                              22 non-null
                                              float64
         5 win
                               22 non-null
                                              float64
                                            float64
float64
         6
             draw
                                22 non-null
            lost
                                22 non-null
           player_avg_points 22 non-null float64
        dtypes: float64(8), object(1)
        memory usage: 1.7+ KB
In [39]:
         # we sort by name of clubs in data source 3
         df3 = df3.sort values(by=['club'])
In [40]:
         #check our dataFrame
         df3
Out[40]:
                     club GP W D L F A GD Pts club_avg_points
         4
                             7 2 4 15 17
                                                23
                                                         1.769231
                   Arsenal
                         13
                                            -2
        41
                  Atalanta
                         14
                              8 4 2 28 17
                                            11
                                                28
                                                         2.000000
        64
                 Barcelona
                         14
                              6 5 3 23 16
                                             7
                                                23
                                                         1.642857
        11
                  Brentford
                         13
                              4 4 5 17 17
                                             0
                                               16
                                                         1.230769
```

int64

7

17

13

Burnley

31 Eintracht Frankfurt 13

Chelsea 13

12

1 6 5 14 20

9 3 1 31 5

4 6 3 16 17

Everton 13 4 3 6 16 20

-6

26

9

30

18

15

0.750000

2.307692

1.384615

1.153846

GD

22 non-null

```
43
                                                     21
                                                               1.500000
                   Fiorentina
                                         21
                                             19
                                                  2
         76
                                                     10
                                                               0.666667
                      Getafe
                            15
                                 2
                                    4 9 10
                                            19
                                                 -9
         44
                    Juventus
                            14
                                 6
                                   3 5 18
                                            16
                                                  2
                                                     21
                                                              1.500000
         45
                                    3 5 25
                                            25
                                                     21
                                                               1.500000
                       Lazio
                             14
                                 6
          2
                    Liverpool
                                      1 39
                                                 28
                                                     28
                                                               2.153846
                             13
                                 8
                                    4
                                            11
         38
                      Napoli
                                    2
                                      1
                                         30
                                             7
                                                 23
                                                     35
                                                               2.500000
                             14
                                11
         27
                   RB Leipzig
                             13
                                 5
                                    3
                                      5 24
                                            16
                                                     18
                                                              1.384615
         42
                      Roma
                             14
                                   1 5 24
                                            15
                                                     25
                                                               1.785714
         61
                                                     28
                                                              2.000000
                      Sevilla
                             14
                                   4 2 24 11
                                                 13
         14
                                                               1.076923
                Southampton
                             13
                                    5
                                      5 11
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                                    2 7 17 14
                                                  3
                                                     17
                                                               1.214286
                      Torino
                             14
         67
                     Valencia
                            15
                                   7 4 22
                                            21
                                                     19
                                                              1.266667
         69
                    Villarreal
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                                                               1.142857
         15
                                                               1.000000
                     Watford
                            13
                                   1 8 18 24
                                                 -6
                                                    13
In [41]:
          # we add the "club avg points" column from source2 into source1
          df2['club avg points'] = df3['club avg points'].values
In [42]:
          #check our dataframe
          df2.info()
         <class 'pandas.core.frame.DataFrame'>
         Int64Index: 22 entries, 0 to 33
         Data columns (total 10 columns):
                                  Non-Null Count Dtype
              Column
              -----
                                   -----
                                  22 non-null object 22 non-null float64
          0
              club
          1
              Age
                                  22 non-null
          2
                                                   float64
              Market value
                                                   float64
          3
              Goals
                                   22 non-null
          4
              Assists
                                  22 non-null
                                                   float64
          5
              win
                                   22 non-null
                                                   float64
                                   22 non-null
          6
              draw
                                                   float64
          7
              lost
                                   22 non-null
                                                   float64
              player_avg_points 22 non-null
                                                    float64
                                   22 non-null
                                                    float64
              club avg points
         dtypes: float64(9), object(1)
         memory usage: 1.9+ KB
```

A GD

club GP

D L

F

Pts

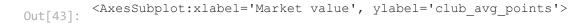
club_avg_points

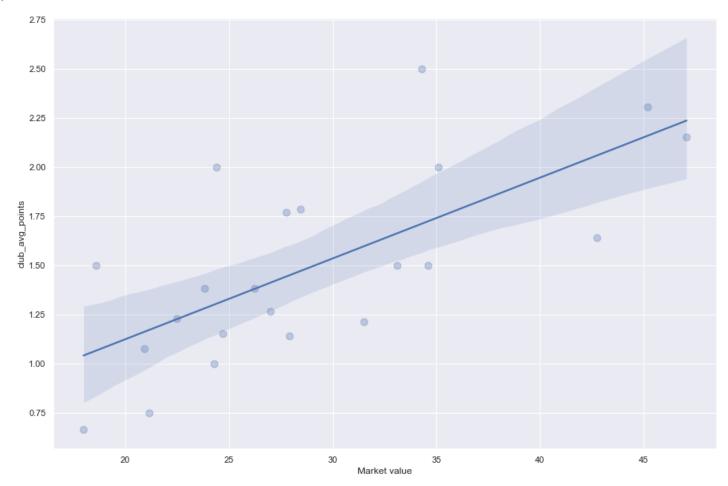
1. Figure out correlation between between market value and club_avg_points

```
In [43]: # Set the style of the graph
    sns.set_theme(color_codes=True)

# set the size of the graph
    fig, ax = plt.subplots(figsize=(15, 10))

#Trying to figure out whether the market value correlates the player_points
    sns.regplot(x='Market value', y='club_avg_points', data = df2, scatter_kws={'s':80, 'alpha
```





```
In [44]: # Get the R squared value
    df2['club_avg_points'].corr(df2['Market value'])
```

Out[44]: 0.6934361237886586

We can conclude that the club_points and Market value have a good positive relationship. This means that the more high value players play in the club, the more points the club earns.

Conclusion

We scraped data from three different resources.

We combined them.

We added new variables for analysis.

We did cleaning steps.

We did the analysis and, according to the figures and R squared values, we concluded that:

- 1) The number of goals, the number of assists, and points players earn affect the transfer cost of a soccer player.
- 2) The Market value and age of players have a slight negative relationship. R squared value is close to zero, which can be considered no relationship. However, we can consider that players from Europe lose the market value with age whereas players from non-European countries become more expensive.

| 3) The more high-value players play in the club, the more points the club earns. That means players with a high market value influence the results of the match. |
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| a mgn market value influence the results of the materi. |
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