Project Title - Messi's-all-club-goals-analysis

In this project, I analysed Messi's all club goals. I analysed Messi's highest peak goal in season, tournament and match. Also analysed how, he scored goals, assisted by other or by himself. I learn manything from this project. Anyone can know about Messi by watching this project.

Downloading the Dataset

I will download Messi all club goal dataset. I wil download this because, I am a big fan of Messi.

```
!pip install jovian opendatasets --upgrade --quiet
```

Let's begin by downloading the data, and listing the files within the dataset.

```
# Change this
dataset_url = 'https://github.com/azminewasi/Lionel-Messi-Club-Goals/blob/main/data.csv
```

```
import opendatasets as od
od.download(dataset_url)
```

```
Using downloaded and verified file: ./data.csv
```

The dataset has been downloaded and extracted.

Let us save and upload our work to Jovian before continuing.

```
project_name = "Messi's-all-club-goals-analysis" # change this (use lowercase letters a
```

```
!pip install jovian --upgrade -q
```

```
import jovian
```

```
jovian.commit(project=project_name)
```

```
[jovian] Creating a new project "asad-cuet/Messi's-all-club-goals-analysis"
[jovian] Committed successfully! https://jovian.ai/asad-cuet/messis-all-club-goals-analysis-02a07
```

```
'https://jovian.ai/asad-cuet/messis-all-club-goals-analysis-02a07'
```

Data Preparation and Cleaning

Empty data or any wrong format data or any wrong data have to be removed

```
import pandas
```

```
df=pandas.read_csv('data.csv')
```

```
df
```

	Season	Competition	Matchday	Date	Venue	Club	Opponent	Result	Playing_Position	Minute
0	04/05	LaLiga	34	5/1/05	H	FC Barcelona	Albacete Balompie	2:0	CF	90+1
1	05/06	UEFA Champions League	Group Stage	11/2/05	H	FC Barcelona	Panathinaikos Athens	5:0	RW	34
2	05/06	LaLiga	13	11/27/05	H	FC Barcelona	Racing Santander	4:1	RW	51
3	05/06	LaLiga	19	1/15/06	H	FC Barcelona	Athletic Bilbao	2:1	RW	50
4	05/06	LaLiga	20	1/22/06	H	FC Barcelona	Deportivo Alaves	2:0	CF	82
...	...	...	...	...	...	...	...	...	...	...
678	21/22	Ligue 1	23	2/6/22	A	Paris Saint-Germain	LOSC Lille	1:5	CF	38
679	21/22	Ligue 1	30	4/3/22	H	Paris Saint-Germain	FC Lorient	5:1	RW	73
680	21/22	Ligue 1	34	4/23/22	H	Paris Saint-Germain	RC Lens	1:1	RW	68
681	21/22	Ligue 1	37	5/14/22	A	Paris Saint-Germain	Montpellier	0:4	CF	6
682	21/22	Ligue 1	37	5/14/22	A	Paris Saint-Germain	Montpellier	0:4	CF	20

683 rows × 13 columns

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 683 entries, 0 to 682
Data columns (total 13 columns):
 #   Column            Non-Null Count  Dtype 
---  ------            --------------  ----- 
 0   Season            683 non-null    object
 1   Competition       683 non-null    object
 2   Matchday          683 non-null    object
 3   Date              683 non-null    object
 4   Venue             683 non-null    object
```

```
 5   Club              683 non-null    object
 6   Opponent          683 non-null    object
 7   Result            683 non-null    object
 8   Playing_Position  683 non-null    object
 9   Minute            683 non-null    object
 10  At_score          683 non-null    object
 11  Type              682 non-null    object
 12  Goal_assist       474 non-null    object
dtypes: object(13)
memory usage: 69.5+ KB
```

Goal_assist:

We see in dataset information in Gaol_assist column, there is null value. But it's not error. There are some goal which is not assisted by others player.

Type:

In Type column, there is 1 null value. But we won't remove this row, because the goal is not error.

Observing & modifying Goal_assist column

```
df.Goal_assist.unique()
```

```
array(['Ronaldinho Gaacho', nan, 'Samuel Etoo', 'Mark van Bommel',
       'Sylvinho', 'Ludovic Giuly', 'Andres Iniesta', 'Deco', 'Xavi',
       'Giovanni van Bronckhorst', 'Gianluca Zambrotta', 'Thierry Henry',
       'Bojan Krkic', 'Dani Alves', 'Aleksandr Hleb', 'Gerard Pique',
       'Zlatan Ibrahimovic', 'Pedro', 'Ã‰ric Abidal', 'Yaya Toure',
       'Seydou Keita', 'Maxwell', 'David Villa', 'Thiago', 'Adriano',
       'Ibrahim Afellay', 'Sergio Busquets', 'Cesc Fabregas',
       'Alexis Sanchez', 'Cristian Tello', 'Isaac Cuenca', 'Jordi Alba',
       'Marta Montoya', 'Neymar', 'Alex Song', 'Antonio Amaya',
       'Marc Bartra', 'Rafinha', 'Luis Suarez', 'Ivan Rakitic',
       'Arda Turan', 'Munir El Haddadi', 'Lucas Digne', 'Sergi Roberto',
       'Javier Mascherano', 'Paco Alcacer', 'Paulinho', 'Aleix Vidal',
       'Denis Suarez', 'Ousmane Dembele', 'Philippe Coutinho',
       'Arturo Vidal', 'Nelson Semedo', 'Malcom', 'Clement Lenglet',
       'Antoine Griezmann', 'Arthur', 'Frenkie de Jong', 'Riqui Puig',
       'Francisco TrincÃ£o', 'Pedri', 'Martin Braithwaite',
       'Ilaix Moriba', 'Kylian Mbappe', 'Kylian Mbappé'], dtype=object)
```

See there is a 'nan' value . Though it's not error. We will replace this nan value by 'Own'

```
import numpy as np

df['Goal_assist'] = df['Goal_assist'].replace(np.nan, 'Own')
```

```
df.Goal_assist.unique()
```

```
array(['Ronaldinho Gaacho', 'Own', 'Samuel Etoo', 'Mark van Bommel',
       'Sylvinho', 'Ludovic Giuly', 'Andres Iniesta', 'Deco', 'Xavi',
       'Giovanni van Bronckhorst', 'Gianluca Zambrotta', 'Thierry Henry',
       'Bojan Krkic', 'Dani Alves', 'Aleksandr Hleb', 'Gerard Pique',
       'Zlatan Ibrahimovic', 'Pedro', 'Ã‰ric Abidal', 'Yaya Toure',
       'Seydou Keita', 'Maxwell', 'David Villa', 'Thiago', 'Adriano',
       'Ibrahim Afellay', 'Sergio Busquets', 'Cesc Fabregas',
       'Alexis Sanchez', 'Cristian Tello', 'Isaac Cuenca', 'Jordi Alba',
       'Marta Montoya', 'Neymar', 'Alex Song', 'Antonio Amaya',
       'Marc Bartra', 'Rafinha', 'Luis Suarez', 'Ivan Rakitic',
       'Arda Turan', 'Munir El Haddadi', 'Lucas Digne', 'Sergi Roberto',
       'Javier Mascherano', 'Paco Alcacer', 'Paulinho', 'Aleix Vidal',
       'Denis Suarez', 'Ousmane Dembele', 'Philippe Coutinho',
       'Arturo Vidal', 'Nelson Semedo', 'Malcom', 'Clement Lenglet',
       'Antoine Griezmann', 'Arthur', 'Frenkie de Jong', 'Riqui Puig',
       'Francisco TrincÃ£o', 'Pedri', 'Martin Braithwaite',
       'Ilaix Moriba', 'Kylian Mbappe', 'Kylian Mbappé'], dtype=object)
```

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 683 entries, 0 to 682
Data columns (total 13 columns):
 #   Column            Non-Null Count  Dtype 
---  ------            --------------  ----- 
 0   Season            683 non-null    object
 1   Competition       683 non-null    object
 2   Matchday          683 non-null    object
 3   Date              683 non-null    object
 4   Venue             683 non-null    object
 5   Club              683 non-null    object
 6   Opponent          683 non-null    object
 7   Result            683 non-null    object
 8   Playing_Position  683 non-null    object
 9   Minute            683 non-null    object
 10  At_score          683 non-null    object
 11  Type              682 non-null    object
 12  Goal_assist       683 non-null    object
dtypes: object(13)
memory usage: 69.5+ KB
```

Now, there is no empty cells in Goal_assist

Observing Others

```
df.describe()
```

	Season	Competition	Matchday	Date	Venue	Club	Opponent	Result	Playing_Position	Minute	At_s
count	683	683	683	683	683	683	683	683	683	683	
unique	18	7	48	439	2	2	88	46	9	96	
top	11/12	LaLiga	Group Stage	3/7/12	H	FC Barcelona	Sevilla FC	4:0	CF	55	
freq	73	474	76	5	410	672	38	45	266	13	

There is no error

```
import jovian
```

```
jovian.commit()
```

```
[jovian] Updating notebook "asad-cuet/messis-all-club-goals-analysis-02a07" on https://jovian.ai
[jovian] Committed successfully! https://jovian.ai/asad-cuet/messis-all-club-goals-analysis-02a07
```

```
'https://jovian.ai/asad-cuet/messis-all-club-goals-analysis-02a07'
```

Exploratory Analysis and Visualization

We will visualize data distribution of different columns here.

Let's begin by importing `matplotlib.pyplot and seaborn` .

```
import seaborn as sns
import matplotlib
import matplotlib.pyplot as plt
%matplotlib inline

sns.set_style('darkgrid')
matplotlib.rcParams['font.size'] = 14
matplotlib.rcParams['figure.figsize'] = (9, 5)
matplotlib.rcParams['figure.facecolor'] = '#00000000'
```

Visualizing here, in which season messi did most goals

```
df.Season.unique()
```

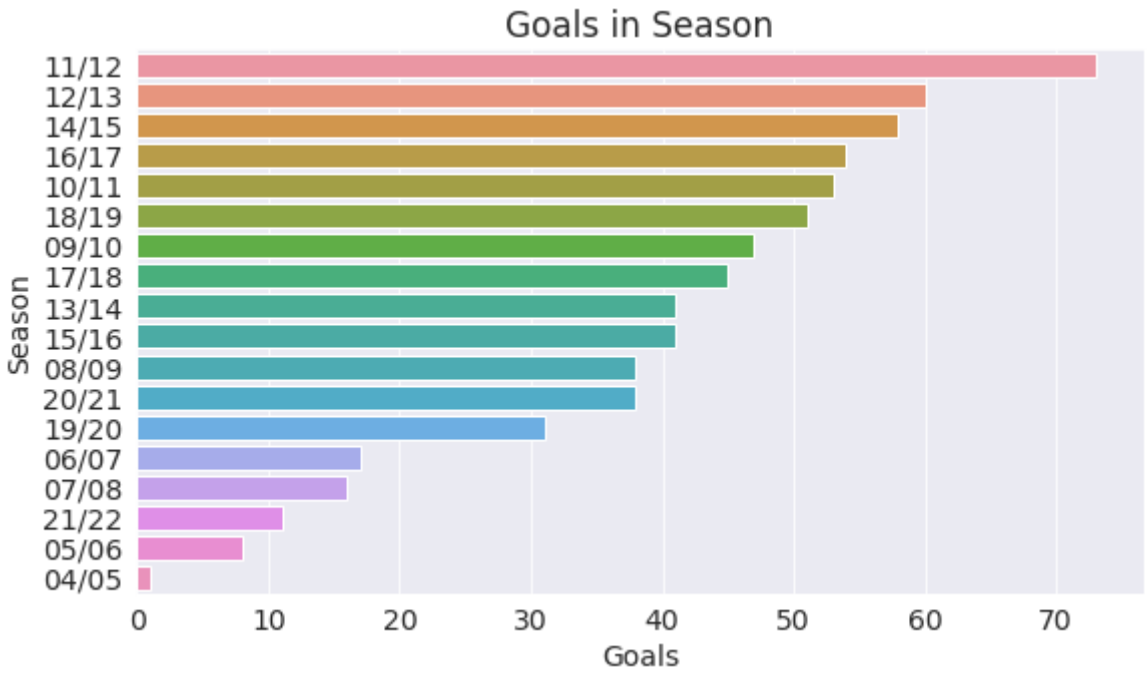
```
array(['04/05', '05/06', '06/07', '07/08', '08/09', '09/10', '10/11',
       '11/12', '12/13', '13/14', '14/15', '15/16', '16/17', '17/18',
       '18/19', '19/20', '20/21', '21/22'], dtype=object)
```

```
goal_in_season = df.Season.value_counts()

goal_in_season
```

```
11/12    73
12/13    60
14/15    58
16/17    54
10/11    53
18/19    51
09/10    47
17/18    45
13/14    41
15/16    41
08/09    38
20/21    38
19/20    31
06/07    17
07/08    16
21/22    11
05/06     8
04/05     1
Name: Season, dtype: int64
```

```
sns.barplot(
x=goal_in_season,
y=goal_in_season.index,
data=df
);

plt.title('Goals in Season')
plt.xlabel('Goals')
plt.ylabel('Season')
```

```
Text(0, 0.5, 'Season')
```



We see, Messi did most goals in 11/12 season and that is 73 goals

We see in 11/12 season messi did most goals 73. And 2nd highest is 12/13 season that is 60 goals

Visualizing here, in which competition messi did most goals

```
df.Competition.unique()
```

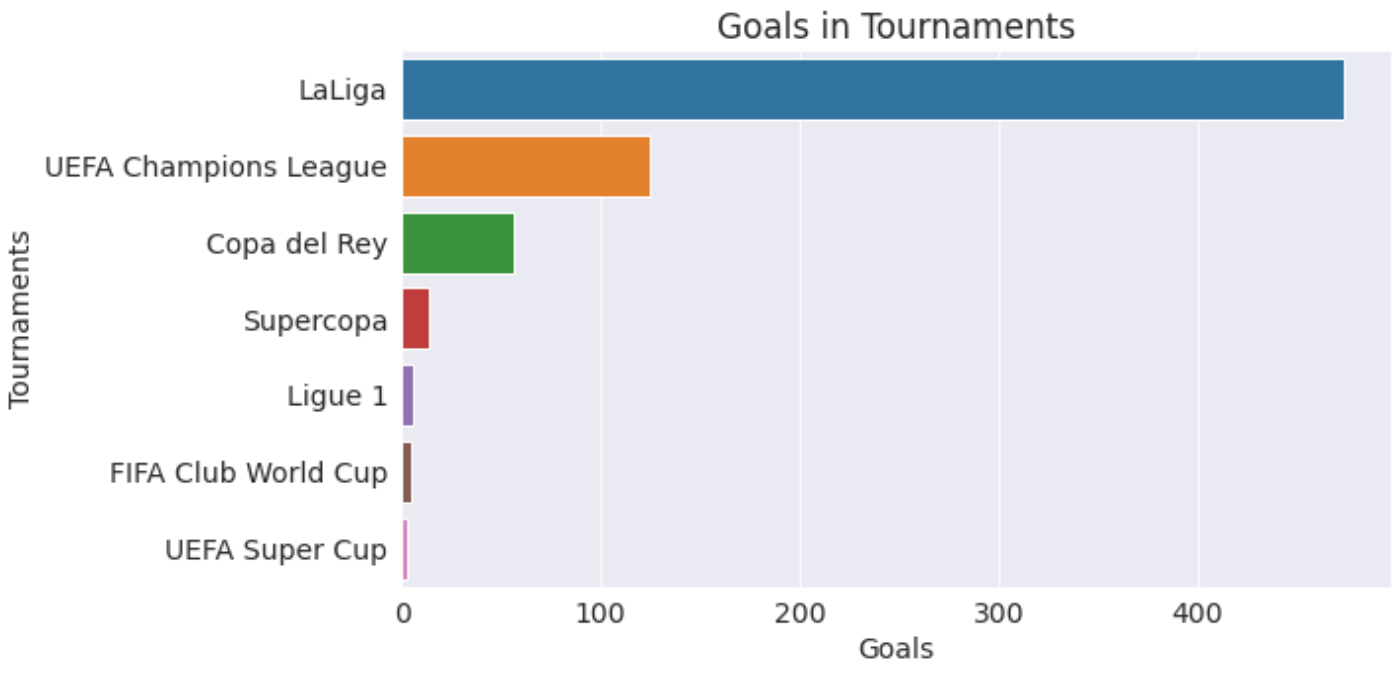
```
array(['LaLiga', 'UEFA Champions League', 'Copa del Rey', 'Supercopa',
       'FIFA Club World Cup', 'UEFA Super Cup', 'Ligue 1'], dtype=object)
```

```
competition_goals=df.Competition.value_counts()
competition_goals
```

```
LaLiga                  474
UEFA Champions League   125
Copa del Rey             56
Supercopa                14
Ligue 1                   6
FIFA Club World Cup       5
UEFA Super Cup            3
Name: Competition, dtype: int64
```

```
sns.barplot(
x=competition_goals,
y=competition_goals.index,
data=df
);

plt.title('Goals in Tournaments')
plt.xlabel('Goals')
plt.ylabel('Tournaments')
```

```
Text(0, 0.5, 'Tournaments')
```



We see, Messi did most goals in Laliga and that is 474

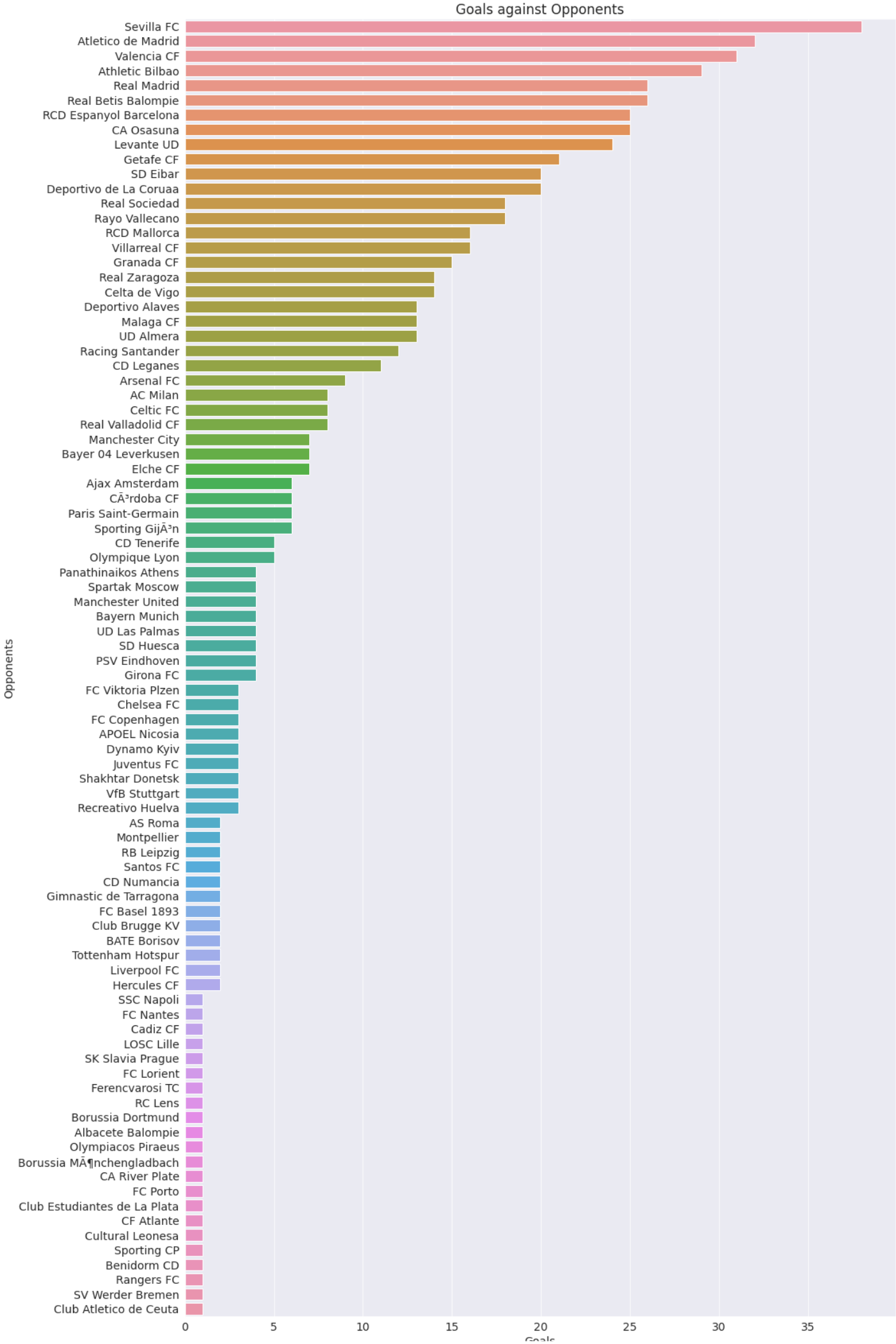
Visualizing here, in which opponent messi did most goals

```
opponent_goals=df.Opponent.value_counts()
opponent_goals
```

```
Sevilla FC                38
Atletico de Madrid        32
Valencia CF               31
Athletic Bilbao           29
Real Madrid               26
                          ..
Sporting CP                1
Benidorm CD                1
Rangers FC                 1
SV Werder Bremen           1
Club Atletico de Ceuta     1
Name: Opponent, Length: 88, dtype: int64
```

```
plt.figure(figsize=(16,30))
sns.barplot(
x=opponent_goals,
y=opponent_goals.index,
data=df
);

plt.title('Goals against Opponents')
plt.xlabel('Goals')
plt.ylabel('Opponents')
```

```
Text(0, 0.5, 'Opponents')
```


Goals against Opponents
Sevilla FC
Atletico de Madrid
Valencia CF
Athletic Bilbao
Real Madrid
Real Betis Balompie
RCD Espanyol Barcelona
CA Osasuna
Levante UD
Getafe CF
SD Eibar
Deportivo de La Coruaa
Real Sociedad
Rayo Vallecano
RCD Mallorca
Villarreal CF
Granada CF
Real Zaragoza
Celta de Vigo
Deportivo Alaves
Malaga CF
UD Almera
Racing Santander
CD Leganes
Arsenal FC
AC Milan
Celtic FC
Real Valladolid CF
Manchester City
Bayer 04 Leverkusen
Elche CF
Ajax Amsterdam
CÃ³rdoba CF
Paris Saint-Germain
Sporting GijÃ³n
CD Tenerife
Olympique Lyon
Panathinaikos Athens
Spartak Moscow
Manchester United
Bayern Munich
UD Las Palmas
SD Huesca
PSV Eindhoven
Girona FC
FC Viktoria Plzen
Chelsea FC
FC Copenhagen
APOEL Nicosia
Dynamo Kyiv
Juventus FC
Shakhtar Donetsk
VfB Stuttgart
Recreativo Huelva
AS Roma
Montpellier
RB Leipzig
Santos FC
CD Numancia
Gimnastic de Tarragona
FC Basel 1893
Club Brugge KV
BATE Borisov
Tottenham Hotspur
Liverpool FC
Hercules CF
SSC Napoli
FC Nantes
Cadiz CF
LOSC Lille
SK Slavia Prague
FC Lorient
Ferencvarosi TC
RC Lens
Borussia Dortmund
Albacete Balompie
Olympiacos Piraeus
Borussia MÃ¶nchengladbach
CA River Plate
FC Porto
Club Estudiantes de La Plata
CF Atlante
Cultural Leonesa
Sporting CP
Benidorm CD
Rangers FC
SV Werder Bremen
Club Atletico de Ceuta
Opponents
0
5
10
15
20
25
30
35
Goals

Goals

We see, Messi did highest goals against Sevilla Fc

Visualizing here, messi's Laliga goals

```
laliga_df=df[df['Competition']=='LaLiga']

laliga_df
```

	Season	Competition	Matchday	Date	Venue	Club	Opponent	Result	Playing_Position	Minute	At_
0	04/05	LaLiga	34	5/1/05	H	FC Barcelona	Albacete Balompie	2:0	CF	90+1	
2	05/06	LaLiga	13	11/27/05	H	FC Barcelona	Racing Santander	4:1	RW	51	
3	05/06	LaLiga	19	1/15/06	H	FC Barcelona	Athletic Bilbao	2:1	RW	50	
4	05/06	LaLiga	20	1/22/06	H	FC Barcelona	Deportivo Alaves	2:0	CF	82	
5	05/06	LaLiga	21	1/29/06	A	FC Barcelona	RCD Mallorca	0:3	CF	75	
...	...	...	...	...	...	...	...	...	...	...	
667	20/21	LaLiga	33	4/29/21	H	FC Barcelona	Granada CF	1:2	CF	23	
668	20/21	LaLiga	34	5/2/21	A	FC Barcelona	Valencia CF	2:3	CF	57	
669	20/21	LaLiga	34	5/2/21	A	FC Barcelona	Valencia CF	2:3	CF	69	
670	20/21	LaLiga	36	5/11/21	A	FC Barcelona	Levante UD	3:3	SS	25	
671	20/21	LaLiga	37	5/16/21	H	FC Barcelona	Celta de Vigo	1:2	SS	28	

474 rows × 13 columns

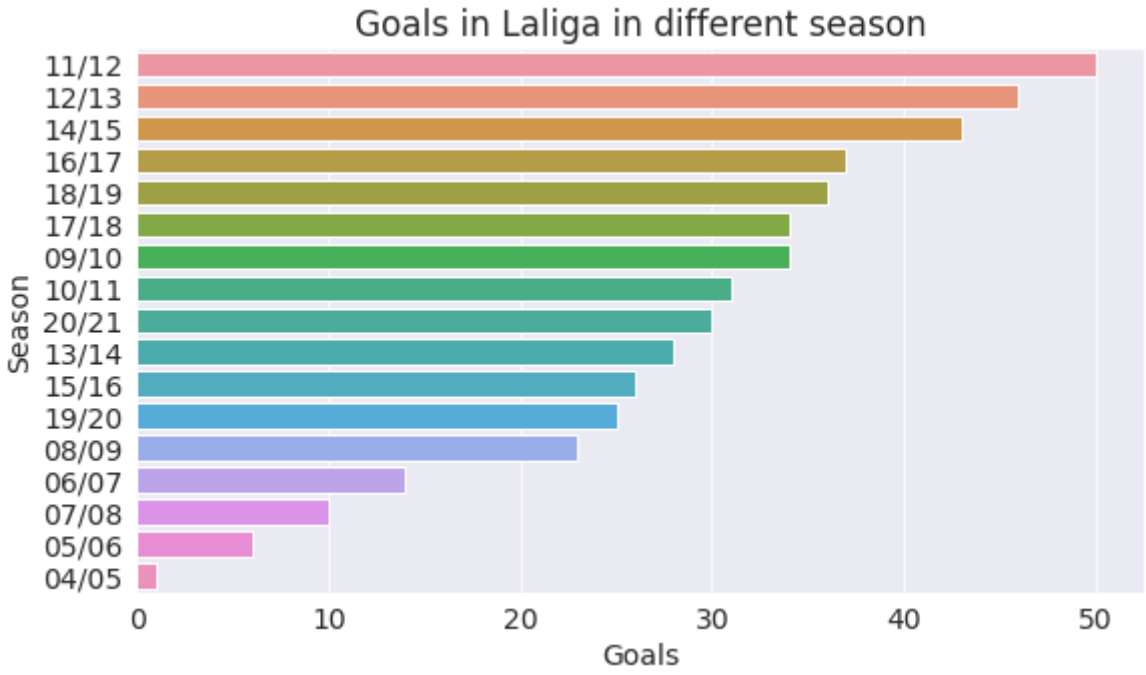
```
laliga_goals=laliga_df.Season.value_counts()

laliga_goals
```

```
11/12    50
12/13    46
14/15    43
16/17    37
18/19    36
17/18    34
09/10    34
```

```
10/11    31
20/21    30
13/14    28
15/16    26
19/20    25
08/09    23
06/07    14
07/08    10
05/06     6
04/05     1
Name: Season, dtype: int64
```

```
sns.barplot(
x=laliga_goals,
y=laliga_goals.index,
data=df
);

plt.title('Goals in Laliga in different season')
plt.xlabel('Goals')
plt.ylabel('Season')
```

```
Text(0, 0.5, 'Season')
```



Wee see, messi did most goals in laliga in 11/12 season

Let us save and upload our work to Jovian before continuing

```
import jovian
```

```
jovian.commit()
```

```
[jovian] Updating notebook "asad-cuet/messis-all-club-goals-analysis-02a07" on
```

```
https://jovian.ai
[jovian] Committed successfully! https://jovian.ai/asad-cuet/messis-all-club-goals-analysis-02a07
```

'https://jovian.ai/asad-cuet/messis-all-club-goals-analysis-02a07'

Asking and Answering Questions

We will know more about Messi's goal here.

Q1: Who assisted Messi most?

```
most_assist=df.Goal_assist.value_counts()
most_assist
```

```
Own               209
Luis Suarez        48
Dani Alves         42
Andres Iniesta     39
Xavi               34
                 ...
Aleksandr Hleb      1
Antonio Amaya       1
Alex Song           1
Maxwell             1
Aleix Vidal         1
Name: Goal_assist, Length: 65, dtype: int64
```

We see above, Luis Suarez is the player who assisted Messi most. But there is 209 goals which is assisted by anyone. Messi scored these goals by himself. That is extra-ordinary

Q2: By which body part messi scored most?

```
df.Type.value_counts()
```

```
Left-footed shot          422
Penalty                    84
Right-footed shot          81
Direct free kick           50
Header                     24
Tap-in                      9
Solo run                    4
Penalty rebound             3
Deflected shot on goal      2
Counter attack goal         1
Chest                       1
Long distance kick          1
Name: Type, dtype: int64
```

We see above, Messi scored most goals by his left foot and that is 422 goals

Q3: In which game Messi scored most?

```
df.Date.value_counts()
```

```
3/7/12     5
9/19/17    4
1/27/13    4
4/6/10     4
2/22/20    4
          ..
3/9/13     1
3/2/13     1
2/23/13    1
2/10/13    1
4/20/14    1
Name: Date, Length: 439, dtype: int64
```

```
high_goal_df=df[df['Date']=='3/7/12']
high_goal_df
```

	Season	Competition	Matchday	Date	Venue	Club	Opponent	Result	Playing_Position	Minute	At_sc
223	11/12	UEFA Champions League	last 16	3/7/12	H	FC Barcelona	Bayer 04 Leverkusen	7:1	CF	25	
224	11/12	UEFA Champions League	last 16	3/7/12	H	FC Barcelona	Bayer 04 Leverkusen	7:1	CF	42	
225	11/12	UEFA Champions League	last 16	3/7/12	H	FC Barcelona	Bayer 04 Leverkusen	7:1	CF	50	
226	11/12	UEFA Champions League	last 16	3/7/12	H	FC Barcelona	Bayer 04 Leverkusen	7:1	CF	58	
227	11/12	UEFA Champions League	last 16	3/7/12	H	FC Barcelona	Bayer 04 Leverkusen	7:1	CF	85	

We see in above dataset, Messi scored 5 goals in a single match. That match was against Bayer 04 Leverkusen. The Season was 11/12 and Date was 3/7/12

Q4: From which position Messi scored most goals?

```
df.Playing_Position.value_counts()
```

```
CF     266
RW     220
RW      95
CF      40
SS      32
SS      18
AM       7
AM       4
```

```
LW       1
Name: Playing_Position, dtype: int64
```

We see above, As a CF player messi scored most, that is 266 goals.

Q5: How much match Messi won?

```
pandas.set_option('display.max_rows', df.shape[0]+1)
dup=df.Date.duplicated()
dup
```

```
0      False
1      False
2      False
3      False
4      False
5      False
6       True
7      False
8      False
9      False
10     False
11     False
12     False
13     False
14      True
15      True
16     False
17     False
18     False
19      True
20     False
21      True
22     False
23      True
24     False
25      True
26     False
27     False
28      True
29     False
30      True
31     False
32     False
33     False
34     False
35     False
36     False
37     False
38     False
```

39 True
40 False
41 False
42 False
43 False
44 True
45 False
46 False
47 True
48 False
49 False
50 False
51 False
52 False
53 False
54 False
55 False
56 True
57 False
58 False
59 True
60 True
61 False
62 False
63 False
64 True
65 False
66 True
67 False
68 False
69 False
70 False
71 False
72 False
73 True
74 False
75 False
76 False
77 True
78 False
79 False
80 False
81 True
82 False
83 False
84 True
85 False
86 True
87 False

88 False
89 False
90 False
91 False
92 True
93 False
94 False
95 False
96 False
97 True
98 True
99 False
100 True
101 False
102 False
103 False
104 False
105 True
106 False
107 True
108 True
109 False
110 True
111 False
112 True
113 True
114 False
115 False
116 True
117 True
118 True
119 False
120 False
121 True
122 False
123 True
124 False
125 False
126 True
127 False
128 True
129 True
130 False
131 False
132 True
133 False
134 False
135 False
136 True

```
137    False
138     True
139    False
140     True
141    False
142    False
143    False
144    False
145     True
146    False
147     True
148     True
149    False
150    False
151     True
152    False
153     True
154    False
155    False
156     True
157     True
158    False
159    False
160    False
161     True
162    False
163     True
164    False
165     True
166     True
167    False
168    False
169    False
170    False
171     True
172    False
173     True
174    False
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676    False
677     True
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679    False
680    False
681    False
682     True
Name: Date, dtype: bool
```

```
df[4:8]
```

	Season	Competition	Matchday	Date	Venue	Club	Opponent	Result	Playing_Position	Minute	At_score
4	05/06	LaLiga	20	1/22/06	H	FC Barcelona	Deportivo Alaves	2:0	CF	82	2:0
5	05/06	LaLiga	21	1/29/06	A	FC Barcelona	RCD Mallorca	0:3	CF	75	0:2
6	05/06	LaLiga	21	1/29/06	A	FC Barcelona	RCD Mallorca	0:3	CF	83	0:3
7	05/06	Copa del Rey	Quarter-Finals	2/1/06	H	FC Barcelona	Real Zaragoza	2:1	CF	42	1:0

See above in row 5,6. These are same match and these result is 1 match result. So we need avoid same match result

```
new_df=df.copy()
```

```
i=0

for x in dup:
    if(x==True):
        new_df.drop(i,inplace=True)
        print(x,i)
    i=i+1
```

```
True 6
True 14
True 15
True 19
True 21
True 23
True 25
True 28
True 30
True 39
True 44
```

True 47
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True 660
True 662
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True 669
True 674
True 677
True 682
```

Same match row is removed

```
new_df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 439 entries, 0 to 681
Data columns (total 13 columns):
 #   Column            Non-Null Count  Dtype 
---  ------            --------------  ----- 
 0   Season            439 non-null    object
 1   Competition       439 non-null    object
 2   Matchday          439 non-null    object
 3   Date              439 non-null    object
 4   Venue             439 non-null    object
 5   Club              439 non-null    object
 6   Opponent          439 non-null    object
 7   Result            439 non-null    object
 8   Playing_Position  439 non-null    object
 9   Minute            439 non-null    object
 10  At_score          439 non-null    object
 11  Type              438 non-null    object
 12  Goal_assist       439 non-null    object
dtypes: object(13)
memory usage: 48.0+ KB
```

From above we see Messi scored in 439 Matches

```
new_df.Date.duplicated()
```

```
0      False
1      False
2      False
3      False
4      False
5      False
7      False
8      False
9      False
10     False
11     False
12     False
13     False
16     False
17     False
18     False
20     False
22     False
24     False
26     False
27     False
29     False
31     False
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679 False

```
680    False
681    False
Name: Date, dtype: bool
```

Now, there is no duplicated matche

```
new_df.sample(3)
```

	Season	Competition	Matchday	Date	Venue	Club	Opponent	Result	Playing_Position	Minute	At_sc
353	13/14	LaLiga	36	5/3/14	H	FC Barcelona	Getafe CF	2:2	CF	23	
186	11/12	LaLiga	4	9/17/11	H	FC Barcelona	CA Osasuna	8:0	CF	5	
313	13/14	LaLiga	1	8/18/13	H	FC Barcelona	Levante UD	7:0	CF	13	

```
result=new_df.Result
cnt=0
for x in result:
    if(x[0]>x[2]):
        cnt=cnt+1

print(cnt)
```

```
239
```

Therefore, Messi scored in 439 matches. In these, Messi won 385 matches

Let us save and upload our work to Jovian before continuing.

```
import jovian
```

```
jovian.commit()
```

```
[jovian] Updating notebook "asad-cuet/messis-all-club-goals-analysis-02a07" on https://jovian.ai
[jovian] Committed successfully! https://jovian.ai/asad-cuet/messis-all-club-goals-analysis-02a07
```

```
'https://jovian.ai/asad-cuet/messis-all-club-goals-analysis-02a07'
```

Inferences and Conclusion

From Q-1 we can say messi have good combination with Luis Suarez, Dani Alves, Xavi and Iniesta. He got most assist from them. Messi scored 209 goals by his own. So he isn't dependent on other player only. He can create goals by himself. Messi's most goal peak was in 11//12 season. He broke highest calender year goal that year.

```
import jovian
```

```
jovian.commit()
```

```
[jovian] Updating notebook "asad-cuet/messis-all-club-goals-analysis-02a07" on https://jovian.ai
[jovian] Committed successfully! https://jovian.ai/asad-cuet/messis-all-club-goals-analysis-02a07
```

```
'https://jovian.ai/asad-cuet/messis-all-club-goals-analysis-02a07'
```

References and Future Work

Dataset link: https://github.com/azminewasi/Lionel-Messi-Club-Goals/

I will analyse Messi vs cristiano Ronaldo goals in future. This dataset will useful for that analysis.

```
import jovian
```

```
jovian.commit()
```

```

```