

# EDA-LA

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## **DATA SET:-**

The datasets provided include the players data for the Career Mode from FIFA 15 to FIFA 20 ("players\_20.csv"). The data allows multiple comparison of the same players across the last 6 version of the videogame

<https://www.kaggle.com/stefanoleone992/fifa-20-complete-player-dataset>

**Github link :-** [https://github.com/1nt18is021/eda\\_LA](https://github.com/1nt18is021/eda_LA)

edata.Rmd

1-10 of 10 rows | 1-10 of 104 columns

```

26 4. Display tail of data.
27 ~~~{r}
28 tail(players_data)
29 ~~~

```

	sofifa_id	player_url	short_name	long_name	age	dob	height_cm	weight_kg	nationality
15460	214725	https://sofifa.com/player/214725/sam-ramsbottom/15/157759	S. Ramsbottom	Sam Ramsbottom	18	1996-04-03	196	80	England
15461	220806	https://sofifa.com/player/220806/ellis-redman/15/157759	E. Redman	Ellis Redman	17	1996-09-26	187	81	Wales
15462	225509	https://sofifa.com/player/225509/aaron-collins/15/157759	A. Collins	Aaron Collins	17	1997-06-01	178	57	Wales
15463	217591	https://sofifa.com/player/217591/piotr-zemlo/15/157759	P. Å»emÅ»o	Piotr Å»emÅ»o	18	1995-07-10	190	76	Poland
15464	222947	https://sofifa.com/player/222947/tom-davies/15/157759	T. Davies	Tom Davies	22	1992-04-18	180	70	England
15465	201197	https://sofifa.com/player/201197/paul-tisdale/15/157759	P. Tisdale	Paul Tisdale	41	1973-01-14	175	72	Malta

6 rows | 1-10 of 104 columns

```

30 5. Display n rows specified from bottom
31 ~~~{r}
32 tail(players_data,n=10)
33 ~~~

```

	sofifa_id	player_url	short_name	long_name	age	dob	height_cm	weight_kg	nationality
15456	11728	https://sofifa.com/player/11728/barry-richardson/15/157759	B. Richardson	Barry Richardson	44	1969-08-05	185	77	England
15457	211228	https://sofifa.com/player/211228/matthew-palmer/15/157759	M. Palmer	Matthew Palmer	18	1995-08-01	179	79	England
15458	220939	https://sofifa.com/player/220939/luke-pilling/15/157759	L. Pilling	Luke Pilling	16	1997-07-25	180	69	Wales
15459	222997	https://sofifa.com/player/222997/marcus-maier/15/157759	M. Maier	Marcus Maier	18	1995-12-18	174	70	Austria
15460	214725	https://sofifa.com/player/214725/sam-ramsbottom/15/157759	S. Ramsbottom	Sam Ramsbottom	18	1996-04-03	196	80	England
15461	220806	https://sofifa.com/player/220806/ellis-redman/15/157759	E. Redman	Ellis Redman	17	1996-09-26	187	81	Wales
15462	225509	https://sofifa.com/player/225509/aaron-collins/15/157759	A. Collins	Aaron Collins	17	1997-06-01	178	57	Wales
15463	217591	https://sofifa.com/player/217591/piotr-zemlo/15/157759	P. Å»emÅ»o	Piotr Å»emÅ»o	18	1995-07-10	190	76	Poland
15464	222947	https://sofifa.com/player/222947/tom-davies/15/157759	T. Davies	Tom Davies	22	1992-04-18	180	70	England
15465	201197	https://sofifa.com/player/201197/paul-tisdale/15/157759	P. Tisdale	Paul Tisdale	41	1973-01-14	175	72	Malta

1-10 of 10 rows | 1-10 of 104 columns

```

34 6. Determining Type of data class(players_data)
35 ~~~{r}
36 tail(players_data,n=10)
37 ~~~

```

	sofifa_id	player_url	short_name	long_name	age	dob	height_cm	weight_kg	nationality
15456	11728	https://sofifa.com/player/11728/barry-richardson/15/157759	B. Richardson	Barry Richardson	44	1969-08-05	185	77	England
15457	211228	https://sofifa.com/player/211228/matthew-palmer/15/157759	M. Palmer	Matthew Palmer	18	1995-08-01	179	79	England
15458	220939	https://sofifa.com/player/220939/luke-pilling/15/157759	L. Pilling	Luke Pilling	16	1997-07-25	180	69	Wales
15459	222997	https://sofifa.com/player/222997/marcus-maier/15/157759	M. Maier	Marcus Maier	18	1995-12-18	174	70	Austria

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Project: (None)

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15457	211228	https://sofifa.com/player/211228/matthew-palmer/15/157759	M. Palmer	Matthew Palmer	18	1995-08-01	179	79	England															
15458	220939	https://sofifa.com/player/220939/luke-pilling/15/157759	L. Pilling	Luke Pilling	16	1997-07-25	180	69	Wales															
15459	222997	https://sofifa.com/player/222997/marcus-maier/15/157759	M. Maier	Marcus Maier	18	1995-12-18	174	70	Austria															
15460	214725	https://sofifa.com/player/214725/sam-ramsbottom/15/157759	S. Ramsbottom	Sam Ramsbottom	18	1996-04-03	196	80	England															
15461	220806	https://sofifa.com/player/220806/ellis-redman/15/157759	E. Redman	Ellis Redman	17	1996-09-26	187	81	Wales															
15462	225509	https://sofifa.com/player/225509/aaron-collins/15/157759	A. Collins	Aaron Collins	17	1997-06-01	178	57	Wales															
15463	217591	https://sofifa.com/player/217591/piotr-zemlo/15/157759	P. Å <sup>em</sup> <o> o</o>	Piotr Å <sup>em</sup> <o> o</o>	18	1995-07-10	190	76	Poland															
15464	222947	https://sofifa.com/player/222947/tom-davies/15/157759	T. Davies	Tom Davies	22	1992-04-18	180	70	England															
15465	201197	https://sofifa.com/player/201197/paul-tisdale/15/157759	P. Tisdale	Paul Tisdale	41	1973-01-14	175	72	Malta															

1-10 of 10 rows | 1-10 of 104 columns

38 7. Table command table(players\_data\$potential)

39 `...{r}`40 `table(players_data$height_cm)`41 `...`

```
155 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181
 1   1   3   8   2   9   23   27   76   37   74   172 121   415 238 364 525 393 829 557 570 1068 543 1369 589
182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 203
761 1055 688 1008 665 555 748 311 399 375 206 267 137 84 91 37 32 16 5 7 3
```

42 8. Determine the structure of data

43 `...{r}`44 `str(players_data)`45 `...`

```
'data.frame': 15465 obs. of 104 variables:
 $ sofifa_id     : int 158023 20801 9014 41236 167495 176580 183277 7826 121944 156616 ...
 $ player_url    : chr "https://sofifa.com/player/158023/lionel-messi/15/157759" "https://sofifa.com/player/20801/c-ronaldo-dos-santos-aveiro/15/157759" "https://sofifa.com/player/9014/arjen-robben/15/157759"
 "https://sofifa.com/player/41236/zlatan-ibrahimovic/15/157759" ...
 $ short_name    : chr "L. Messi" "Cristiano Ronaldo" "A. Robben" "Z. Ibrahimovi  ...
 $ long_name     : chr "Lionel Andr es Messi Cuccittini" "Cristiano Ronaldo dos Santos Aveiro" "Arjen Robben" "Zlatan Ibrahimovi  ...
 $ age          : int 27 29 30 32 28 27 23 30 29 31 ...
 $ dob          : chr "1987-06-24" "1985-02-05" "1984-01-23" "1981-10-03" ...
 $ height_cm    : int 169 185 180 195 193 181 173 187 183 170 ...
 $ weight_kg    : int 67 80 85 92 81 74 71 79 72 ...
 $ nationality   : chr "Argentina" "Portugal" "Netherlands" "Sweden" ...
 $ club         : chr "FC Barcelona" "Real Madrid" "FC Bayern M nchen" "Paris Saint-Germain" ...
 $ overall       : int 93 92 90 90 89 88 88 88 ...
 $ potential     : int 95 92 90 90 90 91 90 88 88 88 ...
 $ value_eur     : int 0 0 0 0 0 0 0 0 0 0 ...
 $ wage_eur      : int 0 0 0 0 0 0 0 0 0 0 ...
 $ player_positions: chr "CF" "LW, LM" "RM, LM, RW" "ST" ...
 $ preferred_foot: chr "Left" "Right" "Left" "Right" ...
 $ international_reputation: int 5 5 5 5 5 5 4 5 4 4 ...
 $ weak_foot     : int 3 4 2 4 4 4 4 3 3 4 ...
 $ skill_moves   : int 4 5 4 4 1 4 4 4 3 5 ...
 $ work_rate     : chr "Medium/Low" "High/Low" "High/Low" "Medium/Low" ...
 $ body_type     : chr "Normal" "Normal" "Normal" "Normal" ...
 $ real_face     : chr "Yes" "Yes" "Yes" "Yes" ...
```

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$ work_rate : chr "Medium/Low" "High/Low" "High/Low" "Medium/Low" ...
$ body_type : chr "Normal" "Normal" "Normal" "Normal" ...
$ real_face : chr "Yes" "Yes" "Yes" "Yes" ...
$ release_clause_eur : logi NA NA NA NA NA NA ...
##player_tags "#Speedster, #Dribbler, #FK Specialist, #Acrobat, #Clinical Finisher, #Complete Forward" "#speedster, #dribbler, #distance shooter, #Acrobat, #strength, #clinical finisher, #complete forward"
$ team_position : chr "CF" "LW" "SUB" "ST" ...
$ team_jersey_number : int 10 7 10 10 1 9 10 20 31 7 ...
$ loaned_from : chr "" "" "" ...
$ joined : chr "2004-07-01" "2009-07-01" "2009-08-28" "2012-07-01" ...
$ contract_valid_until : int 2018 2018 2017 2016 2019 2019 2017 2016 2016 2017 ...
$ nation_position : chr "CF" "LW" "RS" "ST" ...
$ nation_jersey_number : int 10 7 11 10 1 NA 10 9 7 NA ...
$ pace : int 93 93 93 76 NA 83 90 74 61 89 ...
$ shooting : int 89 93 86 91 NA 87 82 90 81 78 ...
$ passing : int 86 81 83 81 NA 79 84 82 85 85 ...
$ dribbling : int 96 91 92 86 NA 88 91 83 82 92 ...
$ defending : int 27 32 32 34 NA 42 32 33 78 29 ...
$ physic : int 63 79 64 86 NA 79 64 68 80 62 ...
$ gk_diving : int NA NA NA 87 NA NA NA NA NA ...
$ gk_handling : int NA NA NA 85 NA NA NA NA NA ...
$ gk_kicking : int NA NA NA 92 NA NA NA NA NA ...
$ gk_reflexes : int NA NA NA 86 NA NA NA NA NA ...
$ gk_speed : int NA NA NA NA 60 NA NA NA NA NA ...
$ gk_positioning : int NA NA NA 90 NA NA NA NA NA ...
$ player_traits : chr "Finesse shot, Speed Dribbler (CPU AI Only), One club Player, Team Player" "Power Free-Kick, Flair, Long Shot Taker (CPU AI Only), Speed Dribbler (CPU AI Only)" "Diver, Injury Prone, Avoids using weaker Foot, Selfish, Long Shot Taker (CPU AI Only), Speed Dribbler (CPU AI Only)" | __truncated__ "Power Free-Kick, Leadership, Flair, Long Shot Taker (CPU AI Only), Technical Dribbler (CPU AI Only)" ...
$ attacking_crossing : chr "84" "83" "80" "76" ...
$ attacking_finishing : chr "94-3" "95+3" "85+2" "91" ...
$ attacking_heading_accuracy : chr "71" "86" "50" "77" ...
$ attacking_short_passing : chr "89" "82" "86+2" "84-2" ...
$ attacking_volleys : chr "85-5" "87+2" "86+2" "92+3" ...
$ skill_dribbling : chr "96-1" "93+3" "93" "88" ...
$ skill_curve : chr "89+2" "88" "85" "80" ...
$ skill_fk_accuracy : chr "90+4" "79" "83-1" "80" ...
$ skill_long_passing : chr "76" "72" "76+3" "76+4" ...
$ skill_ball_control : chr "96" "92-3" "90+1" "90" ...
$ movement_acceleration : chr "96" "91" "93" "74+2" ...
$ movement_sprint_speed : chr "90+2" "94" "93+2" "77-1" ...
$ movement_agility : chr "94" "93" "93+1" "86" ...
$ movement_reactions : chr "94-2" "90" "89+2" "85" ...
$ movement_balance : chr "95" "63-12" "91" "41" ...
$ power_shot_power : chr "80-1" "94" "86" "93" ...
$ power_jumping : chr "73" "94" "61" "72" ...
$ power_stamina : chr "77-1" "89" "78+11" "78" ...
$ power_strength : chr "60" "79" "65" "93" ...
$ power_long_shots : chr "88" "93" "90+1" "88" ...
$ mentality_aggression : chr "48" "63" "47+9" "84" ...
$ mentality_interceptions : chr "22" "24" "39+1" "20" ...
$ mentality_positioning : chr "92-1" "91+2" "89+2" "86" ...
$ mentality_vision : chr "90" "81" "84+2" "83-1" ...
$ mentality_penalties : chr "76" "85" "80+1" "91" ...
$ mentality_composure : logi NA NA NA NA NA NA ...
$ defending_marking : chr "25" "22" "29" "25" ...
$ defending_standing_tackle : chr "21" "31" "26+2" "41-8" ...

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Console





```

46 9.summarising the data
47 ~~~{r}
48 summary(players_data)
49

  sofifa_id      player_url      short_name      long_name      age      dob      height_cm
Min.   : 2       Length:15465    Length:15465    Length:15465    Min.   :16.00  Length:15465    Min.   :155.0
1st Qu.:178043   Class :character  Class :character  Class :character  1st Qu.:21.00  Class :character  1st Qu.:176.0
Median :200844   Mode  :character  Mode  :character  Mode  :character  Median :24.00  Mode  :character  Median :181.0
Mean   :189299   NA's   :15465    NA's   :15465    NA's   :15465    Mean   :24.76  NA's   :15465    Mean   :181.1
3rd Qu.:214326   NA's   :15465    NA's   :15465    NA's   :15465    3rd Qu.:28.00  NA's   :15465    3rd Qu.:186.0
Max.   :225562   NA's   :15465    NA's   :15465    NA's   :15465    Max.   :44.00  NA's   :15465    Max.   :203.0

  weight_kg      nationality      club      overall      potential      value_eur      wage_eur      player_positions
Min.   : 50.00  Length:15465    Length:15465    Min.   :40.00  Min.   :40.00  Min.   :0       Min.   :0       Length:15465
1st Qu.: 70.00  Class :character  Class :character  1st Qu.:59.00  1st Qu.:64.00  1st Qu.:0       1st Qu.:0       Class :character
Median : 75.00  Mode  :character  Mode  :character  Median :64.00  Median :68.00  Median :0       Median :0       Mode  :character
Mean   : 75.48  NA's   :15465    NA's   :15465    Mean   :63.95  Mean   :68.48  Mean   :0       Mean   :0       NA's   :15465
3rd Qu.: 80.00  NA's   :15465    NA's   :15465    3rd Qu.:69.00  3rd Qu.:73.00  3rd Qu.:0       3rd Qu.:0       NA's   :15465
Max.   :110.00  NA's   :15465    NA's   :15465    Max.   :93.00  Max.   :95.00  Max.   :0       Max.   :0       NA's   :15465

  preferred_foot      international_reputation      weak_foot      skill_moves      work_rate      body_type
Length:15465    Min.   :1.000      Min.   :1.000      Min.   :1.000      Length:15465    Length:15465
Class :character  1st Qu.:1.000    1st Qu.:3.000    1st Qu.:2.000    Class :character  Class :character
Mode  :character  Median :1.000    Median :3.000    Median :2.000    Mode  :character  Mode  :character
Mean   :1.126      Mean   :2.932      Mean   :2.267      Mean   :2.267
3rd Qu.:1.000      3rd Qu.:3.000    3rd Qu.:3.000    3rd Qu.:3.000    3rd Qu.:3.000
Max.   :5.000      Max.   :5.000      Max.   :5.000      Max.   :5.000      Max.   :5.000

  real_face      release_clause_eur      player_tags      team_position      team_jersey_number      loaned_from
Length:15465    Mode:logical      Length:15465    Length:15465    Min.   : 1.0       Length:15465
Class :character  NA's:15465      Class :character  Class :character  1st Qu.: 8.0       Class :character
Mode  :character  NA's:15465      Mode  :character  Mode  :character  Median :17.0       Mode  :character
Mean   :          NA's:15465      NA's:15465      NA's:15465      Mean   :19.8       NA's:15465
3rd Qu.:          NA's:15465      NA's:15465      NA's:15465      3rd Qu.:26.0       NA's:15465
Max.   :          NA's:15465      NA's:15465      NA's:15465      Max.   :99.0       NA's:15465
NA's   :232        NA's:15465      NA's:15465      NA's:15465      NA's   :232        NA's:15465

  joined      contract_valid_until      nation_position      nation_jersey_number      pace      shooting      passing
Length:15465    Min.   :2014      Length:15465    Length:15465    Min.   : 1.00      Min.   :22.00      Min.   :24.00
Class :character  1st Qu.:2015    Class :character  Class :character  1st Qu.: 6.00      1st Qu.:62.00      1st Qu.:49.00
Mode  :character  Median :2016    Mode  :character  Mode  :character  Median :12.00      Median :69.00      Median :53.00
Mean   :2017      Mean   :2017      Mean   :2017      Mean   :12.03      Mean   :68.09      Mean   :51.67      Mean   :55.74
3rd Qu.:2019      3rd Qu.:2019      3rd Qu.:2019      3rd Qu.:18.00      3rd Qu.:76.00      3rd Qu.:62.00      3rd Qu.:63.00
Max.   :2021      Max.   :2021      Max.   :2021      Max.   :28.00      Max.   :97.00      Max.   :93.00      Max.   :91.00
NA's   :239        NA's   :239        NA's   :239        NA's   :14409     NA's   :1703        NA's   :1703        NA's   :1703
NA's   :1703      NA's   :1703      NA's   :1703      NA's   :1703        NA's   :1703        NA's   :1703        NA's   :1703

  dribbling      defending      physic      gk_diving      gk_handling      gk_kicking      gk_reflexes      gk_speed
Min.   :25.00    Min.   :21.00    Min.   :28.00    Min.   :35.00    Min.   :36.00    Min.   :21.00    Min.   :31.00    Min.   :20.0
1st Qu.:54.00   1st Qu.:33.00   1st Qu.:58.00   1st Qu.:59.00   1st Qu.:55.00   1st Qu.:53.00   1st Qu.:60.00   1st Qu.:39.0
Median :62.00   Median :53.00   Median :66.00   Median :64.00   Median :61.00   Median :59.00   Median :65.00   Median :44.0
Mean   :60.62   Mean   :50.00   Mean   :64.6    Mean   :64.71   Mean   :60.82   Mean   :59.45   Mean   :65.95   Mean   :43.9
3rd Qu.:68.00   3rd Qu.:63.00   3rd Qu.:72.0    3rd Qu.:70.00   3rd Qu.:67.00   3rd Qu.:65.00   3rd Qu.:72.00   3rd Qu.:49.0
Max.   :96.00   Max.   :90.00   Max.   :91.0    Max.   :88.00   Max.   :87.00   Max.   :92.00   Max.   :90.00   Max.   :66.0
NA's   :1703      NA's   :1703      NA's   :1703      NA's   :13762     NA's   :13762     NA's   :13762     NA's   :13762     NA's   :13762
gk_positioning      player_traits      attacking_crossing      attacking_finishing      attacking_heading_accuracy      attacking_short_passing

```

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R Markdown

Console



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eda.Rmd * Go to file/function Addins * Project: (None)
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```
1st Qu.:54.00 1st Qu.:33 1st Qu.:58.0 1st Qu.:59.00 1st Qu.:55.00 1st Qu.:53.00 1st Qu.:60.00 1st Qu.:39.0  
Median :62.00 Median :53 Median :66.0 Median :64.00 Median :61.00 Median :59.00 Median :65.00 Median :44.0  
Mean :60.62 Mean :50 Mean :64.6 Mean :64.71 Mean :60.82 Mean :59.45 Mean :65.95 Mean :43.9  
3rd Qu.:68.00 3rd Qu.:63 3rd Qu.:72.0 3rd Qu.:70.00 3rd Qu.:67.00 3rd Qu.:65.00 3rd Qu.:72.00 3rd Qu.:49.0  
Max. :96.00 Max. :90 Max. :91.0 Max. :88.00 Max. :87.00 Max. :92.00 Max. :90.00 Max. :66.0  
NA's :1703 NA's :1703 NA's :1703 NA's :13762 NA's :13762 NA's :13762 NA's :13762 NA's :13762  
gk_positioning player_traits attacking_crossing attacking_finishing attacking_heading_accuracy attacking_short_passing  
Min. :38.00 Length:15465 Length:15465 Length:15465 Length:15465 Length:15465  
1st Qu.:54.00 Class :character Class :character class :character Class :character Class :character  
Median :61.00 Mode :character Mode :character Mode :character Mode :character Mode :character  
Mean :61.23  
3rd Qu.:68.00  
Max. :90.00  
NA's :13762  
attacking_volleys skill_dribbling skill_curve skill_fk_accuracy skill_long_passing skill_ball_control  
Length:15465 Length:15465 Length:15465 Length:15465 Length:15465 Length:15465  
Class :character Class :character Class :character Class :character Class :character Class :character  
Mode :character Mode :character Mode :character Mode :character Mode :character Mode :character  
  
movement_acceleration movement_sprint_speed movement_agility movement_reactions movement_balance power_shot_power  
Length:15465 Length:15465 Length:15465 Length:15465 Length:15465 Length:15465  
Class :character Class :character Class :character class :character Class :character Class :character  
Mode :character Mode :character Mode :character Mode :character Mode :character Mode :character  
  
power_jumping power_stamina power_strength power_long_shots mentality_aggression mentality_interceptions  
Length:15465 Length:15465 Length:15465 Length:15465 Length:15465 Length:15465  
Class :character Class :character Class :character class :character Class :character Class :character  
Mode :character Mode :character Mode :character Mode :character Mode :character Mode :character  
  
mentality_positioning mentality_vision mentality_penalties mentality_composure defending_marking defending_standing_tackle  
Length:15465 Length:15465 Length:15465 Mode:logical Length:15465 Length:15465  
Class :character Class :character Class :character NA's:15465 Class :character Class :character  
Mode :character Mode :character Mode :character Mode :character Mode :character Mode :character  
  
defending_sliding_tackle goalkeeping_diving goalkeeping_handling goalkeeping_kicking goalkeeping_positioning goalkeeping_reflexes  
Length:15465 Length:15465 Length:15465 Length:15465 Length:15465 Length:15465  
Class :character Class :character Class :character Class :character Class :character Class :character  
Mode :character Mode :character Mode :character Mode :character Mode :character Mode :character
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Console



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Run

```
mentality_positioning mentality_vision mentality_penalties mentality_composure defending_marking defending_standing_tackle
Length:15465 Length:15465 Length:15465 Mode:logical Length:15465 Length:15465
Class :character Class :character Class :character NA's:15465 Class :character class :character
Mode :character Mode :character Mode :character Mode :character Mode :character
```

```
defending_sliding_tackle goalkeeping_diving goalkeeping_handling goalkeeping_kicking goalkeeping_positioning goalkeeping_reflexes
Length:15465 Length:15465 Length:15465 Length:15465 Length:15465 Length:15465
Class :character Class :character Class :character Class :character Class :character class :character
Mode :character Mode :character Mode :character Mode :character Mode :character Mode :character
```

```
ls st rs lw lf cf
Length:15465 Length:15465 Length:15465 Length:15465 Length:15465 Length:15465
Class :character Class :character Class :character class :character Class :character Class :character
Mode :character Mode :character Mode :character Mode :character Mode :character Mode :character
```

```
rf rw lam cam ram lm
Length:15465 Length:15465 Length:15465 Length:15465 Length:15465 Length:15465
Class :character Class :character Class :character class :character Class :character class :character
Mode :character Mode :character Mode :character Mode :character Mode :character Mode :character
```

```
lcm cm rcm rm lwb ldm
Length:15465 Length:15465 Length:15465 Length:15465 Length:15465 Length:15465
Class :character Class :character Class :character class :character Class :character Class :character
Mode :character Mode :character Mode :character Mode :character Mode :character Mode :character
```

```
cdm rdm rwb lb lcb cb
Length:15465 Length:15465 Length:15465 Length:15465 Length:15465 Length:15465
Class :character Class :character Class :character class :character Class :character Class :character
Mode :character Mode :character Mode :character Mode :character Mode :character Mode :character
```

```
rcb rb
Length:15465 Length:15465
Class :character Class :character
Mode :character Mode :character
```

edata.Rmd

```

50 10.Displaying Dimension of the data
51 ~~~{r}
52 dim(players_data)
53 ~~~

[1] 15465 104

54 11.Displaying length of attack column
55 ~~~{r}
56 length(players_data$potential)
57 ~~~

[1] 15465

58 12.Displaying column names of data
59 ~~~{r}
60 colnames(players_data)
61 ~~~

[1] "sofifa_id"           "player_url"          "short_name"          "long_name"
[5] "age"                 "dob"                  "height_cm"           "weight_kg"
[9] "nationality"         "club"                "overall"             "potential"
[13] "value_eur"           "wage_eur"            "player_positions"    "preferred_foot"
[17] "international_reputation" "weak_foot"           "skill_moves"          "work_rate"
[21] "body_type"           "real_face"            "release_clause_eur" "player_tags"
[25] "team_position"       "team_jersey_number" "loaned_from"         "joined"
[29] "contract_valid_until" "nation_position"     "nation_jersey_number" "pace"
[33] "shooting"            "passing"              "dribbling"            "defending"
[37] "physic"               "gk_diving"            "gk_handling"          "gk_kicking"
[41] "gk_reflexes"          "gk_speed"              "gk_positioning"       "player_traits"
[45] "attacking_crossing"   "attacking_finishing" "attacking_heading_accuracy" "attacking_short_passing"
[49] "attacking_volleys"    "skill_dribbling"      "skill_curve"          "skill_fk_accuracy"
[53] "skill_long_passing"   "skill_ball_control" "movement_acceleration" "movement_sprint_speed"
[57] "movement_agility"     "movement_reactions" "movement_balance"     "power_shot_power"
[61] "power_jumping"        "power_stamina"       "power_strength"       "power_long_shots"
[65] "mentality_aggression" "mentality_interceptions" "mentality_positioning" "mentality_vision"
[69] "mentality_penalties"   "mentality_composure" "defending_marking"     "defending_standing_tackle"
[73] "defending_sliding_tackle" "goalkeeping_diving" "goalkeeping_handling" "goalkeeping_kicking"
[77] "goalkeeping_positioning" "goalkeeping_reflexes" "ls"                   "st"
[81] "rs"                   "lw"                  "lf"                  "cf"
[85] "rf"                   "rw"                  "lam"                "cam"
[89] "ram"                  "lm"                  "lcm"                "cm"
[93] "rcm"                  "rm"                  "lwb"                "ldm"
[97] "cdm"                  "rdm"                "rwb"                "lb"
[101] "lcb"                 "cb"                  "rcb"                "rb"

```

62 13.Displaying structure of some columns in the data

63

64 14.Displaying type of some data structure in the data

65 ~~~{r}

66 typeof(players\_data\$height\_cm)

67 ~~~

16:56 | Chunk 2

R Markdown

Console



```
62 13.Displaying structure of some columns in the data
63
64 14.Displaying type of some data structure in the data
65 ````{r}
66 typeof(players_data$height_cm)
67
```

```
[1] "integer"
```

```
68 15.List of variables present in book data
69 ````{r}
70 ls(players_data)
71
```

```
[1] "age"                      "attacking_crossing"      "attacking_finishing"    "attacking_heading_accuracy" "attacking_short_passing"   "attacking_volleys"        "body_type"
[8] "cam"                      "cb"                        "cdm"                     "cf"                       "club"                     "cm"                      "contract_valid_until"
[15] "defending"                "defending_marking"       "defending_sliding_tackle" "defending_standing_tackle" "dob"                      "dribbling"               "gk_diving"
[22] "gk_handling"              "gk_kicking"                "gk_positioning"          "gk_reflexes"              "gk_speed"                 "goalkeeping_diving"      "goalkeeping_handling"
[29] "goalkeeping_kicking"      "goalkeeping_positioning" "goalkeeping_reflexes"    "height_cm"                "international_reputation" "joined"                  "jam"
[36] "lb"                        "lcb"                      "lcm"                     "ldm"                     "if"                      "lm"                      "loaned_from"
[43] "long_name"                "ls"                        "lw"                      "lwb"                     "mentality_aggression"    "mentality_composure"     "mentality_interceptions"
[50] "mentality_penalties"       "mentality_positioning"   "nation_jersey_number"   "movement_acceleration"   "movement_agility"        "movement_balance"       "movement_reactions"
[57] "movement_sprint_speed"    "player_positions"        "player_tags"              "nationality"              "overall"                 "pace"                    "passing"
[64] "physic"                   "player_shot_power"       "power_stamina"          "player_traits"            "player_url"              "potential"               "power_jumping"
[71] "power_long_shots"         "rcb"                      "rdm"                     "real_face"                "preferred_foot"         "ram"                    "rb"
[78] "rccb"                     "rcm"                      "rwb"                     "releasing_clause_eur"    "rf"                      "rm"                      "skill_curve"
[85] "rs"                        "rw"                        "skill_long_passing"     "short_name"              "sofifa_id"               "skill_ball_control"     "team_jersey_number"
[92] "skill_dribbling"           "skill_fk_accuracy"       "skill_moves"              "weak_foot"                "st"                      "work_rate"
```

```
72 16.Display 1st row and all columns of data frame
73 ````{r}
74 players_data[1,]
75
```

Description: df [1 x 104]

sofifa_id	player_url	short_name	long_name	age	dob	height_cm	weight_kg	nationality
1	158023 https://sofifa.com/player/158023/lionel-messi/15/157759	L. Messi	Lionel Andr��s Messi Cuccittini	27	1987-06-24	169	67	Argentina

1 row | 1-10 of 104 columns

```
76 17.Display all rows and 1st column of data frame
77 ````{r}
78
79 players_data[,1]
80
```

```
[1] 158023 20801 9014 41236 167495 176580 183277 7826 121944 156616 167397 173731 188545 121939 155862 164240 168542 177003 198710 190871 192119 178603 183898 188350 189596 153079 176635 10535 20289 54050
[31] 139720 192318 189511 182521 165153 179813 179844 181872 167948 177610 178088 183907 48940 143001 152729 143745 184941 188152 165239 177509 179846 167664 168435 5479 7763 45197 53302 138956 139869 146562
```

16:56 Chunks 2

R Markdown



```
edata.Rmd * | Addins | ABC | Knit | Run | Save | Print | Close
```

85 | 19. Display 1st and 2nd row and all columns

86 + ```{r}

87 players\_data[1:2,]

88 +

Description: df [2 x 104]

sofifa id player\_url

	sofifa id	player_url
1	158023	https://sofifa.com/player/158023/lionel-messi/15/157759
2	20801	https://sofifa.com/player/20801/c-ronaldo-dos-santos-aveiro/15/157759

2 rows | 1-10 of 104 columns

89 | 20. Display all rows and first 3 columns

90 + ```{r}

91 players\_data[, 3]

92 +

[1]	"L. Messi"	"Cristiano Ronaldo"	"A. Robben"	"Z. Ibrahimović"	"M. Neuer"	"L. Suárez"	"E. Hazard"	"R. van Persie"
[9]	"B. Schweinsteiger"	"F. Ribéry"	"Falcao"	"G. Bale"	"R. Lewandowski"	"P. Lahn"	"Sergio Ramos"	"Thiago Silva"
[17]	"David Silva"	"L. Modrić"	"J. Rodríguez"	"Neymar"	"T. Courtois"	"M. Hummels"	"A. Di María"	"M. Reus"
[25]	"T. Müller"	"S. Agüero"	"M. Ažai"	"Xavi"	"Y. Touré"	"W. Rooney"	"V. Kompany"	"M. Götze"
[33]	"Sergio Busquets"	"T. Kroos"	"K. Benzema"	"E. Cavani"	"Diego Costa"	"A. Vidal"	"H. Lloris"	"Javi Martínez"
[41]	"Juan Mata"	"J. Boateng"	"P. Alcántara"	"C. Tătărușanu"	"Piqué"	"A. Turan"	"A. Sánchez"	"Oscar"
[49]	"S. Nasri"	"M. Benatia"	"S. Khedira"	"G. Higuaín"	"S. Sirigu"	"Casillas"	"A. Pirlo"	"Xabi Alonso"
[57]	"D. De Rossi"	"G. Chiellini"	"W. Sneijder"	"Santi Cazorla"	"K. Huntelaar"	"Cesc Fàbregas"	"D. Godín"	"P. Pogba"
[65]	"Isco"	"I. Gáldo	"De Gea"	"J. Cuadrado"	"D. Sturridge"	"M. Pjanic"	"A. Ramsey"	"Pedro"
[73]	"E. Garay"	"B. Matuidi"	"S. Ruffier"	"I. Rakitić"	"A. Candreva"	"R. Weidenfeller"	"J. Terry"	"P. Mertesacker"
[81]	"J. Toulalan"	"Pepe"	"A. Barzagli"	"N. Vidić"	"J. Mascherano"	"Negredo"	"Dani Alves"	"Jesús Navas"
[89]	"Diego Lăpez"	"I. Akinfeev"	"J. Farfán"	"João Pedro Moutinho"	"S. Handanović"	"Miranda"	"C. Marchisio"	"C. Bravo"
[97]	"E. Dzeko"	"M. Mandžukić"	"S. Kagawa"	"Hulk"	"C. Eriksen"	"M. ter Stegen"	"A. Griezmann"	"C. Vela"
[105]	"D. Alaba"	"Lucas"	"M. Hamáčik"	"M. Balotelli"	"D. Mertens"	"Marcelo"	"N. Matiñć"	"B. Leno"
[113]	"Koke"	"J. Martínez"	"G. Rossi"	"A. Begović"	"J. Vertonghen"	"Sokratis"	"B. Härtel"	"Willian"
[121]	"N. Subotic"	"N. Gaitán"	"S. Doumbia"	"J. Hart"	"S. Mignolet"	"David Luiz"	"Luiz Gustavo"	"G. Buffon"
[129]	"S. Gerrard"	"T. Howard"	"Danny"	"Jaúlio Cáceres"	"T. Motta"	"R. Adler"	"Alex"	"Diego"
[137]	"P. Zubala"	"Gabi"	"M. Gómez"	"R. Palacio"	"Dante"	"E. Lavezzi"	"Borja Valero"	"L. Baines"
[145]	"S. Manda"	"Filipe Luís"	"J. Bąaszczykowski"	"L. Piszczek"	"Hernanes"	"F. Muslera"	"F. Amorebieta"	"S. Feghouli"
[153]	"R. Varane"	"A. Laporte"	"Coutinho"	"Thiago"	"K. De Bruyne"	"T. Walcott"	"Jordi Alba"	"J. Wilshere"
[161]	"K. Strootman"	"H. Mkhitaryan"	"Roberto Firmino"	"G. dos Santos"	"N. Ázhin"	"Leandro Castán"	"L. Bender"	"S. Jovetić"
[169]	"Iturraspe"	"W. Bony"	"A. Schärle"	"Gervinho"	"S. Bender"	"J. Hernández"	"M. Sakho"	"Nani"
[177]	"Ramires"	"S. Eto'o"	"M. Klose"	"José Reina"	"D. Berbatov"	"D. Drogba"	"A. Cole"	"R. van der Vaart"
[185]	"Fernando Torres"	"N. de Jong"	"C. Carrasco"	"Felipe Melo"	"Fernandinho"	"S. Kiéy Ling"	"T. Zengin"	"Soldado"
[193]	"Luis Afonso"	"D. Agger"	"C. Dempsey"	"R. Montolivo"	"Llorente"	"M. Boussoufa"	"G. Cahill"	"L. Koscielny"
[201]	"Diego Alves"	"M. Árkter"	"Y. Cabaye"	"M. Valbuena"	"B. Ivanović"	"Beto"	"C. Baccá"	"S. El Shaarawy"
[209]	"Parejo"	"E. Mangala"	"R. Lukaku"	"Rodrigo"	"M. Veratti"	"R. Sterling"	"Iázigo Martínez"	"Bernard"
[217]	"A. Witsel"	"E. Banega"	"C. Benteké"	"Paulinho"	"Susaeta"	"Muniaín"	"C. Immobile"	"X. Shaqiri"
[225]	"J. Draxler"	"M. Schneiderlin"	"Rui Patrício"	"K. Trapp"	"Douglas Costa"	"N. Otamendi"	"H. Badstuber"	"M. Gonalons"
[233]	"R. Rodriguez"	"C. Emenike"	"Kiko Casilla"	"S. Sam"	"José Callejón"	"W. Szczęsny"	"A. Dzyuba"	"S. Rondán"
[241]	"M. Demba	"G. Castro"	"K. Boateng"	"Beñat"	"A. cerci"	"L. Ragony"	"D. Lovren"	"D. Tadić"
[249]	"K. Mirallas"	"S. Kjaer"	"O. Kvirkva"	"F. Totti"	"Tiago"	"G. Barry"	"A. Cassano"	"T. Rosický"
[257]	"Quaresma"	"Ronaldinho"	"Mikel Arteta"	"J. Defoe"	"P. Evra"	"E. Adebayor"	"Iraola"	"Aduriz"

16:56 | Chunk 2

R Markdown



	edaa.Rmd	ABC	Knit	Run
[241]	"M. DembA@lA"	"G. Castro"	"K. Boateng"	"BéAat"
[249]	"K. Mirallas"	"S. Kjár"	"O. Kirvák"	"F. Totti"
[257]	"Quaresma"	"Ronaldinho"	"Mikel Arteta"	"J. Defoe"
[265]	"J. Mathieu"	"David Villa"	"D. Benaglio"	"Bruno Alves"
[273]	"R. Mavuba"	"G. Clichy"	"RaAol Albiol"	"A. Song"
[281]	"Naldo"	"D. Ba"	"Miguel Veloso"	"F. Fazio"
[289]	"O. Cardosa"	"M. Musacchio"	"N. Nkoulou"	"J. Pastore"
[297]	"T. Krul"	"Y. Sommer"	"R. Zieler"	"A. Dzagoev"
[305]	"Alex sandro"	"Ander Herrera"	"A. Lacazette"	"P. Jones"
[313]	"S. Coleman"	"A. Lallana"	"V. Stocker"	"Fernando"
[321]	"D. Bind"	"VActor RuA"	"G. Krychowiak"	"A. Abdennour"
[329]	"J. Evans"	"FAbio CoentrAeo"	"Sergio Asenjo"	"Azpilicueta"
[337]	"K. Navas"	"J. Cilleissen"	"M. Rojo"	"R. Eremenko"
[345]	"Javi GarcAa"	"M. Fellaini"	"M. Caíceres"	"Iborra"
[353]	"L. Donovan"	"M. Carrick"	"C. Pizarro"	"F. Coloccini"
[361]	"M. Demichelis"	"Maicon"	"M. vorm"	"J. Lescott"
[369]	"G. RodrAguez"	"V. Demirel"	"Xabi Prieto"	"Arbeloa"
[377]	"T. Vermaelen"	"Manuel Fernandes"	"G. Inler"	"V. Behrami"
[385]	"R. Shirokov"	"R. Vlaar"	"F. GuarA"	"C. RodrAguez"
[393]	"Jonas"	"O. Groud"	"O. Cardozo"	"D. N'Doye"
[401]	"M. Depay"	"L. MarkoviA‡"	"A. Oxlade-Chamberlain"	"R. Barkley"
[409]	"K. Papadopoulos"	"L. TraorA"	"Juan Jesus"	"Alberto Moreno"
[417]	"P. Piatti"	"Adrien Silva"	"Mikel San JosA‡"	"A. Poli"
[425]	"Y. Lodygin"	"M. Bradley"	"J. MÁonez"	"A. Consigli"
[433]	"T. Alderweireld"	"K. Gibbs"	"Taison"	"De Marcos"
[441]	"S. SaviA‡"	"P. Franco"	"D. Astori"	"D. Criscito"
[449]	"Y. M'vila"	"Camacho"	"R. Hamouma"	"O. Baumann"
[457]	"L. Stindl"	"M. Diouf"	"M. Schmelzer"	"S. Reinartz"
[465]	"R. Shawcross"	"M. Stranzl"	"T. Henry"	"S. Kehl"
[473]	"D. ForlAin"	"Moya"	"Iraizoz"	"RubAon Castro"
[481]	"M. Topal"	"A. Hutchinson"	"Lee Dong Gook"	"G. Pandev"
[489]	"D. Milito"	"O. AdAen"	"E. Korkmaz"	"I. Uche"
[497]	"A. Young"	"A. Gignac"	"Y. Zhirkov"	"A. McGeady"
[505]	"JesA's GÁmez"	"H. Ben Arfa"	"Rolando"	"B. Foster"
[513]	"C. TiotA‡"	"M. Sow"	"Varela"	"G. Castro"
[521]	"Vieirinha"	"Lima"	"A. Rami"	"Roberto"
[529]	"C. Grenier"	"S. Mustafi"	"Morata"	"M. Ginter"
[537]	"H. AþalhanoAylu"	"Rafa"	"J. Zoet"	"R. Pereyra"
[545]	"D. ospina"	"M. Marin"	"E. Insua"	"J. Allen"
[553]	"J. OrmIA‡"	"Nolito"	"A. A-zibiliz"	"S. Rode"
[561]	"Bojan"	"Granero"	"R. FÄhrmann"	"A. Ranocchia"
[569]	"S. Jung"	"o. A-zayakup"	"J. Matip"	"W. Ben Yedder"
[577]	"Agirretxe"	"S. Radu"	"I. Khune"	"C. Ansaldi"
[585]	"G. SigurAsson"	"I. Popov"	"C. Zambrano"	"Balenziaga"
[593]	"M. Richards"	"A. Modeste"	"N. Amrabat"	"M. ArnautoviA‡"
[601]	"L. Pratto"	"O. Ažahan"	"JosA‡ CaAas"	"M. Stelzenburg"
[609]	"F. Malouda"	"C. Samba"	"S. Mauri"	"Maxwell"
[617]	"A'scar"	"David Navarro"	"Reyes"	"S. Ignashevich"
[625]	"A. Lindegaard"	"D. Baier"	"O. Martins"	"K. Agassa"
[633]	"L. Podolski"	"Hilton"	"Y. Gourcuff"	"Piti"
[641]	"L. Biglia"	"Trashorras"	"F. Quagliarella"	"N. Lombarts"
[649]	"A. Johnson"	"Jonathan"	"P. Helmes"	"E. Viviano"
[657]	"L. Cigarini"	"Siqueira"	"M. ErdinA‡"	"P. Wernbloom"
[665]	"Rafinha"	"M. BiAjevac"	"P. Osvaldo"	"D. Ya Konan"
[673]	"C. Yacob"	"E. Giaccherini"	"S. Okazaki"	"S. La Cruz"
				"J. Aranguren"



	edata.Rmd	Knit	Run
[657]	"L. Cigarini"	"Siqueira"	"L. Cigarini"
[665]	"Rafinha"	"M. Blaievac"	"M. Blaievac"
[673]	"C. Yacob"	"E. Giaccherini"	"E. Giaccherini"
[681]	"M. De sciglio"	"M. Perin"	"M. Perin"
[689]	"D'Aria"	"M. Salah"	"M. Salah"
[697]	"Bruno Fernandes"	"G. Rulli"	"G. Rulli"
[705]	"Potuk"	"J. Geis"	"J. Geis"
[713]	"L. Fer"	"C. Smalling"	"C. Smalling"
[721]	"J. clasie"	"H. Son"	"H. Son"
[729]	"M. wakaso"	"T. Heurtaux"	"T. Heurtaux"
[737]	"B. Natkho"	"V. Aboubakar"	"V. Aboubakar"
[745]	"Diego Capel"	"V. Kavlak"	"V. Kavlak"
[753]	"Y. Mulumbu"	"I. Traoré"	"I. Traoré"
[761]	"T. Jantschke"	"F. Montero"	"F. Montero"
[769]	"D. Gibson"	"S. Defour"	"S. Defour"
[777]	"C. Diabaté"	"S. Rudy"	"S. Rudy"
[785]	"A. Guardado"	"Bueno"	"Bueno"
[793]	"M. Schwarzer"	"Eliseu"	"Eliseu"
[801]	"R. Santa Cruz"	"R. Márquez"	"R. Márquez"
[809]	"T. Barnetta"	"C. Ledesma"	"C. Ledesma"
[817]	"A. Meier"	"N. Valdez"	"N. Valdez"
[825]	"R. Huth"	"Amaya"	"Amaya"
[833]	"Tito"	"Roberto"	"Roberto"
[841]	"H. Bedimo"	"S. Davis"	"S. Davis"
[849]	"D. Abraham"	"S. Naismith"	"S. Naismith"
[857]	"F. Gago"	"A. Kasaev"	"A. Kasaev"
[865]	"N. Moisander"	"I. Piatti"	"I. Piatti"
[873]	"Ricardo"	"C. Sánchez"	"C. Sánchez"
[881]	"Y. Nagatomo"	"M. Deviati"	"M. Deviati"
[889]	"M. Kovač"	"A. Correa"	"A. Correa"
[897]	"Ráculo"	"A. Maher"	"A. Maher"
[905]	"J. Ananidze"	"Hugo Mallo"	"Hugo Mallo"
[913]	"A. Paloschi"	"Marlos"	"Marlos"
[921]	"R. Knoché"	"L. Bittencourt"	"L. Bittencourt"
[929]	"T. Necid"	"M. Sissoko"	"M. Sissoko"
[937]	"S. Corchia"	"W. Khazri"	"W. Khazri"
[945]	"J. Veltman"	"C. Vargas"	"C. Vargas"
[953]	"Fabiano"	"F. Borini"	"F. Borini"
[961]	"V. Wanyama"	"Candeias"	"Candeias"
[969]	"Montaño"	"A. Mandi"	"A. Mandi"
[977]	"J. Cork"	"Z. Junuzović"	"Z. Junuzović"
[985]	"J. Baumgartlinger"	"M. Schmiedebach"	"M. Schmiedebach"
[993]	"Aleix"	"K. Bellarabi"	"Eden Álson"
	[ reached getoption("max.print") -- omitted 14465 entries ]		

```

93 23.Adding a new column to dataframe
94
95 24.Display sum of weight_kg column
96 ~~~{r}
97 sum(players_data[7])
98 ~~~

```

[1] 2800613



```
edaa.Rmd * Go to file/function Addins * Project: (None) *  
edaa.Rmd * ABC Knit Run *  
Labeled getopener manip.prime... Unlocked 21 files, 21 revisions  
93 23.Adding a new column to dataframe  
94  
95 24.Display sum of weight_kg column  
96 ````{r}  
97 sum(players_data[7])  
98 *  
[1] 2800613  
99 25.Display the maximum value of the potential column  
100 ````{r}  
101 max(players_data[12])  
102 *  
[1] 95  
103 26.Display the minimum value of the potential column  
104 ````{r}  
105 min(players_data[12])  
106 *  
[1] 40  
107 27.Attaching player data  
108 ````{r}  
109 attach(players_data)  
110 *  
  
The following objects are masked from players_data (pos = 3):  
  
age, attacking_crossing, attacking_finishing, attacking_heading_accuracy, attacking_short_passing, attacking_volleys, body_type, cam, cb, cdm, cf, club, cm, contract_valid_until, defending, defending_marking, defending_sliding_tackle, defending_standing_tackle, dob, dribbling, gk_diving, gk_handling, gk_kicking, gk_positioning, gk_reflexes, gk_speed, goalkeeping_diving, goalkeeping_handling, goalkeeping_kicking, goalkeeping_positioning, goalkeeping_reflexes, height_cm, international_reputation, joined, lam, lb, lcb, lcm, ldm, lf, lm, loaned_from, long_name, ls, lw, lwb, mentality_aggression, mentality_composure, mentality_interceptions, mentality_penalties, mentality_positioning, mentality_vision, movement_acceleration, movement_agility, movement_balance, movement_reactions, movement_sprint_speed, nation_jersey_number, nation_position, nationality, overall, pace, passing, physic, player_positions, player_tags, player_traits, player_url, potential, power_jumping, power_long_shots, power_shot_power, power_stamina, power_strength, preferred_foot, ram, rb, rcb, rcm, rdm, real_face, release_clause_eur, rf, rm, rs, rw, rwb, shooting, short_name, skill_ball_control, skill_curve, skill_dribbling, skill_fk_accuracy, skill_long_passing, skill_moves, sofifa_id, st, team_jersey_number, team_position, value_eur, wage_eur, weak_foot, weight_kg, work_rate  
  
The following objects are masked from players_data (pos = 4):  
  
age, attacking_crossing, attacking_finishing, attacking_heading_accuracy, attacking_short_passing, attacking_volleys, body_type, cam, cb, cdm, cf, club, cm, contract_valid_until, defending, defending_marking, defending_sliding_tackle, defending_standing_tackle, dob, dribbling, gk_diving, gk_handling, gk_kicking, gk_positioning, gk_reflexes, gk_speed, goalkeeping_diving, goalkeeping_handling, goalkeeping_kicking, goalkeeping_positioning, goalkeeping_reflexes, height_cm, international_reputation, joined, lam, lb, lcb, lcm, ldm, lf, lm, loaned_from, long_name, ls, lw, lwb, mentality_aggression, mentality_composure, mentality_interceptions, mentality_penalties, mentality_positioning, mentality_vision, movement_acceleration, movement_agility, movement_balance, movement_reactions, movement_sprint_speed, nation_jersey_number, nation_position, nationality, overall, pace, passing, physic, player_positions, player_tags, player_traits, player_url, potential, power_jumping, power_long_shots, power_shot_power, power_stamina, power_strength, preferred_foot, ram, rb, rcb, rcm, rdm, real_face, release_clause_eur, rf, rm, rs, rw, rwb, shooting, short_name, skill_ball_control, skill_curve, skill_dribbling, skill_fk_accuracy, skill_long_passing, skill_moves, sofifa_id, st, team_jersey_number, team_position, value_eur, wage_eur, weak_foot, weight_kg, work_rate
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