The 3 Goats: Data Scraping

Before working on the backend part of the project, I needed to grab the necessary data from the ESPN website. For all 3 of the players, the data I will be scaping "regular season average", "regular season total", "postseason average", "postseason total". The data will be stored in this these variables:

Lebron player: 1	Kobe player: 2	Micheal player: 3
lebron_regular_season_average	kobe_regular_season_average	micheal_regular_season_average
lebron_regular_season_total	kobe_regular_season_total	micheal_regular_season_total
lebron_postseason_average	kobe_postseason_average	micheal_postseason_average
lebron_postseason_total	kobe_postseason_total	micheal_postseason_total

The data should be tabular.

```
In [1]: # Import libraries
  import pandas as pd
  import numpy as np
  import matplotlib.pyplot as plt
  import seaborn as sns
  import re
  import requests
  from bs4 import BeautifulSoup
%matplotlib inline
```

Lebron

```
In [2]:
         # Last extraction: April 28, 2021
         # Grabbing Lebron's regular seasons stats.
         url lebron regular = "https://www.espn.com/nba/player/stats/ /id/1966/lebron-jam
         df lebron reg = pd.read html(url lebron regular)
         # Grabbing Lebron's postseason stats
         url lebron post = "https://www.espn.com/nba/player/stats/ /id/1966/type/nba/seas
         # This will provide the "seasons" & the "Team" that he played for.
         df lebron post = pd.read html(url lebron post)
         # This will provide the regular season teams
         lebron teams reg = df lebron reg[0]
         # This will provide the post season teams
         lebron teams post = df lebron post[0]
         # This will provide the regular season average
         lebron regular season average stats = df lebron reg[1]
         # This will provide the regular season total
         lebron regular season total stats = df lebron reg[3]
         # This will provide the postseason average
         lebron postseason average stats = df lebron post[1]
         # This will provide the postseason total
         lebron postseason total stats = df lebron post[3]
```

Regular Season Stats

Average

```
lebron teams reg.head()
In [3]:
                season
                         Team
Out[3]:
           0
              2003-04
                          CLE
              2004-05
                          CLE
           2
              2005-06
                          CLE
           3
              2006-07
                          CLE
              2007-08
                          CLE
            lebron_regular_season_average_stats.head()
In [4]:
              GP
                                 FG
                                      FG%
                                            3PT
                                                   3P%
                                                           FT FT%
                                                                           DR
                                                                                REB
                                                                                            BLK
                                                                                                   STL
                                                                                                         PF
Out[4]:
                   GS
                        MIN
                                                                      OR
                                                                                      AST
                                                                                                              TO
                                7.9-
                                             0.8-
                                                          4.4-
                                       41.7
                                                   29.0
                                                                75.4
           0
               79
                    79
                        39.5
                                                                      1.3
                                                                           4.2
                                                                                 5.5
                                                                                        5.9
                                                                                              0.7
                                                                                                    1.6
                                                                                                         1.9
                                                                                                              3.5
                                                                                                                   2
                                              2.7
                                                          5.8
                                18.9
                                9.9-
                                             1.4-
                                                          6.0-
                        42.4
                                      47.2
                                                    35.1
                                                                75.0
                                                                           6.0
                                                                                 7.4
                                                                                              0.7
           1
               80
                    80
                                                                      1.4
                                                                                        7.2
                                                                                                   2.2
                                                                                                         1.8
                                                                                                              3.3
                                                                                                                   2
                                              3.9
                                21.1
                                                          8.0
                                             1.6-
                               11.1-
                                                          7.6-
                                      48.0
                                                   33.5
           2
               79
                    79
                        42.5
                                                                73.8
                                                                      0.9
                                                                           6.1
                                                                                  7.0
                                                                                             0.8
                                                                                                         2.3
                                                                                                              3.3
                                                                                                                   3
                                                                                        6.6
                                                                                                    1.6
                                23.1
                                              4.8
                                                          10.3
                                9.9-
                                             1.3-
                                                          6.3-
           3
               78
                    78
                        40.9
                                      47.6
                                                    31.9
                                                                69.8
                                                                       1.1
                                                                           5.7
                                                                                 6.7
                                                                                        6.0
                                                                                              0.7
                                                                                                    1.6
                                                                                                         2.2
                                                                                                              3.2
                                                                                                                  2
                               20.8
                                              4.0
                                                          9.0
                               10.6-
                                             1.5-
                                                    31.5
               75
                    74
                        40.4
                                      48.4
                                                                71.2
                                                                      1.8
                                                                           6.1
                                                                                  7.9
                                                                                        7.2
                                                                                              1.1
                                                                                                    1.8
                                                                                                        2.2
                                                                                                             3.4
                                                                                                                  3
                                                          10.3
                                21.9
                                              4.8
            lebron full regular average stats = lebron teams reg.join(lebron regular season
In [5]:
            lebron full regular average stats.head()
                                                 FG
                                                      FG%
                                                             3PT
                                                                   3P%
                                                                            FT
                                                                                                 REB
                                                                                                       AST
                                                                                                             BLK S
              season
                       Team
                              GP
                                    GS
                                         MIN
                                                                                FT%
                                                                                       OR
                                                                                            DR
Out[5]:
                2003-
                                                 7.9-
                                                                          4.4-
                                                             0.8-
           0
                                                       41.7
                                                                    29.0
                                                                                       1.3
                         CLE
                               79
                                    79
                                         39.5
                                                                                 75.4
                                                                                            4.2
                                                                                                  5.5
                                                                                                        5.9
                                                                                                              0.7
                   04
                                                18.9
                                                              2.7
                                                                           5.8
               2004-
                                                9.9-
                                                              1.4-
                                                                          6.0-
           1
                         CLE
                               80
                                    80
                                         42.4
                                                       47.2
                                                                    35.1
                                                                                 75.0
                                                                                       1.4
                                                                                            6.0
                                                                                                  7.4
                                                                                                        7.2
                                                                                                              0.7
                   05
                                                 21.1
                                                              3.9
                                                                           8.0
                2005-
                                                11.1-
                                                              1.6-
                                                                          7.6-
           2
                                         42.5
                                                       48.0
                                                                    33.5
                         CLE
                               79
                                    79
                                                                                 73.8
                                                                                       0.9
                                                                                            6.1
                                                                                                  7.0
                                                                                                        6.6
                                                                                                              8.0
                   06
                                                23.1
                                                              4.8
                                                                          10.3
                2006-
                                                9.9-
                                                              1.3-
                                                                          6.3-
                                                       47.6
           3
                               78
                                    78
                                         40.9
                                                                    31.9
                                                                                 69.8
                         CLE
                                                                                       1.1
                                                                                            5.7
                                                                                                  6.7
                                                                                                        6.0
                                                                                                              0.7
                   07
                                                20.8
                                                              4.0
                                                                           9.0
                2007-
                                               10.6-
                                                              1.5-
           4
                         CLE
                               75
                                    74
                                         40.4
                                                       48.4
                                                                    31.5
                                                                                 71.2
                                                                                       1.8
                                                                                            6.1
                                                                                                  7.9
                                                                                                        7.2
                                                                                                               1.1
                                                                          10.3
                   08
                                                21.9
                                                              4.8
            lebron full regular average stats['player'] = 1
In [6]:
            lebron full regular average stats
                                                                        3P%
                                  GP
                                         GS
                                              MIN
                                                      FG
                                                           FG%
                                                                  3PT
                                                                                FT
                                                                                         OR
                                                                                              DR
                                                                                                   REB
                                                                                                         AST
                                                                                                                BLK
               season Team
Out[6]:
                2003-
                                                     7.9-
                                                                  0.8-
                                                                               4.4-
                                  79
                                                                         29.0
                                                                                              4.2
                                                                                                           5.9
                          CLE
                                         79
                                              39.5
                                                            41.7
                                                                                         1.3
                                                                                                    5.5
                                                                                                                 0.7
                    04
                                                     18.9
                                                                   2.7
                                                                                5.8
```

	season	Team	GP	GS	MIN	FG	FG%	ЗРТ	3P%	FT	•••	OR	DR	REB	AST	BLK
1	2004- 05	CLE	80	80	42.4	9.9- 21.1	47.2	1.4- 3.9	35.1	6.0- 8.0		1.4	6.0	7.4	7.2	0.7
2	2005- 06	CLE	79	79	42.5	11.1- 23.1	48.0	1.6- 4.8	33.5	7.6- 10.3		0.9	6.1	7.0	6.6	0.8
3	2006- 07	CLE	78	78	40.9	9.9- 20.8	47.6	1.3- 4.0	31.9	6.3- 9.0		1.1	5.7	6.7	6.0	0.7
4	2007- 08	CLE	75	74	40.4	10.6- 21.9	48.4	1.5- 4.8	31.5	7.3- 10.3		1.8	6.1	7.9	7.2	1.1
5	2008- 09	CLE	81	81	37.7	9.7- 19.9	48.9	1.6- 4.7	34.4	7.3- 9.4		1.3	6.3	7.6	7.2	1.1
6	2009- 10	CLE	76	76	39.0	10.1- 20.1	50.3	1.7- 5.1	33.3	7.8- 10.2		0.9	6.4	7.3	8.6	1.0
7	2010- 11	MIA	79	79	38.8	9.6- 18.8	51.0	1.2- 3.5	33.0	6.4- 8.4		1.0	6.5	7.5	7.0	0.6
8	2011- 12	MIA	62	62	37.5	10.0- 18.9	53.1	0.9- 2.4	36.2	6.2- 8.1		1.5	6.4	7.9	6.2	0.8
9	2012- 13	MIA	76	76	37.9	10.1- 17.8	56.5	1.4- 3.3	40.6	5.3- 7.0		1.3	6.8	8.0	7.3	0.9
10	2013- 14	MIA	77	77	37.7	10.0- 17.6	56.7	1.5- 4.0	37.9	5.7- 7.6		1.1	5.9	6.9	6.3	0.3
11	2014- 15	CLE	69	69	36.1	9.0- 18.5	48.8	1.7- 4.9	35.4	5.4- 7.7		0.7	5.3	6.0	7.4	0.7
12	2015- 16	CLE	76	76	35.6	9.7- 18.6	52.0	1.1- 3.7	30.9	4.7- 6.5		1.5	6.0	7.4	6.8	0.6
13	2016- 17	CLE	74	74	37.8	9.9- 18.2	54.8	1.7- 4.6	36.3	4.8- 7.2		1.3	7.3	8.6	8.7	0.6
14	2017- 18	CLE	82	82	36.9	10.5- 19.3	54.2	1.8- 5.0	36.7	4.7- 6.5		1.2	7.5	8.6	9.1	0.9
15	2018- 19	LAL	55	55	35.2	10.1- 19.9	51.0	2.0- 5.9	33.9	5.1- 7.6		1.0	7.4	8.5	8.3	0.6
16	2019- 20	LAL	67	67	34.6	9.6- 19.4	49.3	2.2- 6.3	34.8	3.9- 5.7		1.0	6.9	7.8	10.2	0.5
17	2020- 21	LAL	41	41	33.9	9.5- 18.4	51.3	2.4- 6.5	36.8	4.1- 5.8		0.6	7.3	7.9	7.9	0.6
18	Career	NaN	1306	1305	38.2	9.9- 19.6	50.4	1.5- 4.4	34.5	5.8- 7.9		1.2	6.3	7.4	7.4	0.8

19 rows × 21 columns

In [7]: lebron_regular_season_average = lebron_full_regular_average_stats.rename(columns)
In [8]: lebron_regular_season_average.head()
Out[8]: season team gp gs min fg fg% 3pt 3p% ft ... or dr reb ast blk stl p

	season	team	gp	gs	min	fg	fg%	3pt	3p%	ft	•••	or	dr	reb	ast	blk	stl	b.
0	2003- 04	CLE	79	79	39.5	7.9- 18.9	41.7	0.8- 2.7	29.0	4.4- 5.8		1.3	4.2	5.5	5.9	0.7	1.6	1.9
1	2004- 05	CLE	80	80	42.4	9.9- 21.1	47.2	1.4- 3.9	35.1	6.0- 8.0		1.4	6.0	7.4	7.2	0.7	2.2	1.8
2	2005- 06	CLE	79	79	42.5	11.1- 23.1	48.0	1.6- 4.8	33.5	7.6- 10.3		0.9	6.1	7.0	6.6	0.8	1.6	2.3
3	2006- 07	CLE	78	78	40.9	9.9- 20.8	47.6	1.3- 4.0	31.9	6.3- 9.0		1.1	5.7	6.7	6.0	0.7	1.6	2.2
4	2007- 08	CLE	75	74	40.4	10.6- 21.9	48.4	1.5- 4.8	31.5	7.3- 10.3		1.8	6.1	7.9	7.2	1.1	1.8	2.2

5 rows × 21 columns

Total

In [9]:	FG FG% 3PT 3P% FT FT% OR DR REB AST BLK STL PF TO PTS 0 622- 1492 41.7 633- 29.0 347- 460 75.4 99 333 432 465 58 130 149 273 1654 1 795- 1684 47.2 108- 308 35.1 477- 636 75.0 111 477 588 577 52 177 146 262 2175 2 875- 1823 48.0 127- 379 33.5 601- 814 73.8 75 481 556 521 66 123 181 260 2478 3 772- 47.6 99- 31.9 489- 701 69.8 83 443 526 470 55 125 171 250 2132 4 794- 48.4 113- 31.5 549- 771 71.2 133 459 592 539 81 138 165 255 2250 1 ebron_full_regular_total_stats = lebron_teams_reg.join(lebron_regular_season_to lebron_full_regular_total_stats['player'] = 1 1 ebron_regular_season_total = lebron_full_regular_total_stats.rename(columns=str lebron_regular_season_total.head() 8 8 90 3 90 3 90 3 90 3 90 3 90 3 90 3 9																
Out[9]:		FG	FG%	3РТ	6 OR	DR	REB	AST	BLK	STL	PI	F T	0 1	PTS			
	0		41.7		29.0		75.4	4 99	333	432	465	58	130	149	9 27	'3 10	654
	1		47.2		35.1		75.0) 111	477	588	577	52	177	146	5 26	52 2	175
	2		48.0		33.5		73.8	3 75	481	556	521	66	123	18	1 26	0 2	478
	3		47.6		31.9		69.8	3 83	443	526	470	55	125	17	1 25	0 2	132
4 1642 ^{48.4} 359 ^{31.5} 771 ^{71.2} ¹³³ ⁴⁵⁹ ⁵⁹² ⁵													138	16	5 25	55 2:	250
In [10]: In [11]:	<pre>lebron_full_regular_total_stats['player'] = 1</pre>																
In [12]:	le	bron_r	egular	_seas	on_to	tal.he	ad()										
Out[12]:		season	team	fg	fg%	3pt 3	3p%	ft	ft%	or	dr	reb	ast	blk	stl	pf	to
	0		CLE		41.7		29.0	347- 460	75.4	99	333	432	465	58	130	149	273
	1	2004- 05	CLE	795- 1684	47.2	108- 308	35.1	477- 636	75.0	111	477	588	577	52	177	146	262
	2	2005- 06	CLE	875- 1823	48.0	127- 379	33.5	601- 814	73.8	75	481	556	521	66	123	181	260
	3	2006- 07	CLE	772- 1621	47.6	489- 701	69.8	83	443	526	470	55	125	171	250		

	season	team	fg	fg%	3pt	3p%	ft	ft%	or	dr	reb	ast	blk	stl	pf	to	
4	2007- 08	CLE	794- 1642	48.4	113- 359	31.5	549- 771	71.2	133	459	592	539	81	138	165	255	1

Postseason Stats

Average

In [13]:	16	ebro	n_po	stsea	son_a	verag	e_sta	ts.he	ad()										
Out[13]:		GP	GS	MIN	FG	FG%	ЗРТ	3P%	FT	FT%	OR	DR	REB	AST	BLK	STI	. P	F T	0
	0	13	13	46.5	11.2- 23.6	47.6	1.6- 4.8	33.3	6.7- 9.1	73.7	1.7	6.4	8.1	5.8	0.7	1.4	1 3.4	4 5.	.0
	1	20	20	44.7	8.3- 20.0	41.6	1.1- 3.8	28.0	7.4- 9.8	75.5	1.3	6.8	8.1	8.0	0.5	1.7	7 2.0	Э 3.	.3
	2	13	13	42.5	8.7- 21.2	41.1	1.4- 5.4	25.7	9.4- 12.8	73.1	1.2	6.6	7.8	7.6	1.3	1.8	3 2.	5 4.	2
	3	14	14	41.4	11.4- 22.3	51.0	1.9- 5.8	33.3	10.6- 14.2	74.9	1.4	7.8	9.1	7.3	0.9	1.6	S 2.	1 2.	.7
	4	11	11	41.8	9.6- 19.2	50.2	1.8- 4.5	40.0	8.0- 10.9	73.3	1.4	7.9	9.3	7.6	1.8	1.7	7 2.	1 3.	8
In [14]:	16 16	ebro ebro	n_fu n_po	ll_po stsea	stsea son_a	.son_a	verag	e_sta	ts = ts['p	layer	'] =	1							
Out[14]:		sea	ason	team	gp	gs	min	fg	fg%	3pt	3р%	ft	t	or	dr	reb	ast	blk	st
	0	20	005- 06	CLE	13	13	46.5	11.2- 23.6	47.6	1.6- 4.8	33.3	6.7- 9.1		1.7	6.4	8.1	5.8	0.7	1.4
	1	20	006- 07	CLE	20	20	44.7	8.3- 20.0	41.6	1.1- 3.8	28.0	7.4- 9.8		1.3	6.8	8.1	8.0	0.5	1.5
	2	20	007- 08	CLE	13	13	42.5	8.7- 21.2	41.1	1.4- 5.4	25.7	9.4- 12.8		1.2	6.6	7.8	7.6	1.3	1.8
	3	20	008- 09	CLE	14	14	41.4	11.4- 22.3	51.0	1.9- 5.8	33.3	10.6- 14.2		1.4	7.8	9.1	7.3	0.9	1.6
	4	20	009- 10	CLE	11	11	41.8	9.6- 19.2	50.2	1.8- 4.5	40.0	8.0- 10.9		1.4	7.9	9.3	7.6	1.8	1.7
	5	2	010- 11	MIA	21	21	43.9	8.3- 17.8	46.6	1.4- 4.0	35.3	5.7- 7.4		1.6	6.8	8.4	5.9	1.2	1.5
	6	2	011- 12	MIA	23	23	42.7	10.9- 21.8	50.0	1.0- 3.7	25.9	7.5- 10.2		2.3	7.4	9.7	5.6	0.7	1.9
	7	2	012- 13	MIA	23	23	41.7	9.2- 18.8	49.1	1.6- 4.2	37.5	5.9- 7.6		1.6	6.8	8.4	6.6	0.8	1.8
	8	2	013- 14	MIA	20	20	38.2	9.6- 17.0	56.5	1.8- 4.3	40.7	6.5- 8.0		0.7	6.4	7.1	4.8	0.6	1.8

	season	team	gp	gs	min	fg	fg%	3pt	3p%	ft	•••	or	dr	reb	ast	blk	st
9	2014- 15	CLE	20	20	42.2	11.4- 27.2	41.7	1.3- 5.5	22.7	6.1- 8.4	•••	1.9	9.5	11.3	8.5	1.1	1.7
10	2015- 16	CLE	21	21	39.1	10.4- 19.9	52.5	1.5- 4.5	34.0	3.9- 5.9	•••	2.0	7.5	9.5	7.6	1.3	2.3
11	2016- 17	CLE	18	18	41.3	12.1- 21.3	56.5	2.4- 5.9	41.1	6.3- 9.0	•••	1.1	8.1	9.1	7.8	1.3	1.9
12	2017- 18	CLE	22	22	41.9	12.5- 23.2	53.9	1.8- 5.2	34.2	7.2- 9.7	•••	1.4	7.7	9.1	9.0	1.0	1.4
13	2019- 20	LAL	21	21	36.3	10.2- 18.2	56.0	2.1- 5.7	37.0	5.1- 7.1		1.3	9.4	10.8	8.8	0.9	1.2
14	Career	NaN	260	260	41.6	10.3- 20.7	49.6	1.6- 4.8	33.5	6.7- 9.0		1.5	7.5	9.0	7.2	1.0	1.7

15 rows × 21 columns

Total

lebron_postseason_total_stats.head() In [15]: FG FG% 3PT 3P% FT FT% REB AST BLK **PTS** OR DR STL TO Out[15]: **0** 146-307 47.6 21-63 33.3 87-118 73.7 22 83 105 76 9 18 44 65 400 166-1 75.5 26 41.6 21-75 28.0 148-196 135 161 159 10 34 40 66 501 399 113-275 41.1 18-70 25.7 122-167 73.1 86 102 99 17 23 33 16 54 366 159-312 51.0 27-81 33.3 149-199 74.9 19 109 128 102 23 30 38 494 12 106-211 50.2 20-50 40.0 88-120 73.3 23 42 320 15 87 102 84 20 19 lebron full postseason total stats = lebron teams post.join(lebron postseason to In [16]: lebron_full_postseason_total_stats['player'] = 1 lebron_postseason_total = lebron_full_postseason_total_stats.rename(columns=str. lebron postseason total.tail()

Out[16]:		season	team	fg	fg%	3pt	3p%	ft	ft%	or	dr	reb	ast	blk	stl	pf
	10	2015- 16	CLE	219- 417	52.5	32- 94	34.0	82- 124	66.1	42	158	200	160	27	49	54
	11	2016- 17	CLE	217- 384	56.5	44- 107	41.1	113- 162	69.8	19	145	164	141	23	35	43
	12	2017- 18	CLE	275- 510	53.9	39- 114	34.2	159- 213	74.6	31	169	200	198	23	30	52
	13	2019- 20	LAL	214- 382	56.0	44- 119	37.0	108- 150	72.0	28	198	226	184	18	26	40
	14	Career	NaN	2671- 5388	49.6	414- 1235	33.5	1735- 2341	74.1	394	1954	2348	1871	250	445	609

Kobe

```
# Last extraction: April 28, 2021
In [17]:
          # Grabbing Kobe's regular seasons stats.
          url kobe regular = "https://www.espn.com/nba/player/stats/ /id/110/kobe-bryant"
          df_kobe_reg = pd.read_html(url_kobe_regular)
          # Grabbing Kobe's postseason stats
          url kobe post = "https://www.espn.com/nba/player/stats/ /id/110/type/nba/seasont
          # This will provide the "seasons" & the "Team" that he played for.
          df_kobe_post = pd.read_html(url_kobe_post)
          # This will provide the regular season teams
          kobe_teams_reg = df_kobe_reg[0]
          # This will provide the post season teams
          kobe teams post = df kobe post[0]
          # This will provide the regular season average
          kobe regular season average stats = df kobe reg[1]
          # This will provide the regular season total
          kobe_regular_season_total_stats = df_kobe_reg[3]
          # This will provide the postseason average
          kobe postseason average stats = df kobe post[1]
          # This will provide the postseason total
          kobe_postseason_total_stats = df_kobe_post[3]
```

Regular Season Stats

Average

79

```
kobe teams reg.head()
In [18]:
               season Team
Out[18]:
              1996-97
                         LAL
              1997-98
                         LAL
              1998-99
                         LAL
              1999-00
                         LAL
              2000-01
                         LAL
           kobe regular season average stats.head()
In [19]:
Out[19]:
                  GS
                       MIN
                                  FG%
                                         3PT
                                              3P%
                                                      FT FT%
                                                                OR
                                                                    DR
                                                                         REB
                                                                              AST
                                                                                    BLK
                                                                                         STL
                                                                                                   TO
                              2.5-
                                         0.7-
                                                     1.9-
               71
                       15.5
                                    41.7
                                               37.5
                                                           81.9
                                                                0.7
                                                                     1.2
                                                                          1.9
                                                                                1.3
                                                                                     0.3
                                                                                          0.7
                                                                                                   1.6
```

2.3

4.6-

5.8

79.4

1.0

2.1

3.1

2.5

0.5

0.9

2.3

2.0

34.1

5.9

4.9-

11.6

26.0

1.9

0.9-

2.8

42.8

	GP	GS	MIN	FG	FG%	ЗРТ	3P%	FT	FT%	OR	DR	REB	AST	BLK	STL	PF	ТО	F
4	68	68	40.9	10.3- 22.2	46.4	0.9- 2.9	30.5	7.0- 8.2	85.3	1.5	4.3	5.9	5.0	0.6	1.7	3.3	3.2	2

In [20]: kobe_full_regular_average_stats = kobe_teams_reg.join(kobe_regular_season_averag
 kobe_full_regular_average_stats['player'] = 2
 kobe_regular_season_average = kobe_full_regular_average_stats.rename(columns=str
 kobe_regular_season_average.head()

Out[20]:		season	team	gp	gs	min	fg	fg%	3pt	3р%	ft	•••	or	dr	reb	ast	blk	stl	р
	0	1996- 97	LAL	71	6	15.5	2.5- 5.9	41.7	0.7- 1.9	37.5	1.9- 2.3	•••	0.7	1.2	1.9	1.3	0.3	0.7	1.4
	1	1997- 98	LAL	79	1	26.0	4.9- 11.6	42.8	0.9- 2.8	34.1	4.6- 5.8	•••	1.0	2.1	3.1	2.5	0.5	0.9	2.:
	2	1998- 99	LAL	50	50	37.9	7.2- 15.6	46.5	0.5- 2.0	26.7	4.9- 5.8		1.1	4.2	5.3	3.8	1.0	1.4	3.
	3	1999- 00	LAL	66	62	38.2	8.4- 17.9	46.8	0.7- 2.2	31.9	5.0- 6.1		1.6	4.7	6.3	4.9	0.9	1.6	3.:
	4	2000- 01	LAL	68	68	40.9	10.3- 22.2	46.4	0.9- 2.9	30.5	7.0- 8.2		1.5	4.3	5.9	5.0	0.6	1.7	3.:

5 rows × 21 columns

Total

[n [21]:	kol	be_reg	ular_s	eason	_tota	l_stat	s.head	d()									
Out[21]:		FG	FG%	ЗРТ	3P%	FT	FT%	OR	DR	REB	AST	BLK	STL	PF	то	PTS	i
	0	176- 422	41.7	51- 136	37.5	136- 166	81.9	47	85	132	91	23	49	102	112	539	ı
	1	391- 913	42.8	75- 220	34.1	363- 457	79.4	79	163	242	199	40	74	180	157	1220	i
	2	362- 779	46.5	27- 101	26.7	245- 292	83.9	53	211	264	190	50	72	153	157	996	į.
	3	554- 1183	46.8	46- 144	31.9	331- 403	82.1	108	308	416	323	62	106	220	182	1485	ı
	4	701- 1510	46.4	61- 200	30.5	475- 557	85.3	104	295	399	338	43	114	222	220	1938	,
In [22]:	kol kol	be_ful be_reg	l_regu ular_s	lar_t eason	otal_ _tota	stats = stats[l = kol l.head	'playe be_ful	er']	= 2								
out[22]:	:	season	team	fg	fg%	3pt 3	р%	ft	ft%	or	dr	reb	ast l	olk s	itl	pf t	to
	0	1996-	LAL	176-	41.7	51-		36- 166	81.9	47	85	132	91	23 4	19 10)2 1′	12

166

136

	season	team	fg	fg%	3pt	3p%	ft	ft%	or	dr	reb	ast	blk	stl	pf	to	
1	1997- 98	LAL	391- 913	42.8	75- 220	34.1	363- 457	79.4	79	163	242	199	40	74	180	157	1
2	1998- 99	LAL	362- 779	46.5	27- 101	26.7	245- 292	83.9	53	211	264	190	50	72	153	157	
3	1999- 00	LAL	554- 1183	46.8	46- 144	31.9	331- 403	82.1	108	308	416	323	62	106	220	182	1
4	2000- 01	LAL	701- 1510	46.4	61- 200	30.5	475- 557	85.3	104	295	399	338	43	114	222	220	1

Postseason Stats

Average

In [23]:	ko	obe_	post	seaso	n_ave	rage_	stats	.head	()										
Out[23]:		GP	GS	MIN	FG	FG%	ЗРТ	3P%	FT	FT%	OR	DR	REB	AST	BLK	STL	PF	то	P
	0	9	0	14.8	2.3- 6.1	38.2	0.7- 2.6	26.1	2.9- 3.3	86.7	0.1	1.1	1.2	1.2	0.2	0.3	2.6	1.6	į.
	1	11	0	20.0	2.8- 6.9	40.8	0.3- 1.3	21.4	2.8- 4.1	68.9	0.6	1.3	1.9	1.5	0.7	0.3	2.5	1.0	i
	2	8	8	39.4	7.6- 17.8	43.0	1.0- 2.9	34.8	3.5- 4.4	80.0	1.6	5.3	6.9	4.6	1.3	1.9	3.0	3.9	1:
	3	22	22	39.0	7.9- 17.9	44.2	1.0- 2.9	34.4	4.3- 5.7	75.4	1.2	3.3	4.5	4.4	1.5	1.5	4.0	2.5	5 2
	4	16	16	43.4	10.5- 22.4	46.9	0.7- 2.1	32.4	7.8- 9.4	82.1	1.8	5.4	7.3	6.1	0.8	1.6	3.3	3.2	. 2
In [24]:	ko ko	obe_ obe_	full post	_post _post seaso seaso	seaso n_ave	n_ave rage	rage_ = kob	stats e_ful	['pla	yer']	= 2							_	
Out[24]:		sea	ason	team	gp	gs	min	fg	fg%	3pt	3р%	ft		or	dr r	eb a	st k	olk :	stl
	11	20	008-	LAL	23	23	40.9	10.5- 23.0	45.7	1.6- 4.6	34.9	7.6- 8.6		0.8	4.5	5.3 5	5.5 ().9 <i>'</i>	1.7
	12	20	009- 10	LAL	23	23	40.1	10.2- 22.2	45.8	2.1- 5.7	37.4	6.7- 8.0		1.1	4.9 (6.0 5	5.5 ().7 <i>^</i>	1.3
	13	2	010- 11	LAL	10	10	35.4	8.3- 18.6	44.6	1.2- 4.1	29.3	5.0- 6.1		0.8	2.6	3.4 3	3.3 ().3 ′	1.6
	14	2	:011- 12	LAL	12	12	39.7	11.0- 25.1	43.9	1.4- 5.0	28.3	6.6- 7.9		1.3	3.5 4	4.8 <i>4</i>	.3 ().2 ′	1.3
	15	Ca	areer	NaN	220	200	39.3	9.2- 20.5	44.8	1.3- 4.0	33.1	6.0- 7.4		1.0	4.0	5.1 4	1.7 ().7 ^	1.4

5 rows × 21 columns

Total

t[25]:		FG	FG%	ЗРТ	3P%	FT	FT%	OR	DR	REB	AST	BLK	STL	PF	то	PTS
,	0	21-55	38.2	6-23	26.1	26- 30	86.7	1	10	11	11	2	3	23	14	74
	1	31-76	40.8	3-14	21.4	31-45	68.9	7	14	21	16	8	3	28	11	96
	2	61- 142	43.0	8-23	34.8	28- 35	80.0	13	42	55	37	10	15	24	31	158
	3	174- 394	44.2	22- 64	34.4	95- 126	75.4	26	72	98	97	32	32	89	55	465
	4	168- 358	46.9	11- 34	32.4	124- 151	82.1	29	87	116	97	12	25	53	51	471
	5	187- 431	43.4	22- 58	37.9	110- 145	75.9	28	83	111	87	17	27	65	54	506
	6	137- 317	43.2	25- 62	40.3	86- 104	82.7	16	45	61	62	1	14	35	42	385
	7	190- 460	41.3	24- 97	24.7	135- 166	81.3	18	86	104	121	7	42	59	61	539
	8	72- 145	49.7	14- 35	40.0	37- 48	77.1	4	40	44	36	3	8	25	33	195
	9	60- 130	46.2	10- 28	35.7	34- 37	91.9	1	25	26	22	2	5	10	22	164
	10	222- 463	47.9	32- 106	30.2	157- 194	80.9	18	101	119	117	8	35	59	70	633
	11	242- 530	45.7	37- 106	34.9	174- 197	88.3	19	104	123	126	21	38	59	59	695
	12	234- 511	45.8	49- 131	37.4	154- 183	84.2	26	112	138	126	16	31	75	79	671
	13	83- 186	44.6	12- 41	29.3	50-61	82.0	8	26	34	33	3	16	23	31	228
	14	132- 301	43.9	17- 60	28.3	79- 95	83.2	16	42	58	52	2	16	33	34	360
	15	2014- 4499	44.8	292- 882	33.1	1320- 1617	81.6	230	889	1119	1040	144	310	660	647	5640
[26]:	ko ko	be_ful	l_pos tseas	tseaso on_to	on_tot tal =	al_sta al_sta kobe_f	ats['p	laye	r'] =	2						

LAL 21-55 38.2

6-23

26.1

26-30

86.7

10

11

11

1996-97

3

23

2

	season	team	fg	fg%	3pt	3р%	ft	ft%	or	dr	reb	ast	blk	stl	pf	
1	1997- 98	LAL	31-76	40.8	3-14	21.4	31-45	68.9	7	14	21	16	8	3	28	
2	1998- 99	LAL	61- 142	43.0	8- 23	34.8	28- 35	80.0	13	42	55	37	10	15	24	
3	1999- 00	LAL	174- 394	44.2	22- 64	34.4	95- 126	75.4	26	72	98	97	32	32	89	
4	2000- 01	LAL	168- 358	46.9	11- 34	32.4	124- 151	82.1	29	87	116	97	12	25	53	
5	2001- 02	LAL	187- 431	43.4	22- 58	37.9	110- 145	75.9	28	83	111	87	17	27	65	
6	2002- 03	LAL	137- 317	43.2	25- 62	40.3	86- 104	82.7	16	45	61	62	1	14	35	
7	2003- 04	LAL	190- 460	41.3	24- 97	24.7	135- 166	81.3	18	86	104	121	7	42	59	
8	2005- 06	LAL	72- 145	49.7	14- 35	40.0	37- 48	77.1	4	40	44	36	3	8	25	
9	2006- 07	LAL	60- 130	46.2	10- 28	35.7	34- 37	91.9	1	25	26	22	2	5	10	
10	2007- 08	LAL	222- 463	47.9	32- 106	30.2	157- 194	80.9	18	101	119	117	8	35	59	
11	2008- 09	LAL	242- 530	45.7	37- 106	34.9	174- 197	88.3	19	104	123	126	21	38	59	
12	2009- 10	LAL	234- 511	45.8	49- 131	37.4	154- 183	84.2	26	112	138	126	16	31	75	
13	2010- 11	LAL	83- 186	44.6	12- 41	29.3	50-61	82.0	8	26	34	33	3	16	23	
14	2011- 12	LAL	132- 301	43.9	17- 60	28.3	79- 95	83.2	16	42	58	52	2	16	33	
15	Career	NaN	2014- 4499	44.8	292- 882	33.1	1320- 1617	81.6	230	889	1119	1040	144	310	660	6

Micheal

```
In [27]: # Last extraction: April 28, 2021
    # Grabbing Micheal's regular seasons stats.
    url_micheal_regular = "https://www.espn.com/nba/player/stats/_/id/1035/michael-j
    df_micheal_reg = pd.read_html(url_micheal_regular)
    # Grabbing Kobe's postseason stats
    url_micheal_post = "https://www.espn.com/nba/player/stats/_/id/1035/type/nba/sea
    # This will provide the "seasons" & the "Team" that he played for.
    df_micheal_post = pd.read_html(url_micheal_post)
    # This will provide the regular season teams
    micheal_teams_reg = df_micheal_reg[0]
    # This will provide the post season teams
    micheal_teams_post = df_micheal_post[0]
    # This will provide the regular season average
    micheal_regular_season_average_stats = df_micheal_reg[1]
```

```
# This will provide the regular season total
micheal_regular_season_total_stats = df_micheal_reg[3]
# This will provide the postseason average
micheal_postseason_average_stats = df_micheal_post[1]
# This will provide the postseason total
micheal_postseason_total_stats = df_micheal_post[3]
```

Regular Season Stats

Average

```
In [28]: micheal_full_regular_average_stats = micheal_teams_reg.join(micheal_regular_seas
    micheal_full_regular_average_stats['player'] = 3
    micheal_regular_season_average = micheal_full_regular_average_stats.rename(colum
    micheal_regular_season_average.head()
```

Out[28]:		season	team	gp	gs	min	fg	fg%	3pt	3p%	ft	•••	or	dr	reb	ast	blk	stl	ķ
	0	1985	СНІ	82	82	38.3	10.2- 19.8	51.5	0.1- 0.6	17.3	7.7- 9.1	•••	2.0	4.5	6.5	5.9	0.8	2.4	3.
	1	1986	СНІ	18	7	25.1	8.3- 18.2	45.7	0.2- 1.0	16.7	5.8- 6.9		1.3	2.3	3.6	2.9	1.2	2.1	2.
	2	1987	СНІ	82	82	40.0	13.4- 27.8	48.2	0.1- 0.8	18.2	10.2- 11.9		2.0	3.2	5.2	4.6	1.5	2.9	2.
	3	1988	СНІ	82	82	40.4	13.0- 24.4	53.5	0.1- 0.6	13.2	8.8- 10.5		1.7	3.8	5.5	5.9	1.6	3.2	3.
	4	1989	СНІ	81	81	40.2	11.9- 22.2	53.8	0.3- 1.2	27.6	8.3- 9.8		1.8	6.2	8.0	8.0	0.8	2.9	3.

5 rows × 21 columns

Total

```
In [29]: micheal_full_regular_total_stats = micheal_teams_reg.join(micheal_regular_season
    micheal_full_regular_total_stats['player'] = 3
    micheal_regular_season_total = micheal_full_regular_total_stats.rename(columns=s
    micheal_regular_season_total.head()
```

Out[29]:		season	team	fg	fg%	3pt	3p%	ft	ft%	or	dr	reb	ast	blk	stl	pf	to
	0	1985	СНІ	837- 1625	51.5	9- 52	17.3	630- 746	84.4	167	367	534	481	69	196	285	291
	1	1986	СНІ	150- 328	45.7	3- 18	16.7	105- 125	84.0	23	41	64	53	21	37	46	45
	2	1987	СНІ	1098- 2279	48.2	12- 66	18.2	833- 972	85.7	166	264	430	377	125	236	237	272
	3	1988	СНІ	1069- 1998	53.5	7- 53	13.2	723- 860	84.1	139	310	449	485	131	259	270	252
	4	1989	СНІ	966- 1795	53.8	27- 98	27.6	674- 793	85.0	149	503	652	650	65	234	247	290

Postseason Stats

Average

In [30]:	mi	che	al_p	ostse	ason_	avera	.ge_st	ats.h	ead()									
Out[30]:		GP	GS	MIN	FG	FG%	ЗРТ	3P%	FT	FT%	OR	DR	REB	AST	BLK	STL	PF	то
	0	4	4	42.8	8.5- 19.5	43.6	0.3- 2.0	12.5	12.0- 14.5	82.8	1.8	4.0	5.8	8.5	1.0	2.8	3.8	3.8
	1	3	3	45.0	16.0- 31.7	50.5	0.3- 0.3	100.0	11.3- 13.0	87.2	1.7	4.7	6.3	5.7	1.3	2.3	4.3	4.7
	2	3	3	42.7	11.7- 28.0	41.7	0.7- 1.7	40.0	11.7- 13.0	89.7	2.3	4.7	7.0	6.0	2.3	2.0	3.7	2.7
	3	10	10	42.7	13.8- 26.0	53.1	0.1- 0.3	33.3	8.6- 9.9	86.9	2.3	4.8	7.1	4.7	1.1	2.4	3.8	3.9
	4	17	17	42.2	11.7- 22.9	51.0	0.6- 2.1		10.8- 13.5	79.9	1.5	5.5	7.0	7.6	0.8	2.5	3.8	4.0
In [31]:	micheal_full_micheal_posts_micheal_posts		ull p	ostse	ason	avera	are st	a+c =	miah	1	L 0 0 m a	2 200	t ioi	n/mia	hool	nost	-000	
	mi	che	al_p	ull_p ostse	ostse ason_	ason_ avera	avera ge =	age_st miche	ats['r	laye	בן ים	= 3					_	
Out[31]:	mi	che	al_p al_p	ull_p ostse	ostse ason_	ason_ avera	avera ge =	age_st miche	ats['ral_ful	olayen .l_pos	בן ים	= 3	_aver	age_s		renar	me(co	olumn
Out[31]:	mi	che che	al_p al_p	ull_p ostse ostse	ostse ason_ ason_	ason_ avera avera	average = ge.ta	age_st miche ail()	ats['ral_ful	olayen	r'] : stsea	= 3 ason_	aver	age_s	tats.	renar ast	me(co	olumn stl
Out[31]:	mi mi	che che sea	al_p al_p ason 994-	ull_p ostse ostse team	ostse ason_ ason_ gp	ason_avera avera gs	average = .ge.ta	rage_st miche ail() fg 12.0- 24.8	ats['ral_ful	3pt 3	r'] : stsea	= 3 ason_ ft 6.4-	2	age_s	r reb	renar ast	blk	olumn stl
Out[31]:	mi mi	sea	al_p al_p ason 994- 95	ull_p ostse ostse team	ostse ason_ ason_ gp	ason_avera avera gs 10	average = .ge.ta	rage_st miche ail() fg 12.0- 24.8 10.4- 22.6	ats['ral_fu] fg% 3 48.4 45.9	3.0 3.4 4.3.4	p%	ft 6.4- 7.9 8.5-	2	age_s or d .0 4.9	r reb	ast 4.5	blk 1.4 0.3	stl 2.3
Out[31]:	9 10	sea	al_p al_p ason 994- 95 995- 96	ull_p ostse ostse team CHI	ostse ason_ ason_ gp 10	ason_avera avera gs 10 18	average = ge.ta min 42.0	rage_st miche ail() fg 12.0- 24.8 10.4- 22.6 11.9- 26.2	ats['ral_fulls fg% 3	3.0 3.4 4.7-3.5	p% 36.7	= 3 ason_ ft 6.4- 7.9 8.5- 10.4 6.5-	2 1	age_s or d .0 4.9	r reb 6 6.5 2 4.9 7 7.9	ast 4.5	blk 1.4 0.3	stl 2.3 1.8

5 rows × 21 columns

Total

1 [32]:	mi	cheal_p	ostsea	son_to	otal_s	tats.hea	ıd()									
ıt[32]:		FG	FG%	3РТ	3P%	FT	FT%	OR	DR	REB	AST	BLK	STL	PF	то	PTS
	0	34-78	43.6	1-8	12.5	48-58	82.8	7	16	23	34	4	11	15	15	117
	1	48-95	50.5	1-1	100.0	34-39	87.2	5	14	19	17	4	7	13	14	131
	2	35-84	41.7	2-5	40.0	35-39	89.7	7	14	21	18	7	6	11	8	107

FG FG%

53.1

3 138-260

3P%

33.3

1-3

86-99

	4	199-390	51.0	10-35	28.6	183-	229	79.9	26	93	119	130	13	42	65	68	591
In [33]:	mi mi	cheal_f cheal_f cheal_p	ull_po ostsea	ostseas ason_to	son_to	tal_s micl	stats heal_	['pla	yer	:'] =	: 3				_		
Out[33]:		season	team	fg	fg%	3pt	3p%		ft	ft%	or	dr	reb	ast	blk	stl	pf
	9	1994- 95	СНІ	120- 248	48.4	11- 30	36.7	64 7	1- '9	81.0	20	45	65	45	14	23	30

FT FT% OR DR

23

86.9

48

71

33]:		season	team	fg	fg%	3pt	3p%	ft	ft%	or	dr	reb	ast	blk	stl	pf
,	9	1994- 95	СНІ	120- 248	48.4	11- 30	36.7	64- 79	81.0	20	45	65	45	14	23	30
	10	1995- 96	СНІ	187- 407	45.9	25- 62	40.3	153- 187	81.8	31	58	89	74	6	33	49
	11	1996- 97	СНІ	227- 498	45.6	13- 67	19.4	123- 148	83.1	42	108	150	91	17	30	46
	12	1997- 98	СНІ	243- 526	46.2	13- 43	30.2	181- 223	81.2	33	74	107	74	12	32	47
	13	Career	NaN	2188- 4497	48.7	148- 446	33.2	1463- 1766	82.8	305	847	1152	1022	158	376	541

Data merging

Now its time to "append" the data together. I should come out with 4 Dataframes.

Regular Season Averages

Out[34]:		season	team	gp	gs	min	fg	fg%	3pt	3p%	ft	•••	or	dr	reb	ast	blk	stl	þ
	0	2003- 04	CLE	79	79	39.5	7.9- 18.9	41.7	0.8- 2.7	29.0	4.4- 5.8		1.3	4.2	5.5	5.9	0.7	1.6	1.§
	1	2004- 05	CLE	80	80	42.4	9.9- 21.1	47.2	1.4- 3.9	35.1	6.0- 8.0		1.4	6.0	7.4	7.2	0.7	2.2	1.8
	2	2005- 06	CLE	79	79	42.5	11.1- 23.1	48.0	1.6- 4.8	33.5	7.6- 10.3	•••	0.9	6.1	7.0	6.6	0.8	1.6	2.3
	3	2006- 07	CLE	78	78	40.9	9.9- 20.8	47.6	1.3- 4.0	31.9	6.3- 9.0		1.1	5.7	6.7	6.0	0.7	1.6	2.2
	4	2007- 08	CLE	75	74	40.4	10.6- 21.9	48.4	1.5- 4.8	31.5	7.3- 10.3		1.8	6.1	7.9	7.2	1.1	1.8	2.2

5 rows × 21 columns

PTS

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REB AST BLK STL PF

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Regular Season Totals

Out[35]:		season	team	fg	fg%	3pt	3p%	ft	ft%	or	dr	reb	ast	blk	stl	
	11	1996- 97	СНІ	920- 1892	48.6	111- 297	37.4	480- 576	83.3	113	369	482	352	44	140	
	12	1997- 98	СНІ	881- 1893	46.5	30- 126	23.8	565- 721	78.4	130	345	475	283	45	141	
	13	2001- 02	WSH	551- 1324	41.6	10- 53	18.9	263- 333	79.0	50	289	339	310	26	85	
	14	2002- 03	WSH	679- 1527	44.5	16- 55	29.1	266- 324	82.1	71	426	497	311	39	123	
	15	Career	NaN	12192- 24537	49.7	581- 1778	32.7	7327- 8772	83.5	1668	5004	6672	5633	893	2514	2

Postseason Averages

Out[36]:		season	team	gp	gs	min	fg	fg%	3pt	3p%	ft	•••	or	dr	reb	ast	blk	stl
	9	1994- 95	СНІ	10	10	42.0	12.0- 24.8	48.4	1.1- 3.0	36.7	6.4- 7.9		2.0	4.5	6.5	4.5	1.4	2.3
	10	1995- 96	СНІ	18	18	40.7	10.4- 22.6	45.9	1.4- 3.4	40.3	8.5- 10.4	•••	1.7	3.2	4.9	4.1	0.3	1.8
	11	1996- 97	СНІ	19	19	42.3	11.9- 26.2	45.6	0.7- 3.5	19.4	6.5- 7.8		2.2	5.7	7.9	4.8	0.9	1.6
	12	1997- 98	СНІ	21	21	41.5	11.6- 25.0	46.2	0.6- 2.0	30.2	8.6- 10.6		1.6	3.5	5.1	3.5	0.6	1.5
	13	Career	NaN	179	179	41.8	12.2- 25.1	48.7	0.8- 2.5	33.2	8.2- 9.9		1.7	4.7	6.4	5.7	0.9	2.1

5 rows × 21 columns

Postseason Totals

```
# Combining the 3 player's postseason totals
In [37]:
          postseason totals = lebron postseason total.append(kobe postseason total
                                                                           ).append(micheal_p
          postseason totals.tail()
                                                    ft ft%
                                                                      reb
                                                                           ast blk
             season team
                             fg fg%
                                      3pt 3p%
                                                             or
                                                                  dr
                                                                                     stl
                                                                                          pf
Out[37]:
```

	season	team	fg	fg%	3pt	3p%	ft	ft%	or	dr	reb	ast	blk	stl	pf	
9	1994- 95	СНІ	120- 248	48.4	11- 30	36.7	64- 79	81.0	20	45	65	45	14	23	30	
10	1995- 96	СНІ	187- 407	45.9	25- 62	40.3	153- 187	81.8	31	58	89	74	6	33	49	
11	1996- 97	СНІ	227- 498	45.6	13- 67	19.4	123- 148	83.1	42	108	150	91	17	30	46	
12	1997- 98	СНІ	243- 526	46.2	13- 43	30.2	181- 223	81.2	33	74	107	74	12	32	47	
13	Career	NaN	2188- 4497	48.7	148- 446	33.2	1463- 1766	82.8	305	847	1152	1022	158	376	541	5

Converting into CSV

Now its time convert the 4 dataframes into csv format

```
In []: # regular season data
    regular_season_averages.to_csv(r'./regular_season_averages.csv', index = False)
    regular_season_totals.to_csv(r'./regular_season_totals.csv', index= False)

In []: # postseason data
    postseason_averages.to_csv(r'./postseason_averages.csv',index = False)
    postseason_totals.to_csv(r'./postseason_totals.csv')
```

All done!