# 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 players, I extracted: "regular season average", "regular season total", "postseason average", "postseason total". The data will be stored in 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]:
```python
# 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]:
```python
# Last extraction: April 28, 2021
# Grabbing Lebron's regular seasons stats.
url_lebron_regular = "https://www.espn.com/nba/player/stats/_/id/1966/lebron-james"
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/seasontype/3"
# 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
```

```python
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

In [3]:
```python
lebron_teams_reg.head()
```

Out[3]:

|   | season | Team |
|---|--------|------|
| 0 | 2003-04 | CLE |
| 1 | 2004-05 | CLE |
| 2 | 2005-06 | CLE |
| 3 | 2006-07 | CLE |
| 4 | 2007-08 | CLE |

In [4]:
```python
lebron_regular_season_average_stats.head()
```

Out[4]:

|   | GP | GS | MIN | FG | FG% | 3PT | 3P% | FT | FT% | OR | DR | REB | AST | BLK | STL | PF | TO | PTS |
|---|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 0 | 79 | 79 | 39.5 | 7.9-18.9 | 41.7 | 0.8-2.7 | 29.0 | 4.4-5.8 | 75.4 | 1.3 | 4.2 | 5.5 | 5.9 | 0.7 | 1.6 | 1.9 | 3.5 | 20.9 |
| 1 | 80 | 80 | 42.4 | 9.9-21.1 | 47.2 | 1.4-3.9 | 35.1 | 6.0-8.0 | 75.0 | 1.4 | 6.0 | 7.4 | 7.2 | 0.7 | 2.2 | 1.8 | 3.3 | 27.2 |
| 2 | 79 | 79 | 42.5 | 11.1-23.1 | 48.0 | 1.6-4.8 | 33.5 | 7.6-10.3 | 73.8 | 0.9 | 6.1 | 7.0 | 6.6 | 0.8 | 1.6 | 2.3 | 3.3 | 31.4 |
| 3 | 78 | 78 | 40.9 | 9.9-20.8 | 47.6 | 1.3-4.0 | 31.9 | 6.3-9.0 | 69.8 | 1.1 | 5.7 | 6.7 | 6.0 | 0.7 | 1.6 | 2.2 | 3.2 | 27.3 |
| 4 | 75 | 74 | 40.4 | 10.6-21.9 | 48.4 | 1.5-4.8 | 31.5 | 7.3-10.3 | 71.2 | 1.8 | 6.1 | 7.9 | 7.2 | 1.1 | 1.8 | 2.2 | 3.4 | 30.0 |

In [5]:
```python
lebron_full_regular_average_stats = lebron_teams_reg.join(lebron_regular_season_average_stats)
```

```
lebron_full_regular_average_stats.head()
```

Out[5]:

| | season | Team | GP | GS | MIN | FG | FG% | 3PT | 3P% | FT | FT% | OR | DR | REB | AST | BLK | STL | PF | TO | PTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2003-04 | CLE | 79 | 79 | 39.5 | 7.9-18.9 | 41.7 | 0.8-2.7 | 29.0 | 4.4-5.8 | 75.4 | 1.3 | 4.2 | 5.5 | 5.9 | 0.7 | 1.6 | 1.9 | 3.5 | 20.9 |
| 1 | 2004-05 | CLE | 80 | 80 | 42.4 | 9.9-21.1 | 47.2 | 1.4-3.9 | 35.1 | 6.0-8.0 | 75.0 | 1.4 | 6.0 | 7.4 | 7.2 | 0.7 | 2.2 | 1.8 | 3.3 | 27.2 |
| 2 | 2005-06 | CLE | 79 | 79 | 42.5 | 11.1-23.1 | 48.0 | 1.6-4.8 | 33.5 | 7.6-10.3 | 73.8 | 0.9 | 6.1 | 7.0 | 6.6 | 0.8 | 1.6 | 2.3 | 3.3 | 31.4 |
| 3 | 2006-07 | CLE | 78 | 78 | 40.9 | 9.9-20.8 | 47.6 | 1.3-4.0 | 31.9 | 6.3-9.0 | 69.8 | 1.1 | 5.7 | 6.7 | 6.0 | 0.7 | 1.6 | 2.2 | 3.2 | 27.3 |
| 4 | 2007-08 | CLE | 75 | 74 | 40.4 | 10.6-21.9 | 48.4 | 1.5-4.8 | 31.5 | 7.3-10.3 | 71.2 | 1.8 | 6.1 | 7.9 | 7.2 | 1.1 | 1.8 | 2.2 | 3.4 | 30.0 |

In [6]:

```
lebron_full_regular_average_stats['player'] = 1
lebron_full_regular_average_stats
```

Out[6]:

| | season | Team | GP | GS | MIN | FG | FG% | 3PT | 3P% | FT | ... | OR | DR | REB | AST | BLK | STL | PF | TO | PTS | player |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 3.5 | 20.9 | 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 | 3.3 | 27.2 | 1 |
| 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 | 3.3 | 31.4 | 1 |
| 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 | 3.2 | 27.3 | 1 |
| 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 | 3.4 | 30.0 | 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 | 1.7 | 1.7 | 3.0 | 28.4 | 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 | 1.6 | 1.6 | 3.4 | 29.7 | 1 |
| 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 | 1.6 | 2.1 | 3.6 | 26.7 | 1 |
| 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 | 1.9 | 1.5 | 3.4 | 27.1 | 1 |
| 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 | 1.7 | 1.4 | 3.0 | 26.8 | 1 |

| | season | Team | GP | GS | MIN | FG | FG% | 3PT | 3P% | FT | ... | OR | DR | REB | AST | BLK | STL | PF | TO | PTS | player |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **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 | 1.6 | 1.6 | 3.5 | 27.1 | 1 |
| **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 | 1.6 | 2.0 | 3.9 | 25.3 | 1 |
| **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 | 1.4 | 1.9 | 3.3 | 25.3 | 1 |
| **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 | 1.2 | 1.8 | 4.1 | 26.4 | 1 |
| **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 | 1.4 | 1.7 | 4.2 | 27.5 | 1 |
| **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 | 1.3 | 1.7 | 3.6 | 27.4 | 1 |
| **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 | 1.2 | 1.8 | 3.9 | 25.3 | 1 |
| **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 | 1.0 | 1.6 | 3.7 | 25.4 | 1 |
| **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 | 1.6 | 1.8 | 3.5 | 27.0 | 1 |

19 rows × 21 columns

In [7]:
```python
lebron_regular_season_average = lebron_full_regular_average_stats.rename(columns=str.lower)
```

In [8]:
```python
lebron_regular_season_average.head()
```

Out[8]:

| | season | team | gp | gs | min | fg | fg% | 3pt | 3p% | ft | ... | or | dr | reb | ast | blk | stl | pf | to | pts | player |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **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 | 3.5 | 20.9 | 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 | 3.3 | 27.2 | 1 |
| **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 | 3.3 | 31.4 | 1 |
| **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 | 3.2 | 27.3 | 1 |
| **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 | 3.4 | 30.0 | 1 |

5 rows × 21 columns

## Total

```
In [9]:   lebron_regular_season_total_stats.head()
```

Out[9]:

| | FG | FG% | 3PT | 3P% | FT | FT% | OR | DR | REB | AST | BLK | STL | PF | TO | PTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **0** | 622-1492 | 41.7 | 63-217 | 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** | 772-1621 | 47.6 | 99-310 | 31.9 | 489-701 | 69.8 | 83 | 443 | 526 | 470 | 55 | 125 | 171 | 250 | 2132 |
| **4** | 794-1642 | 48.4 | 113-359 | 31.5 | 549-771 | 71.2 | 133 | 459 | 592 | 539 | 81 | 138 | 165 | 255 | 2250 |

```
In [10]:   lebron_full_regular_total_stats = lebron_teams_reg.join(lebron_regular_season_total_stats)
           lebron_full_regular_total_stats['player'] = 1
```

```
In [11]:   lebron_regular_season_total = lebron_full_regular_total_stats.rename(columns=str.lower)
```

```
In [12]:   lebron_regular_season_total.head()
```

Out[12]:

| | season | team | fg | fg% | 3pt | 3p% | ft | ft% | or | dr | reb | ast | blk | stl | pf | to | pts | player |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **0** | 2003-04 | CLE | 622-1492 | 41.7 | 63-217 | 29.0 | 347-460 | 75.4 | 99 | 333 | 432 | 465 | 58 | 130 | 149 | 273 | 1654 | 1 |
| **1** | 2004-05 | CLE | 795-1684 | 47.2 | 108-308 | 35.1 | 477-636 | 75.0 | 111 | 477 | 588 | 577 | 52 | 177 | 146 | 262 | 2175 | 1 |
| **2** | 2005-06 | CLE | 875-1823 | 48.0 | 127-379 | 33.5 | 601-814 | 73.8 | 75 | 481 | 556 | 521 | 66 | 123 | 181 | 260 | 2478 | 1 |
| **3** | 2006-07 | CLE | 772-1621 | 47.6 | 99-310 | 31.9 | 489-701 | 69.8 | 83 | 443 | 526 | 470 | 55 | 125 | 171 | 250 | 2132 | 1 |
| **4** | 2007-08 | CLE | 794-1642 | 48.4 | 113-359 | 31.5 | 549-771 | 71.2 | 133 | 459 | 592 | 539 | 81 | 138 | 165 | 255 | 2250 | 1 |

# Postseason Stats

## Average

```
In [13]:   lebron_postseason_average_stats.head()
```

Out[13]:

| | GP | GS | MIN | FG | FG% | 3PT | 3P% | FT | FT% | OR | DR | REB | AST | BLK | STL | PF | TO | PTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **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 | 3.4 | 5.0 | 30.8 |
| **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 | 2.0 | 3.3 | 25.1 |
| **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 | 2.5 | 4.2 | 28.2 |
| **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 | 2.1 | 2.7 | 35.3 |
| **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 | 2.1 | 3.8 | 29.1 |

In [14]:

```python
lebron_full_postseason_average_stats = lebron_teams_post.join(lebron_postseason_average_stats)
lebron_full_postseason_average_stats['player'] = 1
lebron_postseason_average = lebron_full_postseason_average_stats.rename(columns=str.lower)
lebron_postseason_average
```

Out[14]:

| | season | team | gp | gs | min | fg | fg% | 3pt | 3p% | ft | ... | or | dr | reb | ast | blk | stl | pf | to | pts | player |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **0** | 2005-06 | 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 | 3.4 | 5.0 | 30.8 | 1 |
| **1** | 2006-07 | 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 | 1.7 | 2.0 | 3.3 | 25.1 | 1 |
| **2** | 2007-08 | 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 | 2.5 | 4.2 | 28.2 | 1 |
| **3** | 2008-09 | 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 | 2.1 | 2.7 | 35.3 | 1 |
| **4** | 2009-10 | 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 | 2.1 | 3.8 | 29.1 | 1 |
| **5** | 2010-11 | 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 | 1.7 | 2.7 | 3.1 | 23.7 | 1 |
| **6** | 2011-12 | 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 | 2.0 | 3.5 | 30.3 | 1 |
| **7** | 2012-13 | 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 | 1.9 | 3.0 | 25.9 | 1 |
| **8** | 2013-14 | 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 | 2.3 | 3.1 | 27.4 | 1 |
| **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 | 2.9 | 4.1 | 30.1 | 1 |

| | season | team | gp | gs | min | fg | fg% | 3pt | 3p% | ft | ... | or | dr | reb | ast | blk | stl | pf | to | pts | player |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 2.6 | 3.6 | 26.3 | 1 |
| 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 | 2.4 | 4.0 | 32.8 | 1 |
| 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 | 2.4 | 4.3 | 34.0 | 1 |
| 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 | 1.9 | 4.0 | 27.6 | 1 |
| 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 | 2.3 | 3.7 | 28.8 | 1 |

15 rows × 21 columns

## Total

```
In [15]:   lebron_postseason_total_stats.head()
```

Out[15]:

| | FG | FG% | 3PT | 3P% | FT | FT% | OR | DR | REB | AST | BLK | STL | PF | TO | PTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 146-307 | 47.6 | 21-63 | 33.3 | 87-118 | 73.7 | 22 | 83 | 105 | 76 | 9 | 18 | 44 | 65 | 400 |
| 1 | 166-399 | 41.6 | 21-75 | 28.0 | 148-196 | 75.5 | 26 | 135 | 161 | 159 | 10 | 34 | 40 | 66 | 501 |
| 2 | 113-275 | 41.1 | 18-70 | 25.7 | 122-167 | 73.1 | 16 | 86 | 102 | 99 | 17 | 23 | 33 | 54 | 366 |
| 3 | 159-312 | 51.0 | 27-81 | 33.3 | 149-199 | 74.9 | 19 | 109 | 128 | 102 | 12 | 23 | 30 | 38 | 494 |
| 4 | 106-211 | 50.2 | 20-50 | 40.0 | 88-120 | 73.3 | 15 | 87 | 102 | 84 | 20 | 19 | 23 | 42 | 320 |

```
In [16]:   lebron_full_postseason_total_stats = lebron_teams_post.join(lebron_postseason_total_stats)
           lebron_full_postseason_total_stats['player'] = 1
           lebron_postseason_total = lebron_full_postseason_total_stats.rename(columns=str.lower)
           lebron_postseason_total.tail()
```

Out[16]:

| | season | team | fg | fg% | 3pt | 3p% | ft | ft% | or | dr | reb | ast | blk | stl | pf | to | pts | player |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 2015-16 | CLE | 219-417 | 52.5 | 32-94 | 34.0 | 82-124 | 66.1 | 42 | 158 | 200 | 160 | 27 | 49 | 54 | 75 | 552 | 1 |
| 11 | 2016-17 | CLE | 217-384 | 56.5 | 44-107 | 41.1 | 113-162 | 69.8 | 19 | 145 | 164 | 141 | 23 | 35 | 43 | 72 | 591 | 1 |

| | season | team | fg | fg% | 3pt | 3p% | ft | ft% | or | dr | reb | ast | blk | stl | pf | to | pts | player |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **12** | 2017-18 | CLE | 275-510 | 53.9 | 39-114 | 34.2 | 159-213 | 74.6 | 31 | 169 | 200 | 198 | 23 | 30 | 52 | 94 | 748 | 1 |
| **13** | 2019-20 | LAL | 214-382 | 56.0 | 44-119 | 37.0 | 108-150 | 72.0 | 28 | 198 | 226 | 184 | 18 | 26 | 40 | 84 | 580 | 1 |
| **14** | Career | NaN | 2671-5388 | 49.6 | 414-1235 | 33.5 | 1735-2341 | 74.1 | 394 | 1954 | 2348 | 1871 | 250 | 445 | 609 | 950 | 7491 | 1 |

# Kobe

In [17]:
```python
# Last extraction: April 28, 2021
# 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/seasontype/3"
# 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

In [18]:
```python
kobe_teams_reg.head()
```

Out[18]:

| | season | Team |
|---|---|---|
| **0** | 1996-97 | LAL |

|   | season | Team |
|---|--------|------|
| **1** | 1997-98 | LAL |
| **2** | 1998-99 | LAL |
| **3** | 1999-00 | LAL |
| **4** | 2000-01 | LAL |

```
In [19]:   kobe_regular_season_average_stats.head()
```

Out[19]:

|   | GP | GS | MIN | FG | FG% | 3PT | 3P% | FT | FT% | OR | DR | REB | AST | BLK | STL | PF | TO | PTS |
|---|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| **0** | 71 | 6 | 15.5 | 2.5-5.9 | 41.7 | 0.7-1.9 | 37.5 | 1.9-2.3 | 81.9 | 0.7 | 1.2 | 1.9 | 1.3 | 0.3 | 0.7 | 1.4 | 1.6 | 7.6 |
| **1** | 79 | 1 | 26.0 | 4.9-11.6 | 42.8 | 0.9-2.8 | 34.1 | 4.6-5.8 | 79.4 | 1.0 | 2.1 | 3.1 | 2.5 | 0.5 | 0.9 | 2.3 | 2.0 | 15.4 |
| **2** | 50 | 50 | 37.9 | 7.2-15.6 | 46.5 | 0.5-2.0 | 26.7 | 4.9-5.8 | 83.9 | 1.1 | 4.2 | 5.3 | 3.8 | 1.0 | 1.4 | 3.1 | 3.1 | 19.9 |
| **3** | 66 | 62 | 38.2 | 8.4-17.9 | 46.8 | 0.7-2.2 | 31.9 | 5.0-6.1 | 82.1 | 1.6 | 4.7 | 6.3 | 4.9 | 0.9 | 1.6 | 3.3 | 2.8 | 22.5 |
| **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 | 28.5 |

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

Out[20]:

|   | season | team | gp | gs | min | fg | fg% | 3pt | 3p% | ft | ... | or | dr | reb | ast | blk | stl | pf | to | pts | player |
|---|--------|------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| **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 | 1.6 | 7.6 | 2 |
| **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 | 2.3 | 2.0 | 15.4 | 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 | 3.1 | 3.1 | 19.9 | 2 |
| **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 | 3.3 | 2.8 | 22.5 | 2 |
| **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 | 3.3 | 3.2 | 28.5 | 2 |

5 rows × 21 columns

# Total

In [21]: `kobe_regular_season_total_stats.head()`

Out[21]:

|   | FG | FG% | 3PT | 3P% | FT | FT% | OR | DR | REB | AST | BLK | STL | PF | TO | PTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 176-422 | 41.7 | 51-136 | 37.5 | 136-166 | 81.9 | 47 | 85 | 132 | 91 | 23 | 49 | 102 | 112 | 539 |
| 1 | 391-913 | 42.8 | 75-220 | 34.1 | 363-457 | 79.4 | 79 | 163 | 242 | 199 | 40 | 74 | 180 | 157 | 1220 |
| 2 | 362-779 | 46.5 | 27-101 | 26.7 | 245-292 | 83.9 | 53 | 211 | 264 | 190 | 50 | 72 | 153 | 157 | 996 |
| 3 | 554-1183 | 46.8 | 46-144 | 31.9 | 331-403 | 82.1 | 108 | 308 | 416 | 323 | 62 | 106 | 220 | 182 | 1485 |
| 4 | 701-1510 | 46.4 | 61-200 | 30.5 | 475-557 | 85.3 | 104 | 295 | 399 | 338 | 43 | 114 | 222 | 220 | 1938 |

In [22]:
```python
kobe_full_regular_total_stats = kobe_teams_reg.join(kobe_regular_season_total_stats)
kobe_full_regular_total_stats['player'] = 2
kobe_regular_season_total = kobe_full_regular_total_stats.rename(columns=str.lower)
kobe_regular_season_total.head()
```

Out[22]:

|   | season | team | fg | fg% | 3pt | 3p% | ft | ft% | or | dr | reb | ast | blk | stl | pf | to | pts | player |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 1996-97 | LAL | 176-422 | 41.7 | 51-136 | 37.5 | 136-166 | 81.9 | 47 | 85 | 132 | 91 | 23 | 49 | 102 | 112 | 539 | 2 |
| 1 | 1997-98 | LAL | 391-913 | 42.8 | 75-220 | 34.1 | 363-457 | 79.4 | 79 | 163 | 242 | 199 | 40 | 74 | 180 | 157 | 1220 | 2 |
| 2 | 1998-99 | LAL | 362-779 | 46.5 | 27-101 | 26.7 | 245-292 | 83.9 | 53 | 211 | 264 | 190 | 50 | 72 | 153 | 157 | 996 | 2 |
| 3 | 1999-00 | LAL | 554-1183 | 46.8 | 46-144 | 31.9 | 331-403 | 82.1 | 108 | 308 | 416 | 323 | 62 | 106 | 220 | 182 | 1485 | 2 |
| 4 | 2000-01 | LAL | 701-1510 | 46.4 | 61-200 | 30.5 | 475-557 | 85.3 | 104 | 295 | 399 | 338 | 43 | 114 | 222 | 220 | 1938 | 2 |

# Postseason Stats

## Average

In [23]: `kobe_postseason_average_stats.head()`

Out[23]:

|   | GP | GS | MIN | FG | FG% | 3PT | 3P% | FT | FT% | OR | DR | REB | AST | BLK | STL | PF | TO | PTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 8.2 |
| 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 | 8.7 |
| 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 | 19.8 |

|  | GP | GS | MIN | FG | FG% | 3PT | 3P% | FT | FT% | OR | DR | REB | AST | BLK | STL | PF | TO | PTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **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 | 21.1 |
| **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 | 29.4 |

In [24]:
```python
kobe_full_postseason_average_stats = kobe_teams_post.join(kobe_postseason_average_stats)
kobe_full_postseason_average_stats['player'] = 2
kobe_postseason_average = kobe_full_postseason_average_stats.rename(columns=str.lower)
kobe_postseason_average.tail()
```

Out[24]:

|  | season | team | gp | gs | min | fg | fg% | 3pt | 3p% | ft | ... | or | dr | reb | ast | blk | stl | pf | to | pts | player |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **11** | 2008-09 | 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 | 0.9 | 1.7 | 2.6 | 2.6 | 30.2 | 2 |
| **12** | 2009-10 | 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 | 0.7 | 1.3 | 3.3 | 3.4 | 29.2 | 2 |
| **13** | 2010-11 | 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 | 0.3 | 1.6 | 2.3 | 3.1 | 22.8 | 2 |
| **14** | 2011-12 | 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 | 4.8 | 4.3 | 0.2 | 1.3 | 2.8 | 2.8 | 30.0 | 2 |
| **15** | Career | 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 | 4.7 | 0.7 | 1.4 | 3.0 | 2.9 | 25.6 | 2 |

5 rows × 21 columns

# Total

In [25]:
```python
kobe_postseason_total_stats
```

Out[25]:

|  | FG | FG% | 3PT | 3P% | FT | FT% | OR | DR | REB | AST | BLK | STL | PF | TO | 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 |

|    | FG | FG% | 3PT | 3P% | FT | FT% | OR | DR | REB | AST | BLK | STL | PF | TO | PTS |
|----|----|-----|-----|-----|----|-----|----|----|-----|-----|-----|-----|----|----|-----|
| **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 |

In [26]:
```python
kobe_full_postseason_total_stats = kobe_teams_post.join(kobe_postseason_total_stats)
kobe_full_postseason_total_stats['player'] = 2
kobe_postseason_total = kobe_full_postseason_total_stats.rename(columns=str.lower)
kobe_postseason_total
```

Out[26]:

|    | season | team | fg | fg% | 3pt | 3p% | ft | ft% | or | dr | reb | ast | blk | stl | pf | to | pts | player |
|----|--------|------|----|-----|-----|-----|----|-----|----|----|-----|-----|-----|-----|----|----|-----|--------|
| **0** | 1996-97 | LAL | 21-55 | 38.2 | 6-23 | 26.1 | 26-30 | 86.7 | 1 | 10 | 11 | 11 | 2 | 3 | 23 | 14 | 74 | 2 |
| **1** | 1997-98 | LAL | 31-76 | 40.8 | 3-14 | 21.4 | 31-45 | 68.9 | 7 | 14 | 21 | 16 | 8 | 3 | 28 | 11 | 96 | 2 |
| **2** | 1998-99 | LAL | 61-142 | 43.0 | 8-23 | 34.8 | 28-35 | 80.0 | 13 | 42 | 55 | 37 | 10 | 15 | 24 | 31 | 158 | 2 |
| **3** | 1999-00 | LAL | 174-394 | 44.2 | 22-64 | 34.4 | 95-126 | 75.4 | 26 | 72 | 98 | 97 | 32 | 32 | 89 | 55 | 465 | 2 |
| **4** | 2000-01 | LAL | 168-358 | 46.9 | 11-34 | 32.4 | 124-151 | 82.1 | 29 | 87 | 116 | 97 | 12 | 25 | 53 | 51 | 471 | 2 |
| **5** | 2001-02 | LAL | 187-431 | 43.4 | 22-58 | 37.9 | 110-145 | 75.9 | 28 | 83 | 111 | 87 | 17 | 27 | 65 | 54 | 506 | 2 |
| **6** | 2002-03 | LAL | 137-317 | 43.2 | 25-62 | 40.3 | 86-104 | 82.7 | 16 | 45 | 61 | 62 | 1 | 14 | 35 | 42 | 385 | 2 |
| **7** | 2003-04 | LAL | 190-460 | 41.3 | 24-97 | 24.7 | 135-166 | 81.3 | 18 | 86 | 104 | 121 | 7 | 42 | 59 | 61 | 539 | 2 |
| **8** | 2005-06 | LAL | 72-145 | 49.7 | 14-35 | 40.0 | 37-48 | 77.1 | 4 | 40 | 44 | 36 | 3 | 8 | 25 | 33 | 195 | 2 |
| **9** | 2006-07 | LAL | 60-130 | 46.2 | 10-28 | 35.7 | 34-37 | 91.9 | 1 | 25 | 26 | 22 | 2 | 5 | 10 | 22 | 164 | 2 |
| **10** | 2007-08 | LAL | 222-463 | 47.9 | 32-106 | 30.2 | 157-194 | 80.9 | 18 | 101 | 119 | 117 | 8 | 35 | 59 | 70 | 633 | 2 |
| **11** | 2008-09 | LAL | 242-530 | 45.7 | 37-106 | 34.9 | 174-197 | 88.3 | 19 | 104 | 123 | 126 | 21 | 38 | 59 | 59 | 695 | 2 |
| **12** | 2009-10 | LAL | 234-511 | 45.8 | 49-131 | 37.4 | 154-183 | 84.2 | 26 | 112 | 138 | 126 | 16 | 31 | 75 | 79 | 671 | 2 |

| | season | team | fg | fg% | 3pt | 3p% | ft | ft% | or | dr | reb | ast | blk | stl | pf | to | pts | player |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 2010-11 | LAL | 83-186 | 44.6 | 12-41 | 29.3 | 50-61 | 82.0 | 8 | 26 | 34 | 33 | 3 | 16 | 23 | 31 | 228 | 2 |
| 14 | 2011-12 | LAL | 132-301 | 43.9 | 17-60 | 28.3 | 79-95 | 83.2 | 16 | 42 | 58 | 52 | 2 | 16 | 33 | 34 | 360 | 2 |
| 15 | Career | NaN | 2014-4499 | 44.8 | 292-882 | 33.1 | 1320-1617 | 81.6 | 230 | 889 | 1119 | 1040 | 144 | 310 | 660 | 647 | 5640 | 2 |

# Micheal

In [27]:
```python
# Last extraction: April 28, 2021
# Grabbing Micheal's regular seasons stats.
url_micheal_regular = "https://www.espn.com/nba/player/stats/_/id/1035/michael-jordan"
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/seasontype/3"
# 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]:
```python
micheal_full_regular_average_stats = micheal_teams_reg.join(micheal_regular_season_average_stats)
micheal_full_regular_average_stats['player'] = 3
micheal_regular_season_average = micheal_full_regular_average_stats.rename(columns=str.lower)
micheal_regular_season_average.head()
```

Out[28]:

| | season | team | gp | gs | min | fg | fg% | 3pt | 3p% | ft | ... | or | dr | reb | ast | blk | stl | pf | to | pts | player |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **0** | 1985 | CHI | 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 | 3.5 | 3.5 | 28.2 | 3 |
| **1** | 1986 | CHI | 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 | 2.6 | 2.5 | 22.7 | 3 |
| **2** | 1987 | CHI | 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 | 2.9 | 3.3 | 37.1 | 3 |
| **3** | 1988 | CHI | 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 | 3.3 | 3.1 | 35.0 | 3 |
| **4** | 1989 | CHI | 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 | 3.0 | 3.6 | 32.5 | 3 |

5 rows × 21 columns

## Total

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

Out[29]:

| | season | team | fg | fg% | 3pt | 3p% | ft | ft% | or | dr | reb | ast | blk | stl | pf | to | pts | player |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **0** | 1985 | CHI | 837-1625 | 51.5 | 9-52 | 17.3 | 630-746 | 84.4 | 167 | 367 | 534 | 481 | 69 | 196 | 285 | 291 | 2313 | 3 |
| **1** | 1986 | CHI | 150-328 | 45.7 | 3-18 | 16.7 | 105-125 | 84.0 | 23 | 41 | 64 | 53 | 21 | 37 | 46 | 45 | 408 | 3 |
| **2** | 1987 | CHI | 1098-2279 | 48.2 | 12-66 | 18.2 | 833-972 | 85.7 | 166 | 264 | 430 | 377 | 125 | 236 | 237 | 272 | 3041 | 3 |
| **3** | 1988 | CHI | 1069-1998 | 53.5 | 7-53 | 13.2 | 723-860 | 84.1 | 139 | 310 | 449 | 485 | 131 | 259 | 270 | 252 | 2868 | 3 |
| **4** | 1989 | CHI | 966-1795 | 53.8 | 27-98 | 27.6 | 674-793 | 85.0 | 149 | 503 | 652 | 650 | 65 | 234 | 247 | 290 | 2633 | 3 |

# Postseason Stats

## Average

```
In [30]:   micheal_postseason_average_stats.head()
```

Out[30]:

| | GP | GS | MIN | FG | FG% | 3PT | 3P% | FT | FT% | OR | DR | REB | AST | BLK | STL | PF | TO | PTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **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 | 29.3 |

|   | GP | GS | MIN | FG | FG% | 3PT | 3P% | FT | FT% | OR | DR | REB | AST | BLK | STL | PF | TO | PTS |
|---|----|----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| **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 | 43.7 |
| **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 | 35.7 |
| **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 | 36.3 |
| **4** | 17 | 17 | 42.2 | 11.7-22.9 | 51.0 | 0.6-2.1 | 28.6 | 10.8-13.5 | 79.9 | 1.5 | 5.5 | 7.0 | 7.6 | 0.8 | 2.5 | 3.8 | 4.0 | 34.8 |

In [31]:
```python
micheal_full_postseason_average_stats = micheal_teams_post.join(micheal_postseason_average_stats)
micheal_full_postseason_average_stats['player'] = 3
micheal_postseason_average = micheal_full_postseason_average_stats.rename(columns=str.lower)
micheal_postseason_average.tail()
```

Out[31]:

|   | season | team | gp | gs | min | fg | fg% | 3pt | 3p% | ft | ... | or | dr | reb | ast | blk | stl | pf | to | pts | player |
|---|--------|------|-----|-----|------|-----------|------|---------|------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--------|
| **9** | 1994-95 | CHI | 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 | 3.0 | 4.1 | 31.5 | 3 |
| **10** | 1995-96 | CHI | 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 | 2.7 | 2.3 | 30.7 | 3 |
| **11** | 1996-97 | CHI | 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 | 2.4 | 2.6 | 31.1 | 3 |
| **12** | 1997-98 | CHI | 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 | 2.2 | 2.1 | 32.4 | 3 |
| **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 | 3.0 | 3.1 | 33.4 | 3 |

5 rows × 21 columns

# Total

In [32]:
```python
micheal_postseason_total_stats.head()
```

Out[32]:

|   | FG | FG% | 3PT | 3P% | FT | FT% | OR | DR | REB | AST | BLK | STL | PF | TO | 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 |
| **3** | 138-260 | 53.1 | 1-3 | 33.3 | 86-99 | 86.9 | 23 | 48 | 71 | 47 | 11 | 24 | 38 | 39 | 363 |
| **4** | 199-390 | 51.0 | 10-35 | 28.6 | 183-229 | 79.9 | 26 | 93 | 119 | 130 | 13 | 42 | 65 | 68 | 591 |

```
In [33]:   micheal_full_postseason_total_stats = micheal_teams_post.join(micheal_postseason_total_stats)
           micheal_full_postseason_total_stats['player'] = 3
           micheal_postseason_total = micheal_full_postseason_total_stats.rename(columns=str.lower)
           micheal_postseason_total.tail()
```

Out[33]:

| | season | team | fg | fg% | 3pt | 3p% | ft | ft% | or | dr | reb | ast | blk | stl | pf | to | pts | player |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **9** | 1994-95 | CHI | 120-248 | 48.4 | 11-30 | 36.7 | 64-79 | 81.0 | 20 | 45 | 65 | 45 | 14 | 23 | 30 | 41 | 315 | 3 |
| **10** | 1995-96 | CHI | 187-407 | 45.9 | 25-62 | 40.3 | 153-187 | 81.8 | 31 | 58 | 89 | 74 | 6 | 33 | 49 | 42 | 552 | 3 |
| **11** | 1996-97 | CHI | 227-498 | 45.6 | 13-67 | 19.4 | 123-148 | 83.1 | 42 | 108 | 150 | 91 | 17 | 30 | 46 | 49 | 590 | 3 |
| **12** | 1997-98 | CHI | 243-526 | 46.2 | 13-43 | 30.2 | 181-223 | 81.2 | 33 | 74 | 107 | 74 | 12 | 32 | 47 | 45 | 680 | 3 |
| **13** | Career | NaN | 2188-4497 | 48.7 | 148-446 | 33.2 | 1463-1766 | 82.8 | 305 | 847 | 1152 | 1022 | 158 | 376 | 541 | 546 | 5987 | 3 |

# Data merging

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

## Regular Season Averages

```
In [34]:   # Combining the 3 player's regular season averages
           regular_season_averages = lebron_regular_season_average.append(kobe_regular_season_average
                                                                          ).append(micheal_regular_season_average)
           regular_season_averages.head()
```

Out[34]:

| | season | team | gp | gs | min | fg | fg% | 3pt | 3p% | ft | ... | or | dr | reb | ast | blk | stl | pf | to | pts | player |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **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 | 3.5 | 20.9 | 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 | 3.3 | 27.2 | 1 |
| **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 | 3.3 | 31.4 | 1 |
| **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 | 3.2 | 27.3 | 1 |
| **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 | 3.4 | 30.0 | 1 |

5 rows × 21 columns

## Regular Season Totals

In [35]:
```python
# Combining the 3 player's regular season totals
regular_season_totals = lebron_regular_season_total.append(kobe_regular_season_total
                                                            ).append(micheal_regular_season_total)
regular_season_totals.tail()
```

Out[35]:

| | season | team | fg | fg% | 3pt | 3p% | ft | ft% | or | dr | reb | ast | blk | stl | pf | to | pts | player |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 1996-97 | CHI | 920-1892 | 48.6 | 111-297 | 37.4 | 480-576 | 83.3 | 113 | 369 | 482 | 352 | 44 | 140 | 156 | 166 | 2431 | 3 |
| 12 | 1997-98 | CHI | 881-1893 | 46.5 | 30-126 | 23.8 | 565-721 | 78.4 | 130 | 345 | 475 | 283 | 45 | 141 | 151 | 185 | 2357 | 3 |
| 13 | 2001-02 | WSH | 551-1324 | 41.6 | 10-53 | 18.9 | 263-333 | 79.0 | 50 | 289 | 339 | 310 | 26 | 85 | 119 | 162 | 1375 | 3 |
| 14 | 2002-03 | WSH | 679-1527 | 44.5 | 16-55 | 29.1 | 266-324 | 82.1 | 71 | 426 | 497 | 311 | 39 | 123 | 171 | 173 | 1640 | 3 |
| 15 | Career | NaN | 12192-24537 | 49.7 | 581-1778 | 32.7 | 7327-8772 | 83.5 | 1668 | 5004 | 6672 | 5633 | 893 | 2514 | 2783 | 2924 | 32292 | 3 |

## Postseason Averages

In [36]:
```python
# Combining the 3 player's postseason averages
postseason_averages = lebron_postseason_average.append(kobe_postseason_average
                                                       ).append(micheal_postseason_average)
postseason_averages.tail()
```

Out[36]:

| | season | team | gp | gs | min | fg | fg% | 3pt | 3p% | ft | ... | or | dr | reb | ast | blk | stl | pf | to | pts | player |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 1994-95 | CHI | 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 | 3.0 | 4.1 | 31.5 | 3 |
| 10 | 1995-96 | CHI | 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 | 2.7 | 2.3 | 30.7 | 3 |
| 11 | 1996-97 | CHI | 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 | 2.4 | 2.6 | 31.1 | 3 |
| 12 | 1997-98 | CHI | 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 | 2.2 | 2.1 | 32.4 | 3 |
| 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 | 3.0 | 3.1 | 33.4 | 3 |

5 rows × 21 columns

## Postseason Totals

In [37]:
```python
# Combining the 3 player's postseason totals
postseason_totals = lebron_postseason_total.append(kobe_postseason_total
                                                  ).append(micheal_postseason_total)

postseason_totals.tail()
```

Out[37]:

| | season | team | fg | fg% | 3pt | 3p% | ft | ft% | or | dr | reb | ast | blk | stl | pf | to | pts | player |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **9** | 1994-95 | CHI | 120-248 | 48.4 | 11-30 | 36.7 | 64-79 | 81.0 | 20 | 45 | 65 | 45 | 14 | 23 | 30 | 41 | 315 | 3 |
| **10** | 1995-96 | CHI | 187-407 | 45.9 | 25-62 | 40.3 | 153-187 | 81.8 | 31 | 58 | 89 | 74 | 6 | 33 | 49 | 42 | 552 | 3 |
| **11** | 1996-97 | CHI | 227-498 | 45.6 | 13-67 | 19.4 | 123-148 | 83.1 | 42 | 108 | 150 | 91 | 17 | 30 | 46 | 49 | 590 | 3 |
| **12** | 1997-98 | CHI | 243-526 | 46.2 | 13-43 | 30.2 | 181-223 | 81.2 | 33 | 74 | 107 | 74 | 12 | 32 | 47 | 45 | 680 | 3 |
| **13** | Career | NaN | 2188-4497 | 48.7 | 148-446 | 33.2 | 1463-1766 | 82.8 | 305 | 847 | 1152 | 1022 | 158 | 376 | 541 | 546 | 5987 | 3 |

# Converting into CSV

Now its time to convert the 4 dataframes into csv format

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

## All done!