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### Milestone 1

# **Project Subject**

The purpose of this project is to prep, clean, and merge data from different sources including CSV, HTML, and an API.

#### **Data Sources**

- 1. CSV/Excel/PDF
- Professional Hockey Database
  - saved "master.csv" locally
- This .csv file contains the names and biographical information of players from the NHL including:
  - name
  - nicknames
  - height
  - weight
  - Left/Right handed
  - Birth and Death Years
  - Birth Day and Month
  - Birthplace including the city and state

#### 1. HTML

- List of NHL Statistical Leaders
- This HTML source includes two tables depicting All-time leaders (skaters)
- The first table is labeled regular seasion points. It includes:
  - name
  - teams
  - games played
  - Points
  - points per game
- The second table is labeled regular seasion goals. It includes:
  - name
  - teams
  - games played
  - goals
  - goals per game

#### 1. API

- NHL Records
- This API discovered data by working through a JavaScript file from records.nhl.com. It includes information regarding the following categories:
  - attendance
  - draft
  - records
  - franchise
  - player
  - playoffs
  - trophy
  - milestones
  - officials

#### Relationships

CSV File: Contains stats regarding NHL players listed by first name, last name, and nicknames.

Website: Contains stats regarding NHL players that are all time leaders (skaters), listed by name.

API: Contains stats regarding NHL players.

All 3 of these data sources are related by NHL player names. The player names are stored differently in each data type, but can be easily manipulated to create one to many relationships between the sources.

In [1]: # NOTE: I am rusty on API's and will need more time to explore the data

#### **Next Steps**

The most important part of the project is going to be staying organized and making clear notes throughout the process. I am hopeful that the data cleanup in milestone two closely reflects data cleanup on both HTML and API formats. Anytime data is transformed, being able to communicate those changes is vital.

The data in my project includes many details regarding NHL athletes including demographics and player statistics. The ethical implications involve looking into individualized data rather than whole group anonymous data. Any insight that is unveiled directly involves a specific person and the intent in which that information is shared is critical.

Sports analysis has been around for many years. It has been used for recruiting, entertainment, trading purposes, training, etc. This project revolves more around data preparation. The goal is to be able to view data in different formats and restructure it so that it is easier to read and use. After the data is cleaned and merged, I look forward to looking into how many objects I was able to combine and what patterns come into view when looking at players from creative viewpoints.

Challenges in this project are going to come with new territory and a learning curve that comes with that. This will be the first time I have worked with HTML data. It will also be the first time merging different data sources together. Another challenge is simply the vast amount of data. With so many columns and rows, missing data is inevitable. I will need to figure out the best way to approach the Null values before visualizing or drawing conclusions in milestone 5.

# Milestone 2: Cleaning Flat File Source

```
In [2]: # Import libraries for working with a dataframe, manipulating numerical data, and visualization
         import pandas as pd
         import numpy as np
         import matplotlib.pyplot as plt
In [3]: # load flat file and read the first few rows
         master_df = pd.read_csv("Master.csv")
         master_df.head(3)
             playerID coachID hofID firstName lastName nameNote nameGiven nameNick height weight ... birthDay birthCountry birthState
                                                                                                                                                 birthCity
         0 aaltoan01
                         NaN
                                NaN
                                          Antti
                                                   Aalto
                                                               NaN
                                                                          Antti
                                                                                     NaN
                                                                                            73.0
                                                                                                   210.0
                                                                                                                 4.0
                                                                                                                           Finland
                                                                                                                                        NaN
                                                                                                                                             Lappeenranta
         1 abbeybr01
                         NaN
                                NaN
                                         Bruce
                                                   Abbey
                                                               NaN
                                                                         Bruce
                                                                                     NaN
                                                                                            73.0
                                                                                                   185.0
                                                                                                                 18.0
                                                                                                                           Canada
                                                                                                                                         ON
                                                                                                                                                  Toronto
                                                                        George
         2 abbotge01
                         NaN
                                NaN
                                        George
                                                  Abbott
                                                               NaN
                                                                                 Preacher
                                                                                            67.0
                                                                                                   153.0 ...
                                                                                                                 3.0
                                                                                                                           Canada
                                                                                                                                         ON
                                                                                                                                                Synenham
                                                                         Henry
```

3 rows × 31 columns

# Data Cleaning: Step 1

We do not need all of the death information. I am going to leave the death Year, but deleate 'deathMon', 'deathDay', 'deathCountry', 'deathState', 'deathCity'.

All names should be converted into lowercase for easier merging of data.

```
In [6]: # lowercase columns, and check first 3 rows to check that changes were applied
master_df['firstName'] = master_df['firstName'].str.lower()
master_df['lastName'] = master_df['lastName'].str.lower()
master_df.head(3)
```

| Out[6]: |   | playerID  | coachID | hofID | firstName | lastName | nameNote | nameGiven       | nameNick | height | weight | ••• | firstWHA | lastWHA | pos | birthYear | birthMon |
|---------|---|-----------|---------|-------|-----------|----------|----------|-----------------|----------|--------|--------|-----|----------|---------|-----|-----------|----------|
|         | 0 | aaltoan01 | NaN     | NaN   | antti     | aalto    | NaN      | Antti           | NaN      | 73.0   | 210.0  |     | NaN      | NaN     | С   | 1975.0    | 3.0      |
|         | 1 | abbeybr01 | NaN     | NaN   | bruce     | abbey    | NaN      | Bruce           | NaN      | 73.0   | 185.0  |     | 1975.0   | 1975.0  | D   | 1951.0    | 8.0      |
|         | 2 | abbotge01 | NaN     | NaN   | george    | abbott   | NaN      | George<br>Henry | Preacher | 67.0   | 153.0  |     | NaN      | NaN     | G   | 1911.0    | 8.0      |

3 rows × 26 columns

#### **Data Cleaning: Step 3**

Convert dates and integer values from floating points to valeues that are easier to read

```
In [7]: # understand object types
        master_df.dtypes
Out[7]: playerID
        coachID
                         object
        hofID
                         object
        firstName
                         object
        lastName
                         object
        nameNote
                         object
        nameGiven
                         object
        nameNick
                         object
                         float64
        height
        weight
                        float64
        {\sf shootCatch}
                         object
        legendsID
                         object
        ihdbID
                        float64
        hrefTD
                         obiect
        firstNHL
                        float64
        lastNHI
                        float64
        firstWHA
                        float64
        lastWHA
                        float64
        pos
                         object
        hirthYear
                        float64
        birthMon
                        float64
        birthDay
                        float64
        birthCountry
                         object
        birthState
                         obiect
        birthCity
                         object
        deathYear
                         float64
        dtype: object
In [8]: # Understand missing values
        master_df['birthYear'].isnull().value_counts()
        False
Out[8]:
        True
        Name: birthYear, dtype: int64
In [9]: # Change a float64 object in a column to an integer
         # Note: .astype(int) cannot handle missing values while .astype('Int64') can
        master_df['birthYear'] = master_df['birthYear'].astype('Int64')
        master_df['birthYear'].head(3)
```

```
1975
 Out[9]:
                1951
                1911
           Name: birthYear, dtype: Int64
In [10]: # Change more dates in columns from floats to integers
master_df['firstNHL'] = master_df['firstNHL'].astype('Int64')
           master_df['lastNHL'] = master_df['lastNHL'].astype('Int64')
master_df['firstWHA'] = master_df['firstWHA'].astype('Int64')
           master_df['lastWHA'] = master_df['lastWHA'].astype('Int64')
           master_df['birthMon'] = master_df['birthMon'].astype('Int64')
           master_df['birthDay'] = master_df['birthDay'].astype('Int64')
           master_df['deathYear'] = master_df['deathYear'].astype('Int64')
           # Height, weight, and ihdbID will also be converted since they are entered as whole numbers in the original document
           master_df['height'] = master_df['height'].astype('Int64')
master_df['weight'] = master_df['weight'].astype('Int64')
           master_df['ihdbID'] = master_df['ihdbID'].astype('Int64')
           # Print new column data types to check the changes
           master_df.dtypes
Out[10]: playerID
                             object
           coachID
                             object
           hofID
                             object
           firstName
                             object
           lastName
                             object
           nameNote
                             object
           nameGiven
                             object
           nameNick
                             object
           height
                              Int64
           weight
                              Int64
           {\tt shootCatch}
                             object
           legendsID
                             object
           ihdbID
                              Int64
           hrefID
                             object
           firstNHL
                              Int64
           lastNHL
                              Int64
           firstWHA
                              Int64
           lastWHA
                              Int64
                             object
           birthYear
                              Int64
           birthMon
                              Int64
           birthDay
                              Int64
           birthCountry
                             object
           birthState
                             object
           birthCity
                             object
           deathYear
                              Int64
           dtype: object
```

ihdbID is a column that I was unfamiliar with and needed to research. I will change the name of the column to an more natural title.

### Data Cleaning: Step 5

Next, I will look for and remove outliers.

```
In [12]: # Use the describe function to quickly scan the data
master_df.describe()
```

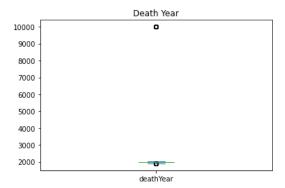
| Out[12]: |       | height      | weight      | internetHockeyID | firstNHL    | lastNHL     | firstWHA    | lastWHA     | birthYear   | birthMon    | birthDay    | deathYear   |
|----------|-------|-------------|-------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|          | count | 7334.000000 | 7336.000000 | 7125.000000      | 6851.000000 | 6851.000000 | 903.000000  | 903.000000  | 7543.000000 | 7506.000000 | 7504.000000 | 1320.000000 |
|          | mean  | 71.904418   | 189.503953  | 18159.395930     | 1979.898555 | 1985.173551 | 1974.256921 | 1975.746401 | 1955.170091 | 6.056088    | 15.605144   | 2547.587121 |
|          | std   | 2.328650    | 18.341611   | 22852.778006     | 24.150092   | 24.359206   | 2.123774    | 1.947460    | 26.379075   | 3.434267    | 8.917103    | 2052.311223 |
|          | min   | 63.000000   | 125.000000  | 45.000000        | 1917.000000 | 1917.000000 | 1972.000000 | 1972.000000 | 1841.000000 | 1.000000    | 1.000000    | 1907.000000 |
|          | 25%   | 70.000000   | 178.000000  | 3339.000000      | 1968.000000 | 1974.000000 | 1972.000000 | 1974.000000 | 1943.000000 | 3.000000    | 8.000000    | 1970.000000 |
|          | 50%   | 72.000000   | 190.000000  | 7500.000000      | 1985.000000 | 1991.000000 | 1974.000000 | 1976.000000 | 1961.000000 | 6.000000    | 15.000000   | 1989.000000 |
|          | 75%   | 73.000000   | 200.000000  | 23463.000000     | 1999.000000 | 2006.000000 | 1976.000000 | 1978.000000 | 1975.000000 | 9.000000    | 23.000000   | 2002.000000 |
|          | max   | 81.000000   | 265.000000  | 118280.000000    | 2011.000000 | 2011.000000 | 1978.000000 | 1978.000000 | 1993.000000 | 12.000000   | 31.000000   | 9999.000000 |
|          |       |             |             |                  |             |             |             |             |             |             |             |             |

There are two interesting finds in the data above.

- 1. The data is only reporting players up until 2011.
- 2. There is an obvious outlier in the deathYear as the max value is year 9999.

```
In [13]: # create a box plot to help with identifying outliers
master_df['deathYear'].plot(kind='box')
plt.title('Death Year')
```

Out[13]: Text(0.5, 1.0, 'Death Year')



```
In [14]: # locate the position (rows) of the outliers
master_df.loc[master_df['deathYear'] == 9999]
```

| t[14]: |      | playerID  | coachID    | hofID | firstName | lastName     | nameNote | nameGiven          | nameNick                     | height    | weight    | <br>firstWHA  | lastWHA   | pos | birthYear |
|--------|------|-----------|------------|-------|-----------|--------------|----------|--------------------|------------------------------|-----------|-----------|---------------|-----------|-----|-----------|
|        | 88   | anderbi01 | NaN        | NaN   | bill      | anderson     | NaN      | William            | Red                          | 72        | 190       | <br><na></na> | <na></na> | D   | 1912      |
|        | 397  | bellepe01 | NaN        | NaN   | pete      | bellefeuille | NaN      | Pierre             | The<br>Fleeting<br>Frenchman | 70        | 180       | <br><na></na> | <na></na> | R   | 1901      |
|        | 430  | bentlre01 | NaN        | NaN   | reg       | bentley      | NaN      | Reginald           | Scoop                        | 68        | 155       | <br><na></na> | <na></na> | L   | 1914      |
|        | 674  | bourcco01 | NaN        | NaN   | conrad    | bourcier     | NaN      | Conrad             | NaN                          | 66        | 155       | <br><na></na> | <na></na> | С   | 1916      |
|        | 750  | brenndo01 | NaN        | NaN   | doug      | brennan      | NaN      | Douglas<br>Richard | NaN                          | 71        | 180       | <br><na></na> | <na></na> | D   | 1905      |
|        |      |           |            |       |           |              |          |                    |                              |           |           | <br>          |           |     |           |
|        | 6909 | suthema01 | NaN        | NaN   | max       | sutherland   | NaN      | Ronald<br>Maxwell  | NaN                          | 70        | 165       | <br><na></na> | <na></na> | D   | 1907      |
|        | 7057 | thompke01 | NaN        | NaN   | ken       | thompson     | NaN      | Kenworthy          | NaN                          | 70        | 160       | <br><na></na> | <na></na> | L   | 1881      |
|        | 7060 | NaN       | thomppe01c | NaN   | percy     | thompson     | NaN      | Percy              | NaN                          | <na></na> | <na></na> | <br><na></na> | <na></na> | NaN | <na></na> |
|        | 7159 | trembni01 | NaN        | NaN   | nils      | tremblay     | NaN      | Louis Nil          | NaN                          | 69        | 170       | <br><na></na> | <na></na> | С   | 1923      |
|        | 7606 | winchja01 | NaN        | NaN   | jack      | winchester   | NaN      | Jack               | Bill                         | 68        | 155       | <br><na></na> | <na></na> | G   | 1882      |

93 rows × 26 columns

This is showing that there are 93 observations with death dates set in the year 9999. I was planning on deleting a single outlier, but it is clear this date was used as a "missing data" placeholder to some extent. Rather than deleting 93 rows, I will set the death dates of 9999 to a NaN value instead.

```
In [15]: # replace death year of 9999 with NaN values
master_df['deathYear'] = master_df['deathYear'].replace({9999: np.nan})
```

```
In [16]: # double check that the death year of 9999 no longer has value in the data frame
          master_df.loc[master_df['deathYear'] == 9999]
Out[16]:
            playerID coachID hofID firstName lastName nameNote nameGiven nameNick height weight ... firstWHA lastWHA pos birthYear birthMon bir
         0 rows × 26 columns
In [17]: # also check visually that the outliers no longer exist
          master_df['deathYear'].plot(kind='box')
          plt.title('Death Year')
Out[17]: Text(0.5, 1.0, 'Death Year')
                                    Death Year
          2000
          1980
          1960
          1940
          1920
                                     deathYear
In [18]:
         master_df.describe()
Out[18]:
                                                             firstNHL
                                                                         lastNHL
                                                                                    firstWHA
                                                                                                 lastWHA
                                                                                                                                     birthDay
                     heiaht
                                 weight internetHockevID
                                                                                                            birthYear
                                                                                                                        birthMon
                                                                                                                                                deathYear
                7334.000000 7336.000000
                                              7125.000000 6851.000000
                                                                     6851.000000
                                                                                   903.000000
                                                                                               903.000000 7543.000000 7506.000000
                                                                                                                                  7504.000000 1227.000000
          count
          mean
                   71.904418
                              189.503953
                                             18159.395930 1979.898555 1985.173551 1974.256921 1975.746401 1955.170091
                                                                                                                          6.056088
                                                                                                                                     15.605144 1982.810106
            std
                    2.328650
                               18.341611
                                             22852.778006
                                                            24.150092
                                                                        24.359206
                                                                                     2.123774
                                                                                                 1.947460
                                                                                                            26.379075
                                                                                                                          3.434267
                                                                                                                                      8.917103
                                                                                                                                                20.849197
            min
                   63.000000
                              125.000000
                                                45.000000 1917.000000 1917.000000 1972.000000 1972.000000 1841.000000
                                                                                                                          1.000000
                                                                                                                                      1.000000 1907.000000
```

There is still some discrepency with death year, but the boxplot looks much better. Notice the earliest recorded death date is 1907, but the earliest WHA or NHL is in 1917. At this point, I will proceed with caution. If the early outliers impact results, they can still be removed.

118280.000000 2011.000000 2011.000000 1978.000000 1978.000000 1993.000000

23463.000000 1999.000000 2006.000000 1976.000000 1978.000000

1974.000000 1972.000000 1974.000000

1991.000000 1974.000000 1976.000000

3.000000

6.000000

9.000000

12 000000

1961.000000

8.000000 1968.000000

15.000000 1987.000000

23.000000 2000.000000

31 000000 2012 000000

# Milestone 3: Cleaning Website Data

3339.000000 1968.000000

7500.000000 1985.000000

25%

50%

**75**%

max

70.000000

72.000000

73.000000

81 000000

178.000000

190.000000

200.000000

265 000000

```
In [19]: #Load Libraries
from bs4 import BeautifulSoup
import pandas as pd

In [20]: # set the file destination, read, and close the web source
fd = open("List of NHL statistical leaders - Wikipedia.html", encoding='latin-1')
soup = BeautifulSoup(fd)
fd.close()

In [21]: # use find-all to extract the content from the table tag, then find the length
all_tables = soup.find_all("table")
print("There are", len(all_tables), 'tables')

There are 7 tables

In [22]: #attempting to look for the "right table"
all_tables
```

```
Out[22]: [class="box-More_citations_needed plainlinks metadata ambox ambox-content ambox-Refimprove" role="presentation">class="box-More_citations_needed plainlinks metadata ambox ambox-content ambox-Refimprove" role="presentation">class="box-More_citations_needed plainlinks metadata ambox ambox-content ambox-Refimprove" role="presentation">class="box-More_citations_needed plainlinks">class="box-More_citations_needed plainlinks_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_needed_need
                                    d class="mbox-image"><div class="mbox-image-div"><a class="image" href="https://en.wikipedia.org/wiki/File:Question_book-new.svg"><i
                                    mg alt="" data-file-height="399" data-file-width="512" decoding="async" height="39" src="./List of NHL statistical leaders - Wikiped
                                    ia files/Question book-new.svg.png" srcset="//upload.wikimedia.org/wikipedia/en/thumb/9/99/Question book-new.svg/75px-Question book-
                                    new.svg.png 1.5x, //upload.wikimedia.org/wikipedia/en/thumb/9/99/Question_book-new.svg/100px-Question_book-new.svg.png 2x" width="5
                                    0"/></a></div><div class="mbox-text-span">This article <b>needs additional citations for <a href="http"
                                    s://en.wikipedia.org/wiki/Wikipedia:Verifiability" title="Wikipedia:Verifiability">verification</a></b>.<span class="hide-when-compa"
                                     ct"> Please help <a class="external text" href="https://en.wikipedia.org/w/index.php?title=List_of_NHL_statistical_leaders&amp;actio
                                    n=edit">improve this article</a> by <a href="https://en.wikipedia.org/wiki/Help:Referencing_for_beginners" title="Help:Referencing f
                                    or beginners">adding citations to reliable sources</a>. Unsourced material may be challenged and removed.cbr/>csmall>cspan class="pl
                                    ainlinks"><i>Find sources:</i> <a class="external text" href="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as_eq=wikipedia&amp;q=%22List+of+NHL+stallines="https://www.google.com/search?as
                                    tistical+leaders%22" rel="nofollow">"List of NHL statistical leaders"</a> âED <a class="external text" href="https://www.google.com/
                                     search?tbm=nws\&q=\%22List+of+NHL+statistical+leaders\%22+-wikipedia\&tbs=ar:1" rel="nofollow">news</a> < b><math>\hat{A}\cdot < b < c class="externation">\hat{A}\cdot < b < c class="e
                                    rnal\ text"\ href="https://www.google.com/search?&q=\%22List+of+NHL+statistical+leaders\%22\&tbs=bkt:s\&tbm=bks"\ rel="nofollowed by the statistical form of the sta
                                    w">newspapers</a> <b>·</b> <a class="external text" href="https://www.google.com/search?tbs=bks:1&amp;q=%22List+of+NHL+statistical+
                                    leaders \% 22 + - wikipedia " rel = "nofollow" > books </a > < b > \hat{A} \cdot </b > < a class = "external text" href = "https://scholar.google.com/scholar?q = \% 22 Lis = (a.s. + b.s. + b.
                                    t+of+NHL+statistical+leaders%22" rel="nofollow">scholar</a> <br/>b>å-</b> <a class="external text" href="https://www.jstor.org/action/do
                                     BasicSearch?Query=%22List+of+NHL+statistical+leaders%22&acc=on&wc=on" rel="nofollow">JSTOR</a></span></small></span> <span c
                                     lass="date-container"><i>(<span class="date">April 2017</span>)</i></span><span class="hide-when-compact"><i> (<small><a href="http" (<sm
                                     s://en.wikipedia.org/wiki/Help:Maintenance_template_removal" title="Help:Maintenance template removal">Learn how and when to remove
                                    this template message</a></small>)</i></span></div>,
                                        <div id="toctitle">Contents</div>
                                         <big><a href="https://en.wikipedia.org/wiki/List_of_NHL_statistical_leaders#Skaters">Skaters</a></bi</pre>
                                         <a href="https://en.wikipedia.org/wiki/List_of_NHL_statistical_leaders#All-time_leaders_(skaters)">All-tim
                                     e leaders</a>
                                        <dl><dd><d href="https://en.wikipedia.org/wiki/List_of_NHL_statistical_leaders#Regular_season:_Points">Regular season: Points</a>
                                        <dl><dd><a href="https://en.wikipedia.org/wiki/List_of_NHL_statistical_leaders#Regular_season:_Points_per_game">Regular_season: Poi
                                     nts per game</a></dd></dd>
                                        <dd><a href="https://en.wikipedia.org/wiki/List_of_NHL_statistical_leaders#Regular_season:_Goals">Regular season: Goals</a>
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                  League statistical records">League records</a> (<a href="https://en.wikipedia.org/wiki/List_of_NHL_records_(individual)" title="List
                  of NHL records (individual)">individual</a>, <a href="https://en.wikipedia.org/wiki/List_of_NHL_records_(team)" title="List of NHL r
                  ecords (team)">team</a>)
                    <a class="mw-selflink">Statistical leaders</a> (<a href="https://en.wikipedia.org/wiki/List_of_NHL_statistical_leaders") (<a href="https://en.wiki/List_of_NHL_statistical_leaders") (<a href="https://
                  _by_country" title="List of NHL statistical leaders by country">by country of birth</a>)
                    <a href="https://en.wikipedia.org/wiki/List_of_NHL_players_with_1,000_points" title="List of NHL players with 1,000 points">Poi
                  nts, career (min. 1,000)</a>
                    <a href="https://en.wikipedia.org/wiki/List_of_NHL_players_with_1,000_assists" title="List of NHL players with 1,000 assists">A
                  ssists, career (min. 1,000)</a>
                    <a href="https://en.wikipedia.org/wiki/List_of_NHL_players_with_500_goals" title="List of NHL players with 500 goals">Goals, ca
                  reer (min. 500)</a>
                    <a href="https://en.wikipedia.org/wiki/List_of_NHL_players_with_100-point_seasons" title="List of NHL players with 100-point se</pre>
                  asons">Points, season (min. 100)</a>
                    <a href="https://en.wikipedia.org/wiki/List_of_NHL_players_with_50-goal_seasons" title="List of NHL players with 50-goal season</pre>
                  s">Goals, season (min. 50)</a>
                    <a href="https://en.wikipedia.org/wiki/50_goals_in_50_games" title="50 goals in 50 games">50 goals in 50 games
                    <a href="https://en.wikipedia.org/wiki/List_of_NHL_players_with_1,000_games_played" title="List of NHL players with 1,000 games</pre>
                  played">Games, career (min. 1,000)</a>
                    <\!1\!i><\!a\;href="https://en.wikipedia.org/wiki/List_of_NHL_players_with_500\_consecutive\_games\_played"\;title="List of NHL players with 500\_consecutive\_games_played"
                  00 consecutive games played">Consecutive games, career (min. 500)</a>
                    <a href="https://en.wikipedia.org/wiki/List_of_NHL_players_with_2,000_career_penalty_minutes" title="List of NHL players with</pre>
                  2,000 career penalty minutes">PIMs, career (min. 2,000)</a>
                    <a href="https://en.wikipedia.org/wiki/List_of_players_with_five_or_more_goals_in_an_NHL_game" title="List of players with five</pre>
                  or more goals in an NHL game">5+ goals, game</a>
                    <a href="https://en.wikipedia.org/wiki/List_of_players_with_eight_or_more_points_in_an_NHL_game" title="List of players with ei</pre>
                  ght or more points in an NHL game">8+ points, game</a>
                    <a href="https://en.wikipedia.org/wiki/List_of_NHL_goaltenders_with_300_wins" title="List of NHL goaltenders with 300 wins">Goa
                  ltender wins, career (min. 300)</a>
                    <a class="mw-redirect" href="https://en.wikipedia.org/wiki/List_of_goaltenders_who_have_scored_a_goal_in_an_NHL_game" title="Li</pre>
                  st of goaltenders who have scored a goal in an NHL game">Goaltenders who have scored</a>
                    <a href="https://en.wikipedia.org/wiki/List_of_career_achievements_by_Wayne_Gretzky" title="List of career achievements by Wayn</pre>
                  e Gretzky">Wayne Gretzky's records</a>
                    <a href="https://en.wikipedia.org/wiki/Gordie_Howe#Records" title="Gordie Howe">Gordie Howe's records</a>
                    <a href="https://en.wikipedia.org/wiki/List of National Hockey League longest winning streaks" title="List of National Hockey L</pre>
                  eague longest winning streaks">Longest winning streaks</a>
                    <a href="https://en.wikipedia.org/wiki/List_of_National_Hockey_League_longest_losing_streaks" title="List of National Hockey Le</pre>
                  ague longest losing streaks">Longest losing streaks</a>
                    </div>Related<td class="navbox-list-with-group navbox-list
                  navbox-even hlist" style="width:100%;padding:0"><div style="padding:0"> o.25em">
                    <a href="https://en.wikipedia.org/wiki/List_of_international_games_played_by_NHL_teams" title="List of international games</pre>
                  played by NHL teams">International games with NHL teams</a>
                    <a href="https://en.wikipedia.org/wiki/List_of_international_ice_hockey_competitions_featuring_NHL_players" title="List of inte</pre>
                  rnational ice hockey competitions featuring NHL players">International games with NHL players</a>
                    <a href="https://en.wikipedia.org/wiki/World_Cup_of_Hockey" title="World Cup of Hockey">World Cup of Hockey</a>
                    <a href="https://en.wikipedia.org/wiki/Hockey_Fights_Cancer" title="Hockey Fights Cancer">Hockey Fights Cancer</a>
                    </div>0ther<td class="navbox-list-with-group navbox-list n
                  avbox-odd hlist" style="width:100%;padding:0"><div style="padding:0" 0.25em">
                    \verb|\cli>| \cli>| \cli>| \cli>| \cli+| \cli+
                   ague attendance figures">Attendance totals</a>
                    <a href="https://en.wikipedia.org/wiki/Trade_(sports)#NHL_2" title="Trade (sports)">Trade deadline</a>
                    <a href="https://en.wikipedia.org/wiki/Waivers_(NHL)" title="Waivers (NHL)">Waivers</a>
                    <a href="https://en.wikipedia.org/wiki/List_of_player_salaries_in_the_NHL" title="List of player salaries in the NHL">Player sa
                  laries</a>
                    <a href="https://en.wikipedia.org/wiki/List_of_team_payrolls_in_the_NHL" title="List of team payrolls in the NHL">Team payrolls
                   </a>
                    <a href="https://en.wikipedia.org/wiki/National_Hockey_League_Players%27_Association" title="National Hockey League Players' As</pre>
                  sociation">NHLPA</a>
                    <a href="https://en.wikipedia.org/wiki/NHL_Collective_Bargaining_Agreement" title="NHL Collective Bargaining Agreement">CBA</a>
                   <a href="https://en.wikipedia.org/wiki/List_of_ice_hockey_video_games" title="List of ice hockey video games">Video games</a>/
                    <a href="https://en.wikipedia.org/wiki/List_of_NHL_mascots" title="List of NHL mascots">Mascots</a>
                    \verb|\cli><a href="https://en.wikipedia.org/wiki/Analytics_(ice_hockey)" title="Analytics (ice_hockey)" > Advanced statistics</a>|\cli><a href="https://en.wikipedia.org/wiki/Analytics_(ice_hockey)" title="Analytics (ice_hockey)" > Advanced statistics</a>|\cli><a href="https://en.wikipedia.org/wiki/Analytics_(ice_hockey)" title="Analytics_hockey)" > Advanced statistics</a>|\cli><a href="https://en.wikipedia.org/wiki/Analytics_hockey" title="Analytics_hockey" title="Analytics_hoc
                    <a href="https://en.wikipedia.org/wiki/NHL_uniform" title="NHL uniform">NHL uniform</dl>
                    </div>]
In [23]: # parse a table from the correct class
                  data_table = soup.find("table", {"class": 'wikitable sortable jquery-tablesorter'})
In [24]: #create a list from the html source
                   html df=pd.read html(str(data table))
                   # convert list to dataframe
```

```
html_df=pd.DataFrame(html_df[0])
          html_df.head()
Out[24]:
             Rank
                          Name
                                                              Team(s)
                                                                        GP Pts PPG
                1 Wayne Gretzky
                                                     EDM, LAK, STL, NYR 1487 2857 1.92
                     Jaromir Jagr PIT, WSH, NYR, PHI, DAL, BOS, NJD, FLA, CGY 1733 1921 1.11
                    Mark Messier
                                                        EDM, NYR, VAN 1756 1887 1.07
                    Gordie Howe
                                                             DET, HFD 1767 1850 1.05
                      Ron Francis
                                                     HFD, PIT, CAR, TOR 1731 1798 1.04
In [25]: html_df.dtypes
          Rank
                        int64
Out[25]:
                       object
          Name
          Team(s)
                       object
          GP
                        int64
          Pts
                        int64
          PPG
                      float64
          dtype: object
```

GP and PPG were not quickly recognizeable for a non-hockey fan. I will change the name of the column to an more natural title. Also, having parenthesis in a title makes it hard to work with. I will change the name of the column Team(s) as well.

```
In [26]: # Rename column headers and confirm that changes were applied correctly
html_df.rename(columns = {'GP':'gamesPlayed'}, inplace = True)
html_df.rename(columns = {'PPG':'ptsperGame'}, inplace = True)
html_df.rename(columns = {'Team(s)':'Teams'}, inplace = True)
html_df.head(3)
```

| Out[26]: |   | Rank | Name          | Teams                                       | gamesPlayed | Pts  | ptsperGame |
|----------|---|------|---------------|---|-------------|------|------------|
|          | 0 | 1    | Wayne Gretzky | EDM, LAK, STL, NYR                          | 1487        | 2857 | 1.92       |
|          | 1 | 2    | Jaromir Jagr  | PIT, WSH, NYR, PHI, DAL, BOS, NJD, FLA, CGY | 1733        | 1921 | 1.11       |
|          | 2 | 3    | Mark Messier  | EDM, NYR, VAN                               | 1756        | 1887 | 1.07       |

# Data Cleaning: Step 2

All names should be converted into lowercase for easier merging of data.

```
In [27]: # lowercase columns, and check first 3 rows to check that changes were applied
html_df['Name'] = html_df['Name'].str.lower()
html_df.head(3)
```

| Out[27]: |   | Rank | Name          | Teams                                       | gamesPlayed | Pts  | ptsperGame |
|----------|---|------|---------------|---|-------------|------|------------|
|          | 0 | 1    | wayne gretzky | EDM, LAK, STL, NYR                          | 1487        | 2857 | 1.92       |
|          | 1 | 2    | jaromir jagr  | PIT, WSH, NYR, PHI, DAL, BOS, NJD, FLA, CGY | 1733        | 1921 | 1.11       |
|          | 2 | 3    | mark messier  | EDM, NYR, VAN                               | 1756        | 1887 | 1.07       |

# Data Cleaning: Step 3

The master dataframe has two columns for names called firstName and lastName. I will split the Name column into two columns to match the master dataframe.

```
In [28]: # Split the names into firstName and LastName to match the master dataframe
# Confirm the columns were added
html_df[['firstName','lastName']] = html_df.Name.str.split(expand=True)
html_df.head(3)
```

| Out[28]: |   | Rank | Name          | Teams                                       | gamesPlayed | Pts  | ptsperGame | firstName | lastName |
|----------|---|------|---------------|---|-------------|------|------------|-----------|----------|
|          | 0 | 1    | wayne gretzky | EDM, LAK, STL, NYR                          | 1487        | 2857 | 1.92       | wayne     | gretzky  |
|          | 1 | 2    | jaromir jagr  | PIT, WSH, NYR, PHI, DAL, BOS, NJD, FLA, CGY | 1733        | 1921 | 1.11       | jaromir   | jagr     |
|          | 2 | 3    | mark messier  | EDM, NYR, VAN                               | 1756        | 1887 | 1.07       | mark      | messier  |

The master dataframe does not include a full name column. I will drop the name column.

```
In [29]: # drop the name column and confirm the column was dropped
html_df = html_df.drop(columns=['Name'])
html_df.head(3)
```

| 29]: |   | Rank | Teams                                       | gamesPlayed | Pts  | ptsperGame | firstName | lastName |
|------|---|------|---|-------------|------|------------|-----------|----------|
|      | 0 | 1    | EDM, LAK, STL, NYR                          | 1487        | 2857 | 1.92       | wayne     | gretzky  |
|      | 1 | 2    | PIT, WSH, NYR, PHI, DAL, BOS, NJD, FLA, CGY | 1733        | 1921 | 1.11       | jaromir   | jagr     |
|      | 2 | 3    | FDM NYR VAN                                 | 1756        | 1887 | 1.07       | mark      | messier  |

## Data Cleaning: Step 5

I would like to do something about having multiple names under teams. I will start by converting the object to a string. It would be nice to add a column stating how many teams they played for, but I have not yet figured out how to do this.

```
In [30]: # change the Teams Column into a string
html_df["Teams"] = html_df["Teams"].astype(str)
html_df.head(3)
```

| Out[30]: |   | Rank | Teams                                       | gamesPlayed | Pts  | ptsperGame | firstName | lastName |
|----------|---|------|---|-------------|------|------------|-----------|----------|
|          | 0 | 1    | EDM, LAK, STL, NYR                          | 1487        | 2857 | 1.92       | wayne     | gretzky  |
|          | 1 | 2    | PIT, WSH, NYR, PHI, DAL, BOS, NJD, FLA, CGY | 1733        | 1921 | 1.11       | jaromir   | jagr     |
|          | 2 | 3    | EDM, NYR, VAN                               | 1756        | 1887 | 1.07       | mark      | messier  |

#### **Ethical Implications**

The cleaning of this particular html data set has minor implications. When working on data that includes real people, it is important to keep data honest. In this data set, there were no missing values that needed to be replaced with mean or median values. All player names were simply split and lowercased, but in no other way changed. I think the largest ethical impact is that this data source came from wikipedia, which can be publicly edited and therefore not accurate in the first place.

# Milestone 4: Connecting to an API/Pulling in the Data and Cleaning/Formatting

```
In [31]: # Load Libraries needed for working with API data
import urllib.request, urllib.parse, urllib.error
import json
import requests

In [32]: serviceurl = "https://records.nhl.com/site/api"
    recordslookup = "/milestone-1000-point-career"

In [33]: url = serviceurl + recordslookup
    url = requests.get("https://records.nhl.com/site/api/milestone-1000-point-career")

In [34]: print(url.status_code)
    200

In [35]: player_dict = url.json()
    player_dict['data']
```

```
Out[35]: [{'id': {'gameId': 1992020726, 'skaterId': 8444945},
             'activePlayer': 0,
            'ageInDaysForYear': 143,
            'ageInYears': 32,
            'careerAssists': 601,
            'careerGoals': 498,
             'careerPoints': 1099,
            'gameDate': '1993-02-22T00:00:00',
             gameId': 1992020726,
            'goalieFirstName': 'Kirk',
             'goalieId': 8449474,
             'goalieLastName': 'McLean',
            'homeScore': 1,
            'homeTeamId': 23,
            'homeTriCode': 'VAN',
            'seasonId': 19921993,
            'skaterCareerGamesPlayed': 1129,
            'skaterFirstName': 'Glenn',
            'skaterGamesPlayed': 954,
            'skaterId': 8444945,
            'skaterLastName': 'Anderson',
            'skaterTeamId': 10,
'skaterTeamName': 'Toronto Maple Leafs',
            'typeOfPoint': 'G',
            'visitorScore': 8,
            'visitorTeamId': 10,
            'visitorTriCode': 'TOR'},
           {'id': {'gameId': 1995021020, 'skaterId': 8445000},
             'activePlayer': 0,
            'ageInDaysForYear': 191,
            'ageInYears': 32,
            'careerAssists': 698,
            'careerGoals': 640,
'careerPoints': 1338,
            'gameDate': '1996-04-07T00:00:00',
             gameId': 1995021020,
             'goalieFirstName': 'Mike',
             'goalieId': 8450833,
             'goalieLastName': 'Richter',
            'homeScore': 4,
            'homeTeamId': 1,
            'homeTriCode': 'NJD',
            'seasonId': 19951996,
            'skaterCareerGamesPlayed': 1639,
            'skaterFirstName': 'Dave',
            'skaterGamesPlayed': 998,
            'skaterId': 8445000,
            'skaterLastName': 'Andreychuk',
            'skaterTeamId': 1,
            'skaterTeamName': 'New Jersey Devils',
            'typeOfPoint': 'G',
            'visitorScore': 2,
            'visitorTeamId': 3,
            'visitorTriCode': 'NYR'},
           {'id': {'gameId': 1972020112, 'skaterId': 8445240},
             'activePlayer': 0,
            'ageInDaysForYear': 181,
            'ageInYears': 37,
            'careerAssists': 813,
            'careerGoals': 556,
'careerPoints': 1369,
            'gameDate': '1972-11-09T00:00:00',
             gameId': 1972020112,
             'goalieFirstName': 'Denis',
            'goalieId': 8449866,
             'goalieLastName': 'DeJordy',
            'homeScore': 8,
            'homeTeamId': 6,
'homeTriCode': 'BOS',
            'seasonId': 19721973,
            'skaterCareerGamesPlayed': 1540,
            'skaterFirstName': 'Johnny',
            'skaterGamesPlayed': 1144,
            'skaterId': 8445240,
            'skaterLastName': 'Bucyk',
            'skaterTeamId': 6,
'skaterTeamName': 'Boston Bruins',
            'typeOfPoint': 'G',
            'visitorScore': 3,
            'visitorTeamId': 17,
            'visitorTriCode': 'DET'},
           {'id': {'gameId': 1967020368, 'skaterId': 8445408},
             activePlayer': 0,
            'ageInDaysForYear': 185,
             'ageInYears': 36,
            'careerAssists': 712.
            'careerGoals': 507,
```

```
'careerPoints': 1219,
  'gameDate': '1968-03-03T00:00:00',
  'gameId': 1967020368,
  goalieFirstName': 'Roger',
  'goalieId': 8449859,
 'goalieLastName': 'Crozier',
  'homeScore': 5,
 'homeTeamId': 17,
 'homeTriCode': 'DET',
 'seasonId': 19671968,
 'skaterCareerGamesPlayed': 1125,
 'skaterFirstName': 'Jean',
 'skaterGamesPlayed': 911,
 'skaterId': 8445408,
 'skaterLastName': 'Beliveau',
 'skaterTeamId': 8,
'skaterTeamName': 'Montréal Canadiens',
 'typeOfPoint': 'G',
 'visitorScore': 2,
 'visitorTeamId': 8,
 'visitorTriCode': 'MTL'},
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 'activePlayer': 0,
'ageInDaysForYear': 123,
 'ageInYears': 34,
 'careerAssists': 537,
 'careerGoals': 485,
 'careerPoints': 1022,
  'gameDate': '1999-01-02T00:00:00',
 'gameId': 1998020474,
  'goalieFirstName': 'Curtis',
  goalieId': 8448382,
 'goalieLastName': 'Joseph',
 'homeScore': 2,
 'homeTeamId': 10,
'homeTriCode': 'TOR',
 'seasonId': 19981999,
 'skaterCareerGamesPlayed': 1188,
 'skaterFirstName': 'Brian',
 'skaterGamesPlayed': 1147,
 'skaterId': 8445417,
 'skaterLastName': 'Bellows',
 'skaterTeamId': 15,
'skaterTeamName': 'Washington Capitals',
'typeOfPoint': 'A',
'visitorScore': 5,
 'visitorTeamId': 15,
 'visitorTriCode': 'WSH'},
{'id': {'gameId': 1985020493, 'skaterId': 8445611}, 'activePlayer': 0,
  'ageInDaysForYear': 2,
 'ageInYears': 29,
 'careerAssists': 553,
 'careerGoals': 573,
 'careerPoints': 1126,
  'gameDate': '1986-01-24T00:00:00',
 'gameId': 1985020493,
  goalieFirstName': None,
  'goalieId': None,
 'goalieLastName': None,
 'homeScore': 5,
'homeTeamId': 15,
 'homeTriCode': 'WSH',
 'seasonId': 19851986,
 'skaterCareerGamesPlayed': 752,
 'skaterFirstName': 'Mike',
 'skaterGamesPlayed': 656,
 'skaterId': 8445611,
 'skaterLastName': 'Bossy',
 'skaterTeamId': 2,
 'skaterTeamName': 'New York Islanders',
 'typeOfPoint': 'A',
 'visitorScore': 7,
 'visitorTeamId': 2,
 'visitorTriCode': 'NYI'},
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 'activePlayer': 0,
'ageInDaysForYear': 63,
 'ageInYears': 31,
 'careerAssists': 1169,
 'careerGoals': 410,
 'careerPoints': 1579,
  'gameDate': '1992-02-29T00:00:00',
  'gameId': 1991020694,
  'goalieFirstName': 'Don',
  'goalieId': 8445381,
 'goalieLastName': 'Beaupre',
```

```
'homeScore': 5,
'homeTeamId': 6,
'homeTriCode': 'BOS',
 'seasonId': 19911992,
 'skaterCareerGamesPlayed': 1612,
 'skaterFirstName': 'Ray',
 'skaterGamesPlayed': 933,
 'skaterId': 8445621,
 'skaterLastName': 'Bourque',
'skaterTeamId': 6,
 'skaterTeamName': 'Boston Bruins',
'typeOfPoint': 'A',
'visitorScore': 5,
 'visitorTeamId': 15,
 'visitorTriCode': 'WSH'},
{'id': {'gameId': 2006020195, 'skaterId': 8445735},
 'activePlayer': 0,
'ageInDaysForYear': 87,
 'ageInYears': 36,
 'careerAssists': 732,
 'careerGoals': 452,
 'careerPoints': 1184,
 'gameDate': '2006-11-04T00:00:00',
 'gameId': 2006020195,
 'goalieFirstName': 'Martin',
 'goalieId': 8469675,
 'goalieLastName': 'Gerber',
 'homeScore': 2,
 'homeTeamId': 9,
'homeTriCode': 'OTT',
 'seasonId': 20062007,
 'skaterCareerGamesPlayed': 1484,
 'skaterFirstName': 'Rod',
 'skaterGamesPlayed': 1202,
 'skaterId': 8445735,
 'skaterLastName': "Brind'Amour",
 'skaterTeamId': 12,
'skaterTeamName': 'Carolina Hurricanes',
'typeOfPoint': 'A',
'visitorScore': 3,
 'visitorTeamId': 12,
 'visitorTriCode': 'CAR'},
{'id': {'gameId': 1968020340, 'skaterId': 8445865},
 'activePlayer': 0,
 'ageInDaysForYear': 74,
 'ageInYears': 37,
 'careerAssists': 825,
 'careerGoals': 456,
 'careerPoints': 1281,
 'gameDate': '1969-02-16T00:00:00',
 'gameId': 1968020340,
 'goalieFirstName': 'Gerry',
 'goalieId': 8449868,
 'goalieLastName': 'Desjardins',
 'homeScore': 6,
 'homeTeamId': 17,
 'homeTriCode': 'DET',
 'seasonId': 19681969,
 'skaterCareerGamesPlayed': 1550,
 'skaterFirstName': 'Alex',
'skaterGamesPlayed': 1219,
 'skaterId': 8445865,
 'skaterLastName': 'Delvecchio',
'skaterTeamId': 17,
'skaterTeamName': 'Detroit Red Wings',
'typeOfPoint': 'A',
 'visitorScore': 3,
 'visitorTeamId': 26,
 'visitorTriCode': 'LAK'},
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 'activePlayer': 0,
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 'ageInYears': 34,
 'careerAssists': 592,
 'careerGoals': 608,
 'careerPoints': 1200,
 'gameDate': '1994-03-09T00:00:00',
 'gameId': 1993020873,
 'goalieFirstName': 'Mike',
 'goalieId': 8452217,
 'goalieLastName': 'Vernon',
 'homeScore': 1,
 'homeTeamId': 20,
 'homeTriCode': 'CGY',
 'seasonId': 19931994,
 'skaterCareerGamesPlayed': 1232,
 'skaterFirstName': 'Dino',
```

```
'skaterGamesPlayed': 957,
 'skaterId': 8446063,
 'skaterLastName': 'Ciccarelli',
 'skaterTeamId': 17,
'skaterTeamName': 'Detroit Red Wings',
 'typeOfPoint': 'G',
'visitorScore': 5,
 'visitorTeamId': 17,
 'visitorTriCode': 'DET'},
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 'activePlayer': 0,
'ageInDaysForYear': 218,
 'ageInYears': 31,
 'careerAssists': 852,
 'careerGoals': 358,
'careerPoints': 1210,
 'gameDate': '1981-03-19T00:00:00',
 'gameId': 1980020750,
 'goalieFirstName': 'Marco',
 'goalieId': 8445272,
 'goalieLastName': 'Baron',
 'homeScore': 5,
'homeTeamId': 4,
'homeTriCode': 'PHI',
 'seasonId': 19801981,
 'skaterCareerGamesPlayed': 1144,
 'skaterFirstName': 'Bobby',
 'skaterGamesPlayed': 922,
'skaterId': 8446098,
 'skaterLastName': 'Clarke',
'skaterTeamId': 4,
'skaterTeamName': 'Philadelphia Flyers',
 'typeOfPoint': 'G',
'visitorScore': 3,
 'visitorTeamId': 6,
 'visitorTriCode': 'BOS'},
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 'activePlayer': 0,
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 'ageInYears': 29,
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 'careerGoals': 396,
 'careerPoints': 1531,
 'gameDate': '1990-12-22T00:00:00',
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'careerGoals': 822,
'careerPoints': 1485,
 'gameDate': '2017-01-11T00:00:00',
 'gameId': 2016020622,
 'goalieFirstName': 'Marc-Andre',
 'goalieId': 8470594,
 'goalieLastName': 'Fleury',
 'homeScore': 5,
'homeTeamId': 15,
'homeTriCode': 'WSH',
 'seasonId': 20162017,
 'skaterCareerGamesPlayed': 1347,
 'skaterFirstName': 'Alex',
 'skaterGamesPlayed': 880,
 'skaterId': 8471214,
 'skaterLastName': 'Ovechkin',
 'skaterTeamId': 15,
'skaterTeamName': 'Washington Capitals',
 'typeOfPoint': 'G',
 'visitorScore': 2,
 'visitorTeamId': 5,
 'visitorTriCode': 'PIT'},
{'id': {'gameId': 2018021073, 'skaterId': 8471215},
 activePlayer': 1,
 'ageInDaysForYear': 224,
 'ageInYears': 32,
 'careerAssists': 758,
 'careerGoals': 471,
```

```
'careerPoints': 1229,
 'gameDate': '2019-03-12T00:00:00',
 'gameId': 2018021073,
  goalieFirstName': 'Braden',
 'goalieId': 8474651,
 'goalieLastName': 'Holtby',
 'homeScore': 5,
'homeTeamId': 5,
'homeTriCode': 'PIT',
'seasonId': 20182019,
 'skaterCareerGamesPlayed': 1063,
 'skaterFirstName': 'Evgeni',
 'skaterGamesPlayed': 848,
 'skaterId': 8471215,
'skaterLastName': 'Malkin',
 'skaterTeamId': 5,
'skaterTeamName': 'Pittsburgh Penguins',
 'typeOfPoint': 'A',
 'visitorScore': 3,
 'visitorTeamId': 15,
 'visitorTriCode': 'WSH'},
{'id': {'gameId': 2016020850, 'skaterId': 8471675},
 'activePlayer': 1,
'ageInDaysForYear': 193,
 'ageInYears': 29,
 'careerAssists': 952,
 'careerGoals': 550,
 'careerPoints': 1502,
 'gameDate': '2017-02-16T00:00:00',
 'gameId': 2016020850,
 'goalieFirstName': 'Connor',
 'goalieId': 8476945,
 'goalieLastName': 'Hellebuyck',
 'homeScore': 4,
 'homeTeamId': 5,
 'homeTriCode': 'PIT',
 'seasonId': 20162017,
 'skaterCareerGamesPlayed': 1190,
 'skaterFirstName': 'Sidney',
'skaterGamesPlayed': 757,
 'skaterId': 8471675,
'skaterLastName': 'Crosby',
'skaterTeamId': 5,
'skaterTeamName': 'Pittsburgh Penguins',
'typeOfPoint': 'A',
 'visitorScore': 3,
 'visitorTeamId': 52,
 'visitorTriCode': 'WPG'},
{'id': {'gameId': 2020020836, 'skaterId': 8471685},
 'activePlayer': 1,
 'ageInDaysForYear': 254,
 'ageInYears': 33,
 'careerAssists': 748,
 'careerGoals': 393,
 'careerPoints': 1141,
 'gameDate': '2021-05-05T00:00:00',
 'gameId': 2020020836,
  goalieFirstName': None,
 'goalieId': None,
 'goalieLastName': None,
 'homeScore': 2,
 'homeTeamId': 53,
 'homeTriCode': 'ARI',
 'seasonId': 20202021,
 'skaterCareerGamesPlayed': 1292,
 'skaterFirstName': 'Anze',
'skaterGamesPlayed': 1124,
 'skaterId': 8471685,
 'skaterLastName': 'Kopitar',
 'skaterTeamId': 26,
'skaterTeamName': 'Los Angeles Kings',
 'typeOfPoint': 'A',
 'visitorScore': 4,
 'visitorTeamId': 26,
 'visitorTriCode': 'LAK'},
{'id': {'gameId': 2022021276, 'skaterId': 8473512},
 'activePlayer': 1,
'ageInDaysForYear': 88,
 'ageInYears': 35,
 'careerAssists': 673,
 'careerGoals': 329,
 'careerPoints': 1002,
 'gameDate': '2023-04-10T00:00:00',
 'gameId': 2022021276,
 'goalieFirstName': 'Frederik',
 'goalieId': 8475883,
 'goalieLastName': 'Andersen',
```

```
'homeScore': 3,
 'homeTeamId': 9,
 'homeTriCode': 'OTT',
 'seasonId': 20222023,
 'skaterCareerGamesPlayed': 1100,
 'skaterFirstName': 'Claude',
 'skaterGamesPlayed': 1099,
 'skaterId': 8473512,
 'skaterLastName': 'Giroux',
'skaterTeamId': 9,
 'skaterTeamName': 'Ottawa Senators',
'typeOfPoint': 'A',
'visitorScore': 2,
 'visitorTeamId': 12,
 'visitorTriCode': 'CAR'},
{'id': {'gameId': 2021020913, 'skaterId': 8473563},
 'activePlayer': 1,
'ageInDaysForYear': 106,
 'ageInYears': 34,
 'careerAssists': 761,
 'careerGoals': 271,
 'careerPoints': 1032,
 'gameDate': '2022-03-09T00:00:00',
 'gameId': 2021020913,
 'goalieFirstName': 'Mikko',
 'goalieId': 8475156,
 'goalieLastName': 'Koskinen',
 'homeScore': 4,
'homeTeamId': 22,
 'homeTriCode': 'ÉDM',
 'seasonId': 20212022,
 'skaterCareerGamesPlayed': 1097,
 'skaterFirstName': 'Nicklas',
 'skaterGamesPlayed': 1037,
 'skaterId': 8473563,
 'skaterLastName': 'Backstrom',
 'skaterTeamId': 15,
'skaterTeamName': 'Washington Capitals',
'typeOfPoint': 'A',
'visitorScore': 3,
 'visitorTeamId': 15,
 'visitorTriCode': 'WSH'},
{'id': {'gameId': 2019020758, 'skaterId': 8474141},
 'activePlayer': 0,
 'ageInDaysForYear': 61,
 'ageInYears': 31,
 'careerAssists': 786,
 'careerGoals': 451,
 'careerPoints': 1237,
 'gameDate': '2020-01-19T00:00:00',
 'gameId': 2019020758,
 'goalieFirstName': 'Connor',
 'goalieId': 8476945,
 'goalieLastName': 'Hellebuyck',
 'homeScore': 5,
 'homeTeamId': 16,
 'homeTriCode': 'CHI',
 'seasonId': 20192020,
 'skaterCareerGamesPlayed': 1180,
'skaterFirstName': 'Patrick',
'skaterGamesPlayed': 953,
 'skaterId': 8474141,
 'skaterLastName': 'Kane',
'skaterTeamId': 16,
'skaterTeamName': 'Chicago Blackhawks',
 'typeOfPoint': 'A',
 'visitorScore': 2,
 'visitorTeamId': 52,
 'visitorTriCode': 'WPG'},
{'id': {'gameId': 2022020367, 'skaterId': 8474564},
 'activePlayer': 1,
 'ageInDaysForYear': 297,
 'ageInYears': 32,
'careerAssists': 541,
 'careerGoals': 515,
 'careerPoints': 1056,
 'gameDate': '2022-12-01T00:00:00',
 'gameId': 2022020367,
 'goalieFirstName': 'Carter',
 'goalieId': 8479394,
 'goalieLastName': 'Hart',
 'homeScore': 1,
 'homeTeamId': 4,
 'homeTriCode': 'PHI',
 'seasonId': 20222023,
 'skaterCareerGamesPlayed': 1003,
 'skaterFirstName': 'Steven',
```

```
'skaterGamesPlayed': 945,
                 'skaterId': 8474564,
                'skaterLastName': 'Stamkos',
                'skaterTeamId': 14,
'skaterTeamName': 'Tampa Bay Lightning',
                'typeOfPoint': 'A',
                 'visitorScore': 4,
                'visitorTeamId': 14
                 'visitorTriCode': 'TBL'}]
In [36]: player_df = pd.DataFrame.from_dict(player_dict['data'])
              player_df.head(3)
Out[36]:
                            id activePlayer ageInDaysForYear ageInYears careerAssists careerGoals careerPoints
                                                                                                                                                      gameld goalieFirstName ... skaterFirst
                                                                                                                                    gameDate
                    {'gameld':
                 1992020726,
                                                                                                                                      1993-02-
                                                                                                                                                                               Kirk ...
                                            0
                                                                143
                                                                               32
                                                                                              601
                                                                                                             498
                                                                                                                            1099
                                                                                                                                                 1992020726
                    'skaterId':
                                                                                                                                   22T00:00:00
                     8444945}
                    {'gameld':
                 1995021020,
                                                                                                                                      1996-04-
                                                                                                                                                  1995021020
                                            0
                                                                191
                                                                               32
                                                                                               698
                                                                                                             640
                                                                                                                            1338
                                                                                                                                                                              Mike
                     'skaterId':
                                                                                                                                    07T00:00:00
                     8445000}
                    {'gameld':
             1972020112,
                                                                                                                                   09T00:00:00 1972020112
                                            0
                                                                181
                                                                               37
                                                                                              813
                                                                                                             556
                                                                                                                            1369
                                                                                                                                                                             Denis ..
                     'skaterId':
                     8445240}
            3 rows × 27 columns
In [37]: player_df.columns
Out[37]: Index(['id', 'activePlayer', 'ageInDaysForYear', 'ageInYears', 'careerAssists', 'careerGoals', 'careerPoints', 'gameDate', 'gameId', 'goalieFirstName', 'goalieId', 'goalieLastName', 'homeScore', 'homeTeamId', 'homeTriCode', 'seasonId', 'skaterCareerGamesPlayed', 'skaterFirstName',
                       'skaterGamesPlayed', 'skaterId', 'skaterLastName', 'skaterTeamId', 'skaterTeamName', 'typeOfPoint', 'visitorScore', 'visitorTeamId',
                        'visitorTriCode'],
                      dtype='object')
              Data Cleaning: Step 1
```

Drop unnecessary columns.

```
In [38]: #drop columns that do not contain value for futuremerging
player_df = player_df.drop(columns=['id', 'ageInDaysForYear', 'gameDate', 'gameId',
                                           'typeOfPoint', 'visitorScore', 'visitorTeamId', 'visitorTriCode'])
In [39]: #confirm that the columns are gone
         player df.columns
        Out[39]:
              dtype='object')
```

## Data Cleaning: Step 2

All names should be converted into lowercase for easier merging of data.

```
In [40]: # Lowercase columns, and check first 3 rows to check that changes were applied
         player_df['goalieFirstName'] = player_df['goalieFirstName'].str.lower()
         player_df['goalieLastName'] = player_df['goalieLastName'].str.lower()
         player_df['skaterFirstName'] = player_df['skaterFirstName'].str.lower()
         player_df['skaterLastName'] = player_df['skaterLastName'].str.lower()
         player_df.head(3)
```

| Out | [40]: | activePlayer | ageInYears | careerAssists | careerGoals | careerPoints | goalieFirstName | goalield  | goalieLastName | homeScore | homeTeamId | homeTriCode | s  |
|-----|-------|--------------|------------|---------------|-------------|--------------|-----------------|-----------|----------------|-----------|------------|-------------|----|
|     | 0     | 0            | 32         | 601           | 498         | 1099         | kirk            | 8449474.0 | mclean         | 1         | 23         | VAN         | 1! |
|     | 1     | 0            | 32         | 698           | 640         | 1338         | mike            | 8450833.0 | richter        | 4         | 1          | NJD         | 19 |
|     | 2     | 0            | 37         | 813           | 556         | 1369         | denis           | 8449866.0 | dejordy        | 8         | 6          | BOS         | 1! |
| 4   |       |              |            |               |             |              |                 |           |                |           |            |             | •  |

## Data Cleaning: Step 3

Check data types and make conversions if it will help readability.

```
In [41]: #check data types
          player_df.dtypes
         activePlayer
Out[41]:
          ageInYears
                                        int64
          careerAssists
                                        int64
          careerGoals
                                        int64
          careerPoints
                                        int64
          goalieFirstName
                                       object
          goalieId
                                      float64
          goalieLastName
                                       object
          homeScore
                                        int64
          homeTeamId
                                        int64
          homeTriCode
                                       object
          seasonId
                                        int64
          skaterCareerGamesPlayed
                                        int64
          skaterFirstName
                                       object
          skaterGamesPlayed
                                        int64
          skaterId
                                        int64
          skaterLastName
                                       object
          skaterTeamId
                                        int64
          skaterTeamName
                                       object
          dtype: object
In [42]: # Understand missing values
          player_df['goalieId'].isnull().value_counts()
         False
Out[42]:
         True
          Name: goalieId, dtype: int64
In [43]: # change goalieId from a float to an integer
          # Note: .astype(int) cannot handle missing values while .astype('Int64') can
         player_df['goalieId'] = player_df['goalieId'].astype('Int64')
player_df['goalieId'].head(3)
               8449474
Out[43]:
               8450833
              8449866
          Name: goalieId, dtype: Int64
```

## Data Cleaning: Step 4

Rename a column for clarity

## Data Cleaning: Step 5

```
In [45]: player_df = player_df.assign(averagePPG = player_df.careerPoints / player_df.skaterCareerGamesPlayed)
player_df.head(3)
```

| Out[45]: |   | activePlayer | skaterAge | careerAssists | careerGoals | careerPoints | goalieFirstName | goalield | goalie Last Name | homeScore | homeTeamId | homeTriCode | sea  |
|----------|---|--------------|-----------|---------------|-------------|--------------|-----------------|----------|------------------|-----------|------------|-------------|------|
|          | 0 | 0            | 32        | 601           | 498         | 1099         | kirk            | 8449474  | mclean           | 1         | 23         | VAN         | 1997 |
|          | 1 | 0            | 32        | 698           | 640         | 1338         | mike            | 8450833  | richter          | 4         | 1          | NJD         | 199  |
|          | 2 | 0            | 37        | 813           | 556         | 1369         | denis           | 8449866  | dejordy          | 8         | 6          | BOS         | 197  |
| 4        |   |              |           |               |             |              |                 |          |                  |           |            |             | •    |

## **Ethical Implications**

On this data set, there was a lot of information that was deleted. Sometimes looking at data with less context can lead to interpretation errors. Since we are again dealing with real people, we need to make sure to keep the data honest and accurate. All names were lowercased, which should have no eithical impacts. There was a column added that human error could impact if not calculated correctly. This would result in producing false data.

# Milestone 5: Merging the Data and Storing in a Database/Visualizing Data

#### **Create Database and Merge Dataframes**

```
In [46]: # note the sizes of the original dataframes
          print('rows, columns')
         print('-'*15)
         print('flat file:', master_df.shape)
print('HTML data:', html_df.shape)
         print('API data:', player_df.shape)
         rows, columns
         flat file: (7761, 26)
         HTML data: (50, 7)
         API data: (97, 20)
In [47]: # import database library
          import salite3
         from sqlalchemy import create_engine
          #create a connection
         conn = sqlite3.connect('hockey.db')
In [48]: # Write records stored in a DataFrame to a SQL database (flat file)
         master_df.to_sql('flatfile', con=conn, if_exists='append')
Out[48]:
In [49]: # Write records stored in a DataFrame to a SQL database (html data)
         html_df.to_sql('websitedata', con=conn, if_exists='append')
Out[49]: 50
In [50]: # Write records stored in a DataFrame to a SQL database (api data)
          player_df.to_sql('apidata', con=conn, if_exists='append')
Out[50]: 97
In [51]: # close the connection
          conn.close()
In [52]: # merge the flat file and HTML data based on last name
          merged_dfs = pd.merge(master_df, html_df, on=['lastName', 'lastName'])
In [53]: # merge the merged dataframe and the api data frame based on last name
          merged_dfs = pd.merge(merged_dfs, player_df, on=['lastName', 'lastName'])
In [54]: # Write records stored in a DataFrame to a SQL database (merged data)
          conn = sqlite3.connect('hockey.db')
          merged_dfs.to_sql('mergedfile', con=conn, if_exists='append')
In [55]: # preview the new dataframe
         merged_dfs.head()
```

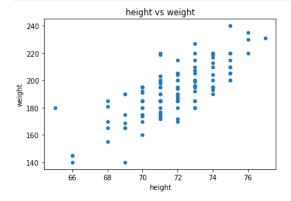
```
Out[55]:
              playerID coachID
                                  hofID firstName_x
                                                     lastName nameNote nameGiven
                                                                                         nameNick height weight ... homeTeamId homeTriCode seasonl
          0 andreda01
                                   NaN
                                               dave
                                                     andreychuk
                                                                    NaN
                                                                          David John Chukie/Octopus
                                                                                                       76
                                                                                                             220
                                                                                                                                         NJD 1995199
              belivje01
                          NaN belivje01h
                                               jean
                                                       beliveau
                                                                     NaN
                                                                         Jean Arthur
                                                                                         Le Gros Bill
                                                                                                       75
                                                                                                             205
                                                                                                                              17
                                                                                                                                          DET 1967196
          2 belivma01
                          NaN
                                    NaN
                                                       beliveau
                                                                    NaN
                                                                              Marcel
                                                                                              NaN
                                                                                                    <NA>
                                                                                                           <NA>
                                                                                                                              17
                                                                                                                                          DET 1967196
                                              marcel
          3 bourqch01
                                                                                                                                         BOS 1991199
                                    NaN
                                               chris
                                                       bourque
                                                                     NaN
                                                                               NaN
                                                                                              NaN
                                                                                                       68
                                                                                                             181
                                                                              Claude
          4 bourqcl01
                          NaN
                                   NaN
                                              claude
                                                       bourque
                                                                    NaN
                                                                                              NaN
                                                                                                       66
                                                                                                             140 ...
                                                                                                                                         BOS 1991199
                                                                           Hennessey
         5 rows × 51 columns
In [56]: # get more information on merged dataframe before creating visualizations
          merged_dfs.info()
          <class 'pandas.core.frame.DataFrame'>
          Int64Index: 134 entries, 0 to 133
          Data columns (total 51 columns):
              Column
                                         Non-Null Count Dtype
          0
               playerID
                                         133 non-null
                                                          object
               coachID
                                         12 non-null
                                                          object
               hofTD
                                         40 non-null
                                                          object
          3
               firstName_x
                                         134 non-null
                                                          object
           4
                                         134 non-null
                                                          object
               nameNote
                                         1 non-null
                                                          object
           6
               nameGiven
                                         120 non-null
                                                          obiect
               nameNick
                                         41 non-null
                                                          object
           8
               height
                                         128 non-null
                                                          Int64
           9
                                         128 non-null
           10
              shootCatch
                                         125 non-null
                                                          object
           11
               legendsID
                                         119 non-null
                                                          object
              {\tt internetHockeyID}
                                         123 non-null
                                                          Int64
           12
           13
               hrefID
                                         127 non-null
                                                          object
           14
               firstNHL
                                         122 non-null
                                                          Int64
           15
              lastNHL
                                         122 non-null
                                                          Int64
               firstWHA
           16
                                         18 non-null
                                                          Int64
           17
              lastWHA
                                         18 non-null
                                                          Int64
           18
               pos
                                         130 non-null
                                                          object
           19
               birthYear
                                         129 non-null
                                                          Int64
                                         127 non-null
           20
              birthMon
                                                          Int64
           21
               birthDay
                                         127 non-null
                                                          Int64
           22
               birthCountry
                                         126 non-null
                                                          object
           23
               birthState
                                         115 non-null
                                                          object
           24
              birthCity
                                         126 non-null
                                                          object
           25
               deathYear
                                         6 non-null
                                                          Int64
           26
                                         134 non-null
           27
               Teams
                                         134 non-null
                                                          object
               gamesPlayed
                                         134 non-null
           28
                                                          int64
           29
               Pts
                                         134 non-null
                                                          int64
           30
               ptsperGame
                                         134 non-null
                                                          float64
           31
               firstName_y
                                         134 non-null
                                                          object
           32
              activePlayer
                                         134 non-null
                                                          int64
                                         134 non-null
                                                          int64
           33
               skaterAge
           34
               careerAssists
                                         134 non-null
                                                          int64
           35
               careerGoals
                                         134 non-null
                                                          int64
           36
               careerPoints
                                         134 non-null
                                                          int64
                                         124 non-null
           37
               goalieFirstName
                                                          object
           38
                                         124 non-null
               goalieId
                                                          Int64
               goalieLastName
           39
                                         124 non-null
                                                          object
           40
               homeScore
                                         134 non-null
                                                          int64
           41
               homeTeamId
                                         134 non-null
                                                          int64
           42
               homeTriCode
                                         134 non-null
                                                          object
           43
               seasonId
                                         134 non-null
                                                          int64
               skaterCareerGamesPlayed 134 non-null
                                                          int64
           44
           45
               skaterFirstName
                                         134 non-null
                                                          object
           46
               skaterGamesPlayed
                                         134 non-null
                                                          int64
           47
               skaterId
                                         134 non-null
                                                          int64
           48
               skaterTeamId
                                         134 non-null
                                                          int64
           49
              skaterTeamName
                                         134 non-null
                                                          object
              averagePPG
                                         134 non-null
                                                          float64
          dtypes: Int64(12), float64(2), int64(15), object(22)
```

#### Visualizations

memory usage: 56.0+ KB

1. Scatterplot comparing heights and weights

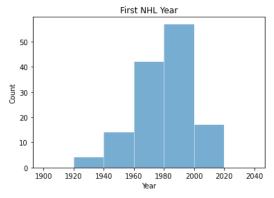
```
In [57]: # Compare height against weight in a scatterplot
    merged_dfs.plot.scatter('height', 'weight', title= "height vs weight")
    plt.show()
```



#### 2. Histogram describing players' first NHL year

```
In [58]: # Fill null values in first NHL year with the average year
merged_dfs['firstNHL'].fillna(int(merged_dfs['firstNHL'].mean()), inplace=True)

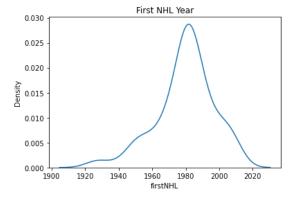
In [59]: # Create a histogram with set bin widths adding x labels, y labels, and a title
    plt.hist(merged_dfs['firstNHL'], bins=[1900, 1920, 1940, 1960, 1980, 2000, 2020, 2040], label='First NHL Year', alpha=.6)
    plt.xlabel('Year')
    plt.ylabel('Count')
    plt.title('First NHL Year')
    plt.grid(color='white', lw = 0.5, axis='x')
    plt.show()
```



## 3. Denistiy Plot describing the probability of a player starting in the NHL during different years (based on the players in our merged records dataframe)

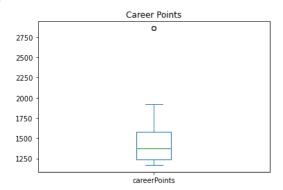
```
In [60]: # Load seaborn library for visualizations
import seaborn as sns

In [61]: # Create a density plot that shows the probability of a player starting the NHL during different years
sns.kdeplot(merged_dfs['firstNHL'])
plt.title('First NHL Year')
plt.show()
```



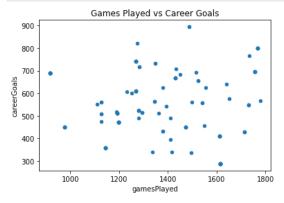
#### 4. Boxplot of Career Points

```
In [62]: # also check visually that the outliers no longer exist
    merged_dfs['careerPoints'].plot(kind='box')
    plt.title('Career Points')
```



#### 5. Scatterplot comparing games played and career goals

```
In [63]: # Compare height against weight in a scatterplot
merged_dfs.plot.scatter('gamesPlayed', 'careerGoals', title= "Games Played vs Career Goals")
plt.show()
```



#### Summary

For this project I was able to handle data from different sources including flat files, HTML, and APIs that housed data describing NHL players and records. I found it challenging to find data that was large enough to be able to merge at the end. For example, my original flat file began with 7,761 rows. When merging was complete, the final dataframe decreased to a total of 134 rows.

I was introduced to many new tasks through this project that I found extremely helpful in the successive DSC 550 course. Some of the key skills include:

- Opening and transforming data into a pandas data frame
- Detecting and replacing outliers
- · Renaming columns
- Removing unnecessary data
- Reformatting data types
- Basic visualization techniques
- Introduction to SQL

This was also the first time that we were introduced to extracting data from HTML sources. I will need to continue to practice with HTML and API sources. However, I have grown tremendously in my ability to work with flat files and pandas dataframes.

As an emerging data scientist, I will need to continue to be careful with the results of my work. Cleansing data can introduce additional human errors into a project. This project was based on real athletes' statistics along with other personal information. It is immensely important that I am cautious when manipulating data so that facts and figures are not skewed. Visualizations should represent the data in a manner that will not get misinterpreted by my viewers/clients. Also, I should have spent more time at the beginning ensuring that my data was being pulled from legitimate sources. I believe that the data frame and results produced at the end of this project represent honest and accurate information.