1 Capstone Project

1.1 Notebook 1: Data Collection

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Project Overview

The COVID-19 pandemic has severely affected the travel industry. International travel has been impacted, and in turn travel companies and travel websites have lost much of their engagement.

However, with the development of new vaccines for the virus, there is hope on the horizon for international travel and a time where life is somewhat back to normal. In order to increase engagement in the travel industry and increase excitement about travel opportunities, the Destination Dictionary was born!

The Destination Dictionary is a data product that allows future travelers to get a prediction for their perfect destination with the input of just a few words. Trained on over 28,000 unique text data points, the Destination Dictionary is able to predict a destination from 12 different popular cities with 81% accuracy based on text input of activities you want to do while on vacation.

2.0.1 Methodology & Data Used

This project utilized data from 12 top cities from TripAdvisor's list of Traveler's Choice destinations for Popular World Destinations 2020, which can be found via this link

(https://www.tripadvisor.com/TravelersChoice-Destinations). The dataset was compiled by scraping the titles from Tripadvisor 'attractions' for each of the 12 cities. The final dataset included over 28,000 unique text values.

```
In [1]:

1 # Import Statements
2
3 import requests
4 from bs4 import BeautifulSoup
5
6 import pandas as pd
executed in 662ms, finished 08:09:07 2021-01-26
```

2.0.2 Grab the attraction titles for one city

```
In [3]:
          1
            # Use url for London from TripAdvisor
          2 html london = requests.get('https://www.tripadvisor.com/Attraction Prod
            soup = BeautifulSoup(html london.content, 'html.parser')
In [4]:
            # Print the html code nicely
          1
            soup.prettify
Out[4]: <bound method Tag.prettify of <!DOCTYPE html>
        <html lang="en" xmlns:fb="http://www.facebook.com/2008/fbml">
        <head>
        <meta content="text/html; charset=utf-8" http-equiv="content-type"/>
        <link data-rup="long lived global legacy" href="https://static.tacdn.com/</pre>
        css2/build/concat/long lived global legacy-v24030609022a.css" rel="styles
        heet" type="text/css"/>
        <link href="https://static.tacdn.com/favicon.ico?v2" id="favicon" rel="ic</pre>
        on" type="image/x-icon"/>
        <link as="font" crossorigin="" href="https://static.tacdn.com/css2/webfon</pre>
        ts/TripAdvisor/TripAdvisor Regular.woff2?v004.021" rel="preload" type="fo
        nt/woff2"/>
        <link crossorigin="" href="https://static.tacdn.com/css2/webfonts/TripSan</pre>
        s/TripSans.css?v1.002" rel="stylesheet"/>
        <link color="#000000" href="https://static.tacdn.com/img2/brand refresh/a</pre>
        pplication_icons/mask-icon.svg" rel="mask-icon" sizes="any">
        <script data-rup="global error" type="text/javascript">!function() {functi
        on e(e) {return"object"==typeof e&&"WARN"===e.level?"WARN":"ERROR"} functio
```

Out[62]: [<h2>Jack the Ripper Tour with 'Ripper-Vision' in London</h2>, <h2>SEA LIFE London

Out[66]: <a href="/AttractionProductReview-g186338-d11468721-Jack_the_Ripper_Tour_
 with_Ripper_Vision_in_London-London_England.html" onclick="(ta.prwidgets.
 getjs(this,'handlers')).trackCancelLabel('23256P1','','true');(ta.prwidget
 s.getjs(this,'handlers')).trackKidPricing('23256P1','','true');(ta.prwidget
 s.getjs(this,'handlers')).trackLangSupport('23256P1','','true');(ta.prwid
 gets.getjs(this,'handlers')).trackAndOpenUrl(event, 'attraction_product_c
 ard_click', '/AttractionProductReview-g186338-d11468721-Jack_the_Ripper_T
 our_with_Ripper_Vision_in_London-London_England.html', 'title', 'card_0',
 '37352');" title="Jack the Ripper Tour with 'Ripper-Vision' in London">Ja
 ck the Ripper Tour with 'Ripper-Vision' in London

Out[70]: "Jack the Ripper Tour with 'Ripper-Vision' in London"

```
In [82]:
          1
             # Grab all titles with a for loop and store in a list
           3
             final attractions = []
             for attraction in attractions:
                 att = attraction.find('a')
                 if hasattr(att, 'title'):
           7
                      final attractions.append(att.attrs['title'])
           8
             final attractions
Out[82]: ["Jack the Ripper Tour with 'Ripper-Vision' in London",
          'SEA LIFE London Aquarium Admission Ticket',
          'Big Bus London Hop-On Hop-Off Tour and River Cruise with Optional Londo
          'Alcotraz: Prison Cocktail Experience (Shoreditch)',
          'Oxford Sightseeing River Cruise Along The University Regatta Course',
          'Phantom of the Opera',
          'Warner Bros. Studio: The Making of Harry Potter with Luxury Round-Trip
         Transport from London',
          'Private DJ Class in London',
          'The Blood and Tears Walk: Serial Killers and London Horror',
          'Ghost Bus Tour of London',
          '2-Hour Cycle Tour of Oxford',
          'Emirates Airline Cable Car and One Way Uber Boat by Thames Clippers jou
         rney',
          'Rock Cab Tours Presents: The Music Legends Tour of London',
          'Royal High Tea At Kensington Palace',
          'High-Speed Thames River RIB Cruise in London',
          'Charming London Private Tour: Little Venice Canals & Gardens Exploratio
```

2.0.3 Make a function to grab attraction titles for any city

```
In [86]:
              def get attractions(html path):
           1
                  11 11 11
           2
           3
                  input html path from TripAdvisor as a string
           4
                  returns list of attraction names from that page
           5
                  ** ** **
           6
                  html = requests.get(html path)
           7
                  soup = BeautifulSoup(html.content, 'html.parser')
           8
                  container = soup.find('div', id="ATTRACTION PRODUCTS LIST")
           9
                  attractions = container.findAll('h2')
                  final attractions = []
          10
          11
                  for attraction in attractions:
                      att = attraction.find('a')
          12
                      if hasattr(att, 'title'):
          13
          14
                           final attractions.append(att.attrs['title'])
          15
                  return final attractions
```

```
In [88]:
          1
             london attractions = get attractions('https://www.tripadvisor.com/Attra
           3
            london attractions
Out[88]: ['SEA LIFE London Aquarium Admission Ticket',
          'Big Bus London Hop-On Hop-Off Tour and River Cruise with Optional Londo
          'Alcotraz: Prison Cocktail Experience (Shoreditch)',
          'Oxford Sightseeing River Cruise Along The University Regatta Course',
          'Phantom of the Opera',
          'Warner Bros. Studio: The Making of Harry Potter with Luxury Round-Trip
         Transport from London',
          'Private DJ Class in London',
          'The Blood and Tears Walk: Serial Killers and London Horror',
          'Ghost Bus Tour of London',
          '2-Hour Cycle Tour of Oxford',
          'Emirates Airline Cable Car and One Way Uber Boat by Thames Clippers jou
         rney',
          'Rock Cab Tours Presents: The Music Legends Tour of London',
          'Royal High Tea At Kensington Palace',
          'High-Speed Thames River RIB Cruise in London',
          'Charming London Private Tour: Little Venice Canals & Gardens Exploratio
         n Game',
```

2.0.4 Get all attractions from all 94 pages

```
In [111]:
               # Create list of all htmls for London
            1
            2
               london htmls = ['http://tripadvisor.com/Attraction Products-g186338-a s
            3
            4
               for i in range (2, 95):
            5
                   base = 'http://tripadvisor.com/Attraction Products-g186338-a sort.'
            6
                   page = '-oa' + str(30*i - 30)
            7
                   end = '-London England.html#ATTRACTION LIST'
            8
                   html = base + page + end
            9
                   london htmls.append(str(html))
           10
           11
              print(london htmls)
```

['http://tripadvisor.com/Attraction Products-g186338-a sort.-London Engla nd.html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction Products-g18 6338-a sort.-oa30-London England.html#ATTRACTION LIST', 'http://tripadvis or.com/Attraction Products-g186338-a sort.-oa60-London England.html#ATTRA CTION LIST', 'http://tripadvisor.com/Attraction Products-g186338-a sort.oa90-London_England.html#ATTRACTION_LIST', 'http://tripadvisor.com/Attrac tion Products-g186338-a sort.-oa120-London England.html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction Products-g186338-a sort.-oa150-London England.html#ATTRACTION_LIST', 'http://tripadvisor.com/Attraction_Product s-g186338-a sort.-oa180-London England.html#ATTRACTION LIST', 'http://tri padvisor.com/Attraction_Products-g186338-a_sort.-oa210-London_England.htm l#ATTRACTION_LIST', 'http://tripadvisor.com/Attraction_Products-g186338-a sort.-oa240-London England.html#ATTRACTION LIST', 'http://tripadvisor.co m/Attraction Products-g186338-a sort.-oa270-London England.html#ATTRACTIO N LIST', 'http://tripadvisor.com/Attraction Products-g186338-a sort.-oa30 0-London England.html#ATTRACTION LIST', 'http://tripadvisor.com/Attractio n Products-g186338-a sort.-oa330-London England.html#ATTRACTION LIST', 'h ttp://tripadvisor.com/Attraction Products-g186338-a sort.-oa360-London En gland.html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction Productsg186338-a sort.-oa390-London England.html#ATTRACTION LIST', 'http://tripa dvisor.com/Attraction Products-g186338-a sort.-oa420-London England.html# ATTRACTION LIST', 'http://tripadvisor.com/Attraction Products-g186338-a s ort.-oa450-London England.html#ATTRACTION LIST', 'http://tripadvisor.com/ Attraction Products-g186338-a sort.-oa480-London England.html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction Products-g186338-a sort.-oa510-London England.html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction Products-g186338-a sort.-oa540-London England.html#ATTRACTION LIST', 'htt p://tripadvisor.com/Attraction_Products-g186338-a_sort.-oa570-London_Engl and.html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction Products-q1 86338-a sort.-oa600-London England.html#ATTRACTION LIST', 'http://tripadv isor.com/Attraction Products-g186338-a sort.-oa630-London England.html#AT TRACTION LIST', 'http://tripadvisor.com/Attraction Products-g186338-a sor t.-oa660-London_England.html#ATTRACTION_LIST', 'http://tripadvisor.com/At traction Products-g186338-a sort.-oa690-London England.html#ATTRACTION LI ST', 'http://tripadvisor.com/Attraction Products-g186338-a sort.-oa720-Lo ndon England.html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction Pr oducts-g186338-a sort.-oa750-London England.html#ATTRACTION LIST', 'htt p://tripadvisor.com/Attraction Products-g186338-a sort.-oa780-London Engl and.html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction Products-g1 86338-a sort.-oa810-London England.html#ATTRACTION LIST', 'http://tripadv isor.com/Attraction Products-g186338-a sort.-oa840-London England.html#AT TRACTION LIST', 'http://tripadvisor.com/Attraction Products-g186338-a sor t.-oa870-London_England.html#ATTRACTION_LIST', 'http://tripadvisor.com/At traction Products-g186338-a sort.-oa900-London England.html#ATTRACTION LI ST', 'http://tripadvisor.com/Attraction Products-g186338-a sort.-oa930-Lo

ndon England.html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction Pr oducts-g186338-a sort.-oa960-London England.html#ATTRACTION LIST', 'htt p://tripadvisor.com/Attraction Products-g186338-a sort.-oa990-London Engl and.html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction Products-g1 86338-a sort.-oa1020-London England.html#ATTRACTION LIST', 'http://tripad visor.com/Attraction_Products-g186338-a_sort.-oa1050-London_England.html# ATTRACTION LIST', 'http://tripadvisor.com/Attraction Products-g186338-a s ort.-oa1080-London_England.html#ATTRACTION_LIST', 'http://tripadvisor.co m/Attraction_Products-g186338-a_sort.-oa1110-London_England.html#ATTRACTI ON LIST', 'http://tripadvisor.com/Attraction Products-q186338-a sort.-oal 140-London England.html#ATTRACTION LIST', 'http://tripadvisor.com/Attract ion Products-g186338-a sort.-oa1170-London England.html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction Products-g186338-a sort.-oa1200-London England.html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction Produc ts-g186338-a sort.-oa1230-London England.html#ATTRACTION LIST', 'http://t ripadvisor.com/Attraction Products-g186338-a sort.-oa1260-London England. html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction Products-g18633 8-a sort.-oa1290-London England.html#ATTRACTION LIST', 'http://tripadviso r.com/Attraction Products-g186338-a sort.-oa1320-London England.html#ATTR ACTION LIST', 'http://tripadvisor.com/Attraction Products-g186338-a sort. -oa1350-London England.html#ATTRACTION LIST', 'http://tripadvisor.com/Att raction Products-g186338-a sort.-oa1380-London England.html#ATTRACTION LI ST', 'http://tripadvisor.com/Attraction Products-g186338-a sort.-oa1410-L ondon England.html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction P roducts-g186338-a_sort.-oa1440-London_England.html#ATTRACTION_LIST', 'htt p://tripadvisor.com/Attraction Products-g186338-a sort.-oa1470-London Eng land.html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction Products-g 186338-a sort.-oa1500-London England.html#ATTRACTION LIST', 'http://tripa dvisor.com/Attraction Products-g186338-a sort.-oa1530-London England.html #ATTRACTION LIST', 'http://tripadvisor.com/Attraction Products-g186338-a sort.-oa1560-London_England.html#ATTRACTION_LIST', 'http://tripadvisor.co m/Attraction Products-g186338-a sort.-oa1590-London England.html#ATTRACTI ON LIST', 'http://tripadvisor.com/Attraction Products-g186338-a sort.-oal 620-London England.html#ATTRACTION LIST', 'http://tripadvisor.com/Attract ion Products-g186338-a sort.-oa1650-London England.html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction Products-g186338-a sort.-oa1680-London England.html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction Produc ts-g186338-a sort.-oa1710-London England.html#ATTRACTION LIST', 'http://t ripadvisor.com/Attraction Products-g186338-a sort.-oa1740-London England. html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction Products-g18633 8-a_sort.-oa1770-London_England.html#ATTRACTION_LIST', 'http://tripadviso r.com/Attraction Products-g186338-a sort.-oa1800-London England.html#ATTR ACTION_LIST', 'http://tripadvisor.com/Attraction_Products-g186338-a_sort. -oa1830-London England.html#ATTRACTION LIST', 'http://tripadvisor.com/Att raction Products-g186338-a sort.-oa1860-London England.html#ATTRACTION LI ST', 'http://tripadvisor.com/Attraction Products-g186338-a sort.-oa1890-L ondon_England.html#ATTRACTION_LIST', 'http://tripadvisor.com/Attraction_P roducts-g186338-a sort.-oa1920-London England.html#ATTRACTION LIST', 'htt p://tripadvisor.com/Attraction Products-g186338-a sort.-oa1950-London Eng land.html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction Products-g 186338-a sort.-oa1980-London England.html#ATTRACTION LIST', 'http://tripa dvisor.com/Attraction Products-g186338-a sort.-oa2010-London England.html #ATTRACTION_LIST', 'http://tripadvisor.com/Attraction_Products-g186338-a_ sort.-oa2040-London England.html#ATTRACTION LIST', 'http://tripadvisor.co m/Attraction Products-g186338-a sort.-oa2070-London England.html#ATTRACTI ON LIST', 'http://tripadvisor.com/Attraction Products-g186338-a sort.-oa2 100-London_England.html#ATTRACTION_LIST', 'http://tripadvisor.com/Attract

ion Products-g186338-a sort.-oa2130-London England.html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction Products-g186338-a sort.-oa2160-London England.html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction Produc ts-q186338-a sort.-oa2190-London England.html#ATTRACTION LIST', 'http://t ripadvisor.com/Attraction Products-g186338-a sort.-oa2220-London England. html#ATTRACTION_LIST', 'http://tripadvisor.com/Attraction_Products-g18633 8-a sort.-oa2250-London England.html#ATTRACTION LIST', 'http://tripadviso r.com/Attraction Products-g186338-a sort.-oa2280-London England.html#ATTR ACTION LIST', 'http://tripadvisor.com/Attraction Products-g186338-a sort. -oa2310-London England.html#ATTRACTION LIST', 'http://tripadvisor.com/Att raction Products-g186338-a sort.-oa2340-London England.html#ATTRACTION LI ST', 'http://tripadvisor.com/Attraction Products-g186338-a sort.-oa2370-L ondon England.html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction P roducts-g186338-a sort.-oa2400-London England.html#ATTRACTION LIST', 'htt p://tripadvisor.com/Attraction Products-g186338-a sort.-oa2430-London Eng land.html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction Products-g 186338-a sort.-oa2460-London England.html#ATTRACTION LIST', 'http://tripa dvisor.com/Attraction Products-g186338-a sort.-oa2490-London England.html #ATTRACTION LIST', 'http://tripadvisor.com/Attraction Products-g186338-a sort.-oa2520-London England.html#ATTRACTION LIST', 'http://tripadvisor.co m/Attraction Products-g186338-a sort.-oa2550-London England.html#ATTRACTI ON LIST', 'http://tripadvisor.com/Attraction Products-g186338-a sort.-oa2 580-London England.html#ATTRACTION LIST', 'http://tripadvisor.com/Attract ion Products-g186338-a sort.-oa2610-London England.html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction Products-g186338-a sort.-oa2640-London England.html#ATTRACTION_LIST', 'http://tripadvisor.com/Attraction_Produc ts-g186338-a sort.-oa2670-London England.html#ATTRACTION LIST', 'http://t ripadvisor.com/Attraction Products-g186338-a sort.-oa2700-London England. html#ATTRACTION LIST', 'http://tripadvisor.com/Attraction Products-g18633 8-a sort.-oa2730-London England.html#ATTRACTION LIST', 'http://tripadviso r.com/Attraction Products-g186338-a sort.-oa2760-London England.html#ATTR ACTION LIST', 'http://tripadvisor.com/Attraction Products-g186338-a sort. -oa2790-London England.html#ATTRACTION LIST']

```
In [112]:
            1
               # Build another function that loops through the list of urls and grabs
            2
               def get all attractions(html list):
            3
            4
                   input list of strings of html paths from TripAdvisor
            5
                   returns list of attraction names from all pages
                   11 11 11
            6
            7
                   final attractions = []
            8
                   for html in html list:
            9
                       html = requests.get(html)
           10
                       soup = BeautifulSoup(html_.content, 'html.parser')
           11
                       container = soup.find('div', id="ATTRACTION PRODUCTS LIST")
                       attractions = container.findAll('h2')
           12
                       new attractions = []
           13
                       for attraction in attractions:
           14
           15
                           att = attraction.find('a')
                           if hasattr(att, 'title'):
           16
           17
                               new attractions.append(att.attrs['title'])
                       final attractions.extend(new attractions)
           18
           19
                   return final attractions
```

```
In [105]:
              1
                 # Warning! Takes a few mins to run
                 all london attractions = get all attractions(london htmls)
In [106]:
                 len(all_london_attractions)
Out[106]: 2803
In [107]:
              1
                 all london attractions[:5]
Out[107]: ['SEA LIFE London Aquarium Admission Ticket',
              'The Jack The Ripper Walking Tour in London ',
              'Ghost Bus Tour of London',
              'Big Bus London Hop-On Hop-Off Tour and River Cruise with Optional Londo
            n Eye',
              'The Blood and Tears Walk: Serial Killers and London Horror']
In [114]:
                 # Make into a DataFrame
                 london df = pd.DataFrame(all london attractions, columns=['Attraction']
                 london df['City'] = 'London, United Kingdom'
In [118]:
In [119]:
                 london_df
Out[119]:
                                                  Attraction
                                                                             City
                        SEA LIFE London Aquarium Admission Ticket London, United Kingdom
                0
                         The Jack The Ripper Walking Tour in London London, United Kingdom
                1
                2
                                       Ghost Bus Tour of London
                                                             London, United Kingdom
                   Big Bus London Hop-On Hop-Off Tour and River C...
                                                             London, United Kingdom
                      The Blood and Tears Walk: Serial Killers and L...
                                                             London, United Kingdom
                                       Stonehenge & Winchester London, United Kingdom
             2798
                     Private Transfer: Heathrow to Southampton Crui...
             2799
                                                             London, United Kingdom
             2800
                     2 Day Stay Package Tour in London with English...
                                                             London, United Kingdom
                       Bicester Village Shopping Outlet Private Tour ... London, United Kingdom
             2801
             2802
                    Big Bus London Christmas Light Open-Top Night ... London, United Kingdom
            2803 rows × 2 columns
In [123]:
              1
                 # Save DF to repo
                 london df.to csv('/Users/tiaplagata/Documents/Flatiron/capstone-project
```

2.1 Repeat for all top 12 cities

▼ 2.1.1 Paris

In [187]: 1 paris_html = 'https://www.tripadvisor.com/Attraction_Products-g187147-P

```
In [188]:
               # Create list of all htmls for Paris
            1
            2
               paris htmls = [paris html]
            3
               for i in range (2, 91):
            4
                   base = 'https://www.tripadvisor.com/Attraction Products-g187147-a s
            5
                   page = '-oa' + str(30*i - 30)
            6
                   end = '-Paris Ile de France.html#ATTRACTION LIST'
            7
                   html = base + page + end
            8
                   paris htmls.append(str(html))
            9
           10
              print(paris htmls)
```

['https://www.tripadvisor.com/Attraction Products-g187147-Paris Ile de Fr ance.html', 'https://www.tripadvisor.com/Attraction Products-g187147-a so rt.-oa30-Paris Ile de France.html#ATTRACTION LIST', 'https://www.tripadvi sor.com/Attraction Products-g187147-a sort.-oa60-Paris Ile de France.html #ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g1871 47-a_sort.-oa90-Paris_Ile_de_France.html#ATTRACTION_LIST', 'https://www.t ripadvisor.com/Attraction_Products-g187147-a_sort.-oa120-Paris_Ile_de_Fra nce.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Produc ts-g187147-a sort.-oa150-Paris Ile de France.html#ATTRACTION LIST', 'http s://www.tripadvisor.com/Attraction Products-g187147-a sort.-oa180-Paris I le de France.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attracti on Products-g187147-a sort.-oa210-Paris Ile de France.html#ATTRACTION LIS T', 'https://www.tripadvisor.com/Attraction Products-g187147-a sort.-oa24 O-Paris_Ile_de_France.html#ATTRACTION_LIST', 'https://www.tripadvisor.co m/Attraction Products-g187147-a sort.-oa270-Paris Ile de France.html#ATTR ACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187147-a sort.-oa300-Paris Ile de France.html#ATTRACTION LIST', 'https://www.tripa dvisor.com/Attraction Products-g187147-a sort.-oa330-Paris Ile de France. html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Products-g 187147-a sort.-oa360-Paris_Ile_de_France.html#ATTRACTION_LIST', 'https:// www.tripadvisor.com/Attraction Products-g187147-a sort.-oa390-Paris Ile d e_France.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_P roducts-g187147-a_sort.-oa420-Paris_Ile_de_France.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction Products-g187147-a sort.-oa450-Pa ris Ile de France.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Att raction_Products-g187147-a_sort.-oa480-Paris_Ile_de_France.html#ATTRACTIO N LIST', 'https://www.tripadvisor.com/Attraction Products-g187147-a sort. -oa510-Paris Ile de France.html#ATTRACTION LIST', 'https://www.tripadviso r.com/Attraction Products-g187147-a sort.-oa540-Paris Ile de France.html# ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g18714 7-a_sort.-oa570-Paris_Ile_de_France.html#ATTRACTION LIST', 'https://www.t ripadvisor.com/Attraction Products-g187147-a sort.-oa600-Paris Ile de Fra nce.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Produc ts-g187147-a_sort.-oa630-Paris_Ile_de_France.html#ATTRACTION_LIST', 'http s://www.tripadvisor.com/Attraction_Products-g187147-a_sort.-oa660-Paris_I le de France.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attracti on Products-g187147-a sort.-oa690-Paris Ile de France.html#ATTRACTION LIS T', 'https://www.tripadvisor.com/Attraction_Products-g187147-a_sort.-oa72 O-Paris Ile de France.html#ATTRACTION LIST', 'https://www.tripadvisor.co m/Attraction Products-g187147-a sort.-oa750-Paris Ile de France.html#ATTR ACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187147-a sort.-oa780-Paris Ile de France.html#ATTRACTION LIST', 'https://www.tripa dvisor.com/Attraction Products-g187147-a sort.-oa810-Paris Ile de France. html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g 187147-a sort.-oa840-Paris Ile de France.html#ATTRACTION LIST', 'https:// www.tripadvisor.com/Attraction Products-g187147-a sort.-oa870-Paris Ile d

e France.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction P roducts-g187147-a sort.-oa900-Paris Ile de France.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187147-a sort.-oa930-Pa ris_Ile_de_France.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Att raction Products-g187147-a sort.-oa960-Paris Ile de France.html#ATTRACTIO N_LIST', 'https://www.tripadvisor.com/Attraction_Products-g187147-a_sort. -oa990-Paris Ile de France.html#ATTRACTION LIST', 'https://www.tripadviso r.com/Attraction_Products-g187147-a_sort.-oa1020-Paris_Ile_de_France.html #ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Products-g1871 47-a sort.-oa1050-Paris Ile de France.html#ATTRACTION LIST', 'https://ww w.tripadvisor.com/Attraction Products-g187147-a sort.-oa1080-Paris Ile de _France.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Pr oducts-g187147-a sort.-oa1110-Paris Ile de France.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction_Products-g187147-a_sort.-oa1140-P aris Ile de France.html#ATTRACTION LIST', 'https://www.tripadvisor.com/At traction Products-g187147-a sort.-oa1170-Paris Ile de France.html#ATTRACT ION LIST', 'https://www.tripadvisor.com/Attraction Products-g187147-a sor t.-oa1200-Paris Ile de France.html#ATTRACTION LIST', 'https://www.tripadv isor.com/Attraction Products-g187147-a sort.-oa1230-Paris Ile de France.h tml#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g1 87147-a sort.-oa1260-Paris Ile de France.html#ATTRACTION LIST', 'https:// www.tripadvisor.com/Attraction Products-g187147-a sort.-oa1290-Paris Ile de France.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187147-a_sort.-oa1320-Paris_Ile_de_France.html#ATTRACTION_LIS T', 'https://www.tripadvisor.com/Attraction_Products-g187147-a_sort.-oa13 50-Paris_Ile_de_France.html#ATTRACTION_LIST', 'https://www.tripadvisor.co m/Attraction Products-g187147-a sort.-oa1380-Paris Ile de France.html#ATT RACTION_LIST', 'https://www.tripadvisor.com/Attraction_Products-g187147-a sort.-oa1410-Paris Ile de France.html#ATTRACTION LIST', 'https://www.tri padvisor.com/Attraction Products-g187147-a sort.-oa1440-Paris Ile de Fran ce.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction Product s-g187147-a sort.-oa1470-Paris Ile de France.html#ATTRACTION LIST', 'http s://www.tripadvisor.com/Attraction Products-g187147-a sort.-oa1500-Paris Ile_de_France.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attract ion Products-g187147-a sort.-oa1530-Paris Ile de France.html#ATTRACTION L IST', 'https://www.tripadvisor.com/Attraction Products-g187147-a sort.-oa 1560-Paris_Ile_de_France.html#ATTRACTION_LIST', 'https://www.tripadvisor. com/Attraction Products-g187147-a sort.-oa1590-Paris Ile de France.html#A TTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Products-g187147 -a sort.-oa1620-Paris Ile de France.html#ATTRACTION LIST', 'https://www.t ripadvisor.com/Attraction_Products-g187147-a_sort.-oa1650-Paris_Ile_de_Fr ance.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Produ cts-g187147-a_sort.-oa1680-Paris_Ile_de_France.html#ATTRACTION_LIST', 'ht tps://www.tripadvisor.com/Attraction Products-g187147-a sort.-oa1710-Pari s Ile de France.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attra ction Products-g187147-a sort.-oa1740-Paris Ile de France.html#ATTRACTION _LIST', 'https://www.tripadvisor.com/Attraction_Products-g187147-a_sort.oa1770-Paris Ile de France.html#ATTRACTION LIST', 'https://www.tripadviso r.com/Attraction Products-g187147-a sort.-oa1800-Paris Ile de France.html #ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g1871 47-a sort.-oa1830-Paris Ile de France.html#ATTRACTION LIST', 'https://ww w.tripadvisor.com/Attraction Products-g187147-a sort.-oa1860-Paris Ile de _France.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction Pr oducts-g187147-a sort.-oa1890-Paris Ile de France.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187147-a sort.-oa1920-P aris Ile de France.html#ATTRACTION LIST', 'https://www.tripadvisor.com/At traction Products-g187147-a sort.-oa1950-Paris Ile de France.html#ATTRACT

ION LIST', 'https://www.tripadvisor.com/Attraction Products-g187147-a sor t.-oa1980-Paris_Ile_de_France.html#ATTRACTION_LIST', 'https://www.tripadv isor.com/Attraction Products-g187147-a sort.-oa2010-Paris Ile de France.h tml#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g1 87147-a sort.-oa2040-Paris Ile de France.html#ATTRACTION LIST', 'https:// www.tripadvisor.com/Attraction Products-g187147-a sort.-oa2070-Paris Ile de France.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187147-a sort.-oa2100-Paris Ile de France.html#ATTRACTION LIS T', 'https://www.tripadvisor.com/Attraction_Products-g187147-a_sort.-oa21 30-Paris Ile de France.html#ATTRACTION LIST', 'https://www.tripadvisor.co m/Attraction Products-g187147-a sort.-oa2160-Paris Ile de France.html#ATT RACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187147-a sort.-oa2190-Paris Ile de France.html#ATTRACTION LIST', 'https://www.tri padvisor.com/Attraction_Products-g187147-a_sort.-oa2220-Paris_Ile_de_Fran ce.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Product s-g187147-a sort.-oa2250-Paris Ile de France.html#ATTRACTION LIST', 'http s://www.tripadvisor.com/Attraction Products-g187147-a sort.-oa2280-Paris Ile de France.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attract ion Products-g187147-a sort.-oa2310-Paris Ile de France.html#ATTRACTION L IST', 'https://www.tripadvisor.com/Attraction Products-g187147-a sort.-oa 2340-Paris Ile de France.html#ATTRACTION LIST', 'https://www.tripadvisor. com/Attraction Products-g187147-a sort.-oa2370-Paris Ile de France.html#A TTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187147 -a sort.-oa2400-Paris Ile de France.html#ATTRACTION LIST', 'https://www.t ripadvisor.com/Attraction Products-g187147-a sort.-oa2430-Paris Ile de Fr ance.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Produ cts-g187147-a sort.-oa2460-Paris Ile de France.html#ATTRACTION LIST', 'ht tps://www.tripadvisor.com/Attraction Products-g187147-a sort.-oa2490-Pari s Ile de France.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attra ction Products-g187147-a sort.-oa2520-Paris Ile de France.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187147-a sort.oa2550-Paris Ile de France.html#ATTRACTION LIST', 'https://www.tripadviso r.com/Attraction Products-g187147-a sort.-oa2580-Paris Ile de France.html #ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g1871 47-a sort.-oa2610-Paris Ile de France.html#ATTRACTION LIST', 'https://ww w.tripadvisor.com/Attraction Products-g187147-a sort.-oa2640-Paris Ile de France.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Pr oducts-g187147-a sort.-oa2670-Paris Ile de France.html#ATTRACTION LIST']

In [189]:

- all attractions paris = get all attractions(paris htmls)
- 2 print(len(all attractions paris))
- 3 print(all attractions paris[:5])

2689

['Bateaux Parisiens Seine River Gourmet Dinner & Sightseeing Cruise', 'Lo uvre Museum Skip the Line Access Guided Tour with Venus de Milo & Mona Li sa', "Paris' Louvre Museum Virtual Guided Tour", 'See 30 Plus Top Paris S ights with a Fun Guide', 'Paris Sightseeing Guided Bike Tour Like a Paris ian with a Local Guide']

Out [190]: Attraction City

- **0** Bateaux Parisiens Seine River Gourmet Dinner &... Paris, France
- 1 Louvre Museum Skip the Line Access Guided Tour... Paris, France
- 2 Paris' Louvre Museum Virtual Guided Tour Paris, France
- 3 See 30 Plus Top Paris Sights with a Fun Guide Paris, France
- 4 Paris Sightseeing Guided Bike Tour Like a Pari... Paris, France

```
In [191]: 1 paris_df.to_csv('/Users/tiaplagata/Documents/Flatiron/capstone-project/
```

▼ 2.1.2 Crete, Greece

```
In [183]:
               # Create list of all htmls for Crete
            1
            2
               crete htmls = ['https://www.tripadvisor.com/Attraction Products-g189413
            3
            4
               for i in range (2, 36):
            5
                   base = 'https://www.tripadvisor.com/Attraction Products-g189413-a s
                   page = '-oa' + str(30*i - 30)
            6
            7
                   end = '-Crete.html#ATTRACTION LIST'
            8
                   html = base + page + end
            9
                   crete htmls.append(str(html))
           10
           11
               print(crete htmls)
```

['https://www.tripadvisor.com/Attraction Products-g189413-Crete.html', 'h ttps://www.tripadvisor.com/Attraction Products-g189413-a sort.-oa30-Cret e.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products -g189413-a sort.-oa60-Crete.html#ATTRACTION LIST', 'https://www.tripadvis or.com/Attraction Products-g189413-a sort.-oa90-Crete.html#ATTRACTION LIS T', 'https://www.tripadvisor.com/Attraction Products-g189413-a sort.-oa12 O-Crete.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Pr oducts-g189413-a sort.-oa150-Crete.html#ATTRACTION LIST', 'https://www.tr ipadvisor.com/Attraction_Products-g189413-a_sort.-oa180-Crete.html#ATTRAC TION LIST', 'https://www.tripadvisor.com/Attraction Products-g189413-a so rt.-oa210-Crete.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attra ction_Products-g189413-a_sort.-oa240-Crete.html#ATTRACTION_LIST', 'http s://www.tripadvisor.com/Attraction Products-g189413-a sort.-oa270-Crete.h tml#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g1 89413-a sort.-oa300-Crete.html#ATTRACTION LIST', 'https://www.tripadviso r.com/Attraction Products-g189413-a sort.-oa330-Crete.html#ATTRACTION LIS T', 'https://www.tripadvisor.com/Attraction Products-g189413-a sort.-oa36 O-Crete.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Pr oducts-g189413-a sort.-oa390-Crete.html#ATTRACTION LIST', 'https://www.tr ipadvisor.com/Attraction Products-g189413-a sort.-oa420-Crete.html#ATTRAC TION_LIST', 'https://www.tripadvisor.com/Attraction_Products-g189413-a_so rt.-oa450-Crete.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attra ction Products-g189413-a sort.-oa480-Crete.html#ATTRACTION LIST', 'http s://www.tripadvisor.com/Attraction Products-g189413-a sort.-oa510-Crete.h tml#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g1 89413-a sort.-oa540-Crete.html#ATTRACTION LIST', 'https://www.tripadviso r.com/Attraction Products-g189413-a sort.-oa570-Crete.html#ATTRACTION LIS T', 'https://www.tripadvisor.com/Attraction Products-g189413-a sort.-oa60 O-Crete.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Pr oducts-g189413-a sort.-oa630-Crete.html#ATTRACTION LIST', 'https://www.tr ipadvisor.com/Attraction_Products-g189413-a_sort.-oa660-Crete.html#ATTRAC TION_LIST', 'https://www.tripadvisor.com/Attraction_Products-g189413-a_so rt.-oa690-Crete.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attra ction Products-g189413-a sort.-oa720-Crete.html#ATTRACTION LIST', 'http s://www.tripadvisor.com/Attraction_Products-g189413-a_sort.-oa750-Crete.h tml#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g1 89413-a sort.-oa780-Crete.html#ATTRACTION LIST', 'https://www.tripadviso r.com/Attraction Products-g189413-a sort.-oa810-Crete.html#ATTRACTION LIS T', 'https://www.tripadvisor.com/Attraction Products-g189413-a sort.-oa84 O-Crete.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Pr oducts-g189413-a sort.-oa870-Crete.html#ATTRACTION LIST', 'https://www.tr ipadvisor.com/Attraction Products-g189413-a sort.-oa900-Crete.html#ATTRAC TION LIST', 'https://www.tripadvisor.com/Attraction Products-g189413-a so rt.-oa930-Crete.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attra ction_Products-g189413-a_sort.-oa960-Crete.html#ATTRACTION_LIST', 'http

tml#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g1

3 print(all attractions crete[:5])

1023

['Minoans World 3D Museum & 9D Cinema', 'Crete Wine and Olive Oil Tour', 'Skip the Line: Knossos Palace and Archaeological Site Entrance Ticket', 'Georgioupolis Safari Off Road Tours Outdoor Activities Land Rover Defender', 'Spinalonga island']

```
In [185]: 1 crete_df = pd.DataFrame(all_attractions_crete, columns=['Attraction'])
2 crete_df['City'] = 'Crete, Greece'
3 crete_df.head()
```

Out[185]	:	Attraction	City
	0	Minoans World 3D Museum & 9D Cinema	Crete, Greece
	1	Crete Wine and Olive Oil Tour	Crete, Greece
	2	Skip the Line: Knossos Palace and Archaeologic	Crete, Greece
	3	Georgioupolis Safari Off Road Tours Outdoor Ac	Crete, Greece
	4	Spinalonga island	Crete, Greece

```
In [186]: 1 crete_df.to_csv('/Users/tiaplagata/Documents/Flatiron/capstone-project,
```

▼ 2.1.3 Bali, Indonesia

```
In [179]:
              # Create list of all htmls for Bali
            1
            2
              bali htmls = ['https://www.tripadvisor.com/Attraction Products-g294226-
            3
            4
              for i in range(2, 168):
            5
                  base = 'https://www.tripadvisor.com/Attraction Products-g294226-a s
                  page = '-oa' + str(30*i - 30)
            6
            7
                   end = '-Bali.html#ATTRACTION LIST'
            8
                  html = base + page + end
            9
                  bali htmls.append(str(html))
           10
           11
              print(bali htmls)
```

['https://www.tripadvisor.com/Attraction Products-g294226-Bali.html', 'ht tps://www.tripadvisor.com/Attraction Products-g294226-a sort.-oa30-Bali.h tml#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g2 94226-a sort.-oa60-Bali.html#ATTRACTION LIST', 'https://www.tripadvisor.c om/Attraction_Products-g294226-a_sort.-oa90-Bali.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Products-g294226-a_sort.-oa120-Ba li.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Product s-g294226-a_sort.-oa150-Bali.html#ATTRACTION_LIST', 'https://www.tripadvi sor.com/Attraction Products-g294226-a sort.-oa180-Bali.html#ATTRACTION LI ST', 'https://www.tripadvisor.com/Attraction Products-g294226-a sort.-oa2 10-Bali.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction Pr oducts-g294226-a sort.-oa240-Bali.html#ATTRACTION LIST', 'https://www.tri padvisor.com/Attraction Products-g294226-a sort.-oa270-Bali.html#ATTRACTI ON LIST', 'https://www.tripadvisor.com/Attraction Products-g294226-a sor t.-oa300-Bali.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attract ion Products-g294226-a sort.-oa330-Bali.html#ATTRACTION LIST', 'https://w ww.tripadvisor.com/Attraction Products-g294226-a sort.-oa360-Bali.html#AT TRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g294226a sort.-oa390-Bali.html#ATTRACTION LIST', 'https://www.tripadvisor.com/At

```
In [180]: 1 all_attractions_bali = get_all_attractions(bali_htmls)
2 print(len(all_attractions_bali))
3 print(all_attractions_bali[:5])
```

5000

['Hotel to Hotel:Bali Private Transfer (Daytime)', 'Bali White Water Raft ing', 'Bali Snorkeling Tour at Blue Lagoon Beach: All-Inclusive', 'Privat e Bali Hotel Transfer: Hotel to Hotel', 'Inter hotel transfer in Bali (Ku ta, Seminyak and Nisa dua) to ubud (PVT)']

Out[181]:

Attraction City

- Hotel to Hotel:Bali Private Transfer (Daytime) Bali, Indonesia
- 1 Bali White Water Rafting Bali, Indonesia
- 2 Bali Snorkeling Tour at Blue Lagoon Beach: All... Bali, Indonesia
- 3 Private Bali Hotel Transfer: Hotel to Hotel Bali, Indonesia
- 4 Inter hotel transfer in Bali (Kuta, Seminyak a... Bali, Indonesia

```
In [182]: 1 bali_df.to_csv('/Users/tiaplagata/Documents/Flatiron/capstone-project/b
```

2.1.4 Rome, Italy

```
In [175]:
            1
               # Create list of all htmls for Rome
            2
               rome htmls = ['https://www.tripadvisor.com/Attraction Products-g187791-
            3
            4
              for i in range(2, 168):
            5
                   base = 'https://www.tripadvisor.com/Attraction Products-g187791-a s
                   page = '-oa' + str(30*i - 30)
            6
            7
                   end = '-Rome Lazio.html#ATTRACTION LIST'
            8
                   html = base + page + end
            9
                   rome htmls.append(str(html))
           10
           11
              print(rome htmls)
```

['https://www.tripadvisor.com/Attraction Products-g187791-Rome Lazio.htm l', 'https://www.tripadvisor.com/Attraction Products-g187791-a sort.-oa30 -Rome Lazio.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attractio n Products-g187791-a sort.-oa60-Rome Lazio.html#ATTRACTION LIST', 'http s://www.tripadvisor.com/Attraction Products-g187791-a sort.-oa90-Rome Laz io.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Product s-g187791-a sort.-oa120-Rome Lazio.html#ATTRACTION LIST', 'https://www.tr ipadvisor.com/Attraction Products-g187791-a sort.-oa150-Rome Lazio.html#A TTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187791 -a sort.-oa180-Rome Lazio.html#ATTRACTION LIST', 'https://www.tripadviso r.com/Attraction_Products-g187791-a sort.-oa210-Rome Lazio.html#ATTRACTIO N LIST', 'https://www.tripadvisor.com/Attraction Products-g187791-a sort. -oa240-Rome_Lazio.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Att raction_Products-g187791-a_sort.-oa270-Rome Lazio.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187791-a sort.-oa300-Ro me Lazio.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction P roducts-q187791-a sort.-oa330-Rome Lazio.html#ATTRACTION LIST', 'https:// www.tripadvisor.com/Attraction Products-g187791-a sort.-oa360-Rome Lazio. html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g

5000

["Faster Than Skip-the-Line: Vatican, Sistine Chapel and St. Peter's Basi lica Tour", 'Skip the Line: Colosseum Small Group Tour with Roman Forum & Palatine Hill ', 'Colosseum Underground Guided Tour with Palatine Hill & Roman Forum Access', "Skip-the-Line Group Tour of the Vatican, Sistine Chapel & St. Peter's Basilica", 'Fast- track- entry ticket to the Vatican M useums & the Sistine Chapel']

```
In [177]:
              rome_df = pd.DataFrame(all_attractions_rome, columns=['Attraction'])
              rome_df['City'] = 'Rome, Italy'
            3
              rome_df.head()
                                                      City
```

Out[177]: **Attraction**

- Faster Than Skip-the-Line: Vatican, Sistine Ch... Rome, Italy 0
- Skip the Line: Colosseum Small Group Tour with... Rome, Italy 1
- 2 Colosseum Underground Guided Tour with Palatin... Rome, Italy
- Skip-the-Line Group Tour of the Vatican, Sisti... Rome, Italy 3
- 4 Fast- track- entry ticket to the Vatican Museu... Rome, Italy

```
rome df.to csv('/Users/tiaplagata/Documents/Flatiron/capstone-project/r
In [178]:
```

2.1.5 Phuket, Thailand

```
In [171]:
               # Create list of all htmls for Phuket
            1
            2
               phuket htmls = ['https://www.tripadvisor.com/Attraction Products-g29392
            3
            4
               for i in range (2, 42):
            5
                   base = 'https://www.tripadvisor.com/Attraction Products-g293920-a s
                   page = '-oa' + str(30*i - 30)
            6
            7
                   end = '-Phuket.html#ATTRACTION LIST'
            8
                   html = base + page + end
            9
                   phuket htmls.append(str(html))
           10
           11
              print(phuket htmls)
```

['https://www.tripadvisor.com/Attraction Products-g293920-Phuket.html', 'https://www.tripadvisor.com/Attraction Products-g293920-a sort.-oa30-Phu ket.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Produc ts-g293920-a sort.-oa60-Phuket.html#ATTRACTION LIST', 'https://www.tripad visor.com/Attraction_Products-g293920-a_sort.-oa90-Phuket.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g293920-a sort.oa120-Phuket.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attracti on Products-g293920-a sort.-oa150-Phuket.html#ATTRACTION LIST', 'https:// www.tripadvisor.com/Attraction Products-g293920-a sort.-oa180-Phuket.html #ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g2939 20-a_sort.-oa210-Phuket.html#ATTRACTION_LIST', 'https://www.tripadvisor.c om/Attraction_Products-g293920-a_sort.-oa240-Phuket.html#ATTRACTION_LIS T', 'https://www.tripadvisor.com/Attraction Products-g293920-a sort.-oa27 O-Phuket.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction P roducts-g293920-a sort.-oa300-Phuket.html#ATTRACTION LIST', 'https://www. tripadvisor.com/Attraction Products-g293920-a sort.-oa330-Phuket.html#ATT RACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g293920-a sort.-oa360-Phuket.html#ATTRACTION LIST', 'https://www.tripadvisor.com/A ttraction Products-g293920-a sort.-oa390-Phuket.html#ATTRACTION LIST', 'h ttps://www.tripadvisor.com/Attraction Products-g293920-a sort.-oa420-Phuk et.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Product s-g293920-a sort.-oa450-Phuket.html#ATTRACTION LIST', 'https://www.tripad visor.com/Attraction Products-g293920-a sort.-oa480-Phuket.html#ATTRACTIO N LIST', 'https://www.tripadvisor.com/Attraction Products-g293920-a sort. -oa510-Phuket.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attract ion Products-g293920-a sort.-oa540-Phuket.html#ATTRACTION LIST', 'http s://www.tripadvisor.com/Attraction Products-g293920-a sort.-oa570-Phuket. html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g 293920-a sort.-oa600-Phuket.html#ATTRACTION LIST', 'https://www.tripadvis or.com/Attraction Products-g293920-a sort.-oa630-Phuket.html#ATTRACTION L IST', 'https://www.tripadvisor.com/Attraction Products-g293920-a sort.-oa 660-Phuket.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction Products-g293920-a sort.-oa690-Phuket.html#ATTRACTION LIST', 'https://ww w.tripadvisor.com/Attraction Products-g293920-a sort.-oa720-Phuket.html#A TTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g293920 -a sort.-oa750-Phuket.html#ATTRACTION LIST', 'https://www.tripadvisor.co m/Attraction Products-g293920-a sort.-oa780-Phuket.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g293920-a sort.-oa810-Ph uket.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Produ cts-g293920-a_sort.-oa840-Phuket.html#ATTRACTION_LIST', 'https://www.trip advisor.com/Attraction Products-g293920-a sort.-oa870-Phuket.html#ATTRACT ION LIST', 'https://www.tripadvisor.com/Attraction Products-g293920-a sor t.-oa900-Phuket.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attra ction Products-g293920-a sort.-oa930-Phuket.html#ATTRACTION LIST', 'http s://www.tripadvisor.com/Attraction Products-g293920-a sort.-oa960-Phuket.

html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Products-g293920-a_sort.-oa990-Phuket.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Products-g293920-a_sort.-oa1020-Phuket.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Products-g293920-a_sort.-oa1050-Phuket.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Products-g293920-a_sort.-oa1080-Phuket.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Products-g293920-a_sort.-oa1110-Phuket.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Products-g293920-a_sort.-oa1140-Phuket.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Products-g293920-a_sort.-oa1170-Phuket.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Products-g293920-a_sort.-oa1200-Phuket.html#ATTRACTION_LIST']

1201

['Phi Phi, MaiTon & Khai Islands by Speedboat', 'Phi Phi Islands Adventur e Day Trip with Seaview Lunch', 'Phi Phi Island by Premium Speedboat including Buffet Lunch', 'Phang Nga Bay Sea Cave Canoeing & James Bond Island w/ Buffet Lunch by Big Boat', 'A Morning with the Elephants at Phuket Elephant Sanctuary']

Out[173]:

Attraction City

- **0** Phi Phi, MaiTon & Khai Islands by Speedboat Phuket, Thailand
- 1 Phi Phi Islands Adventure Day Trip with Seavie... Phuket, Thailand
- 2 Phi Phi Island by Premium Speedboat including ... Phuket, Thailand
- 3 Phang Nga Bay Sea Cave Canoeing & James Bond I... Phuket, Thailand
- 4 A Morning with the Elephants at Phuket Elephan... Phuket, Thailand

```
In [174]: 1 phuket_df.to_csv('/Users/tiaplagata/Documents/Flatiron/capstone-project
```

2.1.6 Sicily, Italy

```
In [167]:
               # Create list of all htmls for Sicily
            1
            2
               sicily htmls = ['https://www.tripadvisor.com/Attraction Products-g18788
            3
            4
               for i in range (2, 68):
            5
                   base = 'https://www.tripadvisor.com/Attraction_Products-g187886-a_s
            6
                   page = '-oa' + str(30*i - 30)
            7
                   end = '-Sicily.html#ATTRACTION LIST'
            8
                   html = base + page + end
            9
                   sicily htmls.append(str(html))
           10
           11
              print(sicily htmls)
```

['https://www.tripadvisor.com/Attraction Products-g187886-Sicily.html', 'https://www.tripadvisor.com/Attraction Products-g187886-a sort.-oa30-Sic ily.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Produc ts-g187886-a sort.-oa60-Sicily.html#ATTRACTION LIST', 'https://www.tripad visor.com/Attraction_Products-g187886-a_sort.-oa90-Sicily.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187886-a sort.oa120-Sicily.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attracti on Products-g187886-a sort.-oa150-Sicily.html#ATTRACTION LIST', 'https:// www.tripadvisor.com/Attraction Products-g187886-a sort.-oa180-Sicily.html #ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g1878 86-a_sort.-oa210-Sicily.html#ATTRACTION_LIST', 'https://www.tripadvisor.c om/Attraction_Products-g187886-a_sort.-oa240-Sicily.html#ATTRACTION_LIS T', 'https://www.tripadvisor.com/Attraction Products-g187886-a sort.-oa27 O-Sicily.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction P roducts-g187886-a sort.-oa300-Sicily.html#ATTRACTION LIST', 'https://www. tripadvisor.com/Attraction Products-g187886-a sort.-oa330-Sicily.html#ATT RACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187886-a sort.-oa360-Sicily.html#ATTRACTION LIST', 'https://www.tripadvisor.com/A ttraction Products-g187886-a sort.-oa390-Sicily.html#ATTRACTION LIST', 'h ttps://www.tripadvisor.com/Attraction Products-g187886-a sort.-oa420-Sici ly.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Product s-g187886-a sort.-oa450-Sicily.html#ATTRACTION LIST', 'https://www.tripad visor.com/Attraction Products-g187886-a sort.-oa480-Sicily.html#ATTRACTIO N LIST', 'https://www.tripadvisor.com/Attraction Products-g187886-a sort. -oa510-Sicily.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attract ion Products-g187886-a sort.-oa540-Sicily.html#ATTRACTION LIST', 'http s://www.tripadvisor.com/Attraction Products-g187886-a sort.-oa570-Sicily. html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g 187886-a sort.-oa600-Sicily.html#ATTRACTION LIST', 'https://www.tripadvis or.com/Attraction Products-g187886-a sort.-oa630-Sicily.html#ATTRACTION L IST', 'https://www.tripadvisor.com/Attraction Products-g187886-a sort.-oa 660-Sicily.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction Products-g187886-a sort.-oa690-Sicily.html#ATTRACTION LIST', 'https://ww w.tripadvisor.com/Attraction Products-g187886-a sort.-oa720-Sicily.html#A TTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187886 -a sort.-oa750-Sicily.html#ATTRACTION LIST', 'https://www.tripadvisor.co m/Attraction Products-g187886-a sort.-oa780-Sicily.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187886-a sort.-oa810-Si cily.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Produ cts-g187886-a_sort.-oa840-Sicily.html#ATTRACTION_LIST', 'https://www.trip advisor.com/Attraction Products-g187886-a sort.-oa870-Sicily.html#ATTRACT ION LIST', 'https://www.tripadvisor.com/Attraction Products-g187886-a sor t.-oa900-Sicily.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attra ction Products-g187886-a sort.-oa930-Sicily.html#ATTRACTION LIST', 'http s://www.tripadvisor.com/Attraction Products-g187886-a sort.-oa960-Sicily.

html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g 187886-a sort.-oa990-Sicily.html#ATTRACTION LIST', 'https://www.tripadvis or.com/Attraction Products-g187886-a sort.-oa1020-Sicily.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187886-a sort.-o a1050-Sicily.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attracti on Products-g187886-a sort.-oa1080-Sicily.html#ATTRACTION LIST', 'http s://www.tripadvisor.com/Attraction Products-q187886-a sort.-oa1110-Sicil y.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Products -g187886-a sort.-oa1140-Sicily.html#ATTRACTION LIST', 'https://www.tripad visor.com/Attraction Products-g187886-a sort.-oa1170-Sicily.html#ATTRACTI ON LIST', 'https://www.tripadvisor.com/Attraction Products-g187886-a sor t.-oa1200-Sicily.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attr action Products-g187886-a sort.-oa1230-Sicily.html#ATTRACTION LIST', 'htt ps://www.tripadvisor.com/Attraction Products-g187886-a sort.-oa1260-Sicil y.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products -q187886-a sort.-oa1290-Sicily.html#ATTRACTION LIST', 'https://www.tripad visor.com/Attraction Products-g187886-a sort.-oa1320-Sicily.html#ATTRACTI ON LIST', 'https://www.tripadvisor.com/Attraction Products-g187886-a sor t.-oa1350-Sicily.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attr action Products-g187886-a sort.-oa1380-Sicily.html#ATTRACTION LIST', 'htt ps://www.tripadvisor.com/Attraction Products-g187886-a sort.-oa1410-Sicil y.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products -g187886-a sort.-oa1440-Sicily.html#ATTRACTION LIST', 'https://www.tripad visor.com/Attraction Products-g187886-a sort.-oa1470-Sicily.html#ATTRACTI ON LIST', 'https://www.tripadvisor.com/Attraction Products-g187886-a sor t.-oa1500-Sicily.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attr action Products-g187886-a sort.-oa1530-Sicily.html#ATTRACTION LIST', 'htt ps://www.tripadvisor.com/Attraction Products-g187886-a sort.-oa1560-Sicil y.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products -g187886-a sort.-oa1590-Sicily.html#ATTRACTION LIST', 'https://www.tripad visor.com/Attraction Products-g187886-a sort.-oa1620-Sicily.html#ATTRACTI ON LIST', 'https://www.tripadvisor.com/Attraction Products-g187886-a sor t.-oa1650-Sicily.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attr action Products-g187886-a sort.-oa1680-Sicily.html#ATTRACTION LIST', 'htt ps://www.tripadvisor.com/Attraction Products-g187886-a sort.-oa1710-Sicil y.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Products -g187886-a sort.-oa1740-Sicily.html#ATTRACTION LIST', 'https://www.tripad visor.com/Attraction Products-g187886-a sort.-oa1770-Sicily.html#ATTRACTI ON LIST', 'https://www.tripadvisor.com/Attraction Products-q187886-a sor t.-oa1800-Sicily.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attr action Products-g187886-a sort.-oa1830-Sicily.html#ATTRACTION LIST', 'htt ps://www.tripadvisor.com/Attraction Products-g187886-a sort.-oa1860-Sicil y.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products -g187886-a sort.-oa1890-Sicily.html#ATTRACTION LIST', 'https://www.tripad visor.com/Attraction Products-g187886-a sort.-oa1920-Sicily.html#ATTRACTI ON LIST', 'https://www.tripadvisor.com/Attraction Products-g187886-a sor t.-oa1950-Sicily.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attr action Products-q187886-a sort.-oa1980-Sicily.html#ATTRACTION LIST']

```
In [168]:
                all attractions sicily = get all attractions(sicily htmls)
                print(len(all attractions sicily))
                print(all attractions sicily[:5])
            2004
            ['Etna and Taormina Full-Day Tour from Catania', 'Palermo Street Food Wal
           king Tour', 'Sailing to Cyclops Islands Group Tour', 'Sunset Trekking on
           Stromboli - Ashàra Volcanological Guides', 'Excursion around Ortigia Isla
           nd and sea caves']
In [169]:
                sicily_df = pd.DataFrame(all_attractions_sicily, columns=['Attraction']
                sicily df['City'] = 'Sicily, Italy'
                sicily df.head()
Out[169]:
                                            Attraction
                                                          City
                 Etna and Taormina Full-Day Tour from Catania Sicily, Italy
            0
                          Palermo Street Food Walking Tour Sicily, Italy
            1
                        Sailing to Cyclops Islands Group Tour Sicily, Italy
            2
            3 Sunset Trekking on Stromboli - Ashàra Volcanol... Sicily, Italy
                 Excursion around Ortigia Island and sea caves Sicily, Italy
In [170]:
                sicily df.to csv('/Users/tiaplagata/Documents/Flatiron/capstone-project
```

2.1.7 Majorca, Balearic Islands

```
In [161]:
               # Create list of all htmls for Majorca
            1
            2
               majorca htmls = ['https://www.tripadvisor.com/Attraction Products-g1874
            3
            4
               for i in range (2, 17):
            5
                   base = 'https://www.tripadvisor.com/Attraction Products-g187462-a s
                   page = '-oa' + str(30*i - 30)
            6
            7
                   end = '-Majorca Balearic Islands.html#ATTRACTION LIST'
            8
                   html = base + page + end
            9
                   majorca htmls.append(str(html))
           10
           11
              print (majorca htmls)
```

['https://www.tripadvisor.com/Attraction Products-g187462-Majorca Baleari c Islands.html', 'https://www.tripadvisor.com/Attraction Products-g187462 -a sort.-oa30-Majorca Balearic Islands.html#ATTRACTION LIST', 'https://ww w.tripadvisor.com/Attraction Products-g187462-a sort.-oa60-Majorca Balear ic Islands.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187462-a sort.-oa90-Majorca Balearic Islands.html#ATTRACTION L IST', 'https://www.tripadvisor.com/Attraction Products-g187462-a sort.-oa 120-Majorca Balearic Islands.html#ATTRACTION LIST', 'https://www.tripadvi sor.com/Attraction Products-g187462-a sort.-oa150-Majorca Balearic Island s.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products -g187462-a_sort.-oa180-Majorca_Balearic_Islands.html#ATTRACTION_LIST', 'h ttps://www.tripadvisor.com/Attraction Products-g187462-a sort.-oa210-Majo rca Balearic Islands.html#ATTRACTION LIST', 'https://www.tripadvisor.com/ Attraction Products-g187462-a sort.-oa240-Majorca Balearic Islands.html#A TTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187462 -a sort.-oa270-Majorca Balearic Islands.html#ATTRACTION LIST', 'https://w ww.tripadvisor.com/Attraction Products-g187462-a sort.-oa300-Majorca Bale aric_Islands.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attracti on Products-q187462-a sort.-oa330-Majorca Balearic Islands.html#ATTRACTIO N LIST', 'https://www.tripadvisor.com/Attraction Products-g187462-a sort. -oa360-Majorca Balearic Islands.html#ATTRACTION LIST', 'https://www.tripa dvisor.com/Attraction Products-g187462-a sort.-oa390-Majorca Balearic Isl ands.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Produ cts-g187462-a sort.-oa420-Majorca Balearic Islands.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187462-a sort.-oa450-Ma jorca Balearic Islands.html#ATTRACTION LIST']

454

['Caves of Genova Admission in Palma de Mallorca', 'Shore Excursion:Palma Hop-On Hop-Off Bus Tour with Optional Boat & Belver Castle', 'Exclusive s ailing trip half day sailing Palma Bay, Playa de Palma, Can Pastilla)', 'Mallorca in One Day Sightseeing Tour with Boat Ride and Vintage Train', 'Electric Scooter Tour in Palma de Mallorca']

Out[163]:		Attraction	City
	0	Caves of Genova Admission in Palma de Mallorca	Majorca, Balearic Islands
	1	Shore Excursion:Palma Hop-On Hop-Off Bus Tour	Majorca, Balearic Islands
	2	Exclusive sailing trip half day sailing Palma	Majorca, Balearic Islands
	3	Mallorca in One Day Sightseeing Tour with Boat	Majorca, Balearic Islands
	4	Electric Scooter Tour in Palma de Mallorca	Majorca, Balearic Islands

```
In [164]: 1 majorca_df.to_csv('/Users/tiaplagata/Documents/Flatiron/capstone-project
```

▼ 2.1.8 Barcelona, Spain

```
In [159]:
               # Create list of all htmls for Barcelona
            1
            2
               barcelona htmls = ['https://www.tripadvisor.com/Attraction Products-g18
            3
            4
               for i in range (2, 63):
            5
                   base = 'https://www.tripadvisor.com/Attraction Products-g187497-a s
                   page = '-oa' + str(30*i - 30)
            6
            7
                   end = '-Barcelona Catalonia.html#ATTRACTION LIST'
            8
                   html = base + page + end
            9
                   barcelona htmls.append(str(html))
           10
           11
              print(barcelona htmls)
```

['https://www.tripadvisor.com/Attraction Products-g187497-Barcelona Catal onia.html', 'https://www.tripadvisor.com/Attraction Products-g187497-a so rt.-oa30-Barcelona Catalonia.html#ATTRACTION LIST', 'https://www.tripadvi sor.com/Attraction Products-g187497-a sort.-oa60-Barcelona Catalonia.html #ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Products-g1874 97-a_sort.-oa90-Barcelona_Catalonia.html#ATTRACTION_LIST', 'https://www.t ripadvisor.com/Attraction Products-g187497-a sort.-oa120-Barcelona Catalo nia.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction Produc ts-g187497-a sort.-oa150-Barcelona Catalonia.html#ATTRACTION LIST', 'http s://www.tripadvisor.com/Attraction Products-g187497-a sort.-oa180-Barcelo na_Catalonia.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attracti on Products-g187497-a sort.-oa210-Barcelona Catalonia.html#ATTRACTION LIS T', 'https://www.tripadvisor.com/Attraction Products-g187497-a sort.-oa24 O-Barcelona Catalonia.html#ATTRACTION LIST', 'https://www.tripadvisor.co m/Attraction Products-g187497-a sort.-oa270-Barcelona Catalonia.html#ATTR ACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187497-a sort.-oa300-Barcelona Catalonia.html#ATTRACTION LIST', 'https://www.tripa dvisor.com/Attraction Products-g187497-a_sort.-oa330-Barcelona_Catalonia. html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g 187497-a sort.-oa360-Barcelona Catalonia.html#ATTRACTION LIST', 'https:// www.tripadvisor.com/Attraction_Products-g187497-a_sort.-oa390-Barcelona_C atalonia.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_P roducts-g187497-a sort.-oa420-Barcelona Catalonia.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187497-a sort.-oa450-Ba rcelona_Catalonia.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Att raction Products-g187497-a sort.-oa480-Barcelona Catalonia.html#ATTRACTIO N LIST', 'https://www.tripadvisor.com/Attraction Products-g187497-a sort. -oa510-Barcelona_Catalonia.html#ATTRACTION_LIST', 'https://www.tripadviso r.com/Attraction Products-g187497-a sort.-oa540-Barcelona Catalonia.html# ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g18749 7-a sort.-oa570-Barcelona Catalonia.html#ATTRACTION LIST', 'https://www.t ripadvisor.com/Attraction Products-g187497-a sort.-oa600-Barcelona Catalo nia.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Produc ts-g187497-a_sort.-oa630-Barcelona_Catalonia.html#ATTRACTION_LIST', 'http s://www.tripadvisor.com/Attraction_Products-g187497-a_sort.-oa660-Barcelo na Catalonia.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attracti on Products-g187497-a sort.-oa690-Barcelona Catalonia.html#ATTRACTION LIS T', 'https://www.tripadvisor.com/Attraction Products-g187497-a sort.-oa72 O-Barcelona Catalonia.html#ATTRACTION LIST', 'https://www.tripadvisor.co m/Attraction_Products-g187497-a_sort.-oa750-Barcelona_Catalonia.html#ATTR ACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187497-a sort.-oa780-Barcelona Catalonia.html#ATTRACTION LIST', 'https://www.tripa dvisor.com/Attraction Products-g187497-a sort.-oa810-Barcelona Catalonia. html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g 187497-a sort.-oa840-Barcelona Catalonia.html#ATTRACTION LIST', 'https://

www.tripadvisor.com/Attraction Products-g187497-a sort.-oa870-Barcelona C atalonia.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction P roducts-g187497-a sort.-oa900-Barcelona Catalonia.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187497-a sort.-oa930-Ba rcelona Catalonia.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Att raction Products-g187497-a sort.-oa960-Barcelona Catalonia.html#ATTRACTIO N LIST', 'https://www.tripadvisor.com/Attraction Products-g187497-a sort. -oa990-Barcelona_Catalonia.html#ATTRACTION_LIST', 'https://www.tripadviso r.com/Attraction_Products-g187497-a_sort.-oa1020-Barcelona_Catalonia.html #ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-q1874 97-a sort.-oa1050-Barcelona Catalonia.html#ATTRACTION LIST', 'https://ww w.tripadvisor.com/Attraction Products-g187497-a sort.-oa1080-Barcelona Ca talonia.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Pr oducts-g187497-a sort.-oa1110-Barcelona Catalonia.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187497-a sort.-oa1140-B arcelona Catalonia.html#ATTRACTION LIST', 'https://www.tripadvisor.com/At traction Products-g187497-a sort.-oa1170-Barcelona Catalonia.html#ATTRACT ION LIST', 'https://www.tripadvisor.com/Attraction Products-g187497-a sor t.-oa1200-Barcelona_Catalonia.html#ATTRACTION_LIST', 'https://www.tripadv isor.com/Attraction Products-g187497-a sort.-oa1230-Barcelona Catalonia.h tml#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g1 87497-a sort.-oa1260-Barcelona Catalonia.html#ATTRACTION LIST', 'https:// www.tripadvisor.com/Attraction Products-g187497-a sort.-oa1290-Barcelona Catalonia.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_ Products-g187497-a sort.-oa1320-Barcelona Catalonia.html#ATTRACTION LIS T', 'https://www.tripadvisor.com/Attraction Products-g187497-a sort.-oal3 50-Barcelona Catalonia.html#ATTRACTION LIST', 'https://www.tripadvisor.co m/Attraction Products-g187497-a sort.-oa1380-Barcelona Catalonia.html#ATT RACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187497-a sort.-oa1410-Barcelona Catalonia.html#ATTRACTION LIST', 'https://www.tri padvisor.com/Attraction Products-g187497-a sort.-oa1440-Barcelona Catalon ia.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Product s-g187497-a sort.-oa1470-Barcelona Catalonia.html#ATTRACTION LIST', 'http s://www.tripadvisor.com/Attraction Products-g187497-a sort.-oa1500-Barcel ona Catalonia.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attract ion Products-g187497-a sort.-oa1530-Barcelona Catalonia.html#ATTRACTION L IST', 'https://www.tripadvisor.com/Attraction Products-g187497-a sort.-oa 1560-Barcelona Catalonia.html#ATTRACTION LIST', 'https://www.tripadvisor. com/Attraction Products-g187497-a sort.-oa1590-Barcelona Catalonia.html#A TTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187497 -a_sort.-oa1620-Barcelona_Catalonia.html#ATTRACTION_LIST', 'https://www.t ripadvisor.com/Attraction Products-g187497-a sort.-oa1650-Barcelona Catal onia.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Produ cts-g187497-a sort.-oa1680-Barcelona Catalonia.html#ATTRACTION LIST', 'ht tps://www.tripadvisor.com/Attraction Products-q187497-a sort.-oa1710-Barc elona Catalonia.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attra ction_Products-g187497-a_sort.-oa1740-Barcelona_Catalonia.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g187497-a sort.oa1770-Barcelona Catalonia.html#ATTRACTION LIST', 'https://www.tripadviso r.com/Attraction Products-g187497-a sort.-oa1800-Barcelona Catalonia.html #ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g1874 97-a sort.-oa1830-Barcelona Catalonia.html#ATTRACTION LIST']

```
In [160]:
               all attractions barcelona = get all attractions(barcelona htmls)
                print(len(all attractions barcelona))
                print(all_attractions_barcelona[:5])
           1855
           ['Interactive Spanish Cooking Experience in Barcelona', 'Flamenco Show Ti
           cket at Theatre Barcelona City Hall', 'Best of Barcelona Live Virtual Tou
           r', '2 hour Sunset Sailing Cruise Barcelona', 'Camp Nou - F.C.Barcelona O
           pen Date Ticket']
In [165]:
                barcelona df = pd.DataFrame(all attractions barcelona, columns=['Attrac
                barcelona df['City'] = 'Barcelona, Spain'
                barcelona df.head()
Out[165]:
                                            Attraction
                                                               City
               Interactive Spanish Cooking Experience in Barc... Barcelona, Spain
               Flamenco Show Ticket at Theatre Barcelona City... Barcelona, Spain
            2
                           Best of Barcelona Live Virtual Tour Barcelona, Spain
            3
                       2 hour Sunset Sailing Cruise Barcelona Barcelona, Spain
                   Camp Nou - F.C.Barcelona Open Date Ticket Barcelona, Spain
            4
                barcelona df.to csv('/Users/tiaplagata/Documents/Flatiron/capstone-proj
In [166]:
```

▼ 2.1.9 Istanbul, Turkey

```
In [192]:
            1
               # Create list of all htmls for Istanbul
            2
               istanbul htmls = ['https://www.tripadvisor.com/Attraction Products-g291
            3
            4
               for i in range (2, 78):
            5
                   base = 'https://www.tripadvisor.com/Attraction Products-g293974-a s
                   page = '-oa' + str(30*i - 30)
            6
            7
                   end = '-Istanbul.html#ATTRACTION LIST'
            8
                   html = base + page + end
            9
                   istanbul htmls.append(str(html))
           10
           11
              print(istanbul htmls)
```

['https://www.tripadvisor.com/Attraction Products-g293974-Istanbul.html', 'https://www.tripadvisor.com/Attraction Products-g293974-a sort.-oa30-Ist anbul.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Prod ucts-g293974-a sort.-oa60-Istanbul.html#ATTRACTION LIST', 'https://www.tr ipadvisor.com/Attraction_Products-g293974-a_sort.-oa90-Istanbul.html#ATTR ACTION_LIST', 'https://www.tripadvisor.com/Attraction_Products-g293974-a_ sort.-oa120-Istanbul.html#ATTRACTION LIST', 'https://www.tripadvisor.com/ Attraction Products-g293974-a sort.-oa150-Istanbul.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g293974-a sort.-oa180-Is tanbul.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Pro ducts-g293974-a_sort.-oa210-Istanbul.html#ATTRACTION_LIST', 'https://www. tripadvisor.com/Attraction Products-g293974-a sort.-oa240-Istanbul.html#A TTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g293974 -a sort.-oa270-Istanbul.html#ATTRACTION LIST', 'https://www.tripadvisor.c om/Attraction Products-g293974-a sort.-oa300-Istanbul.html#ATTRACTION LIS T', 'https://www.tripadvisor.com/Attraction Products-g293974-a sort.-oa33 0-Istanbul.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction _Products-g293974-a_sort.-oa360-Istanbul.html#ATTRACTION_LIST', 'https:// www.tripadvisor.com/Attraction Products-g293974-a sort.-oa390-Istanbul.ht ml#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g29 3974-a_sort.-oa420-Istanbul.html#ATTRACTION_LIST', 'https://www.tripadvis or.com/Attraction Products-g293974-a sort.-oa450-Istanbul.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g293974-a sort.oa480-Istanbul.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attrac tion Products-g293974-a sort.-oa510-Istanbul.html#ATTRACTION LIST', 'http s://www.tripadvisor.com/Attraction Products-g293974-a sort.-oa540-Istanbu 1.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products -g293974-a_sort.-oa570-Istanbul.html#ATTRACTION_LIST', 'https://www.tripa dvisor.com/Attraction Products-g293974-a sort.-oa600-Istanbul.html#ATTRAC TION LIST', 'https://www.tripadvisor.com/Attraction Products-g293974-a so rt.-oa630-Istanbul.html#ATTRACTION LIST', 'https://www.tripadvisor.com/At traction Products-g293974-a sort.-oa660-Istanbul.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g293974-a sort.-oa690-Is tanbul.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Pro ducts-g293974-a sort.-oa720-Istanbul.html#ATTRACTION_LIST', 'https://www. tripadvisor.com/Attraction Products-g293974-a sort.-oa750-Istanbul.html#A TTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g293974 -a sort.-oa780-Istanbul.html#ATTRACTION LIST', 'https://www.tripadvisor.c om/Attraction Products-g293974-a sort.-oa810-Istanbul.html#ATTRACTION LIS T', 'https://www.tripadvisor.com/Attraction_Products-g293974-a_sort.-oa84 0-Istanbul.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g293974-a sort.-oa870-Istanbul.html#ATTRACTION LIST', 'https:// www.tripadvisor.com/Attraction Products-g293974-a sort.-oa900-Istanbul.ht ml#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Products-g29 3974-a sort.-oa930-Istanbul.html#ATTRACTION LIST', 'https://www.tripadvis

or.com/Attraction Products-g293974-a sort.-oa960-Istanbul.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g293974-a sort.oa990-Istanbul.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attrac tion Products-g293974-a sort.-oa1020-Istanbul.html#ATTRACTION LIST', 'htt ps://www.tripadvisor.com/Attraction Products-g293974-a sort.-oa1050-Istan bul.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Produc ts-g293974-a sort.-oa1080-Istanbul.html#ATTRACTION LIST', 'https://www.tr ipadvisor.com/Attraction Products-g293974-a sort.-oa1110-Istanbul.html#AT TRACTION_LIST', 'https://www.tripadvisor.com/Attraction Products-g293974a sort.-oal140-Istanbul.html#ATTRACTION LIST', 'https://www.tripadvisor.c om/Attraction Products-g293974-a sort.-oa1170-Istanbul.html#ATTRACTION LI ST', 'https://www.tripadvisor.com/Attraction Products-g293974-a sort.-oal 200-Istanbul.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attracti on Products-g293974-a sort.-oa1230-Istanbul.html#ATTRACTION LIST', 'http s://www.tripadvisor.com/Attraction Products-g293974-a sort.-oa1260-Istanb ul.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Product s-g293974-a sort.-oa1290-Istanbul.html#ATTRACTION LIST', 'https://www.tri padvisor.com/Attraction_Products-g293974-a_sort.-oa1320-Istanbul.html#ATT RACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g293974-a sort.-oa1350-Istanbul.html#ATTRACTION LIST', 'https://www.tripadvisor.co m/Attraction Products-g293974-a sort.-oa1380-Istanbul.html#ATTRACTION LIS T', 'https://www.tripadvisor.com/Attraction Products-g293974-a sort.-oa14 10-Istanbul.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attractio n Products-g293974-a sort.-oa1440-Istanbul.html#ATTRACTION LIST', 'http s://www.tripadvisor.com/Attraction Products-g293974-a sort.-oa1470-Istanb ul.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Product s-g293974-a sort.-oa1500-Istanbul.html#ATTRACTION LIST', 'https://www.tri padvisor.com/Attraction_Products-g293974-a_sort.-oa1530-Istanbul.html#ATT RACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g293974-a sort.-oa1560-Istanbul.html#ATTRACTION LIST', 'https://www.tripadvisor.co m/Attraction Products-g293974-a sort.-oa1590-Istanbul.html#ATTRACTION LIS T', 'https://www.tripadvisor.com/Attraction Products-g293974-a sort.-oa16 20-Istanbul.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attractio n Products-g293974-a sort.-oa1650-Istanbul.html#ATTRACTION LIST', 'http s://www.tripadvisor.com/Attraction Products-g293974-a sort.-oa1680-Istanb ul.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Product s-g293974-a sort.-oa1710-Istanbul.html#ATTRACTION LIST', 'https://www.tri padvisor.com/Attraction Products-g293974-a sort.-oa1740-Istanbul.html#ATT RACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g293974-a sort.-oa1770-Istanbul.html#ATTRACTION LIST', 'https://www.tripadvisor.co m/Attraction_Products-g293974-a_sort.-oa1800-Istanbul.html#ATTRACTION_LIS T', 'https://www.tripadvisor.com/Attraction Products-g293974-a sort.-oa18 30-Istanbul.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attractio n Products-g293974-a sort.-oa1860-Istanbul.html#ATTRACTION LIST', 'http s://www.tripadvisor.com/Attraction Products-q293974-a sort.-oa1890-Istanb ul.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Product s-g293974-a sort.-oa1920-Istanbul.html#ATTRACTION LIST', 'https://www.tri padvisor.com/Attraction Products-g293974-a sort.-oa1950-Istanbul.html#ATT RACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g293974-a sort.-oa1980-Istanbul.html#ATTRACTION LIST', 'https://www.tripadvisor.co m/Attraction Products-g293974-a sort.-oa2010-Istanbul.html#ATTRACTION LIS T', 'https://www.tripadvisor.com/Attraction Products-g293974-a sort.-oa20 40-Istanbul.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attractio n Products-g293974-a sort.-oa2070-Istanbul.html#ATTRACTION LIST', 'http s://www.tripadvisor.com/Attraction Products-g293974-a sort.-oa2100-Istanb ul.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Product s-g293974-a_sort.-oa2130-Istanbul.html#ATTRACTION_LIST', 'https://www.tri

padvisor.com/Attraction_Products-g293974-a_sort.-oa2160-Istanbul.html#ATT RACTION_LIST', 'https://www.tripadvisor.com/Attraction_Products-g293974-a_sort.-oa2190-Istanbul.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Products-g293974-a_sort.-oa2220-Istanbul.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Products-g293974-a_sort.-oa22250-Istanbul.html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Products-g293974-a_sort.-oa2280-Istanbul.html#ATTRACTION_LIST']

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['Bosphorus Sunset Cruise on Luxury Yacht', '90-Minute Istanbul Bosphorus Cruise, Free Refreshment and Audio Guide App ', 'Best of Istanbul: 1, 2 or 3-Day Private Guided Tour', 'Istanbul Full Day Old City Tour', 'Taste of Two Continents Food Tour 5 People Max']

Out [194]: Attraction City

- Bosphorus Sunset Cruise on Luxury Yacht Istanbul, Turkey
- 1 90-Minute Istanbul Bosphorus Cruise, Free Refr... Istanbul, Turkey
- 2 Best of Istanbul: 1, 2 or 3-Day Private Guided... Istanbul, Turkey
- 3 Istanbul Full Day Old City Tour Istanbul, Turkey
- 4 Taste of Two Continents Food Tour 5 People Max Istanbul, Turkey

```
In [195]: 1 istanbul_df.to_csv('/Users/tiaplagata/Documents/Flatiron/capstone-proje
```

▼ 2.1.10 Goa, India

```
In [196]:
               # Create list of all htmls for Goa
            1
               goa htmls = ['https://www.tripadvisor.com/Attraction_Products-g297604-0]
            2
            3
            4
               for i in range (2, 13):
            5
                   base = 'https://www.tripadvisor.com/Attraction Products-g297604-a s
                   page = '-oa' + str(30*i - 30)
            6
            7
                   end = '-Goa.html#ATTRACTION LIST'
            8
                   html = base + page + end
            9
                   goa htmls.append(str(html))
           10
           11
              print(goa htmls)
```

['https://www.tripadvisor.com/Attraction Products-g297604-Goa.html', 'htt ps://www.tripadvisor.com/Attraction Products-g297604-a sort.-oa30-Goa.htm 1#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g297 604-a sort.-oa60-Goa.html#ATTRACTION LIST', 'https://www.tripadvisor.com/ Attraction_Products-g297604-a_sort.-oa90-Goa.html#ATTRACTION_LIST', 'http s://www.tripadvisor.com/Attraction_Products-g297604-a_sort.-oa120-Goa.htm l#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction Products-g297 604-a_sort.-oa150-Goa.html#ATTRACTION_LIST', 'https://www.tripadvisor.co m/Attraction Products-g297604-a sort.-oa180-Goa.html#ATTRACTION LIST', 'h ttps://www.tripadvisor.com/Attraction Products-g297604-a sort.-oa210-Goa. html#ATTRACTION_LIST', 'https://www.tripadvisor.com/Attraction_Products-g 297604-a sort.-oa240-Goa.html#ATTRACTION LIST', 'https://www.tripadvisor. com/Attraction Products-g297604-a sort.-oa270-Goa.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g297604-a sort.-oa300-Go a.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products -g297604-a sort.-oa330-Goa.html#ATTRACTION LIST']

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['Fontainhas Heritage Walk', 'Sunset Cruise on Paradise', 'North Goa Sigh tseeing Full Day Tour (09 am - 05 pm)', 'Dudhsagar Waterfall Trip in Goa', 'Water Sports Goa']

```
Out [198]:

Out [198]:

North Goa Sightseeing Full Day Tour (09 am - ... Goa, India
Dudhsagar Waterfall Trip in Goa Goa, India
```

```
In [199]: 1 | goa_df.to_csv('/Users/tiaplagata/Documents/Flatiron/capstone-project/go
```

Water Sports Goa Goa, India

2.1.11 Dubai, United Arab Emirates

```
In [201]:
            1
               # Create list of all htmls for Dubai
               dubai htmls = ['https://www.tripadvisor.com/Attraction_Products-g295424
            2
            3
            4
               for i in range (2, 125):
            5
                   base = 'https://www.tripadvisor.com/Attraction Products-g295424-a s
            6
                   page = '-oa' + str(30*i - 30)
            7
                   end = '-Dubai Emirate of Dubai.html#ATTRACTION LIST'
            8
                   html = base + page + end
            9
                   dubai htmls.append(str(html))
           10
           11
               print(dubai htmls)
```

['https://www.tripadvisor.com/Attraction Products-g295424-Dubai Emirate o f Dubai.html', 'https://www.tripadvisor.com/Attraction Products-g295424-a sort.-oa30-Dubai Emirate of Dubai.html#ATTRACTION LIST', 'https://www.tr ipadvisor.com/Attraction Products-g295424-a sort.-oa60-Dubai Emirate of D ubai.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Produ cts-g295424-a sort.-oa90-Dubai Emirate of Dubai.html#ATTRACTION LIST', 'h ttps://www.tripadvisor.com/Attraction Products-g295424-a sort.-oa120-Duba i Emirate of Dubai.html#ATTRACTION LIST', 'https://www.tripadvisor.com/At traction Products-g295424-a sort.-oa150-Dubai Emirate of Dubai.html#ATTRA CTION LIST', 'https://www.tripadvisor.com/Attraction Products-g295424-a s ort.-oa180-Dubai Emirate of Dubai.html#ATTRACTION LIST', 'https://www.tri padvisor.com/Attraction Products-g295424-a sort.-oa210-Dubai Emirate of D ubai.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Produ cts-g295424-a sort.-oa240-Dubai Emirate of Dubai.html#ATTRACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g295424-a sort.-oa270-Du bai Emirate of Dubai.html#ATTRACTION LIST', 'https://www.tripadvisor.com/ Attraction Products-g295424-a sort.-oa300-Dubai Emirate of Dubai.html#ATT RACTION LIST', 'https://www.tripadvisor.com/Attraction Products-g295424-a sort.-oa330-Dubai Emirate of Dubai.html#ATTRACTION LIST', 'https://www.t

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['Premium Red Dunes & Camel Safari with BBQ at Al Khayma Camp', 'Red Dune s By Quad Bike, Sandsurf, Camels & BBQ at Al Khayma Camp', 'Dubai Marina Luxury Yacht Tour with Breakfast or BBQ', 'Dubai Red Dune Desert Safari: Camel Ride, Sandboarding & BBQ Options', 'Atlantis Aquaventure & Lost Chambers Ticket']

```
In [203]:
                  dubai df = pd.DataFrame(all attractions dubai, columns=['Attraction'])
                  dubai df['City'] = 'Dubai, United Arab Emirates'
               2
                  dubai df.head()
Out[203]:
                                                    Attraction
                                                                                  City
                 Premium Red Dunes & Camel Safari with BBQ at A... Dubai, United Arab Emirates
                 Red Dunes By Quad Bike, Sandsurf, Camels & BBQ... Dubai, United Arab Emirates
                    Dubai Marina Luxury Yacht Tour with Breakfast ... Dubai, United Arab Emirates
              3
                   Dubai Red Dune Desert Safari: Camel Ride, Sand... Dubai, United Arab Emirates
                       Atlantis Aquaventure & Lost Chambers Ticket Dubai, United Arab Emirates
                  dubai df.to csv('/Users/tiaplagata/Documents/Flatiron/capstone-project
In [204]:
```

2.2 Concatenate all the DFs

```
Out[207]:
                                                Attraction
                                                                         City
                     SEA LIFE London Aquarium Admission Ticket London, United Kingdom
             0
                      The Jack The Ripper Walking Tour in London London, United Kingdom
             1
                                    Ghost Bus Tour of London London, United Kingdom
             2
                Big Bus London Hop-On Hop-Off Tour and River C... London, United Kingdom
                   The Blood and Tears Walk: Serial Killers and L... London, United Kingdom
In [208]:
                 # See all 12 cities in the DF
                 cities df['City'].unique()
Out[208]: array(['London, United Kingdom', 'Paris, France', 'Crete, Greece',
                     'Bali, Indonesia', 'Rome, Italy', 'Phuket, Thailand',
                    'Sicily, Italy', 'Majorca, Balearic Islands', 'Barcelona, Spain',
                    'Istanbul, Turkey', 'Goa, India', 'Dubai, United Arab Emirates'],
                   dtype=object)
```

```
In [209]: 1 # Save to CSV
2 cities_df.to_csv('/Users/tiaplagata/Documents/Flatiron/capstone-project
```

2.3 Analysis continued in <u>EDA and Modeling Notebook</u> (<u>https://github.com/tiaplagata/capstone-project/blob/main/Notebooks/EDA and Modeling.ipvnb)</u>