5.4. Filtering the Data

Let's start by only looking at films that cost over a million dollars to make.

Create a variable called `budget_df` that contains all columns for the movies whose budget was over a million dollars.

```
budget_df = []
budget_df.shape
```

Q-1: How many movies have a budget over 1 million dollars? 7208 ✅

[Check me] [Compare me]

✓

Is the correct answer

Activity: 5.4.1 Fill in the Blank (mov_expensive_movies)

With this more manageable list of 7000+ movies, I'd like to have a way to look up the budget of a particular movie.

Create a Series object called `budget_lookup` such that you are able to use a call to `budget_lookup['Dead Presidents']` to find the budget of that movie.

```
budget_lookup = []
budget_lookup['Dead Presidents']
```

Q-2: What was the budget for Dead Presidents? 10000000 ✅

[Check me] [Compare me]

✓

Is the correct answer

Activity: 5.4.2 Fill in the Blank (mov_dead_presidents_budget)

I have figured out that the first (alphabetically) movie whose title starts with an "A" is "A Bag of Hammers" and the last movie that starts with a "B" is "Byzantium".

```
budget_lookup[budget_lookup.index.str.startswith('A')].sort_index()[[0]]
```

```
title
A Bag of Hammers    2000000
dtype: int64
```

```
budget_lookup[budget_lookup.index.str.startswith('B')].sort_index()[[-1]]
```

```
title
Byzantium    10000000
dtype: int64
```

Use that knowledge to create a series that contains budget informations for all the movies that start with an "A" or a "B". **Hint:** No need to use `startswith` like I did above, just use the movie titles to do a slice.

```
budget_lookup_as_and_bs = []
budget_lookup_as_and_bs.shape
```

Q-3: How many movies with a budget of over a million dollars and whose title starts with an "A" or a "B" are there? ⚠️

882

[Check me] [Compare me]

✖
catchall feedback

Activity: 5.4.3 Fill in the Blank (mov_a_b_movies)

Lesson Feedback

During this lesson I was primarily in my...
○ 1. Comfort Zone
◉ 2. Learning Zone
○ 3. Panic Zone
Thanks, your response has been recorded

Activity: 5.4.4 Poll (LearningZone_5_2)

Completing this lesson took...
○ 1. Very little time
◉ 2. A reasonable amount of time
○ 3. More time than is reasonable
Thanks, your response has been recorded

Activity: 5.4.5 Poll (Time_5_2)

Based on my own interests and needs, the things taught in this lesson...
○ 1. Don't seem worth learning
○ 2. May be worth learning
◉ 3. Are definitely worth learning
Thanks, your response has been recorded

Activity: 5.4.6 Poll (TaskValue_5_2)

For me to master the things taught in this lesson feels...
◉ 1. Definitely within reach
○ 2. Within reach if I try my hardest
○ 3. Out of reach no matter how hard I try
Thanks, your response has been recorded

Activity: 5.4.7 Poll (Expectancy_5_2)

You have attempted 8 of 8 activities on this page

✔ **Completed. Well Done!**

This page is not part of the last reading assignment you visited.

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