Submission Info

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- Student pace: self paced
- Scheduled project review date/time: 07/01/2021 at 12:00 PM CT
- Instructor name: Jeff Herman
- Blog post URL: https://kamileyagci.github.io/Movie-Industry-Study/)

Part 1 Content

- · Import Libraries
- · Explore Data Files
- Define Business Questions
- · List Data Files to be used
- · Merge Data
- · Clean Data
- · Save Data

Import Libraries

```
In [1]: import pandas as pd
   import numpy as np
   import seaborn as sns
   import matplotlib.pyplot as plt
   %matplotlib inline
```

Explore Data Files

```
In [2]: df_bomMovieGross = pd.read_csv('zippedData/bom.movie_gross.csv.gz')
    df_bomMovieGross.info()
    df_bomMovieGross.head()

<class 'pandas.core.frame.DataFrame'>
```

RangeIndex: 3387 entries, 0 to 3386 Data columns (total 5 columns): # Column Non-Null Count Dtype ----_____ ---0 title 3387 non-null object studio 3382 non-null object 1 float64 2 domestic_gross 3359 non-null foreign_gross 2037 non-null object 3 4 3387 non-null int64 dtypes: float64(1), int64(1), object(3) memory usage: 132.4+ KB

Out[2]:

	title	studio	domestic_gross	foreign_gross	year
0	Toy Story 3	BV	415000000.0	652000000	2010
1	Alice in Wonderland (2010)	BV	334200000.0	691300000	2010
2	Harry Potter and the Deathly Hallows Part 1	WB	296000000.0	664300000	2010
3	Inception	WB	292600000.0	535700000	2010
4	Shrek Forever After	P/DW	238700000.0	513900000	2010

In [3]: df_imdbNameBasics = pd.read_csv('zippedData/imdb.name.basics.csv.gz') df_imdbNameBasics.info() df_imdbNameBasics.head()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 606648 entries, 0 to 606647
Data columns (total 6 columns):

Column	Non-Null Count	Dtype
nconst	606648 non-null	object
primary_name	606648 non-null	object
birth_year	82736 non-null	float64
death_year	6783 non-null	float64
<pre>primary_profession</pre>	555308 non-null	object
${\tt known_for_titles}$	576444 non-null	object
	nconst primary_name birth_year death_year primary_profession	nconst 606648 non-null primary_name 606648 non-null birth_year 82736 non-null death_year 6783 non-null primary_profession 555308 non-null

dtypes: float64(2), object(4)

memory usage: 27.8+ MB

Out[3]:

primary_professio	death_year	birth_year	primary_name	nconst	
miscellaneous,production_manager,produce	NaN	NaN	Mary Ellen Bauder	nm0061671	0
composer,music_department,sound_departmen	NaN	NaN	Joseph Bauer	nm0061865	1
miscellaneous,actor,write	NaN	NaN	Bruce Baum	nm0062070	2
camera_department,cinematographer,art_departmen	NaN	NaN	Axel Baumann	nm0062195	3
production_designer,art_department,set_decorato	NaN	NaN	Pete Baxter	nm0062798	4

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 331703 entries, 0 to 331702
Data columns (total 8 columns):

#	Column	Non-Null Count	Dtype
0	title_id	331703 non-null	object
1	ordering	331703 non-null	int64
2	title	331703 non-null	object
3	region	278410 non-null	object
4	language	41715 non-null	object
5	types	168447 non-null	object
6	attributes	14925 non-null	object
7	is_original_title	331678 non-null	float64

dtypes: float64(1), int64(1), object(6)

memory usage: 20.2+ MB

Out[4]:

	title_id	ordering	title	region	language	types	attributes	is_original_title
0	tt0369610	10	Джурасик свят	BG	bg	NaN	NaN	0.0
1	tt0369610	11	Jurashikku warudo	JP	NaN	imdbDisplay	NaN	0.0
2	tt0369610	12	Jurassic World: O Mundo dos Dinossauros	BR	NaN	imdbDisplay	NaN	0.0
3	tt0369610	13	O Mundo dos Dinossauros	BR	NaN	NaN	short title	0.0
4	tt0369610	14	Jurassic World	FR	NaN	imdbDisplay	NaN	0.0

In [5]: df_imdbTitleBasics = pd.read_csv('zippedData/imdb.title.basics.csv.gz') df_imdbTitleBasics.info() df_imdbTitleBasics.head()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 146144 entries, 0 to 146143
Data columns (total 6 columns):

#	Column	Non-Null Count	Dtype
0	tconst	146144 non-null	object
1	<pre>primary_title</pre>	146144 non-null	object
2	original_title	146123 non-null	object
3	start_year	146144 non-null	int64
4	runtime_minutes	114405 non-null	float64
5	genres	140736 non-null	object

dtypes: float64(1), int64(1), object(4)

memory usage: 6.7+ MB

Out[5]:

genres	runtime_minutes	start_year	original_title	primary_title	tconst	
Action,Crime,Drama	175.0	2013	Sunghursh	Sunghursh	tt0063540	0
Biography,Drama	114.0	2019	Ashad Ka Ek Din	One Day Before the Rainy Season	tt0066787	1
Drama	122.0	2018	The Other Side of the Wind	The Other Side of the Wind	tt0069049	2
Comedy,Drama	NaN	2018	Sabse Bada Sukh	Sabse Bada Sukh	tt0069204	3
Comedy,Drama,Fantasy	80.0	2017	La Telenovela Errante	The Wandering Soap Opera	tt0100275	4

```
In [6]: df_imdbTitleCrew = pd.read_csv('zippedData/imdb.title.crew.csv.gz')
       df imdbTitleCrew.info()
       df_imdbTitleCrew.head()
       <class 'pandas.core.frame.DataFrame'>
       RangeIndex: 146144 entries, 0 to 146143
       Data columns (total 3 columns):
        # Column Non-Null Count
                                      Dtype
       --- ----
                     -----
        0 tconst
                    146144 non-null object
           directors 140417 non-null object
        1
        2
           writers 110261 non-null object
       dtypes: object(3)
       memory usage: 3.3+ MB
```

Out[6]:

S	writers	directors	tconst
4	nm0899854	nm0899854	0 tt0285252
4	nm0175726,nm1802864	NaN	1 tt0438973
5	nm1940585	nm1940585	2 tt0462036
2	nm0310087,nm0841532	nm0151540	3 tt0835418
3	nm0284943	nm0089502,nm2291498,nm2292011	4 tt0878654

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1028186 entries, 0 to 1028185
Data columns (total 6 columns):

#	Column	Non-Null Count	Dtype
0	tconst	1028186 non-null	object
1	ordering	1028186 non-null	int64
2	nconst	1028186 non-null	object
3	category	1028186 non-null	object
4	job	177684 non-null	object
5	characters	393360 non-null	object

dtypes: int64(1), object(5)
memory usage: 47.1+ MB

Out[7]:

	tconst	ordering	nconst	category	job	characters
0	tt0111414	1	nm0246005	actor	NaN	["The Man"]
1	tt0111414	2	nm0398271	director	NaN	NaN
2	tt0111414	3	nm3739909	producer	producer	NaN
3	tt0323808	10	nm0059247	editor	NaN	NaN
4	tt0323808	1	nm3579312	actress	NaN	["Beth Boothby"]

Out[8]:

	tconst	averagerating	numvotes
0	tt10356526	8.3	31
1	tt10384606	8.9	559
2	tt1042974	6.4	20
3	tt1043726	4.2	50352
4	tt1060240	6.5	21

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1560 entries, 0 to 1559
Data columns (total 12 columns):

#	Column	Non-Null Count	Dtype
0	id	1560 non-null	int64
1	synopsis	1498 non-null	object
2	rating	1557 non-null	object
3	genre	1552 non-null	object
4	director	1361 non-null	object
5	writer	1111 non-null	object
6	theater_date	1201 non-null	object
7	dvd_date	1201 non-null	object
8	currency	340 non-null	object
9	box_office	340 non-null	object
10	runtime	1530 non-null	object
11	studio	494 non-null	object
- .			

dtypes: int64(1), object(11)
memory usage: 146.4+ KB

Out[9]:

	id	synopsis	rating	genre	director	writer	theater_date	$dvd_{_}$
0	1	This gritty, fast-paced, and innovative police	R	Action and Adventure Classics Drama	William Friedkin	Ernest Tidyman	Oct 9, 1971	Se
1	3	New York City, not- too-distant- future: Eric Pa	R	Drama Science Fiction and Fantasy	David Cronenberg	David Cronenberg Don DeLillo	Aug 17, 2012	J
2	5	Illeana Douglas delivers a superb performance 	R	Drama Musical and Performing Arts	Allison Anders	Allison Anders	Sep 13, 1996	Αŗ
3	6	Michael Douglas runs afoul of a treacherous su	R	Drama Mystery and Suspense	Barry Levinson	Paul Attanasio Michael Crichton	Dec 9, 1994	Au
4	7	NaN	NR	Drama Romance	Rodney Bennett	Giles Cooper	NaN	

RangeIndex: 54432 entries, 0 to 54431 Data columns (total 8 columns): Column # Non-Null Count Dtype ---------0 id 54432 non-null int64 review 48869 non-null object rating 40915 non-null object 1 2 rating 3 fresh 54432 non-null object critic 51710 non-null object 4 5 top_critic 54432 non-null int64 6 publisher 54123 non-null object 7 54432 non-null object dtypes: int64(2), object(6) memory usage: 3.3+ MB

<class 'pandas.core.frame.DataFrame'>

Out[10]:

	id	review	rating	fresh	critic	top_critic	publisher	date
0	3	A distinctly gallows take on contemporary fina	3/5	fresh	PJ Nabarro	0	Patrick Nabarro	November 10, 2018
1	3	It's an allegory in search of a meaning that n	NaN	rotten	Annalee Newitz	0	io9.com	May 23, 2018
2	3	life lived in a bubble in financial dealin	NaN	fresh	Sean Axmaker	0	Stream on Demand	January 4, 2018
3	3	Continuing along a line introduced in last yea	NaN	fresh	Daniel Kasman	0	MUBI	November 16, 2017
4	3	a perverse twist on neorealism	NaN	fresh	NaN	0	Cinema Scope	October 12, 2017

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 26517 entries, 0 to 26516
Data columns (total 10 columns):

#	Column	Non-Null Count	Dtype
0	Unnamed: 0	26517 non-null	int64
1	genre_ids	26517 non-null	object
2	id	26517 non-null	int64
3	original_language	26517 non-null	object
4	original_title	26517 non-null	object
5	popularity	26517 non-null	float64
6	release_date	26517 non-null	object
7	title	26517 non-null	object
8	vote_average	26517 non-null	float64
9	vote_count	26517 non-null	int64
-14	Fl+ C1(2)+	(4/2) abiast(E)	

dtypes: float64(2), int64(3), object(5)

memory usage: 2.0+ MB

Out[11]:

	Unnamed: 0	genre_ids	id	original_language	original_title	popularity	release_date	title
0	0	[12, 14, 10751]	12444	en	Harry Potter and the Deathly Hallows: Part 1	33.533	2010-11-19	Harry Potter and the Deathly Hallows: Part 1
1	1	[14, 12, 16, 10751]	10191	en	How to Train Your Dragon	28.734	2010-03-26	How to Train Your Dragon
2	2	[12, 28, 878]	10138	en	Iron Man 2	28.515	2010-05-07	Iron Man 2
3	3	[16, 35, 10751]	862	en	Toy Story	28.005	1995-11-22	Toy Story
4	4	[28, 878, 12]	27205	en	Inception	27.920	2010-07-16	Inception

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 5782 entries, 0 to 5781
Data columns (total 6 columns):

#	Column	Non-Null Count	Dtype
0	id	5782 non-null	int64
1	release_date	5782 non-null	object
2	movie	5782 non-null	object
3	<pre>production_budget</pre>	5782 non-null	object
4	domestic_gross	5782 non-null	object
5	worldwide_gross	5782 non-null	object

dtypes: int64(1), object(5)
memory usage: 271.2+ KB

Out[6]:

	id	release_date	movie	production_budget	domestic_gross	worldwide_gross
0	1	Dec 18, 2009	Avatar	\$425,000,000	\$760,507,625	\$2,776,345,279
1	2	May 20, 2011	Pirates of the Caribbean: On Stranger Tides	\$410,600,000	\$241,063,875	\$1,045,663,875
2	3	Jun 7, 2019	Dark Phoenix	\$350,000,000	\$42,762,350	\$149,762,350
3	4	May 1, 2015	Avengers: Age of Ultron	\$330,600,000	\$459,005,868	\$1,403,013,963
4	5	Dec 15, 2017	Star Wars Ep. VIII: The Last Jedi	\$317,000,000	\$620,181,382	\$1,316,721,747

Define Business Questions

- 1. Is there a correlation between the production budget and the profit?
- 2. Is there a correlation between the ratings and the profit?
- 3. Which directors, writers, actors and actresses make the most profit?
- 4. Which genres make the most profit?

List Data Files to be used

- tn.movie_budgets.csv.gz
- imdb.title.basics.csv.gz
- imdb.title.ratings.csv.gz
- imdb.title.principals.csv.gz
- imdb.name.basics.csv.gz

Merge Data

In [13]: # Merge the Data files to be used df_Merged = pd.merge(df_tnMovieBudgets, df_imdbTitleBasics, left_on="movie" df_Merged = pd.merge(df_Merged, df_imdbTitleRatings, on="tconst") df_Merged = pd.merge(df_Merged, df_imdbTitlePrincipals, on="tconst") df_Merged = pd.merge(df_Merged, df_imdbNameBasics, on="nconst") df_Merged.info() df_Merged.tail()

<class 'pandas.core.frame.DataFrame'> Int64Index: 24983 entries, 0 to 24982 Data columns (total 24 columns):

#	Column	Non-Null Count	Dtype
0	id	24983 non-null	int64
1	release_date	24983 non-null	object
2	movie	24983 non-null	object
3	production_budget	24983 non-null	object
4	domestic_gross	24983 non-null	object
5	worldwide_gross	24983 non-null	object
6	tconst	24983 non-null	object
7	<pre>primary_title</pre>	24983 non-null	object
8	original_title	24983 non-null	object
9	start_year	24983 non-null	int64
10	runtime_minutes	24117 non-null	float64
11	genres	24943 non-null	object
12	averagerating	24983 non-null	float64
13	numvotes	24983 non-null	int64
14	ordering	24983 non-null	int64
15	nconst	24983 non-null	object
16	category	24983 non-null	object
17	job	8374 non-null	object
18	characters	10118 non-null	object
19	primary_name	24983 non-null	object
20	birth_year	13108 non-null	float64
21	death_year	520 non-null	float64
22	<pre>primary_profession</pre>	24721 non-null	object
23	known_for_titles	24906 non-null	object
dtype	es: $float64(4)$, $int6$	4(4), object(16)	
memoi	ry usage: 4.8+ MB		

memory usage: 4.8+ MB

Out[13]:

	id	release_date	movie	production_budget	domestic_gross	worldwide_gross	tcons
24978	81	Sep 29, 2015	A Plague So Pleasant	\$1,400	\$0	\$0	tt2107644
24979	81	Sep 29, 2015	A Plague So Pleasant	\$1,400	\$0	\$0	tt210764
24980	81	Sep 29, 2015	A Plague So Pleasant	\$1,400	\$0	\$0	tt2107644

	id	release_date	movie	production_budget	domestic_gross	worldwide_gross	tcons
24981	81	Sep 29, 2015	A Plague So Pleasant	\$1,400	\$0	\$0	tt2107644
24982	81	Sep 29, 2015	A Plague So Pleasant	\$1,400	\$0	\$0	tt2107644

5 rows × 24 columns

Clean Data

```
In [14]: # Remove the unnecessary columns
         drop_Columns = ['id', 'primary title', 'original title', 'runtime minutes',
                          'job', 'start_year', 'birth_year', 'primary_profession', 'k
         df Merged.drop(columns = drop Columns, inplace=True)
         df_Merged.info()
         <class 'pandas.core.frame.DataFrame'>
         Int64Index: 24983 entries, 0 to 24982
         Data columns (total 14 columns):
              Column
                                 Non-Null Count Dtype
```

```
0
    release date
                       24983 non-null object
1
    movie
                       24983 non-null object
2
    production budget 24983 non-null object
3
    domestic_gross
                       24983 non-null object
4
    worldwide gross
                       24983 non-null object
5
    tconst
                       24983 non-null
                                      object
    genres
                       24943 non-null object
7
    averagerating
                       24983 non-null float64
8
   numvotes
                       24983 non-null int64
9
    nconst
                       24983 non-null object
10 category
                       24983 non-null
                                      object
11 characters
                       10118 non-null
                                      object
    primary name
                       24983 non-null
                                      object
 13 death year
                       520 non-null
                                       float64
dtypes: float64(2), int64(1), object(11)
```

memory usage: 2.9+ MB

```
In [15]: # Remove rows with $0 worldwide gross
         df Merged.drop(df Merged[df Merged.worldwide gross == '$0'].index, inplace=
         df_Merged.info()
         <class 'pandas.core.frame.DataFrame'>
         Int64Index: 22676 entries, 0 to 24971
         Data columns (total 14 columns):
          #
              Column
                                 Non-Null Count Dtype
                                 _____
         ___
                                                 ____
          0
             release_date
                                 22676 non-null object
          1
              movie
                                 22676 non-null
                                                 object
          2
              production_budget
                                 22676 non-null
                                                 object
                                 22676 non-null
          3
              domestic_gross
                                                 object
          4
             worldwide_gross
                                 22676 non-null
                                                 object
          5
                                 22676 non-null
                                                 object
             tconst
          6
             genres
                                 22636 non-null
                                                 object
          7
             averagerating
                                 22676 non-null
                                                 float64
              numvotes
                                 22676 non-null
                                                 int64
          9
                                 22676 non-null
                                                 object
            nconst
          10 category
                                 22676 non-null object
          11 characters
                                 9158 non-null
                                                 object
                                 22676 non-null object
          12 primary name
          13 death_year
                                 492 non-null
                                                 float64
         dtypes: float64(2), int64(1), object(11)
         memory usage: 2.6+ MB
In [16]: | df Merged[df Merged.production budget == '$0']
Out[16]:
           release_date movie production_budget domestic_gross worldwide_gross tconst genres averaç
```

```
In [17]: # Change the currency columns to float
         df Merged['production budget'] = df Merged['production budget'].str.replace
         df_Merged['production_budget'] = df_Merged['production_budget'].str.replace
         df Merged['production budget'] = df Merged['production budget'].astype(floa
         df_Merged['domestic_gross'] = df_Merged['domestic_gross'].str.replace(",",
         df Merged['domestic gross'] = df Merged['domestic gross'].str.replace("$",
         df Merged['domestic gross'] = df Merged['domestic gross'].astype(float)
         df Merged['worldwide gross'] = df Merged['worldwide gross'].str.replace(","
         df_Merged['worldwide_gross'] = df_Merged['worldwide_gross'].str.replace("$"
         df Merged['worldwide gross'] = df Merged['worldwide gross'].astype(float)
```

```
In [18]: df_Merged.info()
df_Merged.head()
```

<class 'pandas.core.frame.DataFrame'> Int64Index: 22676 entries, 0 to 24971 Data columns (total 14 columns): Column Non-Null Count Dtype ____ _____ ----0 release_date 22676 non-null object 1 movie 22676 non-null object 2 production_budget 22676 non-null float64 3 22676 non-null float64 domestic_gross 22676 non-null float64 worldwide_gross 4 5 object tconst 22676 non-null 6 22636 non-null object genres 7 22676 non-null float64 averagerating numvotes 22676 non-null int64 9 nconst 22676 non-null object 10 category 22676 non-null object 11 characters 9158 non-null object 12 primary_name 22676 non-null object 13 death_year 492 non-null float64 dtypes: float64(5), int64(1), object(8)

memory usage: 2.6+ MB

Out[18]:

	release_date	movie	production_budget	domestic_gross	worldwide_gross	tconst	
0	May 20, 2011	Pirates of the Caribbean: On Stranger Tides	410600000.0	241063875.0	1.045664e+09	tt1298650	Actior
1	May 20, 2011	Pirates of the Caribbean: On Stranger Tides	410600000.0	241063875.0	1.045664e+09	tt1298650	Actior
2	Jul 2, 2013	The Lone Ranger	275000000.0	89302115.0	2.600021e+08	tt1210819	Action
3	May 26, 2017	Pirates of the Caribbean: Dead Men Tell No Tales	230000000.0	172558876.0	7.882411e+08	tt1790809	Actior
4	Mar 5, 2010	Alice in Wonderland	200000000.0	334191110.0	1.025491e+09	tt1014759	Adver

```
In [19]: # Seperate genres
df_Merged['genres'] = df_Merged['genres'].str.split(',')
df_Merged = df_Merged.explode('genres')
```

```
In [25]: # Slice the release year from the release date
df_Merged['release_year'] = df_Merged['release_date'].str.slice(start=-4).a
```

In [26]: df_Merged.info() df_Merged.head()

<class 'pandas.core.frame.DataFrame'> Int64Index: 53305 entries, 0 to 24971 Data columns (total 15 columns): Column Non-Null Count Dtype ____ _____ ----0 release_date 53305 non-null object 1 movie 53305 non-null object 2 production_budget 53305 non-null float64 3 domestic_gross 53305 non-null float64 4 worldwide_gross 53305 non-null float64 5 53305 non-null object tconst 6 53265 non-null object genres 7 averagerating 53305 non-null float64 8 numvotes 53305 non-null int64 9 nconst 53305 non-null object 10 category 53305 non-null object 11 characters 21488 non-null object 12 primary_name 53305 non-null object 13 death_year 1243 non-null float64 14 release year 53305 non-null int64 dtypes: float64(5), int64(2), object(8) memory usage: 7.8+ MB

Out[26]:

	release_date	movie	production_budget	domestic_gross	worldwide_gross	tconst	genı
0	May 20, 2011	Pirates of the Caribbean: On Stranger Tides	410600000.0	241063875.0	1.045664e+09	tt1298650	Acti
0	May 20, 2011	Pirates of the Caribbean: On Stranger Tides	410600000.0	241063875.0	1.045664e+09	tt1298650	Adventi
0	May 20, 2011	Pirates of the Caribbean: On Stranger Tides	410600000.0	241063875.0	1.045664e+09	tt1298650	Fanta
1	May 20, 2011	Pirates of the Caribbean: On Stranger Tides	410600000.0	241063875.0	1.045664e+09	tt1298650	Acti
1	May 20, 2011	Pirates of the Caribbean: On Stranger Tides	410600000.0	241063875.0	1.045664e+09	tt1298650	Adventi

Create Profit columns

```
In [27]: #Two types of profits
         df Merged['profit gross'] = df Merged['worldwide gross'] - df Merged['produ
         df Merged['profit rate'] = df Merged['worldwide gross'] / df Merged['produc
         df_Merged.info()
         df_Merged.head()
```

<class 'pandas.core.frame.DataFrame'> Int64Index: 53305 entries, 0 to 24971 Data columns (total 17 columns): Non-Null Count Dtype # Column _____ 53305 non-null object release_date 1 movie 53305 non-null object 2 production budget 53305 non-null float64 3 domestic_gross 53305 non-null float64 4 worldwide_gross 53305 non-null float64 5 tconst 53305 non-null object 6 genres 53265 non-null object 7 53305 non-null float64 averagerating 53305 non-null int64 8 numvotes 9 nconst 53305 non-null object 53305 non-null object 10 category 11 characters 21488 non-null object 53305 non-null object 12 primary name 13 death year float64 1243 non-null 14 release_year 53305 non-null int64 15 profit gross 53305 non-null float64 16 profit rate 53305 non-null float64 dtypes: float64(7), int64(2), object(8) memory usage: 8.6+ MB

Out[27]:

	release_date	movie	production_budget	domestic_gross	worldwide_gross	tconst	genı
0	May 20, 2011	Pirates of the Caribbean: On Stranger Tides	410600000.0	241063875.0	1.045664e+09	tt1298650	Acti
0	May 20, 2011	Pirates of the Caribbean: On Stranger Tides	410600000.0	241063875.0	1.045664e+09	tt1298650	Adventi
0	May 20, 2011	Pirates of the Caribbean: On Stranger Tides	410600000.0	241063875.0	1.045664e+09	tt1298650	Fanta
1	May 20, 2011	Pirates of the Caribbean: On Stranger Tides	410600000.0	241063875.0	1.045664e+09	tt1298650	Acti

	release_date	movie	production_budget	domestic_gross	worldwide_gross	tconst	genı
1	May 20, 2011	Pirates of the Caribbean: On Stranger Tides	410600000.0	241063875.0	1.045664e+09	tt1298650	Adventi

```
In [29]: #Sort values based on production_budget
df_Merged.sort_values(by='production_budget', ascending=False, inplace=True
```

Save Data

```
In [30]: df_Merged.to_csv('zippedData/myData.csv')
In [ ]:
```