final project

November 7, 2023

1 Programming in Python for Data Science

2 Final Project

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3 Foreword

##This notebook will be showing some exploratory data analysis for the Disney dataset located https://data.world/kgarrett/disney-character-success-00-16. We will explore about the data and then find important questions. Later in the notebook, we will try to answer those questions using descriptive analysis

4 About the dataset

##There are 5 datasets related to disney, i.e, movies, characters, revenue, directors and voice-actors. My main analysis is for disney movie dataset. Walt Disney Studios serves as the cornerstone upon which The Walt Disney Company was established. Over the years, this division has been responsible for the creation of a vast catalog of over 600 films, with its inaugural release, "Snow White and the Seven Dwarfs," dating back to 1937. While a significant number of these cinematic endeavors achieved great success, a few encountered less favorable outcomes. This notebook embarks on an exploration of a dataset encompassing Disney movies, aiming to delve into the factors that underlie the success of these cinematic productions.website

I am going to use 3 datasets, i.e, * disney_movies_total_gross.csv * disney-director.csv * disney-voice-actor.csv

In **disney_movies_total_gross.csv**, there are 6 columns, i.e, movie_title(title of the movie), release_date(date of release for the movie), genre(drama, adventure, musical, comedy, action) MPAA_rating(PG, PG-13, R, G) total_gross(total box office collection), inflation_adjusted_gross(Actual profit made by the movie)

In **disney-director.csv**, 2 columns,i.e Name(Name of the movie) and director(director of the movie) are there.

In **disney-voice-actor.csv**, 3 columns, character(character name whose voice is given), voice actor(name of the voice actor) and movie(Name of the movie) are there.

5 Questions of Interest

In this notebook, I will be finding top 10 movies which did best business on box office, best movie from each genre. Also, I will be exploring if MPAA_rating impacted the popularity of movies or not.

Also, I am going to check the popularity trends for all 5 genre in disney movies.

For, director and voice datasets, I am going to merge them in one dataset and explore which director used maximum number of voice artists, and the movie which used maximum number of voice artists

6 Import libraries needed for this lab

import pandas as pd import random import test_assignment6 as t import altair as alt import string import inspect from hashlib import sha1

```
[1]: # Import libraries needed for this lab
     import pandas as pd
     import random
     import altair as alt
     import string
     import inspect
     from hashlib import sha1
     import matplotlib.pyplot as plt
    movies = pd.read_csv("data/disney_movies_total_gross.csv")
[2]:
[3]:
    movies.head()
[3]:
                            movie_title release_date
                                                             genre MPAA_rating
     0
        Snow White and the Seven Dwarfs Dec 21, 1937
                                                           Musical
                                                                             G
     1
                              Pinocchio
                                           Feb 9, 1940
                                                        Adventure
                                                                             G
     2
                                Fantasia Nov 13, 1940
                                                           Musical
                                                                             G
     3
                                                                             G
                      Song of the South Nov 12, 1946
                                                        Adventure
     4
                              Cinderella Feb 15, 1950
                                                             Drama
                                                                             G
         total_gross inflation_adjusted_gross
     0
        $184,925,485
                                $5,228,953,251
         $84,300,000
     1
                                $2,188,229,052
     2
         $83,320,000
                                $2,187,090,808
     3
         $65,000,000
                                $1,078,510,579
     4
         $85,000,000
                                  $920,608,730
    movies.describe()
```

```
[4]:
                 movie_title release_date
                                               genre MPAA_rating total_gross \
     count
                          579
                                        579
                                                 562
                                                              523
                                                                          579
     unique
                          573
                                        553
                                                  12
                                                                5
                                                                          576
     top
             The Jungle Book Dec 25, 1997
                                              Comedy
                                                               PG
                                                                           $0
                                                 182
                                                                            4
     freq
                            3
                                           3
                                                              187
            inflation_adjusted_gross
     count
                                  579
                                  576
     unique
     top
                                   $0
                                    4
     freq
[5]: movies.info()
    <class 'pandas.core.frame.DataFrame'>
    RangeIndex: 579 entries, 0 to 578
    Data columns (total 6 columns):
```

#	Column	Non-Null Count	Dtype
0	movie_title	579 non-null	object
1	release_date	579 non-null	object
2	genre	562 non-null	object
3	MPAA_rating	523 non-null	object
4	total_gross	579 non-null	object
5	inflation_adjusted_gross	579 non-null	object

dtypes: object(6)
memory usage: 27.3+ KB

6.1 Here we see that datatype of all the column is object. Lets convert them to correct datatype so we can perform analysis

```
[6]: # Remove dollar signs and commas from the "inflation_adjusted_gross" column movies['inflation_adjusted_gross'] = movies['inflation_adjusted_gross'].str.

→replace('$', '').str.replace(',', '')
```

<ipython-input-6-8c8daa339bdb>:2: FutureWarning: The default value of regex will
change from True to False in a future version. In addition, single character
regular expressions will*not* be treated as literal strings when regex=True.
 movies['inflation_adjusted_gross'] =
movies['inflation_adjusted_gross'].str.replace('\$', '').str.replace(',', '')

```
[7]: #Convert the "inflation_adjusted_gross" column to integer
movies['inflation_adjusted_gross'] = movies['inflation_adjusted_gross'].

→astype(int)
```

```
[8]: movies['total_gross'] = movies['total_gross'].str.replace('$', '').str.

→replace(',', '')
```

<ipython-input-8-46c0396df8fd>:1: FutureWarning: The default value of regex will
change from True to False in a future version. In addition, single character
regular expressions will*not* be treated as literal strings when regex=True.
 movies['total_gross'] = movies['total_gross'].str.replace('\$',
'').str.replace(',', '')

```
[9]: #Convert the "total_gross" column to integer
movies['total_gross'] = movies['total_gross'].astype(int)
```

```
[10]: movies['release_date'] = pd.to_datetime(movies['release_date'])
```

6.2 lets find out top 10 movies which did the best business in the market:

```
[11]: top_movies = movies.sort_values('inflation_adjusted_gross', ascending=False)

# Display the top 10 movies
top_movies.head(10)
```

[11]:	movie_title	release_date	genre	MPAA_rating	\
0	Snow White and the Seven Dwarfs	1937-12-21	Musical	G	
1	Pinocchio	1940-02-09	Adventure	G	
2	Fantasia	1940-11-13	Musical	G	
8	101 Dalmatians	1961-01-25	Comedy	G	
6	Lady and the Tramp	1955-06-22	Drama	G	
3	Song of the South	1946-11-12	Adventure	G	
564	Star Wars Ep. VII: The Force Awakens	2015-12-18	Adventure	PG-13	
4	Cinderella	1950-02-15	Drama	G	
13	The Jungle Book	1967-10-18	Musical	Not Rated	
179	The Lion King	1994-06-15	Adventure	G	

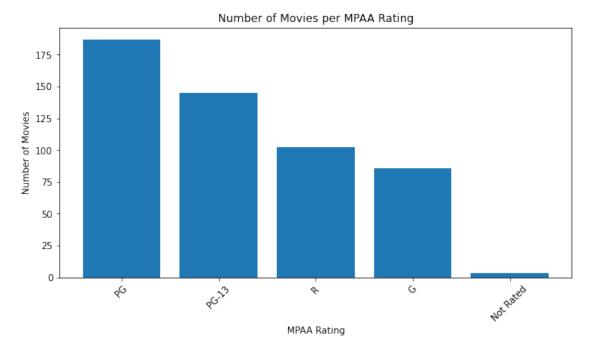
	total_gross	inflation_adjusted_gross
0	184925485	5228953251
1	84300000	2188229052
2	83320000	2187090808
8	153000000	1362870985
6	93600000	1236035515
3	65000000	1078510579
564	936662225	936662225
4	85000000	920608730
13	141843000	789612346
179	422780140	761640898

6.3 now lets see the best movie from each genre

```
[12]: genre wise best= movies.groupby("genre")['movie_title',_
       →'inflation_adjusted_gross'].max()
      genre_wise_best
     <ipython-input-12-0a5cbac29cb1>:1: FutureWarning: Indexing with multiple keys
     (implicitly converted to a tuple of keys) will be deprecated, use a list
     instead.
       genre_wise_best= movies.groupby("genre")['movie_title',
     'inflation adjusted gross'].max()
[12]:
                                                       movie_title \
      genre
      Action
                                                               Tron
      Adventure
                                                           Zootopia
                                              The Royal Tenenbaums
      Black Comedy
      Comedy
                                                         You Again
      Concert/Performance Jonas Brothers: The 3D Concert Experi...
     Documentary
                                             X Games 3D: The Movie
     Drama
                                                   crazy/beautiful
     Horror
                                                The Puppet Masters
                           Tim Burton's The Nightmare Before Chr...
     Musical
      Romantic Comedy
                                           While You Were Sleeping
      Thriller/Suspense
                                                       Unbreakable
                                                          Tombstone
      Western
                            inflation_adjusted_gross
      genre
      Action
                                           660081224
                                          2188229052
      Adventure
      Black Comedy
                                            76758193
                                          1362870985
      Comedy
      Concert/Performance
                                            76646993
                                            35981010
     Documentary
     Drama
                                          1236035515
     Horror
                                            48546161
     Musical
                                          5228953251
     Romantic Comedy
                                           356389765
      Thriller/Suspense
                                           485424724
      Western
                                           115781734
```

lets explore MPAA_rating column. From describe(), we can see that there are 5 unique entries for this column, i.e, PG, G, PG-13, R and Not rated. From https://en.wikipedia.org/wiki/Motion_Picture_Association_film_rating_system, PG = Parentl Guidance, G - General Audience, PG-13 = Parents Strongly Cautioned and R = Restricted.

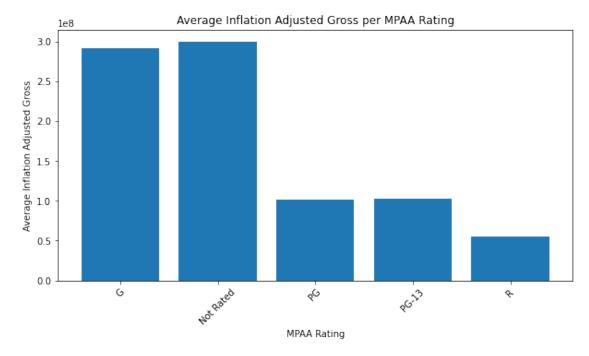
```
[13]: rating_counts = movies['MPAA_rating'].value_counts()
      rating_counts
[13]: PG
                   187
     PG-13
                   145
      R
                   102
      G
                    86
      Not Rated
                     3
      Name: MPAA_rating, dtype: int64
[14]: plt.figure(figsize=(10, 5))
      plt.bar(rating_counts.index, rating_counts)
      plt.title('Number of Movies per MPAA Rating')
      plt.xlabel('MPAA Rating')
      plt.ylabel('Number of Movies')
      plt.xticks(rotation=45)
      plt.show()
```



6.4 Lets find out if there is any trend between the ,MP rating and business done by disney movies:

```
[15]: average_gross = movies.groupby('MPAA_rating')['inflation_adjusted_gross'].mean()
[16]: plt.figure(figsize=(10, 5))
    plt.bar(average_gross.index, average_gross)
```

```
plt.title('Average Inflation Adjusted Gross per MPAA Rating')
plt.xlabel('MPAA Rating')
plt.ylabel('Average Inflation Adjusted Gross')
plt.xticks(rotation=45)
plt.show()
```



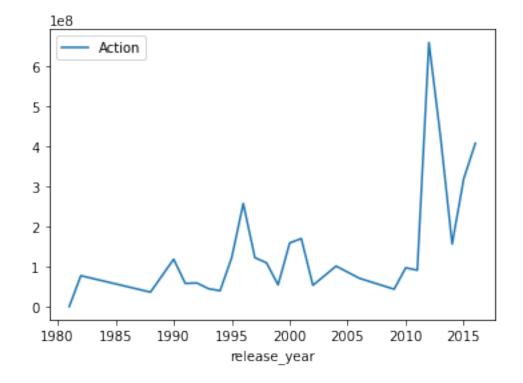
##here we found out that although least number of movies were 'not rated' but those movies did maximum of the business. However, movies made for general audiences also did good business.

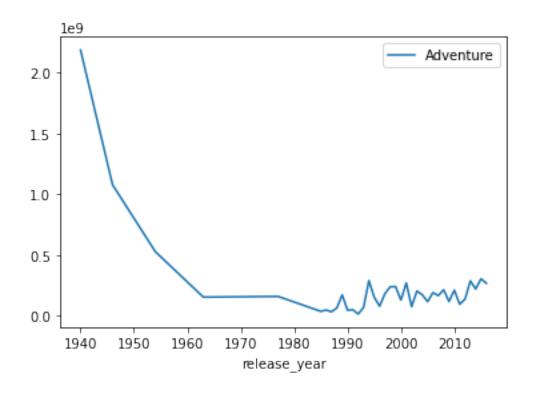
6.5 From the above stats, it seems that some genre are more polpular than others. lets find out movie genre trend

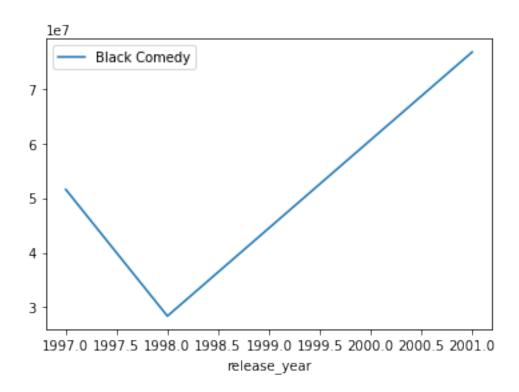
```
genre release_year inflation_adjusted_gross
0 Action 1981 0.0
1 Action 1982 77184895.0
```

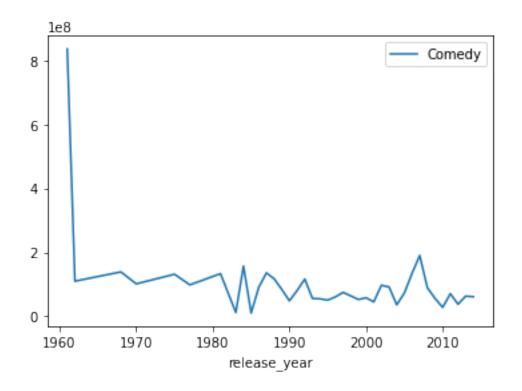
```
36053517.0
2 Action
                   1988
3 Action
                   1990
                                       118358772.0
4
  Action
                   1991
                                        57918572.5
5 Action
                   1992
                                        58965304.0
6
 Action
                   1993
                                        44682157.0
7
  Action
                   1994
                                        39545796.0
 Action
8
                   1995
                                       122162426.5
  Action
                   1996
                                       257755262.5
```

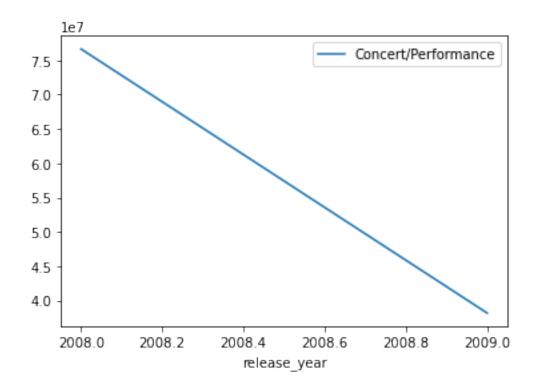
<Figure size 864x432 with 0 Axes>

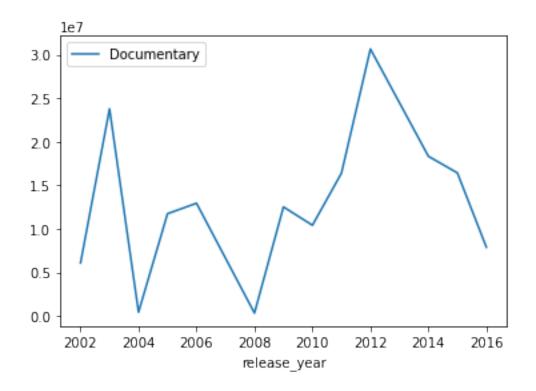


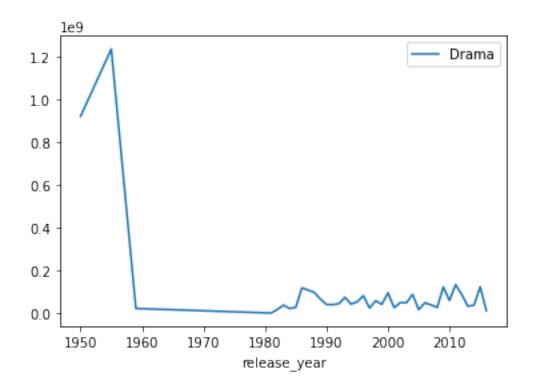


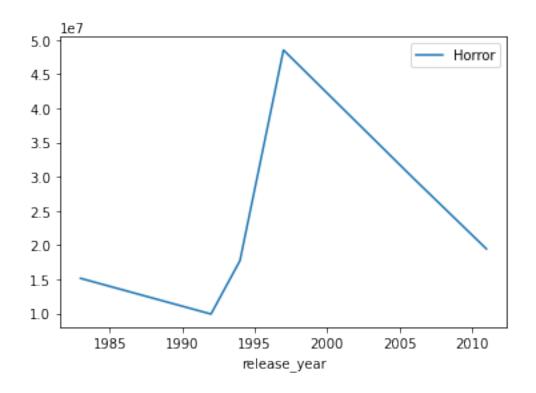


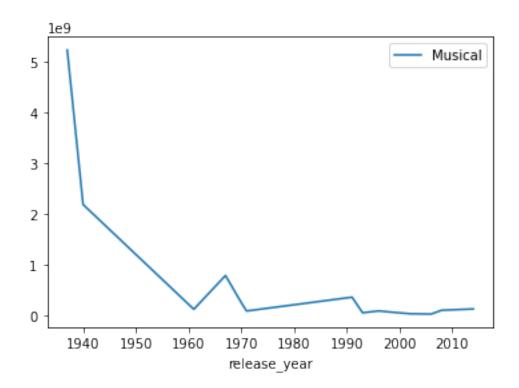


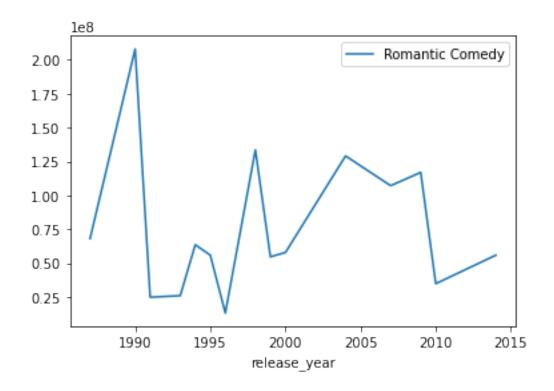


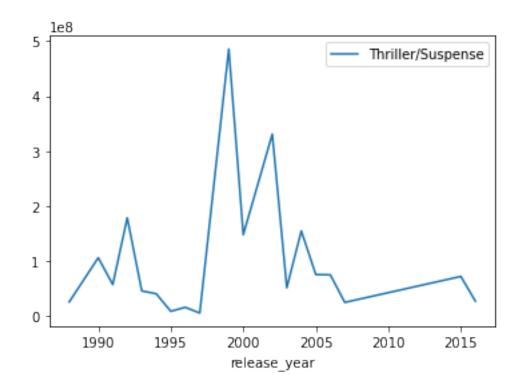




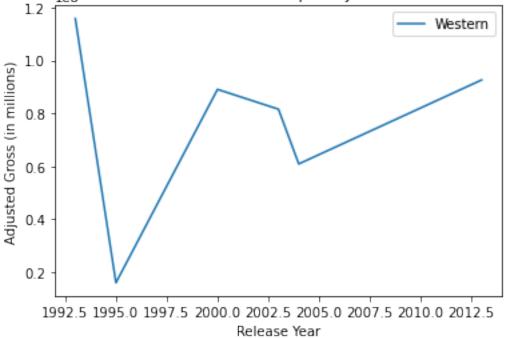










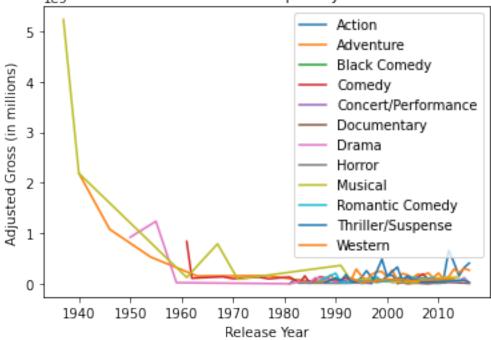


```
grouped_data = grouped_movies.groupby('genre')

# Plot the data
for genre, genre_data in grouped_data:
    plt.plot(genre_data['release_year'],
    genre_data['inflation_adjusted_gross'], label=genre)

# Set up the plot
plt.title('Box Office Revenues of Movies Grouped by Genre and Release Year')
plt.xlabel('Release Year')
plt.ylabel('Adjusted Gross (in millions)')
plt.legend()
plt.show()
```





##From the above line plot, we can see that action genre was growing the fastest. However musical dropped significantly. Thus, disney's movie genre were changing in terms of popularity over the period of time

6.6 lets explore other 2 datasets now

```
[21]:
     director = pd.read_csv("data/disney-director.csv")
[22]:
      director
[22]:
                                                                director
                                              name
      0
                 Snow White and the Seven Dwarfs
                                                              David Hand
                                         Pinocchio
      1
                                                          Ben Sharpsteen
      2
                                          Fantasia
                                                            full credits
      3
                                             Dumbo
                                                          Ben Sharpsteen
      4
                                             Bambi
                                                              David Hand
      5
                                    Saludos Amigos
                                                             Jack Kinney
      6
                             The Three Caballeros
                                                         Norman Ferguson
      7
                                  Make Mine Music
                                                             Jack Kinney
      8
                                                             Jack Kinney
                               Fun and Fancy Free
      9
                                       Melody Time
                                                          Clyde Geronimi
      10
          The Adventures of Ichabod and Mr. Toad
                                                             Jack Kinney
                                        Cinderella
                                                         Wilfred Jackson
      11
      12
                              Alice in Wonderland
                                                          Clyde Geronimi
```

```
13
                                   Peter Pan
                                                    Hamilton Luske
14
                         Lady and the Tramp
                                                    Hamilton Luske
15
                            Sleeping Beauty
                                                    Clyde Geronimi
16
                              101 Dalmatians
                                              Wolfgang Reitherman
17
                     The Sword in the Stone
                                              Wolfgang Reitherman
18
                            The Jungle Book
                                              Wolfgang Reitherman
19
                             The Aristocats
                                              Wolfgang Reitherman
20
                                  Robin Hood
                                              Wolfgang Reitherman
21
    The Many Adventures of Winnie the Pooh
                                              Wolfgang Reitherman
22
                                              Wolfgang Reitherman
                               The Rescuers
23
                      The Fox and the Hound
                                                       Art Stevens
24
                         The Black Cauldron
                                                        Ted Berman
25
                  The Great Mouse Detective
                                                      Ron Clements
26
                           Oliver & Company
                                                   George Scribner
27
                         The Little Mermaid
                                                      Ron Clements
28
                    The Rescuers Down Under
                                                      Mike Gabriel
29
                       Beauty and the Beast
                                                    Gary Trousdale
30
                                     Aladdin
                                                      Ron Clements
31
                              The Lion King
                                                      Roger Allers
32
                                  Pocahontas
                                                      Mike Gabriel
33
                The Hunchback of Notre Dame
                                                    Gary Trousdale
                                    Hercules
34
                                                     Ron Clements
35
                                                        Barry Cook
                                       Mulan
                                                        Chris Buck
36
                                      Tarzan
37
                              Fantasia 2000
                                                      full credits
38
                                    Dinosaur
                                                     Ralph Zondag
                   The Emperor's New Groove
                                                       Mark Dindal
39
40
                  Atlantis: The Lost Empire
                                                    Gary Trousdale
41
                              Lilo & Stitch
                                                     Chris Sanders
42
                            Treasure Planet
                                                     Ron Clements
43
                               Brother Bear
                                                     Robert Walker
44
                          Home on the Range
                                                         Will Finn
45
                             Chicken Little
                                                       Mark Dindal
46
                         Meet the Robinsons
                                              Stephen J. Anderson
                                                    Chris Williams
47
48
                  The Princess and the Frog
                                                      Ron Clements
49
                                     Tangled
                                                      Nathan Greno
50
                            Winnie the Pooh
                                              Stephen J. Anderson
51
                             Wreck-It Ralph
                                                        Rich Moore
52
                                      Frozen
                                                        Chris Buck
53
                                  Big Hero 6
                                                          Don Hall
54
                                    Zootopia
                                                     Byron Howard
55
                                       Moana
                                                      Ron Clements
```

```
[23]: voice = pd.read_csv("data/disney-voice-actors.csv")
```

[24]: voice

```
voice-actor
[24]:
                   character
                                                                             movie
      0
                Abby Mallard
                                     Joan Cusack
                                                                    Chicken Little
      1
              Abigail Gabble
                                    Monica Evans
                                                                    The Aristocats
      2
                    Abis Mal
                                 Jason Alexander
                                                               The Return of Jafar
      3
                                    Frank Welker
                         Abu
                                                                           Aladdin
      4
                    Achilles
                                            None
                                                      The Hunchback of Notre Dame
      . .
                         •••
      930
                        Zeus
                                        Rip Torn
                                                                          Hercules
      931
           Ziggy the Vulture
                                     Digby Wolfe
                                                                   The Jungle Book
      932
                        Zini
                                     Max Casella
                                                                          Dinosaur
      933
                      Zipper
                                    Corey Burton
                                                      Chip 'n Dale Rescue Rangers
      934
                        Zira
                              Suzanne Pleshette The Lion King II: Simba's Pride
      [935 rows x 3 columns]
```

6.7 lets create a function named "merge_dataframes_inner" to merge 2 datsets and merge datasets director and voice in one dataset named voice_director

```
[25]: def merge_dataframes_inner(df1, df2, common_column):
          HHHH
          Merge two DataFrames using an inner join on a common column.
          Parameters
          _____
          df1: DataFrame
            The first DataFrame to be merged.
          df2: DataFrame
            The second DataFrame to be merged.
          common column: str
            The name of the common column to perform the inner join.
          Returns
          merged_df: DataFrame
            The resulting DataFrame after merging the two input DataFrames using an 
       ⇒inner join on the common column.
          Examples
          df1 = pd.DataFrame({
          'ID': [1, 2, 3, 4],
          'Name': ['Alice', 'Bob', 'Charlie', 'David']
      })
          df2 = pd.DataFrame({
          'ID': [3, 4, 5, 6],
```

```
'Age': [25, 30, 22, 28]
      })
          merged_df = pd.merge(df1, df2, on=common_column, how='inner')
          return merged_df
[26]: # Rename the 'name' column in the 'director' dataframe to 'movie' for au
      → consistent column name
      director = director.rename(columns={'name': 'movie'})
      #Calling the function to merge the datasets
      voice_director = merge_dataframes_inner(director, voice, 'movie')
      voice_director
[26]:
                                                 director
                                                                 character
                                      movie
           Snow White and the Seven Dwarfs
                                               David Hand
                                                                  Bashful
      1
           Snow White and the Seven Dwarfs
                                               David Hand
                                                                      Doc
      2
           Snow White and the Seven Dwarfs
                                               David Hand
                                                                     Dopey
           Snow White and the Seven Dwarfs
      3
                                               David Hand
                                                                    Grumpy
           Snow White and the Seven Dwarfs
                                               David Hand
                                                                     Нарру
      637
                                      Moana
                                             Ron Clements
                                                                      Maui
      638
                                      Moana
                                             Ron Clements
                                                           Moana Waialiki
      639
                                      Moana
                                             Ron Clements
                                                                       Pua
      640
                                             Ron Clements
                                      Moana
                                                                   Tamatoa
      641
                                             Ron Clements
                                      Moana
                                                             Tui Waialiki
                voice-actor
      0
             Scotty Mattraw
      1
                 Roy Atwell
      2
              Eddie Collins
      3
               Pinto Colvig
      4
                Otis Harlan
      637
             Dwayne Johnson
            Auli'i Cravalho
      638
      639
                       None
      640
            Jemaine Clement
           Temuera Morrison
      [642 rows x 4 columns]
```

6.8 unit testing

```
[27]: # Helper DataFrames for unit tests
      df1 = pd.DataFrame({
          'ID': [1, 2, 3, 4],
          'Name': ['Alice', 'Bob', 'Charlie', 'David']
      })
      df2 = pd.DataFrame({
          'ID': [3, 4, 5, 6],
          'Age': [25, 30, 22, 28]
      })
      # Unit test 1: Test merging on 'ID'
      merged_result = merge_dataframes_inner(df1, df2, 'ID')
      expected_result = pd.DataFrame({
          'ID': [3, 4],
          'Name': ['Charlie', 'David'],
          'Age': [22, 28]
      })
      merged_result.shape == expected_result.shape
[27]: True
[28]: voice_director.describe()
[28]:
                 movie
                             director
                                         character voice-actor
                   642
                                  642
                                               642
                                                            642
      count
      unique
                    54
                                   29
                                               635
                                                            499
      top
              Zootopia Ron Clements Arthur/Wart
                                                           None
                    22
                                  106
                                                             37
      freq
[29]: voice_director.isnull()
[29]:
           movie director character voice-actor
           False
                                False
                                              False
      0
                     False
           False
      1
                     False
                                False
                                              False
           False
                     False
                                False
                                              False
      3
           False
                     False
                                False
                                              False
           False
                     False
                                False
                                              False
      637 False
                                 False
                                              False
                     False
      638 False
                     False
                                 False
                                              False
                                              False
      639 False
                     False
                                 False
      640 False
                     False
                                 False
                                              False
      641 False
                     False
                                 False
                                              False
```

[30]: voice_director.head()

```
[30]:
                                  movie
                                           director character
                                                                 voice-actor
     O Snow White and the Seven Dwarfs David Hand
                                                     Bashful Scotty Mattraw
     1 Snow White and the Seven Dwarfs David Hand
                                                         Doc
                                                                  Roy Atwell
     2 Snow White and the Seven Dwarfs David Hand
                                                       Dopey
                                                               Eddie Collins
     3 Snow White and the Seven Dwarfs David Hand
                                                                Pinto Colvig
                                                      Grumpy
                                                                 Otis Harlan
     4 Snow White and the Seven Dwarfs David Hand
                                                       Нарру
```

6.9 Lets find out which director wortked with maximum number of voice-actors in their movie

```
[31]: ## using chaining for group by director and then get the unique values for →voice-actors who worked with the director

director_voice_actor_count = voice_director.groupby('director')['voice-actor'].

→nunique().reset_index(name='voice_actor_count')

director_voice_actor_count = director_voice_actor_count.

→sort_values(by='voice_actor_count', ascending=False)

print(director_voice_actor_count)
```

	director	voice_actor_count
22	Ron Clements	92
27	Wolfgang Reitherman	71
10	Gary Trousdale	39
8	David Hand	24
15	Mike Gabriel	24
7	Clyde Geronimi	23
12	Hamilton Luske	22
14	Mark Dindal	21
3	Byron Howard	20
2	Ben Sharpsteen	19
4	Chris Buck	18
19	Rich Moore	17
23	Stephen J. Anderson	16
26	Will Finn	16
1	Barry Cook	16
25	Wilfred Jackson	15
11	George Scribner	14
21	Roger Allers	14
6	Chris Williams	13
24	Ted Berman	12
18	Ralph Zondag	11
5	Chris Sanders	11
0	Art Stevens	10

```
13
             Jack Kinney
                                           10
20
          Robert Walker
                                            7
                                            7
16
           Nathan Greno
28
           full credits
                                            7
                                            2
        Norman Ferguson
17
                Don Hall
                                            1
9
```

6.10 Lets find out the movie which used max numbers of voice artists

```
[32]: movie_voice_actor_count = voice.groupby('movie')['voice-actor'].nunique().

→reset_index(name='voice_actor_count')

movie_voice_actor_count = movie_voice_actor_count.

→sort_values(by='voice_actor_count', ascending=False)

print(movie_voice_actor_count)
```

	movie	voice_actor_count
43	Hercules	22
138	Zootopia	20
34	DuckTales	20
93	The Aristocats	20
14	Beauty and the Beast	19
		•••
86	Steamboat Willie	1
111	The Little Mermaid: Ariel's Beginning	1
112	The Pirate Fairy	1
113	The Plow Boy	1
69	Pete's Dragon	1

[139 rows x 2 columns]

##Who directed the movie with maximum number of voice artists in it? What was the name of the movie and what was the count of voice actor?

6.11 Ques: Find out the name of movie in which maximum number of voice-actors were used? Also find out the count of voice actors and the director who directed that movie?

```
[33]: # Create a new column to count the number of voice actors per movie
voice_director['voice_actor_count'] = voice_director.

→groupby('movie')['voice-actor'].transform('count')

# Filter the dataset to include only the rows of the movie with the maximum_

→number of voice actors

max_voice_actors_movie = voice_director[voice_director['voice_actor_count'] == ___

→voice_director['voice_actor_count'].max()]

# Print the movie details
```

```
print(max_voice_actors_movie[['movie', 'director', 'voice_actor_count']].
      →drop_duplicates())
            movie
                      director voice_actor_count
     382 Hercules Ron Clements
     613 Zootopia Byron Howard
                                              22
     #lets find out top 10 movies
     6.12 using black for improving function
[34]: !black my_functions.py
     All done!
     1 file left unchanged.
[35]: !black test_my_function.py
     reformatted test_my_function.py
     All done!
     1 file reformatted.
     6.13 using pytest
[36]: import pytest
[37]: pytest
[37]: <module 'pytest' from '/opt/conda/lib/python3.8/site-
     packages/pytest/__init__.py'>
[38]: !pytest test_my_function.py
     ======= test session starts
     platform linux -- Python 3.8.5, pytest-6.2.4, py-1.10.0, pluggy-0.13.1
     rootdir: /home/jupyter/prog-python-ds-students/release/final_project
     plugins: anyio-3.2.1, dash-1.20.0
     collected 2 items
     test_my_function.py ...
     [100%]
     ======= 2 passed in 0.79s
     _____
```

6.13.1 Thank you:)

[]:[