MINOR PROJECT PYTHON ASSIGNMENT

BY
AISHWARYA B

1) Which are the movies with the third-lowest and third-highest budget?

Ans:

The third-lowest budget movie name is "Pirates of the Caribbean: At World's End" and the third-highest budget movie name is 'Angus, Thongs and Perfect Snogging'.

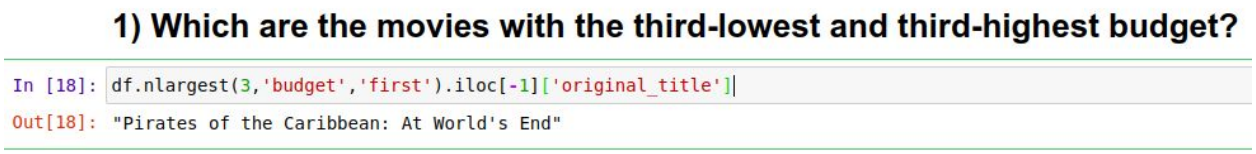

Fig 1) Third-highest budget

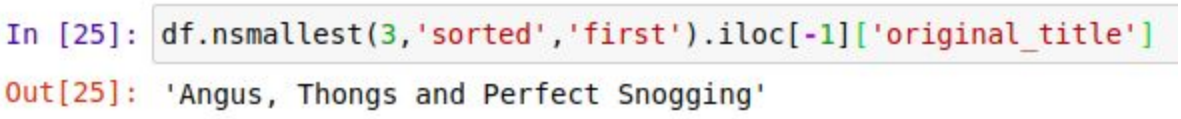

Fig 2) Third-lowest budget

2) What is the average number of words in movie titles between the years 2000-2005?

Ans:

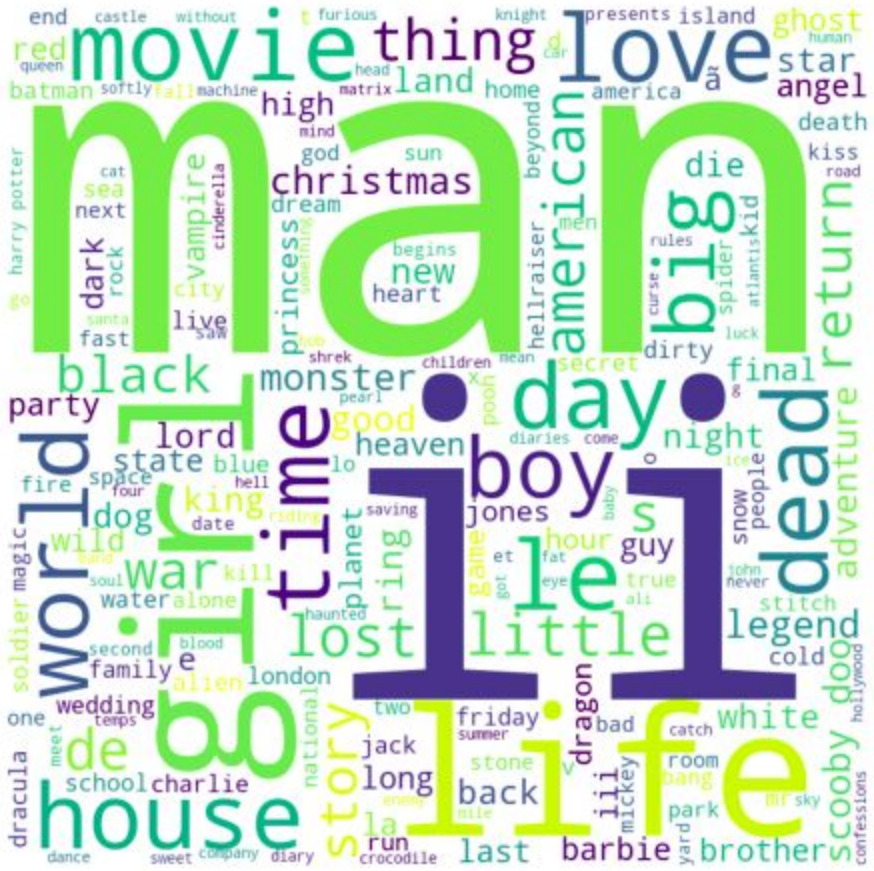

Fig 1) Average number of words in movies between the years 2000 to 2005

3) What is the most common Genre for Vin Diesel & Emma Watson movies?

Ans:

```
In [62]: s = pd.merge(df[(df['actor_flims']=='Vin Diesel')], df[(df['actor_flims']=='Emma Watson')], on='gen')

In [65]: s['gen'].unique()

Out[65]: array(['Drama', 'Comedy'], dtype=object)
```

Fig 1) Most common genre for Vin Diesel & Emma Watson

The most common Genre for Vin Diesel & Emma Watson movies are ‘Drama’ & ‘Comedy’.

4) Which are the movies with the most and least earned revenue?

Ans:

```
4) Which are the movies with the most and least earned revenue?
```

```
In [16]: def find_minmax(x):
             #use the function 'idmin' to find the index of lowest profit movie.
             min_index = df[x].idxmin()
             #use the function 'idmax' to find the index of Highest profit movie.
             high_index = df[x].idxmax()
             high = pd.DataFrame(df.loc[high_index,:])
             low = pd.DataFrame(df.loc[min_index,:])

             #print the movie with high and low profit
             print("Movie Which Has Highest "+ x + " : ",df['original_title'][high_index])
             print("Movie Which Has Lowest "+ x + "  : ",df['original_title'][min_index])
             return pd.concat([high,low],axis = 1)
```

```
In [17]: df['revenue'] = df['revenue'].replace(0,np.NAN)
         find_minmax('revenue')

         Movie Which Has Highest revenue :  Avatar
         Movie Which Has Lowest revenue  :  Shattered Glass
```

Fig 1) Most & least earned revenue of the movies

The movies with the most and least earned revenue are Avatar & Shattered Glass.

5) What is the average runtime of movies in the year 2006?

Ans:

```
5) What is the average runtime of movies in the year 2006?
```

```
In [28]: df[df['release_year']==2006]['runtime'].mean()

Out[28]: 101.68382352941177
```

Fig 1) Average runtime of movies in 2006

The average runtime of movies in the year 2006 is 101.6838.