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EDS ASSIGNMENT 4

```
import pandas as pd
df=pd.read_csv("/content/MOVIES-DATASET.csv")
print(df)
```

```

5039          NaN          319.0    Valorie Curry
5040           0.0           0.0    Maxwell Moody
5041           0.0          489.0    Daniel Henney
5042          16.0          16.0    Brian Herzlinger

   actor_1_facebook_likes  gross  genres \
0          1000.0  760505847.0  Action|Adventure|Fantasy|Sci-Fi
1         40000.0  309404152.0    Action|Adventure|Fantasy
2         11000.0  200074175.0    Action|Adventure|Thriller
3         27000.0  448130642.0    Action|Thriller
4          131.0          NaN    Documentary
...          ...          ...          ...
5038         637.0          NaN    Comedy|Drama
5039         841.0          NaN    Crime|Drama|Mystery|Thriller
5040           0.0          NaN    Drama|Horror|Thriller
5041         946.0      10443.0    Comedy|Drama|Romance
5042          86.0      85222.0    Documentary

   ... num_user_for_reviews  language  country  content_rating  budget \
0   ...          3054.0  English    USA    PG-13  237000000.0
1   ...          1238.0  English    USA    PG-13  300000000.0
2   ...           994.0  English    UK    PG-13  245000000.0
3   ...          2701.0  English    USA    PG-13  250000000.0
4   ...           NaN     NaN     NaN     NaN     NaN
...   ...          ...     ...     ...     ...     ...
5038 ...           6.0  English    Canada    NaN     NaN
5039 ...          359.0  English    USA    TV-14     NaN
5040 ...           3.0  English    USA     NaN    1400.0
5041 ...           9.0  English    USA    PG-13     NaN
5042 ...           84.0  English    USA     PG    1100.0

   title_year  actor_2_facebook_likes  imdb_score  aspect_ratio \
0      2009.0          936.0          7.9          1.78
1      2007.0          500.0          7.1          2.35
2      2015.0          393.0          6.8          2.35
3      2012.0         2300.0          8.5          2.35
4         NaN           12.0          7.1          NaN
...         ...           ...          ...          ...
5038    2013.0          470.0          7.7          NaN
5039         NaN          593.0          7.5         16.00
5040    2013.0           0.0          6.3          NaN
5041    2012.0          719.0          6.3          2.35
5042    2004.0           23.0          6.6          1.85

   movie_facebook_likes
0          33000
1           0
2         85000
3        164000
4           0
...         ...
5038          84
5039        32000
5040          16
5041         660
5042         456
```

[5043 rows x 28 columns]

1 Highest director facebook likes

```
df1=pd.read_csv("/content/MOVIES-DATASET.csv",usecols=['director_facebook_likes'])
print(df1.max())
```

```
director_facebook_likes    23000.0
dtype: float64
```

2 Describe budget

```
df1=pd.read_csv("/content/MOVIES-DATASET.csv",usecols=['budget'])
print(df1.describe())
```

	budget
count	4.551000e+03
mean	3.975262e+07
std	2.061149e+08
min	2.180000e+02
25%	6.000000e+06
50%	2.000000e+07
75%	4.500000e+07
max	1.221550e+10

3 find the mean of number of people voted

```
df1=pd.read_csv("/content/MOVIES-DATASET.csv",usecols=['num_voted_users'])
print(df1.mean())
```

```
num_voted_users    83668.160817
dtype: float64
```

4 Calculate median of number of faces in poste

```
df1=pd.read_csv("/content/MOVIES-DATASET.csv",usecols=['facenumber_in_poster'])
print(df1.median())
```

```
facenumber_in_poster    1.0
dtype: float64
```

5 give minimum number of user for reviews

```
df1=pd.read_csv("/content/MOVIES-DATASET.csv",usecols=['num_user_for_reviews'])
print(df1.min())
```

```
num_user_for_reviews    1.0
dtype: float64
```

6 find number of movies released in USA in the year 2000

```
df2 = df.groupby(['country','title_year']).get_group(('USA',2000)).count()
print(df2['movie_title'])
```

```
136
```

7 Give duplicates of data

```
df.drop_duplicates()
```

	color	director_name	num_critic_for_reviews	duration	director_facebook_likes	actor_3_facebook
0	Color	James Cameron	723.0	178.0	0.0	
1	Color	Gore Verbinski	302.0	169.0	563.0	
2	Color	Sam Mendes	602.0	148.0	0.0	
3	Color	Christopher Nolan	813.0	164.0	22000.0	
4	NaN	Doug Walker	NaN	NaN	131.0	

8 show(drop) the duplicated rows

```
print(df.drop_duplicates())
```

```

5039      NaN      319.0  Valorie Curry
5040      0.0       0.0  Maxwell Moody
5041      0.0     489.0  Daniel Henney
5042     16.0     16.0  Brian Herzlinger

```

```

actor_1_facebook_likes  gross  genres \
0      1000.0  760505847.0  Action|Adventure|Fantasy|Sci-Fi
1     40000.0  309404152.0  Action|Adventure|Fantasy
2     11000.0  200074175.0  Action|Adventure|Thriller
3     27000.0  448130642.0  Action|Thriller
4       131.0      NaN  Documentary
...      ...      ...      ...
5038     637.0      NaN  Comedy|Drama
5039     841.0      NaN  Crime|Drama|Mystery|Thriller
5040       0.0      NaN  Drama|Horror|Thriller
5041     946.0   10443.0  Comedy|Drama|Romance
5042      86.0   85222.0  Documentary

```

```

0      ...  num_user_for_reviews  language  country  content_rating  budget \
1      ...      3054.0  English  USA  PG-13  237000000.0
2      ...      1238.0  English  USA  PG-13  300000000.0
3      ...      994.0  English  UK  PG-13  245000000.0
4      ...      2701.0  English  USA  PG-13  250000000.0
5      ...      NaN  NaN  NaN  NaN  NaN
...      ...      ...      ...      ...      ...
5038 ...      6.0  English  Canada  NaN  NaN
5039 ...      359.0  English  USA  TV-14  NaN
5040 ...      3.0  English  USA  NaN  1400.0
5041 ...      9.0  English  USA  PG-13  NaN
5042 ...      84.0  English  USA  PG  1100.0

```

```

title_year  actor_2_facebook_likes  imdb_score  aspect_ratio \
0      2009.0      936.0      7.9      1.78
1      2007.0     5000.0      7.1      2.35
2      2015.0      393.0      6.8      2.35
3      2012.0     23000.0      8.5      2.35
4      NaN      12.0      7.1      NaN
5038     2013.0      470.0      7.7      NaN
5039     NaN      593.0      7.5     16.00
5040     2013.0       0.0      6.3      NaN
5041     2012.0      719.0      6.3      2.35
5042     2004.0       23.0      6.6      1.85

```

```

movie_facebook_likes
0      33000
1         0
2     85000
3    164000
4         0
5038      84
5039    32000
5040      16
5041     660
5042     456

```

```
[4998 rows x 28 columns]
```

9 give correlation of dat

```

print(df.corr())

```

movie_facebook_likes	0.209786	0.008918
num_critic_for_reviews	0.609387	0.119994
duration	0.328403	0.074276
director_facebook_likes	0.221890	0.021090
actor_3_facebook_likes	0.230189	0.047451
actor_1_facebook_likes	0.145461	0.022639
gross	0.559958	0.102179
num_voted_users	0.798406	0.079621
cast_total_facebook_likes	0.206923	0.036557
facenumber_in_poster	-0.069018	-0.019559
num_user_for_reviews	1.000000	0.084292
budget	0.084292	1.000000
title_year	-0.003147	0.045726
actor_2_facebook_likes	0.219496	0.044236
imdb_score	0.292475	0.030688
aspect_ratio	-0.024719	0.006598
movie_facebook_likes	0.400594	0.062039

actor_2_facebook_likes	imdb_score	aspect_ratio
num_critic_for_reviews	0.282306	0.305303
duration	0.131673	0.261662
director_facebook_likes	0.119601	0.170802
actor_3_facebook_likes	0.559662	0.052633
actor_1_facebook_likes	0.390487	0.076099
gross	0.262768	0.198021
num_voted_users	0.270790	0.410965
cast_total_facebook_likes	0.628404	0.085787
facenumber_in_poster	0.071228	-0.062958
num_user_for_reviews	0.219496	0.292475
budget	0.044236	0.030688
title_year	0.101890	-0.209167
actor_2_facebook_likes	1.000000	0.083808
imdb_score	0.083808	1.000000
aspect_ratio	-0.007783	0.059445
movie_facebook_likes	0.243487	0.247049

movie_facebook_likes
num_critic_for_reviews
duration
director_facebook_likes
actor_3_facebook_likes
actor_1_facebook_likes
gross
num_voted_users
cast_total_facebook_likes
facenumber_in_poster
num_user_for_reviews
budget
title_year
actor_2_facebook_likes
imdb_score
aspect_ratio
movie_facebook_likes

<ipython-input-14-23236a4e6045>:1: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a future version print(df.corr())

finds the covariance of each column the DataFrame.

```

print(df.cov())

```

```

actor_2_facebook_likes    3.500000e+02
imdb_score                -1.425547e-01    1.242147e+02
aspect_ratio              3.764651e-02    -1.316649e+01
movie_facebook_likes      3.449754e+02    2.930653e+06

      budget    title_year  actor_2_facebook_likes \
num_critic_for_reviews    3.057919e+09    4.189583e+02    1.393195e+05
duration                  3.519786e+08    -3.799545e+01    1.340403e+04
director_facebook_likes    1.264972e+10    -2.240632e+03    1.374327e+06
actor_3_facebook_likes     1.703143e+10    2.012353e+03    3.770121e+06
actor_1_facebook_likes     7.278156e+10    1.643128e+04    2.372204e+07
gross                     1.586166e+15    2.103090e+07    7.864260e+10
num_voted_users            2.358584e+12    1.288219e+04    1.517246e+08
cast_total_facebook_likes  1.419869e+11    2.513564e+04    4.618384e+07
facenumber_in_poster      -8.184479e+06    1.544939e+00    5.809123e+02
num_user_for_reviews       6.797551e+09    -1.494898e+01    3.361557e+05
budget                     4.248335e+16    1.176608e+08    3.842339e+10
title_year                 1.176608e+08    1.556156e+02    5.189927e+03
actor_2_facebook_likes     3.842339e+10    5.189927e+03    1.634131e+07
imdb_score                 7.056363e+06    -2.908298e+00    3.809056e+02
aspect_ratio               1.093616e+06    1.589023e+00    -4.426008e+01
movie_facebook_likes       2.566124e+11    5.306848e+04    1.903769e+07

```

```

      imdb_score  aspect_ratio  movie_facebook_likes
num_critic_for_reviews    4.163596e+01    -8.286055e+00    1.611872e+06
duration                  7.407159e+00    -3.094366e+00    9.583554e+04
director_facebook_likes    5.359587e+02    3.741410e+00    8.865869e+06
actor_3_facebook_likes     9.855354e+01    -7.924615e+00    8.987813e+06
actor_1_facebook_likes     1.286045e+03    -4.017976e+02    3.930285e+07
gross                     1.426249e+07    1.671436e+06    5.380181e+11
num_voted_users            6.403329e+04    -2.893018e+03    1.439267e+09
cast_total_facebook_likes  1.753183e+03    -4.406113e+02    7.362066e+07
facenumber_in_poster      -1.425547e-01    3.764651e-02    3.449754e+02
num_user_for_reviews       1.242147e+02    -1.316649e+01    2.930653e+06
budget                     7.056363e+06    1.093616e+06    2.566124e+11
title_year                 -2.908298e+00    1.589023e+00    5.306848e+04
actor_2_facebook_likes     3.809056e+02    -4.426008e+01    1.903769e+07
imdb_score                 1.265886e+00    9.027006e-02    5.370276e+03
aspect_ratio               9.027006e-02    1.918537e+00    7.088611e+02
movie_facebook_likes       5.370276e+03    7.088611e+02    3.732796e+08

```

```

<ipython-input-15-0a12e4c3650a>:1: FutureWarning: The default value of numeric_only in DataFrame.cov is deprecated. In a future vers
print(df.cov())

```

11 convert name of actor_2 column in lowercase

```
print(df['actor_2_name'].str.lower())
```

```

0      joel david moore
1      orlando bloom
2      rory kinnear
3      christian bale
4      rob walker
...
5038    daphne zuniga
5039    valorie curry
5040    maxwell moody
5041    daniel henney
5042    brian herzlinger
Name: actor_2_name, Length: 5043, dtype: object

```

12 sorting the budge

```
sorted_df=df.sort_values(by=["budget"])
print(sorted_df)
```

```

5036      45.0      NaN      Crime|Drama ...
5026      576.0    136007.0    Drama|Music|Romance ...
...      ...      ...      ...
5030      21.0      NaN      Drama ...
5032      789.0      NaN      Crime|Drama ...
5038      637.0      NaN      Comedy|Drama ...
5039      841.0      NaN    Crime|Drama|Mystery|Thriller ...
5041      946.0    10443.0    Comedy|Drama|Romance ...

```

```

num_user_for_reviews language country content_rating budget \
4799      114.0    English    USA      Unrated    218.0
5042      84.0    English    USA      PG    1100.0
5040      3.0    English    USA      NaN    1400.0
5036      1.0    English    USA      PG-13    3250.0
5026      39.0    French    France      R    4500.0
...      ...      ...      ...      ...
5030      3.0    English    USA      NaN    NaN
5032      14.0    English    USA      NaN    NaN
5038      6.0    English    Canada      NaN    NaN
5039      359.0    English    USA      TV-14    NaN
5041      9.0    English    USA      PG-13    NaN

```

```

title_year actor_2_facebook_likes imdb_score aspect_ratio \
4799      2003.0      20.0      7.2      1.37
5042      2004.0      23.0      6.6      1.85
5040      2013.0      0.0      6.3      NaN
5036      2005.0      44.0      7.8      NaN
5026      2004.0      133.0      6.9      2.35
...      ...      ...      ...
5030      2004.0      20.0      6.1      NaN
5032      1995.0      194.0      6.4      NaN
5038      2013.0      470.0      7.7      NaN
5039      NaN      593.0      7.5      16.00
5041      2012.0      719.0      6.3      2.35

```

```

movie_facebook_likes
4799      754
5042      456
5040      16
5036      4
5026      171
...      ...
5030      22
5032      20
5038      84
5039      32000
5041      660

```

[5043 rows x 28 columns]

13 counting the number of black and white movies

```

df3 = df.groupby('color').get_group('Black and White').count()
print(df3['movie_title'])

```

209

14 find the number of movies released in japanese language in the data

```

a=df.groupby('language').get_group('Japanese')
print(a['actor_1_name'])

```

```

98      Mark Chinnery
204      Mark Chinnery
1517     Rumi Hiiragi
1761     Shun Oguri
2047     Christian Bale
2241     Pablo Sevilla
2323     Minnie Driver
2334     William Hootkins
2373     Bunta Sugawara
2863     Yuki Matsuzaki
3012     Takuya Kimura
3020     Tatsuo Matsumura
3423     Mitsuo Iwata
3684     Lindsay Kay Hayward
4064     Veronica Taylor

```

```

4542      Hiroshi Abe
4747      Takashi Shimura
5029      K  ji Yakusho
Name: actor_1_name, dtype: object

```

15 check for missing values in dataframe

```

print(df.isnull().count())

color                5043
director_name        5043
num_critic_for_reviews 5043
duration             5043
director_facebook_likes 5043
actor_3_facebook_likes 5043
actor_2_name         5043
actor_1_facebook_likes 5043
gross               5043
genres              5043
actor_1_name        5043
movie_title         5043
num_voted_users     5043
cast_total_facebook_likes 5043
actor_3_name        5043
facenumber_in_poster 5043
plot_keywords       5043
movie_imdb_link     5043
num_user_for_reviews 5043
language            5043
country             5043
content_rating      5043
budget             5043
title_year          5043
actor_2_facebook_likes 5043
imdb_score          5043
aspect_ratio        5043
movie_facebook_likes 5043
dtype: int64

```

16 Drop rows with missing values

```
print(df.dropna(inplace=True))
```

```
None
```

17 check for missing values in the data

```

print(df.isna())

5027  False      False      False      False
5033  False      False      False      False
5035  False      False      False      False
5042  False      False      False      False

   director_facebook_likes  actor_3_facebook_likes  actor_2_name  \
0                        False                    False          False
1                        False                    False          False
2                        False                    False          False
3                        False                    False          False
500                        False                    False          False
5026                       False                    False          False
5027                       False                    False          False

```



```

3          False False False ...          False
5          False False False ...          False
...
5026       False False False ...          False
5027       False False False ...          False
5033       False False False ...          False
5035       False False False ...          False
5042       False False False ...          False

      language country content_rating budget title_year \
0          False   False          False   False   False
1          False   False          False   False   False
2          False   False          False   False   False
3          False   False          False   False   False
5          False   False          False   False   False
...
5026       False   False          False   False   False
5027       False   False          False   False   False
5033       False   False          False   False   False
5035       False   False          False   False   False
5042       False   False          False   False   False

      actor_2_facebook_likes imdb_score aspect_ratio movie_facebook_likes
0                          False          False          False          False
1                          False          False          False          False
2                          False          False          False          False
3                          False          False          False          False
5                          False          False          False          False
...
5026                      False          False          False          False
5027                      False          False          False          False
5033                      False          False          False          False
5035                      False          False          False          False
5042                      False          False          False          False

[3756 rows x 28 columns]

```

▼ 18 fill missing values with specific value (0)

```
print(df.fillna(0))
```

```

5027          397.0          0.0  Nargess Mamizadeh
5033          291.0          8.0    David Sullivan
5035           0.0          6.0    Peter Marquardt
5042          16.0         16.0    Brian Herzlinger

      actor_1_facebook_likes      gross \
0          1000.0  760505847.0
1         40000.0  309404152.0
2         11000.0  200074175.0
3         27000.0  448130642.0
5           640.0  73058679.0
...
5026          576.0   136007.0
5027           5.0   673780.0
5033          291.0   424760.0
5035          121.0  2040920.0
5042           86.0   85222.0

      genres ... num_user_for_reviews language \
0  Action|Adventure|Fantasy|Sci-Fi ...      3054.0  English

```

```

5035      USA      K      7000.0      1992.0      20.0
5042      USA      PG     1100.0      2004.0      23.0

imdb_score aspect_ratio movie_facebook_likes
0          7.9          1.78          33000
1          7.1          2.35           0
2          6.8          2.35         85000
3          8.5          2.35        164000
5          6.6          2.35        24000
...      ...      ...      ...
5026      6.9          2.35          171
5027      7.5          1.85          697
5033      7.0          1.85        19000
5035      6.9          1.37           0
5042      6.6          1.85          456

```

[3756 rows x 28 columns]

19 show the actor_1_facebook_likes which are greater than 100000 (filter rows based on a condition)

```
print(df[df['actor_1_facebook_likes']>100000])
```

```

color      director_name  num_critic_for_reviews  duration \
1223  Color      David R. Ellis          221.0      82.0
1902  Color      Adam McKay          181.0      98.0
2269  Color      Nimród Antal          107.0      88.0
2939  Color      John Erick Dowdle          198.0      89.0
4592  Color      Johnny Remo           2.0      112.0

director_facebook_likes  actor_3_facebook_likes  actor_2_name \
1223          160.0          748.0  Andrew Fiscella
1902          285.0          7000.0  Will Ferrell
2269          190.0          163.0  Fred Ward
2939           66.0          1000.0  Jay Hernandez
4592           74.0          891.0  Randy Wayne

actor_1_facebook_likes  gross  genres ... \
1223          164000.0  66466372.0  Horror ...
1902          640000.0  84136909.0  Comedy ...
2269          137000.0  15988876.0  Action|Crime|Thriller ...
2939          137000.0  31691811.0  Horror|Sci-Fi|Thriller ...
4592          260000.0   96734.0  Action|Drama ...

num_user_for_reviews  language  country  content_rating  budget \
1223          290.0  English  USA      R  40000000.0
1902          577.0  English  USA      PG-13  26000000.0
2269          110.0  English  USA      PG-13  27000000.0
2939          369.0  English  USA      R  12000000.0
4592           5.0  English  USA      PG-13  1000000.0

title_year  actor_2_facebook_likes  imdb_score  aspect_ratio \
1223      2009.0          137000.0          5.2          2.35
1902      2004.0           8000.0          7.2          1.85
2269      2009.0           459.0          5.7          2.35
2939      2008.0          1000.0          6.0          1.85
4592      2012.0           984.0          5.6          1.85

movie_facebook_likes
1223           0
1902           0
2269           0
2939           0
4592          706

```

[5 rows x 28 columns]

20 count the number of movies released in particular country (count the occurrences of each unique country in a column)

```
print(df['country'].value_counts())
```

```

USA      2987
UK        318

```

```

France      101
Germany     80
Canada      59
Australia   39
Spain       21
Japan       15
Hong Kong   13
China       13
Italy       11
New Zealand 11
South Korea  8
Denmark     8
Ireland     7
Mexico      6
Brazil      5
India       5
Iran        4
Thailand    4
Norway      4
Russia      3
Argentina   3
Netherlands 3
South Africa 3
Czech Republic 3
Hungary     2
Taiwan      2
Romania     2
Finland     1
Indonesia   1
Israel      1
Poland      1
Colombia    1
New Line    1
Iceland     1
Aruba       1
Peru        1
Belgium     1
Georgia     1
West Germany 1
Chile       1
Official site 1
Greece      1
Afghanistan 1
Name: country, dtype: int64

```

▼ 21 check missing values in data frame

```
print(df.isnull())
```

```

5027  False      False      False      False
5033  False      False      False      False
5035  False      False      False      False
5042  False      False      False      False

   director_facebook_likes  actor_3_facebook_likes  actor_2_name \
0                        False                    False        False
1                        False                    False        False
2                        False                    False        False
3                        False                    False        False
...                      ...                      ...
5026                      False                    False        False
5027                      False                    False        False
5033                      False                    False        False
5035                      False                    False        False
5042                      False                    False        False

   actor_1_facebook_likes  gross  genres  ...  num_user_for_reviews \
0                        False  False  False  ...                    False
1                        False  False  False  ...                    False
2                        False  False  False  ...                    False
3                        False  False  False  ...                    False

```

	language	country	content_rating	budget	title_year	\
0	False	False	False	False	False	
1	False	False	False	False	False	
2	False	False	False	False	False	
3	False	False	False	False	False	
5	False	False	False	False	False	
...	
5026	False	False	False	False	False	
5027	False	False	False	False	False	
5033	False	False	False	False	False	
5035	False	False	False	False	False	
5042	False	False	False	False	False	

	actor_2_facebook_likes	imdb_score	aspect_ratio	movie_facebook_likes
0	False	False	False	False
1	False	False	False	False
2	False	False	False	False
3	False	False	False	False
5	False	False	False	False
...
5026	False	False	False	False
5027	False	False	False	False
5033	False	False	False	False
5035	False	False	False	False
5042	False	False	False	False

[3756 rows x 28 columns]

▼ 22 fill null vale with the column mean

```
print(df.fillna(df.mean()))
```

5042	16.0	16.0	Brian Herzlinger
------	------	------	------------------

	actor_1_facebook_likes	gross	\
0	1000.0	760505847.0	
1	40000.0	309404152.0	
2	11000.0	200074175.0	
3	27000.0	448130642.0	
5	640.0	73058679.0	
...	
5026	576.0	136007.0	
5027	5.0	673780.0	
5033	291.0	424760.0	
5035	121.0	2040920.0	
5042	86.0	85222.0	

	genres	... num_user_for_reviews	language	\
0	Action Adventure Fantasy Sci-Fi	3054.0	English	
1	Action Adventure Fantasy	1238.0	English	
2	Action Adventure Thriller	994.0	English	
3	Action Thriller	2701.0	English	
5	Action Adventure Sci-Fi	738.0	English	
...	
5026	Drama Music Romance	39.0	French	
5027	Drama	26.0	Persian	
5033	Drama Sci-Fi Thriller	371.0	English	

```

5027      7.0      1.85      19000
5033      7.0      1.85      19000
5035      6.9      1.37      0
5042      6.6      1.85      456

```

```
[3756 rows x 28 columns]
```

```

<ipython-input-28-3f8c17285f79>:1: FutureWarning: The default value of numeric_only in DataFrame.mean is deprecated. In a future ver
print(df.fillna(df.mean()))

```

23 display the record of first 10 movies

```
print(df.iloc[1:10])
```

```

10      0.0      2000.0      Lauren Cohan

   actor_1_facebook_likes  gross \
1      40000.0  309404152.0
2      11000.0  200074175.0
3      27000.0  448130642.0
5       640.0   73058679.0
6      24000.0  336530303.0
7       799.0  200807262.0
8      26000.0  458991599.0
9      25000.0  301956980.0
10     15000.0  330249062.0

   genres ... \
1      Action|Adventure|Fantasy ...
2      Action|Adventure|Thriller ...
3      Action|Thriller ...
5      Action|Adventure|Sci-Fi ...
6      Action|Adventure|Romance ...
7      Adventure|Animation|Comedy|Family|Fantasy|Musi... ...
8      Action|Adventure|Sci-Fi ...
9      Adventure|Family|Fantasy|Mystery ...
10     Action|Adventure|Sci-Fi ...

   num_user_for_reviews  language  country  content_rating  budget \
1      1238.0  English  USA  PG-13  300000000.0
2       994.0  English  UK  PG-13  245000000.0
3      2701.0  English  USA  PG-13  250000000.0
5       738.0  English  USA  PG-13  263700000.0
6      1902.0  English  USA  PG-13  258000000.0
7       387.0  English  USA  PG  260000000.0
8      1117.0  English  USA  PG-13  250000000.0
9       973.0  English  UK  PG  250000000.0
10     3018.0  English  USA  PG-13  250000000.0

   title_year  actor_2_facebook_likes  imdb_score  aspect_ratio \
1      2007.0      5000.0      7.1      2.35
2      2015.0      393.0      6.8      2.35
3      2012.0     23000.0      8.5      2.35
5      2012.0      632.0      6.6      2.35
6      2007.0     11000.0      6.2      2.35
7      2010.0      553.0      7.8      1.85
8      2015.0     21000.0      7.5      2.35
9      2009.0     11000.0      7.5      2.35
10     2016.0      4000.0      6.9      2.35

   movie_facebook_likes
1      0
2      85000
3     164000
5     24000
6      0
7     29000
8     118000
9     10000
10    197000

```

```
[9 rows x 28 columns]
```

✓ 0s completed at 5:08 AM

● ×