Title.basics.tsv

This dataset column titleType contains following values

```
df.titleType.value_counts()
tvEpisode
                3953453
                 671435
short
movie
                 514140
video
                 225403
                 161535
tvSeries
tvMovie
                126081
tvMiniSeries
                  25283
                  23157
videoGame
tvSpecial
                  16843
tvShort
                  9111
Name: titleType, dtype: int64
```

• We clubbed above values into episode, movie and series.

Movie dataframe

Series dataset

```
dfSeries = df[(df["titleType"] == "tvSeries") | (df["titleType"] == "tvMiniSeries")]
dfSeries["titleType"] = "series"
```

Episode dataset

```
dfEpisode = df[(df["titleType"]== "tvEpisode")]
dfEpisode['titleType'] = 'episode'
...
```

Merge episode, series, movie

```
dfBasicsNew = pd.concat([dfMovie, dfSeries, dfEpisode], ignore_index=True)
dfBasicsNew.head()
```

So there are now 3 titleType values present in dataset

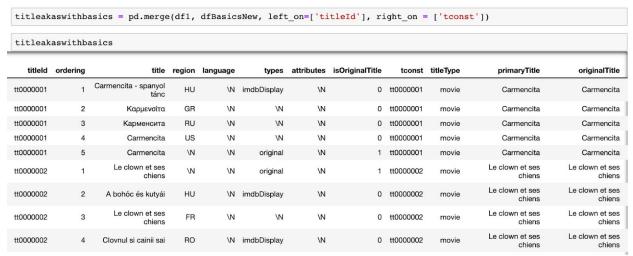
```
dfBasicsNew.titleType.value_counts()

episode 3953453
movie 1320767
series 186818
Name: titleType, dtype: int64
```

 After that we merged this dataset with ratings dataset such that titles will get rating and votes count information.

Title.akas.tsv

 We merged this dataset with Title.basics.tsv so that we can get information of titles according to different regions and their languages of each movie, series and episode



 Then we segregated this whole dataset by movie, series and episode titleTypes datasets.

Title.episode.tsv

 As we already have information about episodes from title.basics dataset, we merge this dataset with title.basics



Name.basics.tsv

• As this dataset contains information of people and their profession in the movie, it also contains multivalued column named primary Profession. We solved this problem by converting those values into equivalent number of rows.

```
In [27]: df4["primaryProfession"].replace(np.nan, "None", inplace = True)
           df42 = pd.DataFrame(df4.primaryProfession.str.split(',')
                                                            .tolist(), index=df4.nconst).stack()
           df42 = df42.reset_index()[['nconst', 0]]
           df42.rename(columns = {0: 'primaryProfession'}, inplace=True)
In [28]: df4_notNone = df4[df4["primaryProfession"] != "None"]
In [29]: df4_final = pd.merge(df4_notNone, df42, left_on=['nconst'], right_on = ['nconst'])
           df4_final.drop(columns = ["primaryProfession_x"], axis = True, inplace=True)
           df4_final.rename(columns = {"primaryProfession_y": 'primaryProfession'}, inplace=True)
In [30]: df4_final
Out[301:
                                                                                                            primaryProfession
                         nconst
                                       primaryName birthYear deathYear
                                                                                           knownForTitles
                  0 nm0000001
                                         Fred Astaire
                                                                 1987
                                                                       tt0043044,tt0053137,tt0050419,tt0072308
                                                       1899
                                                                                                                  soundtrack
                   1 nm0000001
                                         Fred Astaire
                                                       1899
                                                                 1987 tt0043044,tt0053137,tt0050419,tt0072308
                                                                                                                       actor
                  2 nm0000001
                                         Fred Astaire
                                                       1899
                                                                 1987
                                                                       tt0043044.tt0053137.tt0050419.tt0072308
                                                                                                                miscellaneous
                   3 nm0000002
                                        Lauren Bacall
                                                       1924
                                                                 2014 tt0038355,tt0071877,tt0117057,tt0037382
                  4 nm0000002
                                        Lauren Bacall
                                                       1924
                                                                 2014 tt0038355.tt0071877.tt0117057.tt0037382
                                                                                                                   soundtrack
                   5 nm0000003
                                       Brigitte Bardot
                                                       1934
                                                                   \N tt0059956,tt0049189,tt0054452,tt0057345
                                                                                                                      actress
                  6 nm0000003
                                       Brigitte Bardot
                                                                   \N tt0059956.tt0049189.tt0054452.tt0057345
                                                       1934
                                                                                                                   soundtrack
                   7 nm0000003
                                       Brigitte Bardot
                                                                   \N tt0059956,tt0049189,tt0054452,tt0057345
                                                       1934
                                                                                                                    producer
                  8 nm0000004
                                        John Belushi
                                                       1949
                                                                 1982 #0077975 #0078723 #0080455 #0072562
                                                                                                                       actor
                   9 nm0000004
                                        John Belushi
                                                       1949
                                                                 1982 tt0077975.tt0078723.tt0080455.tt0072562
                                                                                                                       writer
                  10 nm0000004
                                        John Belushi
                                                        1949
                                                                 1982 tt0077975.tt0078723.tt0080455.tt0072562
                                                                                                                   soundtrack
                  11 nm0000005
                                     Ingmar Bergman
                                                                 2007 tt0083922.tt0050976.tt0069467.tt0050986
                                                                                                                       writer
```

• Using this information, we created 3 entities viz. actor(which contains actor and actress information), writer and director.

Title.principals.tsv

• We first merged this dataset with datasets we created, containing movie, series and episode information.

Principals Dataset

• Then, we segregated this new dataset according to the title type and got 3 datasets individually containing principal information of movies, series and episode.

For Movies

For movies

For Series and by extension and their episodes

For series

Title.crew.tsv

 In this dataset, both directors and writers columns contains multi value cells. So we generated number of rows according to their multiple values. We also removed null values.

df2_writers1

	tconst	directors	writers
8	tt0000009	nm0085156	nm0085156
34	tt0000036	nm0005690	nm0410331
74	tt0000076	nm0005690	nm0410331
89	tt0000091	nm0617588	nm0617588
106	tt0000108	nm0005690	nm0410331
107	tt0000109	nm0005690	nm0410331
108	tt0000110	nm0005690	nm0410331
109	tt0000111	nm0005690	nm0410331
110	tt0000112	nm0005690	nm0410331
111	tt0000113	nm0005690	nm0410331
130	tt0000132	nm0617588	nm0617588
136	tt0000138	nm0617588	nm0617588