3460:489/589 Platforms for Big Data Programming Project #1: (50 pts)

Problems:

Use the MovieLens data sets to generate the following analytics results:

1. (10 pts) Show total number of rows with missing values (after join all files), and remove those rows from the DataFrame.

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2. (5 pts) Show

total number of movies, total number of genres, total number of users, total number of ratings.

- 3. (20 pts) Plot the historgrams for number of ratings per user, number of movies per year, number of movies per genra, average ratings per movie, average ratings per genra.
- 4. (15 pts)
 - (1) Show the number of users whose number of ratings are greater or equal to the median of the number of ratings,
 - (2) Show the top ten movies with title and genres rated by each user from (1),
 - (3) Show the average rating per genra for each user from (1)

Submission:

Name your source file as p1_xxxx.py, where xxxx is the last four digits of your UA ID. Submit your source file to the Brightspace by midnight of due day.