Request you to go through and attempt the following take-home assignment:

**Assignment:**

Download the movie lens dataset from the following link:

<https://grouplens.org/datasets/movielens/100k/>

Go through the README.txt to understand what is included in the dataset.

This is a popular dataset which is used in teaching ML courses. So you will find python/SQL codes online to read and import the dataset into usable formats such as a Relational database or in python pandas.

Write codes in using Python/SQL to answer the following:

* 1. How many of the users are artists? How many of the users are artists at least 25 years old?
  2. Movies are rated on a 1-5 scale. What is the average movie rating? What is the average rating given for movie id #1? For movie id #2? What are those movies?
  3. What is the gender and zip code of the user who rated the most movies?
  4. **Open Ended Question**:- Assume that you are hired by a major Hollywood movie studio. Figure out an interesting use of the movielens dataset. What interesting stories using the data in movielens dataset you would like to tell a studio executive?