Chapter 2 – The Grunt shell

Exercise

1. This exercise uses the MovieLens data set. This is a free data set provided by the University of Minnesota's GroupLens Research Group, and contains over one million movie ratings. For more information, please see the license information at the end of this exercise.

   If you haven't already done so, extract the data from the MovieLens data set:
   ```
   $ tar xvzf ml-data.tar.gz
   ```
   Look at the `README` file in the `ml-data` directory.

2. In a terminal, invoke the Grunt shell:
   ```
   $ pig
   ```

3. In the Grunt shell, ask for help.

4. Use `copyFromLocal` to copy these files into Hadoop's Distributed File System (put them in `/user/training` with their original file names):
   ```
   /home/training/ml-data/u.data
   /home/training/ml-data/u.item
   /home/training/ml-data/u.user
   /home/training/ml-data/u.info
   ```

5. Use `ls` to verify the file is in HDFS.

6. Use `cat` to look at `u.info`

7. Use `quit` to exit the Grunt shell.

8. In the terminal, use `pig -e` to list the files in HDFS.