BDMH Assignment 1

Maximum Marks: 20

Plagiarism: All submitted codes are expected to be the result of your individual effort. You should never misrepresent someone else's work as your own. In case any plagiarism is detected you will get one grade reduction in the final examination. Cite the resource wherever using other's work.

Instructions:

1) Student need to create/develop a Docker-based container and maintain the container at hub.docker.com like https://hub.docker.com/r/raghavagps/gpsrdocker. All work should be done in container, we will evaluate assignment in container. User should submit instructions to use container and scripts so TAs can evaluate assignment.

2) Mention your group number, roll numbers and name at the start of each file. Write a clean code with proper comments at appropriate places as it will be checked.

3) Store each problem with rollno_questionX.py where X is the question no. and upload a zip folder with rollno_name_assignmentX.zip containing all the codes. Codes won't be checked if they don't follow the guidelines.

4) You all need to submit only zipped files. RAR files or file with any other extension will not be evaluated.

5) Name of docker container (group_rollnos_names_A1) on docker hub. We pull your docker container to evaluate Assignment 1.

6) We will provide table to each group/student; create database using different DBMS systems

Attempt all questions, each question carries equal marks

Link for the dataset:

You can download the data from the given link

https://drive.google.com/drive/u/0/folders/1xvzFwvwqRPUf41J85BncpJgemgD8Bs-R

Q 1: Create a database name mydb in MySQL and save above table in mydb; show application of 4 mysql commands.

Q 2: Create a database name mgdb in MongoDB and save above table in mgdb; show application of 4 MongoDB commands.

Q 3: Create a database name hdb in HDFS of Hadoop and save above data in HDFS; show application of 4 HDFS commands.

Q 4: Write python program to convert above table into JSON format