Docker Assignment – 2

Step:1

Logic to Solve the assignment:

First I thought to take ubuntu image and install mysql in it and then create user and all. But that process took 2 days and nothing came in output.

So I decided to use mysql image. Learned about it from google to set ENV variables and .sql file that gest initialized while starting the mysql container. The
“ .sh .sql .sq.gz “ get executed first that are in the “docker-entrypoint-initdb.d”.
So decided to copy .sql file in “docker-entrypoint-initdb.d”.

Step:2

Explaination of Dockerfile

FROM mysql:latest => This is used to fetch the latest image of mysql from docker hub.

LABEL maintainer = "Kalyani Vetal- 18161" => To set the author field of the docker image

ENV MYSQL_ROOT_PASSWORD=root => while initializing the entrypoint-init.d it will set the root password of mysql container as ‘root’

Similarly for ENV MYSQL_USER=pucsd => creating a mysql user pucsd while setting the database properties

ENV MYSQL_PASSWORD=pucsd => to set the password for the pucsd user as password=(‘pucsd’)

ENV MYSQL_DATABASE=pucsdStudents => creating database pucsdStudents

COPY database.sql ./docker-entrypoint-initdb.d => to copy the database.sql file to the docker-entrypoint-initdb.d in this dir “docker-entrypoint-initdb.d” the all files with “.sh” , “.sql”, ”.sql.gz” get executed first while starting the service.

EXPOSE 3306 => Mapping of the mysql port on docker container with host machine and start the container on port 3306.

You need to stop mysql service on host machine before doing this.