**Files for Building Image**

Please find the following dockerfile script

**DockerFile:**

# Use the official MySQL image from the Docker Hub

FROM mysql:latest

# Set environment variables for MySQL

ENV MYSQL\_DATABASE=project\_medical\_data\_history

ENV MYSQL\_ROOT\_PASSWORD=root

# Copy the SQL scripts and custom sql script into the container

COPY ./SQLScripts/ /docker-entrypoint-initdb.d/

COPY ./MedicalHistoryTaskQueries.sql /MedicalHistoryTaskQueries.sql

# Make the sql script executable

RUN chmod +x /MedicalHistoryTaskQueries.sql

# Expose the MySQL port

EXPOSE 3306

# Run the MySQL server

CMD ["mysqld"]

In the SQLScripts directory, I have the following files

1.project\_medical\_data\_history\_admissions.sql

2.project\_medical\_data\_history\_patients.sql

3.project\_medical\_data\_history\_doctors.sql

4.project\_medical\_data\_history\_province\_names.sql and

MedicalHistoryTaskQueries.sql (located in the main Directory) have all the select statements and update statements as per task 2 in PRCE-001 Medical Data History.

**Steps to Build and Run the Image:**

* Build the image:

**docker build -t <ImageName>:<Tag> .**

* Run the container using that image:

**docker run --name <ContainerName> -e MYSQL\_ROOT\_PASSWORD=root -d <ImageID>**

* Interact with the running container:

**Docker exec -it <ContainerID> bash**

* Inside the Container Bash Shell, connect to MYSQL:

**mysql -uroot -p -A**

When it asks your password, enter root.

* Show databases:

**SHOW DATABASES**;

This command shows your database (project\_medical\_data\_history)

* Use the database:

**USE project\_medical\_data\_history;**

* Source the MedicalHistoryTaskQueries.sql

**Source MedicalHistoryTaskQueries.sql;**

By running this command it displays all the select statements outputs.