[CS200]-STNT II Fall 2020-21

## Assignment: IV

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## 1.1 1A

# Derived from official mysql image (our base image)
FROM mysql
ENV MYSQL\_DATABASE User
# All scripts in docker-entrypoint-initdb.d/ are automatically
# executed during container startup
COPY . /docker-entrypoint-initdb.d/
MYSQL\_DATABASE is used in passing the arguments while creating the required data base

```
C:\Users\shubham gupta\Desktop>docker build -t my-mysql .

[+] Building 109.6s (7/7) FINISHED

=> [internal] load build definition from Dockerfile

=> => transferring dockerfile: 2688

=> [internal] load .dockerignore

=> >> transferring context: 28

=> [internal] load metadata for docker.io/library/mysql:latest

=> [internal] load build context

=> >> transferring context: 20.98kB

=> CACHED [1/2] FROM docker.io/library/mysql

=> [2/2] COPY . /docker-entrypoint-initdb.d/

=> exporting to image

=> >> exporting layers

=> >> writing image sha256:171ffc7ee9038017c2e5915f3bf438bc6732d96de2fa1fbe95f5e3cfb99e48cb

=> => naming to docker.io/library/my-mysql

C:\Users\shubham gupta\Desktop>_
```

```
In the working directory that we have created create a folder and write the following content in .sql file CREATE DATABASE User;
CREATE TABLE dbo.MyUser
(
id bigint IDENTITY(1,1) PRIMARY KEY,
name varchar(500) null
)
Now execute the database using docker exec -it my -mysql
```

Lecture 1 1-2

```
.
Users\shubham gupta\Desktop>docker exec -it my-mysql bash
 oot@aef2c5d82683:/# mysql -uroot -p
Cotwaer2c3us2us2y may 34.

Sinter password:

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 11

Server version: 8.0.22 MySQL Community Server - GPL
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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
vsql> show databases:
 Database
 information\_schema
 performance_schema
 rows in set (0.00 sec)
nysql> use User;
Database changed
nysql> CREATE TABLE MyUser (id bigint PRIMARY KEY,name varchar(500) NULL);
Query OK, 0 rows affected (0.93 sec)
 ysql> show tables;
 Tables_in_User |
 MyUser
nysql> INSERT INTO MyUser (id, name) VALUES (11941140, "shubham gupta");
Query OK, 1 row affected (0.26 sec)
```

```
sal> SELECT * EROM MyUser
  11941140 | shubham gupta |
vsal> show tables:
 Tables_in_User
nvsal> exit
 oot@aef2c5d82683:/# exit
xit
C:\Users\shubham_gupta\Desktop>docker_commit_shubham11941140
sha256:8a39ff604422777cfb84ba2026c74733a5a5e99c88579bd9cbb05a168e50dd97
 :\Users\shubham gupta\Desktop>docker tag 8a39ff604422777cfb84ba2026c74733a5a5e99c88579bd9cbb05a168e50dd97 q1test2shubham
 :\Users\shubham gupta\Desktop>docker images
                                                                                        IMAGE ID
8a39ff604422
171ffc7ee903
EPOSITORY
                                                                                                                       CREATED
                                                                                                                       40 seconds ago
31 minutes ago
54 minutes ago
24 hours ago
24 hours ago
                                                       latest
latest
                                                                                                                                                      545MB
2.54GB
2.54GB
545MB
545MB
 y-mysql
יים ייין פיקב
Shubhamgupta11941140/cs200q1docker
custom_shubhamgupta
                                                       <none>
custom_shubhamgupta
latest
                                                                                         d2055a2480aa
                                                                                        e1441579fdbe
e1441579fdbe
                                                                                        dd7265748b5d
a8b6c5c0eb62
bf756fb1ae65
                                                                                                                       6 days ago
5 weeks ago
10 months ago
 /sql
lpine/git
                                                       latest
latest
                                                                                                                                                      545MB
                                                                                                                                                      28.4MB
13.3kB
ello-world
                                                       latest
```

Lastly save the container as a new image and push it to your own Docker repository

Lecture 1 1-3

```
:\Users\shubham gupta\Desktop>docker login
Authenticating with existing credentials...
.ogin Succeeded
    :\Users\shubham gupta\Desktop>docker tag q1test2shubham shubhamgupta11941<u>140/q1try:q1test2shubham</u>
C:\Users\shubham gupta\Desktop>docker push shubhamgupta11941140/q1try:q1test2shubham The push refers to repository [docker.io/shubhamgupta11941140/q1try] 96463a43923c: Mounted from shubhamgupta11941140/cs200q1docker b4b078c72dbb: Mounted from shubhamgupta11941140/cs200q1docker a84df125760c: Mounted from shubhamgupta11941140/cs200q1docker a68528a82320: Mounted from shubhamgupta11941140/cs200q1docker 9390c6bf0802: Mounted from shubhamgupta11941140/cs200q1docker 9390c6bf0802: Mounted from shubhamgupta11941140/cs200q1docker
 2172a8cf5620: Mounted from shubhamgupta11941140/cs200q1docker
ccc9d99589b0: Mounted from shubhamgupta11941140/cs200q1docker
ccc9d99589b0: Mounted from shubhamgupta11941140/cs200q1docker
21855dc9d111: Mounted from shubhamgupta11941140/cs200q1docker
954ae77d425d: Mounted from shubhamgupta11941140/cs200q1docker
5a04f2c11114: Mounted from shubhamgupta11941140/cs200q1docker
0cfb425b2248: Mounted from shubhamgupta11941140/cs200q1docker
92266a3c960d: Mounted from shubhamgupta11941140/cs200q1docker
f5600c6330da: Mounted from shubhamgupta11941140/cs200q1docker
f5600c6330da: Mounted from shubhamgupta11941140/cs200q1docker
q1test2shubham: digest: sha256:84776bdd78ef7bdeafca4f04191985d42f6a01e23a47714f566989b52af5e3b8 size: 3035
  C:\Users\shubham gupta\Desktop>docker images
                                                                                                                                                           IMAGE ID
 REPOSITORY
                                                                                                                                                         8a39ff604422
8a39ff604422
                                                                                                                                                                                                              4 minutes ago
4 minutes ago
                                                                                                                                                                                                                                                                   545MB
545MB
 a1test2shubham
                                                                                                 latest
 shubhamgupta11941140/q1try
                                                                                                 q1test2shubham
                                                                                                                                                           171ffc7ee903
                                                                                                                                                                                                                36 minutes ago
                                                                                                                                                                                                                                                                   2.54GB
2.54GB
545MB
 {\sf my-mysq1}
                                                                                                                                                          d2055a2480aa
                                                                                                                                                                                                              59 minutes ago
24 hours ago
                                                                                                 <none>
   shubhamgupta11941140/cs200q1docker
                                                                                                 custom_shubhamgupta
                                                                                                                                                                                                              24 hours ago
6 days ago
5 weeks ago
                                                                                                 latest
latest
                                                                                                                                                         e1441579fdbe
dd7265748b5d
                                                                                                                                                                                                                                                                   545MB
545MB
   custom_shubhamgupta
  nysql
                                                                                                                                                         a8b6c5c0eb62
bf756fb1ae65
 alpine/git
  hello-world
                                                                                                                                                                                                                                                                    13.3kB
                                                                                                 latest
                                                                                                                                                                                                              10 months ago
C:\Users\shubham gupta\Desktop>docker pull shubhamgupta11941140/q1try:q1test2shubham
q1test2shubham: Pulling from shubhamgupta11941140/q1try
Digest: sha256:84776bdd78ef7bdeafca4f04191985d42f6a01e23a47714f566989b52af5e3b8
Status: Image is up to date for shubhamgupta11941140/q1try:q1test2shubham
docker.io/shubhamgupta11941140/q1try:q1test2shubham
```