Name: Nitya Patel	Course: INFO 5100
Submitted to: Prof. Omar Badreldin	Lab 6: Containerization using Docker

- Create a docker file and build and deploy and image of any project repo (convert any random project to Dockerfile and build image)

- Install MySQL database server in Docker or Docker Desktop.

Docker Desktop — Containers

Containers   Give feedback

Container CPU usage ⓘ
0.00% / 800% (8 cores allocated)

Container memory usage ⓘ
21.34MB / 3.63GB

Show charts ⌄

Search

Only show running containers

	Name	Image	Status	CPU (%)	Port(s)	Last started	Actions
☐	node_container ba17450a38b1	node:1	Running	0%	3000:3000 ↗	30 minutes ago	■ ⋮ 🗑
☐	my-mysql 873c5dbf981f	mysql/mysql-server:5.7	Running	0%	3307:3306 ↗	3 seconds ago	■ ⋮ 🗑

Showing 2 items

Walkthroughs   ✕

What is a container?
5 mins

How do I run a container?
6 mins

View more in the Learning center

Engine running   RAM 3.34 GB   CPU 25.50%   Not signed in   v4.24.2

VS Code — Dockerfile / Terminal

```
1
   Comment Code
2  FROM node:18-alpine
   Comment Code
3  WORKDIR /app
   Comment Code
4  COPY . .
   Comment Code
5  RUN yarn install --production
   Comment Code
6  EXPOSE 3000
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS   SEARCH TERMINAL OUTPUT   COMMENTS

```
PS D:\Nitya\Study\Northeastern University\Semester 1\INFO5100\Docker> docker exec -it my-mysql /bin/bash
bash-4.2# mysql -uroot -p -A
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 5.7.41 MySQL Community Server (GPL)

Copyright (c) 2000, 2023, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> select user,host from mysql.user;
+---------------+-----------+
| user          | host      |
+---------------+-----------+
| healthchecker | localhost |
| mysql.session | localhost |
| mysql.sys     | localhost |
| root          | localhost |
+---------------+-----------+
4 rows in set (0.02 sec)

mysql>
```