dock<https://www.youtube.com/watch?v=VcFnqQarpjI>

<https://www.youtube.com/watch?v=p1dwLKAxUxA&list=PLy_6D98if3ULEtXtNSY_2qN21VCKgoQAE>

<https://www.youtube.com/watch?v=VcFnqQarpjI&list=PLy_6D98if3ULEtXtNSY_2qN21VCKgoQAE>

**How to create docker image for golang**

1. Run docker
2. Run powershell as admin

<https://stackoverflow.com/questions/64985913/failed-to-solve-with-frontend-dockerfile>

**Container and images**

Container and images are different things. Images are like, hmm, the specific programme/ide?

Containers are the thing that runs the images

Docker rm (remove container using image)

Docker rmi – remove the image

Docker

**Docker build command build docker images from a docker file and a context**

docker build -t simplebank:latest .

**Docker run command creates running containers from images and can run commands inside**

**Them**

docker run --name simplebank -p 8080:8080 simplebank:latest

# Docker SQL image container set up

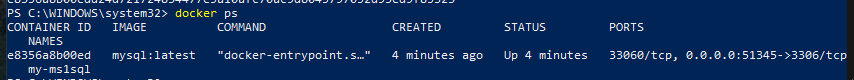
For this section, the instructions to set up the docker SQL image container are listed, follow accordingly for the proper tables and query calling for the RESTAPI.go file



Setting up the following;

1. Container name: my-ms1sql
2. Port for MySQL interaction : 3306
3. Environment variable “MYSQL\_ROOT\_PASSWORD” : ms1sqlpassword

Add docker run --name my-ms1sql -p 51345:3306 -e MYSQL\_ROOT\_PASSWORD=ms1sqlpassword -d mysql:latest



Port 51345 is mapped to 3306. To interact with MySQL, connection to port 51345 is required.

(The mySQL port for interaction may be different for different users. To map the container to a specific port, type -p xxxxx:3306 when starting the container. Xxxxx is the port that you will want to connect to)



This is another way to list port mappings on the my-ms1sql container.



When one enters the command “docker inspect my-ms1sql”, we can check for the value of source and the destination key. The source refers to an actual directory on the host.



While the destination key refers to the directory in the docker container.

Text

Description automatically generated

When you enter the following command “mysql -P 51345 –protocol=tcp -u root -p



A password prompt will appear, key in the password from above of MYSQL\_ROOT\_PASSWORD

Which in this case, is ms1sqlpassword

Graphical user interface, text, application

Description automatically generated

You are now connected to the mysql container



Key in “CREATE database ms1\_db;



Enter “use ms1\_db”



Enter “CREATE TABLE test\_courses (CourseCode varchar(30), CourseID varchar(30), CourseDetail varchar(30));



Enter “INSERT INTO test\_courses (CourseCode, CourseID, CourseDetail) VALUES (“CS”, “001”, “Rebar structure”);

A picture containing text

Description automatically generated

Enter “SELECT \* FROM test\_courses;” to see the full table of test\_courses