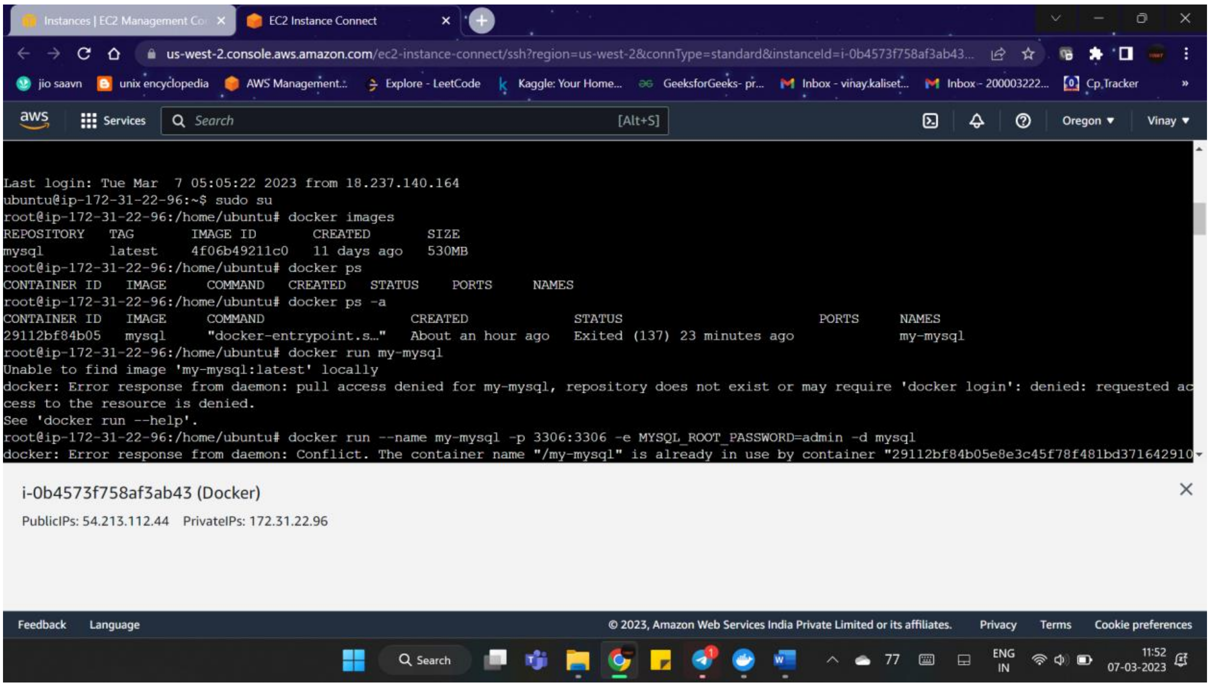
Perform MySQL Operations

1. After installing docker, go to docker machine using command “sudo su”



```
Last login: Tue Mar  7 05:05:22 2023 from 18.237.140.164
ubuntu@ip-172-31-22-96:~$ sudo su
root@ip-172-31-22-96:/home/ubuntu# docker images
REPOSITORY   TAG       IMAGE ID       CREATED       SIZE
mysql        latest    4f06b49211c0   11 days ago   530MB
root@ip-172-31-22-96:/home/ubuntu# docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS     NAMES
root@ip-172-31-22-96:/home/ubuntu# docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED             STATUS                         PORTS     NAMES
29112bf84b05   mysql     "docker-entrypoint.s…"   About an hour ago   Exited (137) 23 minutes ago              my-mysql
root@ip-172-31-22-96:/home/ubuntu# docker run my-mysql
Unable to find image 'my-mysql:latest' locally
docker: Error response from daemon: pull access denied for my-mysql, repository does not exist or may require 'docker login': denied: requested ac
cess to the resource is denied.
See 'docker run --help'.
root@ip-172-31-22-96:/home/ubuntu# docker run --name my-mysql -p 3306:3306 -e MYSQL_ROOT_PASSWORD=admin -d mysql
docker: Error response from daemon: Conflict. The container name "/my-mysql" is already in use by container "29112bf84b05e8e3c45f78f481bd371642910
```

i-0b4573f758af3ab43 (Docker)

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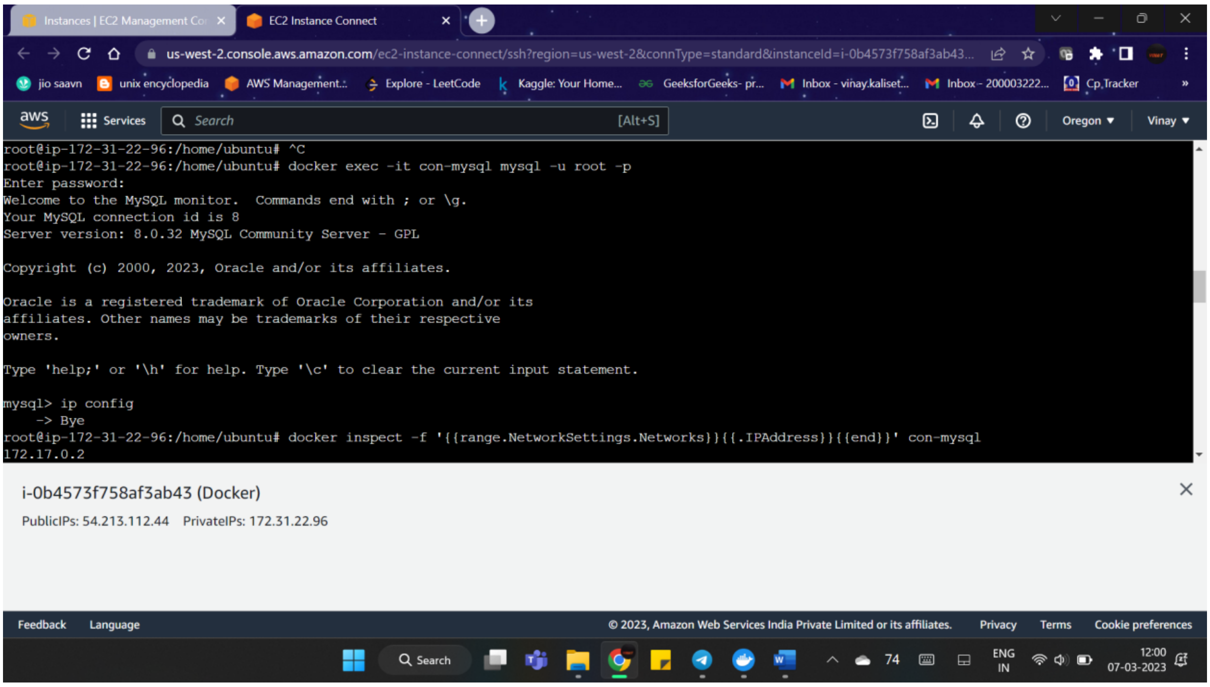
2. Now pull a mysql image using the command “docker pull mysql”

3. Run the image in a container using the following command:
   docker run --name <container-name> -p 3306:3306 -e MYSQL_ROOT_PASSWORD=<password> -d mysql



```
root@ip-172-31-22-96:/home/ubuntu# ^C
root@ip-172-31-22-96:/home/ubuntu# docker exec -it con-mysql mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.32 MySQL Community Server - GPL

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owners.

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

mysql> ip config
    -> Bye
root@ip-172-31-22-96:/home/ubuntu# docker inspect -f '{{range.NetworkSettings.Networks}}{{.IPAddress}}{{end}}' con-mysql
172.17.0.2
```

i-0b4573f758af3ab43 (Docker)

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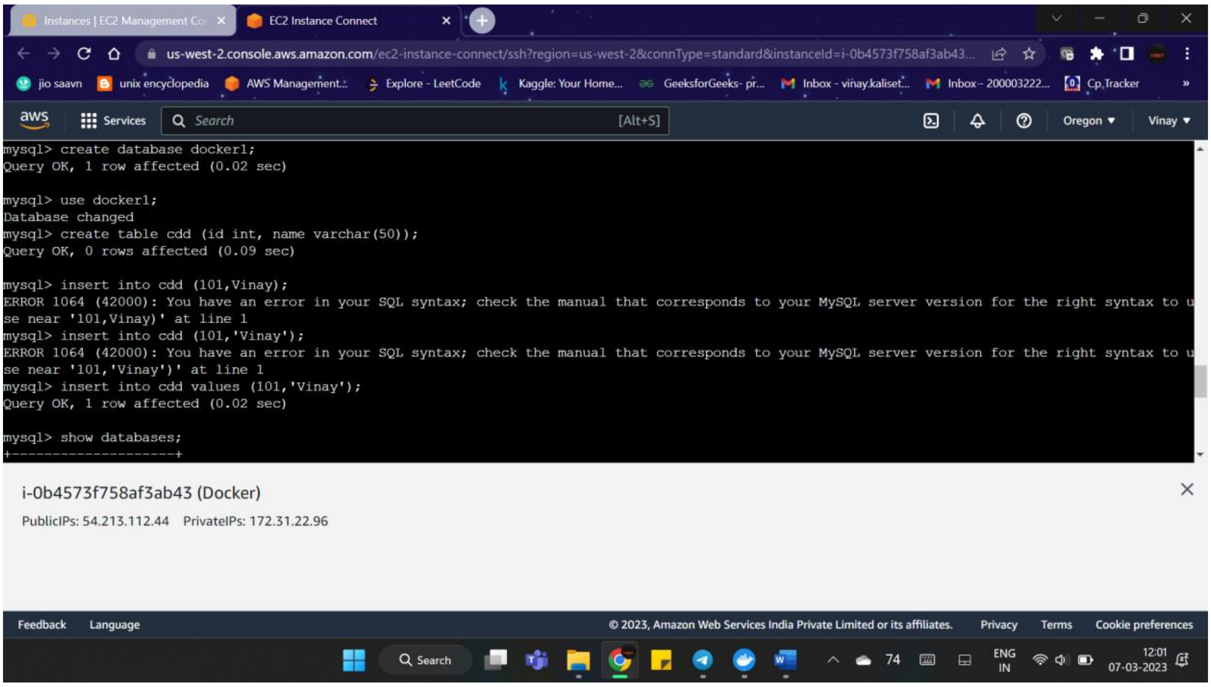
4. Now, when the container is running connect to mysql using the command:

   docker exec -it con-mysql mysql -u root -p

5. Now, Enter the password for establishing a connection.



```
mysql> create database docker1;
Query OK, 1 row affected (0.02 sec)

mysql> use docker1;
Database changed
mysql> create table cdd (id int, name varchar(50));
Query OK, 0 rows affected (0.09 sec)

mysql> insert into cdd (101,Vinay);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to u
se near '101,Vinay)' at line 1
mysql> insert into cdd (101,'Vinay');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to u
se near '101,'Vinay')' at line 1
mysql> insert into cdd values (101,'Vinay');
Query OK, 1 row affected (0.02 sec)

mysql> show databases;
+--------------------+
```

i-0b4573f758af3ab43 (Docker)

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6. Now create a database using the command

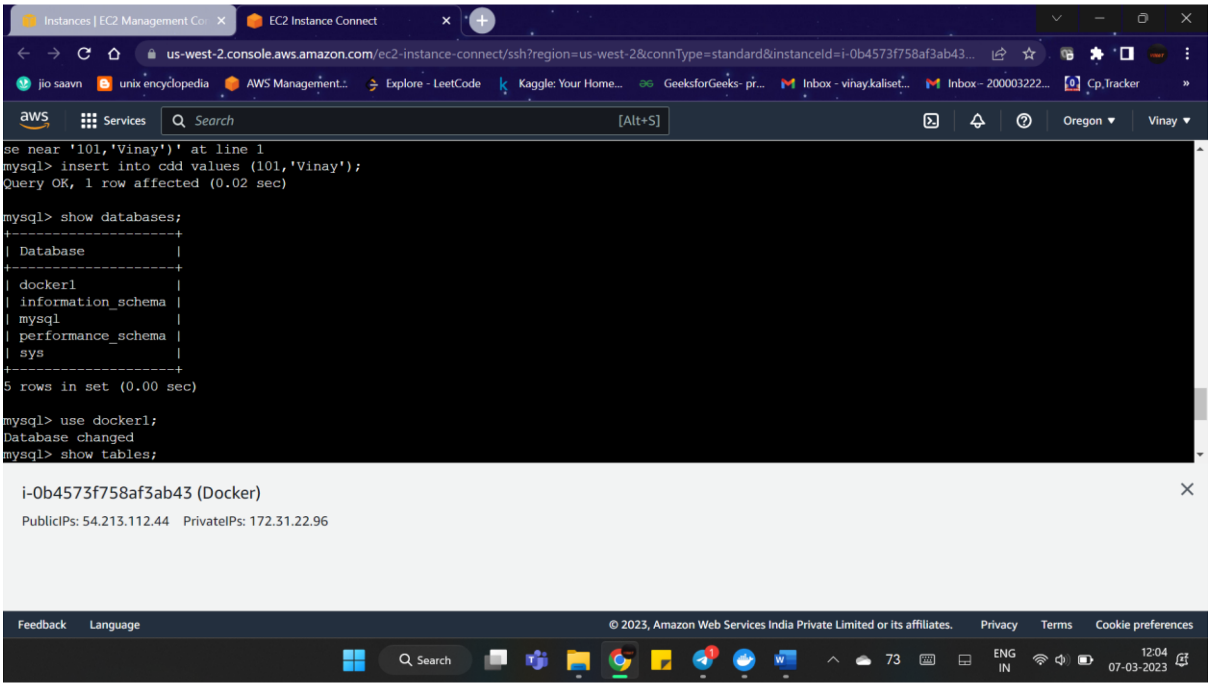
   create database <database-name>

7. Go to the database using the command:

   use <database-name>

8. Create a table using the command:

   create table tablename(id int, name varchar(50));



Instances | EC2 Management Co
EC2 Instance Connect
us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-west-2&connType=standard&instanceId=i-0b4573f758af3ab43...
Services
Search
[Alt+S]
Oregon
Vinay

```
se near '101,'Vinay')' at line 1
mysql> insert into cdd values (101,'Vinay');
Query OK, 1 row affected (0.02 sec)

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| docker1            |
| information_schema |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
5 rows in set (0.00 sec)

mysql> use docker1;
Database changed
mysql> show tables;
```

i-0b4573f758af3ab43 (Docker)

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Language
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9. Insert values into database using the command:

insert into cdd values (id,'name');