BDMH Assignment1

On Docker

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Question1: Create a database name mydb in MySQL and save above table in mydb; show application of 4 mysql commands.

1: Pull mysql image in docker and check via command docker images if image is successfully pulled

```
2 Administrator: Windows PowerShell —
PS C:\WINDOWS\system32> docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
sadhanatripathi/mongo 2 23add446980 9 hours ago 449MB
nysql latest 2933adc350F3 2 weeks ago 546MB
```

2: Creating docker container

```
PS C:\WINDOWS\system32> <mark>docker run -d --name mysqldb -p 3306:3306 -e MYSQL_ROOT_PASSWORD*sadhana mysql</mark>
2d6817b2007fff718e057f03fe6ac6cdb785fcbd1d3b5d22e60b761208b5acb9
PS C:\WINDOWS\system32> <mark>docker ps</mark>
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
2d6817b2007f mysql "docker-entrypoint.s..." 11 seconds ago Up 6 seconds 0.0.0:3306->3306/tcp, 33060/tcp mysqldb
```

3: Executing bash statement for entering into mysql

```
PS C:\Users\Sadhana> <mark>docker</mark> ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
2d6817b2007f mysql "docker-entrypoint.s..." 38 minutes ago Up 38 minutes 0.0.0.0:3306->3306/tcp, 33060/tcp mysqldb
PS C:\Users\Sadhana> <mark>docker</mark> exec -it mysqldb bash
root@2d6817b2007f:/# mysql -u root -h 127.0.01 -psadhana
```

4:Into mysql

```
PS C:\Users\Sadhana> docker exec -it mysqldb bash
root@2d6817b2007f:/# mysql -u root -h 127.0.01 -psadhana
mysql: [Warning] Using a password on the command line interface can be insecure.
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.23 MySQL Community Server - GPL
Copyright (c) 2000, 2021, 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.
```

5: show and create databases

6: drop database

```
Administrator: Windows PowerShell
mysql> show databases;

Information_schema | mysdl | mysql |
```

7: Use mydb, create table fruits and insert entries into table

```
mysql> use mydb;
Database changed
mysql> caset table fruits (id int not null, name text, quantity int not null,primary key(id));
Query OK, 8 rows affected (2.88 sec)
mysql> show table;
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 use near '' at line 1
mysql> show tables;
| Tables_in_mydb |
| fruits |
| fruits |
| row in set (0.03 sec)
mysql> insert into fruits (id,name,quantity) values (1,'apples',50);
Query OK, 1 row affected (0.28 sec)
mysql> insert into fruits (id,name,quantity) values (2,'banana',5);
Query OK, 1 row affected (0.28 sec)
mysql> insert into fruits (id,name,quantity) values (3,'pears',15);
Query OK, 1 row affected (0.28 sec)
```

8: Read command

9: Update command

```
mysql> UPDATE fruits SET quantity = 5 WHERE id=1;
Query OK, 1 row affected (0.26 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from fruits;

| id | name | quantity |

| 1 | apples | 5 |
| 2 | banana | 5 |
| 3 | pears | 15 |

3 rows in set (0.00 sec)
```

10: Delete command

```
mysql> DELETE from fruits WHERE id =3;
Query OK, 1 row affected (0.20 sec)

mysql> select * from fruits;

| id | name | quantity |

| 1 | apples | 5 |

| 2 | banana | 5 |

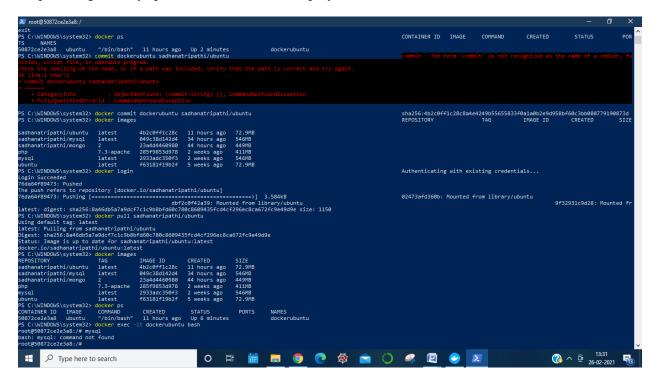
2 rows in set (0.00 sec)

mysql> exit

Bye
root@2d6817b2007f:/# exit
exit
```

11: Outside shell and container for creating image for container and deploying in docker hub

12: pull Image for mysql container created and deployed in docker hub



13: Docker hub

