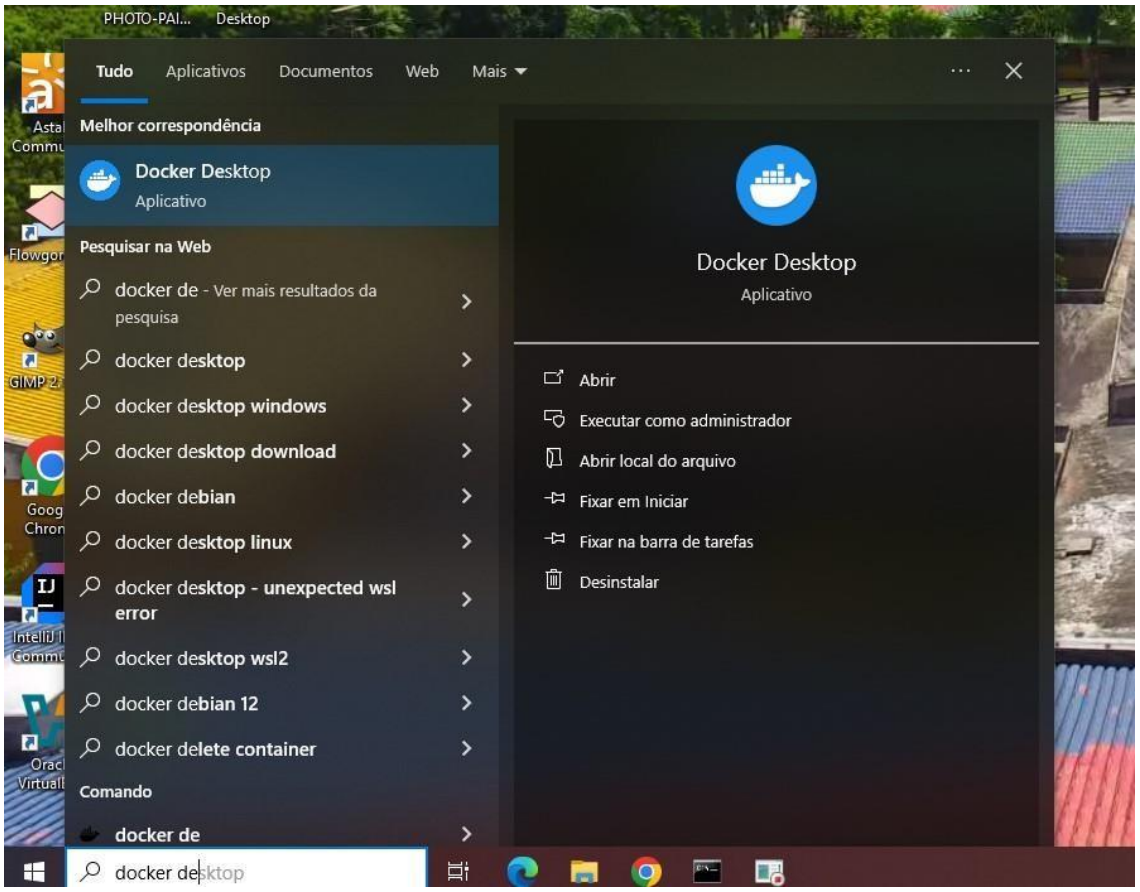
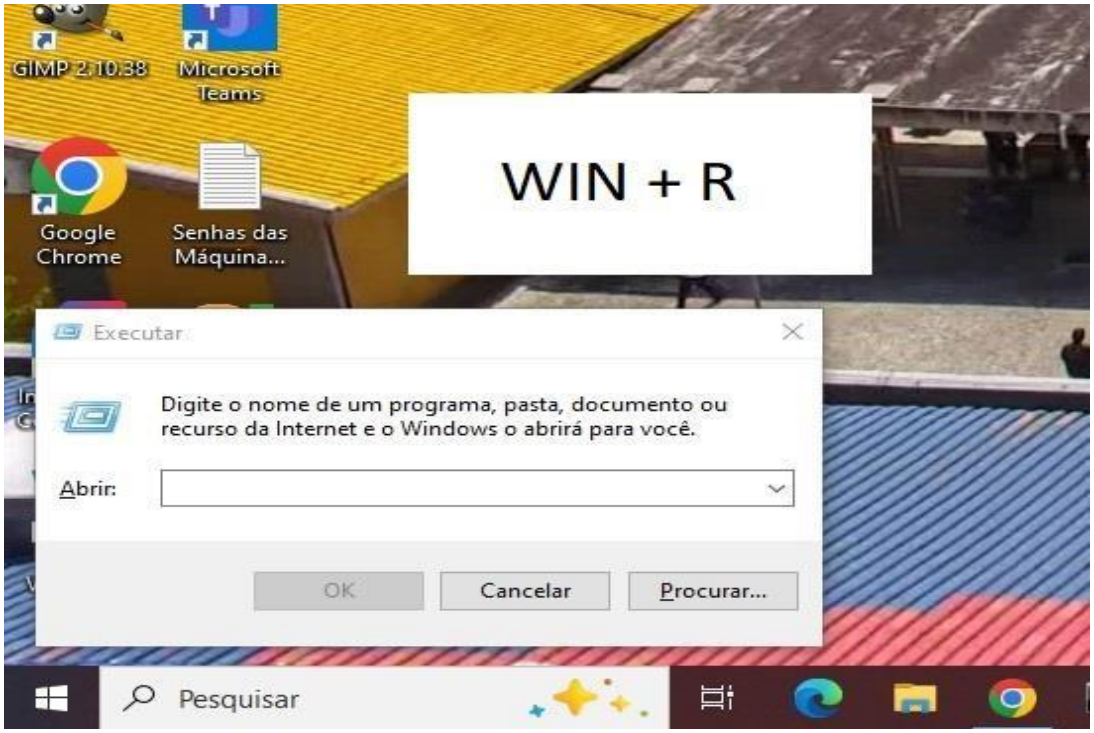
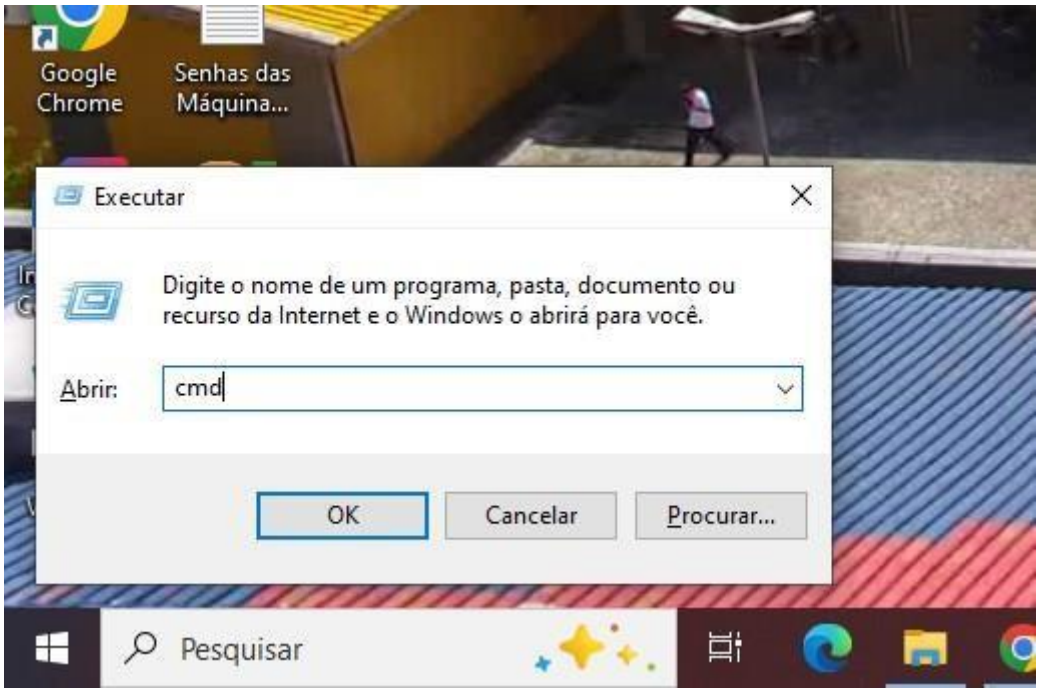
Abram o Docker Desktop, no menu iniciar

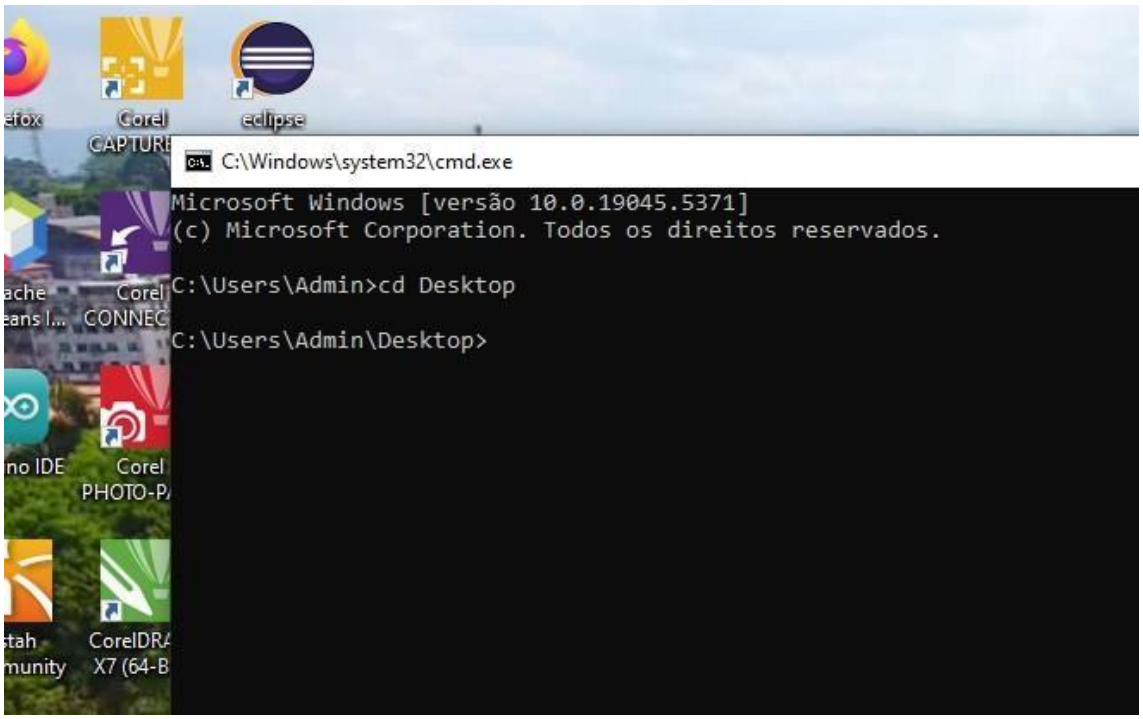


Em seguida abram o terminal (CMD)



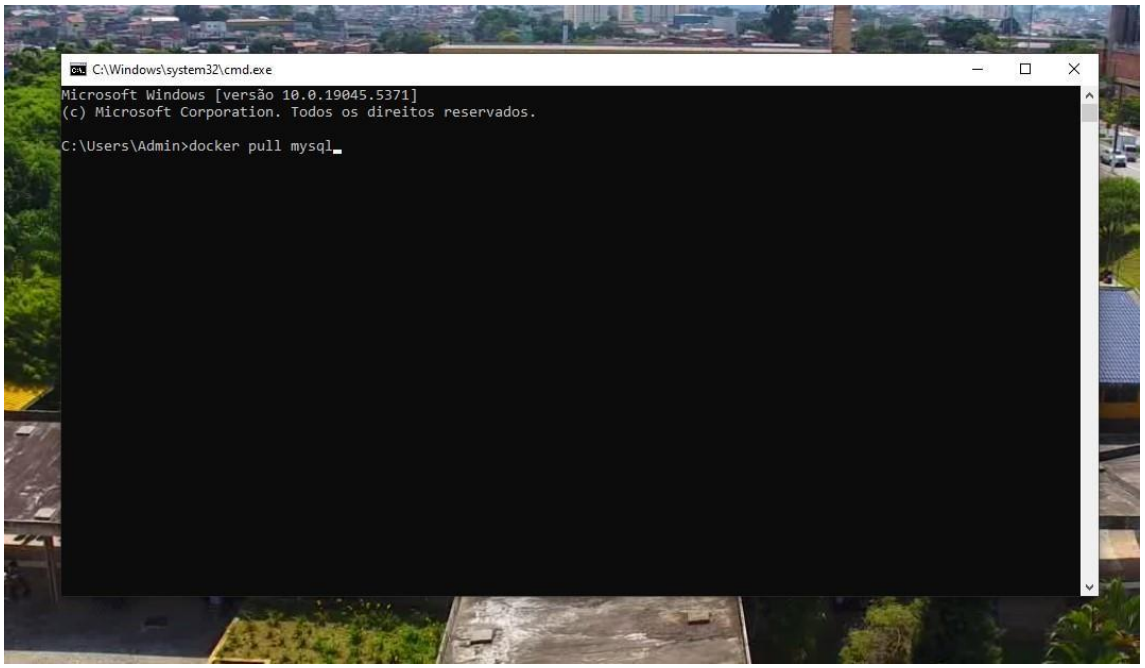


Vá para a área de trabalho (Desktop)



Faça o pull na imagem mysql

O pull é o download da imagem docker, existem diversas imagens diferentes com propósitos diferentes, no caso, a imagem mysql é focada em banco de dados mysql



Depois do download da imagem, use o código:

docker run --name mysql-workshop -e MYSQL_ROOT_PASSWORD=1234 -v dados_mysql:/var/lib/mysql -v C:\Users\Admin\Desktop\scripts:/var/scripts -p 3306:3306 -d mysql:latest

Explicação do código:

Docker Run: Roda o Docker e cria e inicia um novo container;

--name mysql-workshop: Nomeia o novo container;

-e MYSQL_ROOT_PASSWORD=1234: Coloca uma variável de ambiente dentro do container e seta a senha root para 1234;

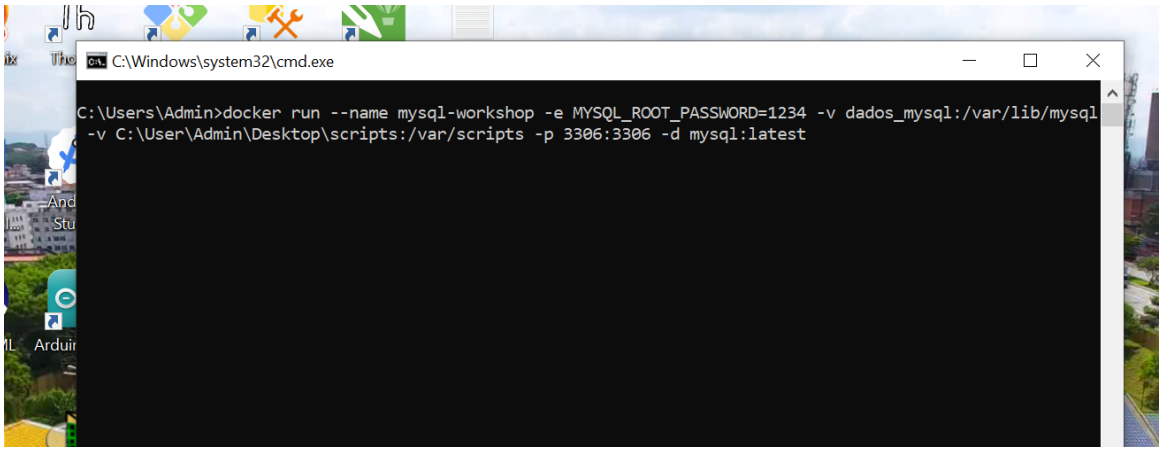
-v dados_mysql:/var/lib/mysql: Cria uma pasta volume que é contolada e gerenciada pelo próprio docker

-v C:\Users\Admin\Desktop\scripts:/var/scripts: Cria uma pasta volume (scripts) entre o desktop e o container, ambos vão compartilhar o conteúdo da pasta;

-p 3306:3006: Conecta a porta 3306 do desktop com a porta 3306 do container;

-d mysql:latest: Especifica qual imagem usar;

Executando no terminal

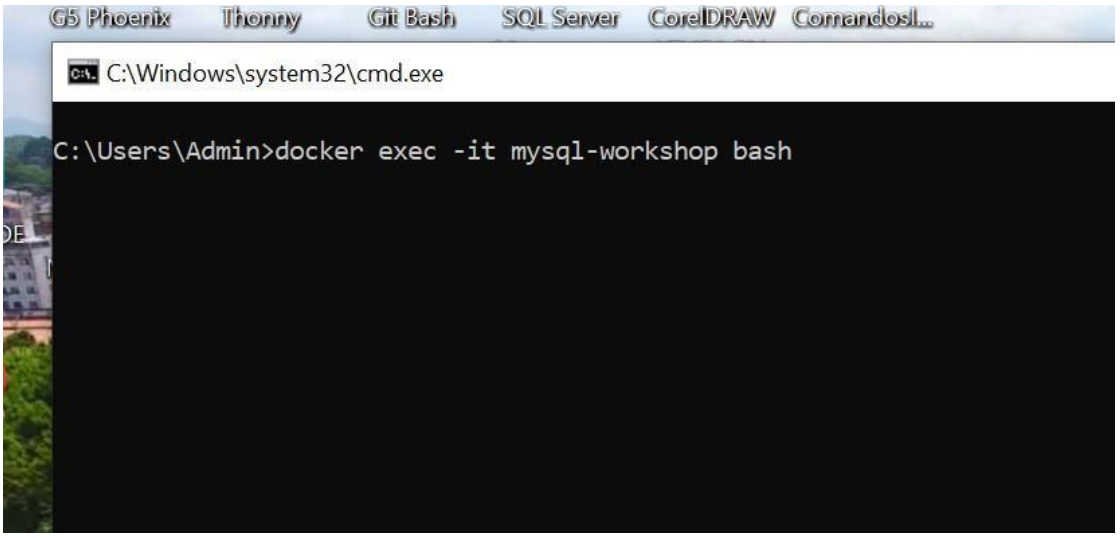


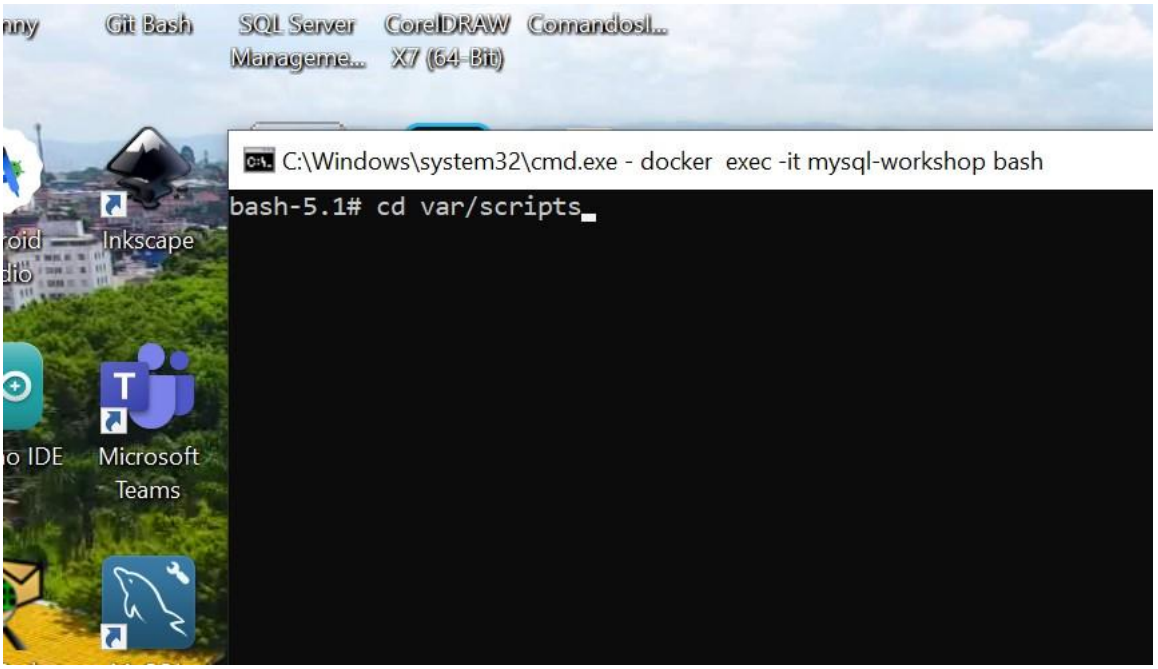
Agora entramos no bash do container com o código:

docker exec -it mysql-workshop bash

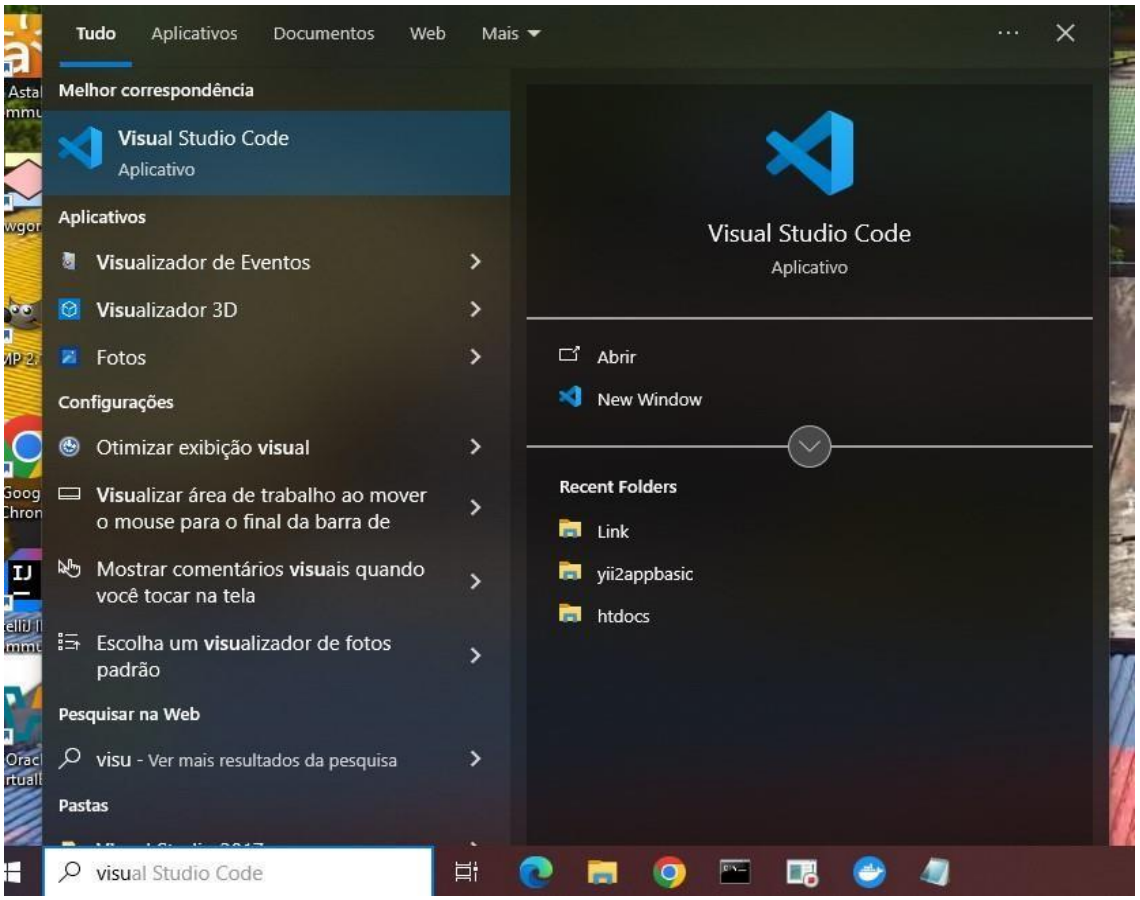
e vá para a pasta mysql (a pasta volume) com o código:

cd /var/scripts

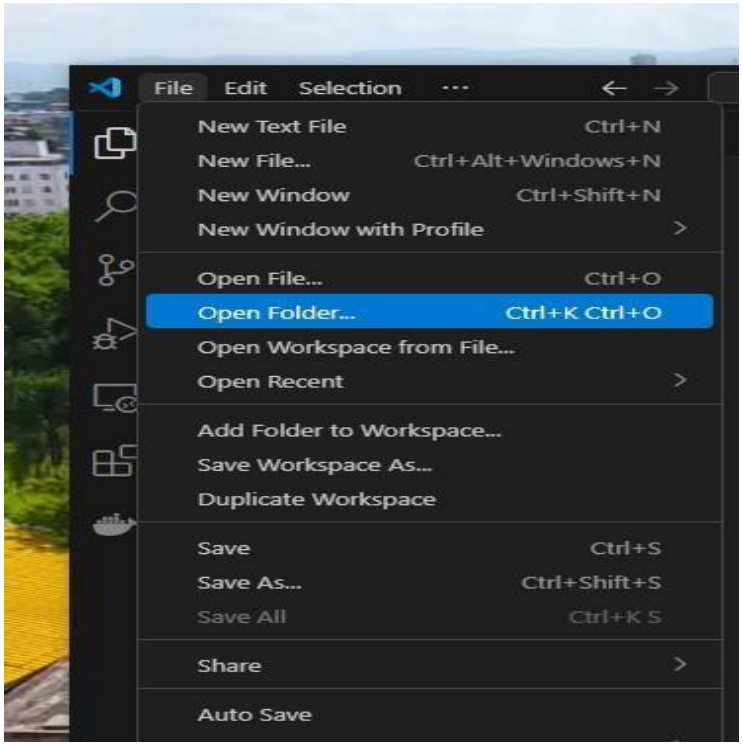


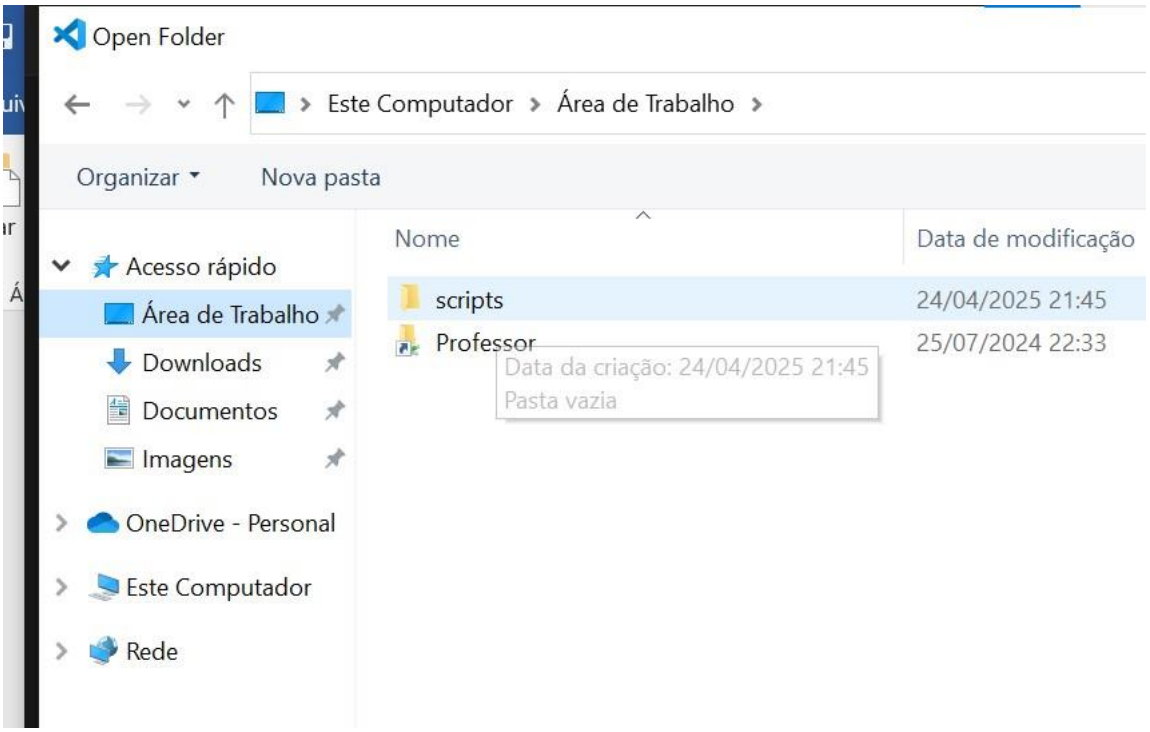


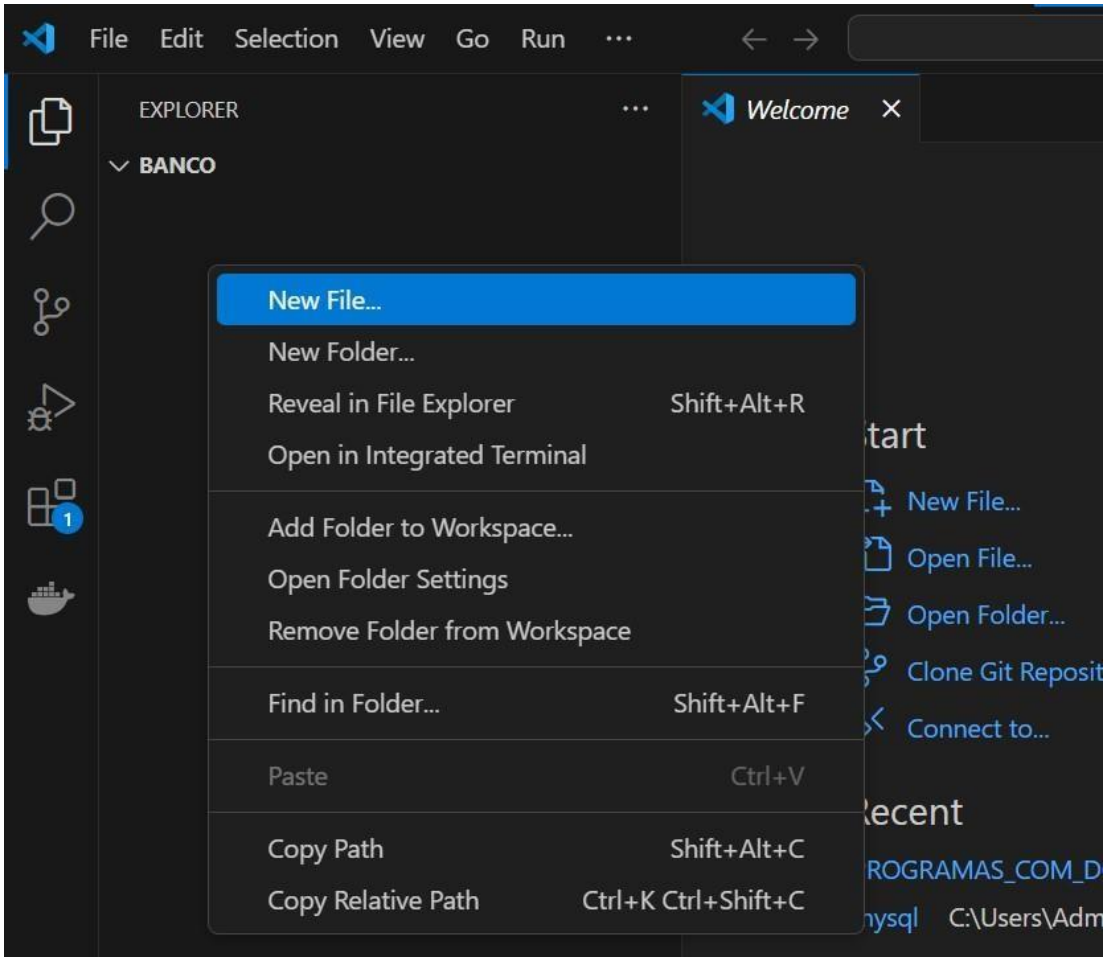
De volta no desktop, abra o visual studio code

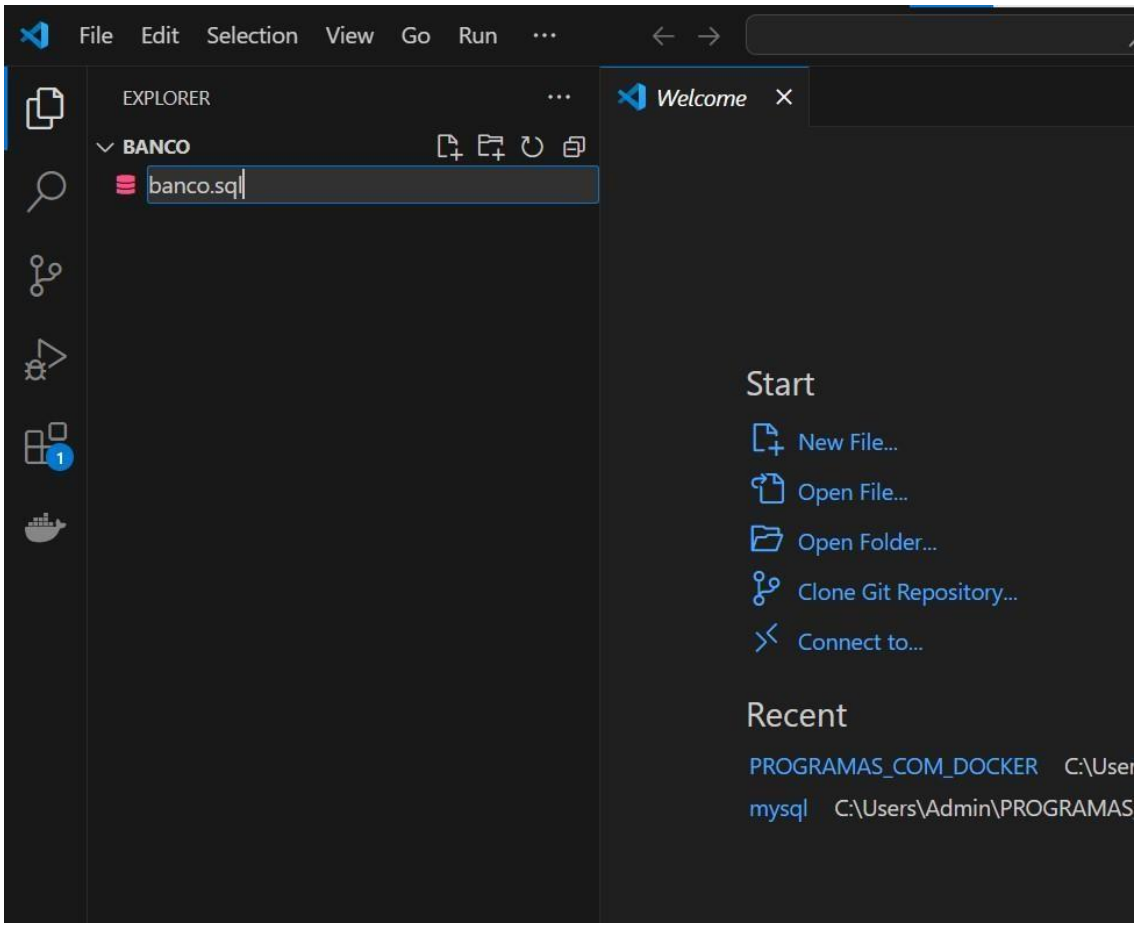


E abrir a pasta scripts na área de trabalho e criar um novo arquivo “banco.sql”;




Open Folder
Este Computador
Área de Trabalho
Organizar
Nova pasta
Nome
Data de modificação
Acesso rápido
Área de Trabalho
Downloads
Documentos
Imagens
OneDrive - Personal
Este Computador
Rede
scripts
24/04/2025 21:45
Professor
25/07/2024 22:33
Data da criação: 24/04/2025 21:45
Pasta vazia


File
Edit
Selection
View
Go
Run
EXPLORER
BANCO
Welcome
New File...
New Folder...
Reveal in File Explorer
Shift+Alt+R
Open in Integrated Terminal
Add Folder to Workspace...
Open Folder Settings
Remove Folder from Workspace
Find in Folder...
Shift+Alt+F
Paste
Ctrl+V
Copy Path
Shift+Alt+C
Copy Relative Path
Ctrl+K Ctrl+Shift+C
New File...
Open File...
Open Folder...
Connect to...
C:\Users\Adm



Cole o código abaixo no arquivo:

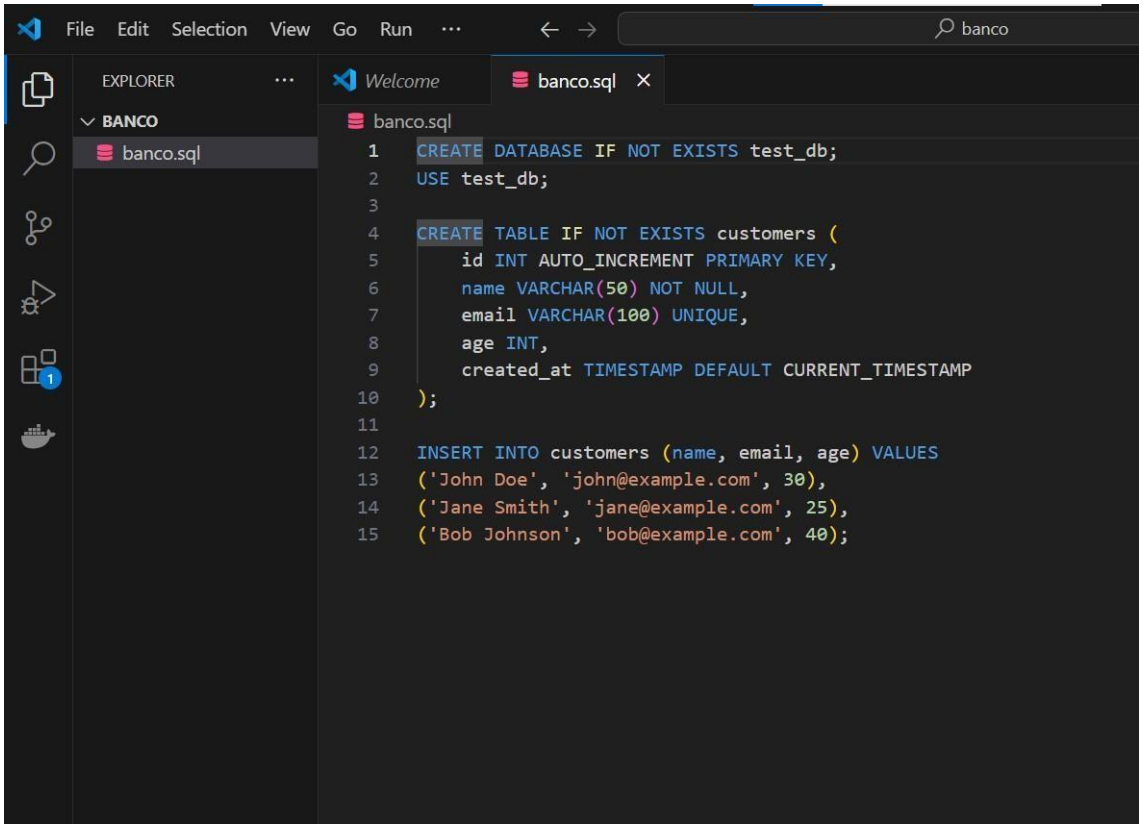
```
CREATE DATABASE IF NOT EXISTS test_db;
USE test_db;

CREATE TABLE IF NOT EXISTS clientes (
    id INT AUTO_INCREMENT PRIMARY KEY,
    nome VARCHAR(50) NOT NULL,
    email VARCHAR(100) UNIQUE,
    idade INT,
    criado_em TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
INSERT INTO clientes (nome, email, idade) VALUES
```

('John Doe', 'john@example.com', 30),

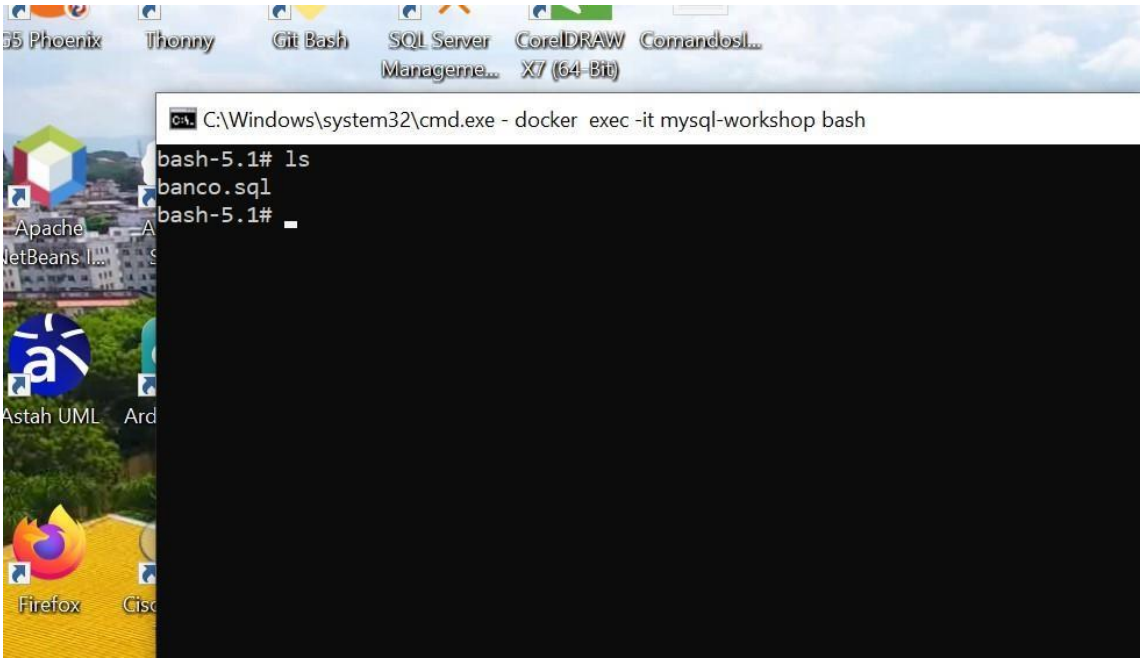
('Jane Smith', 'jane@example.com', 25),

('Bob Johnson', 'bob@example.com', 40);



De volta para o bash, verifique se o arquivo banco.sql esta na pasta com o comando:

ls



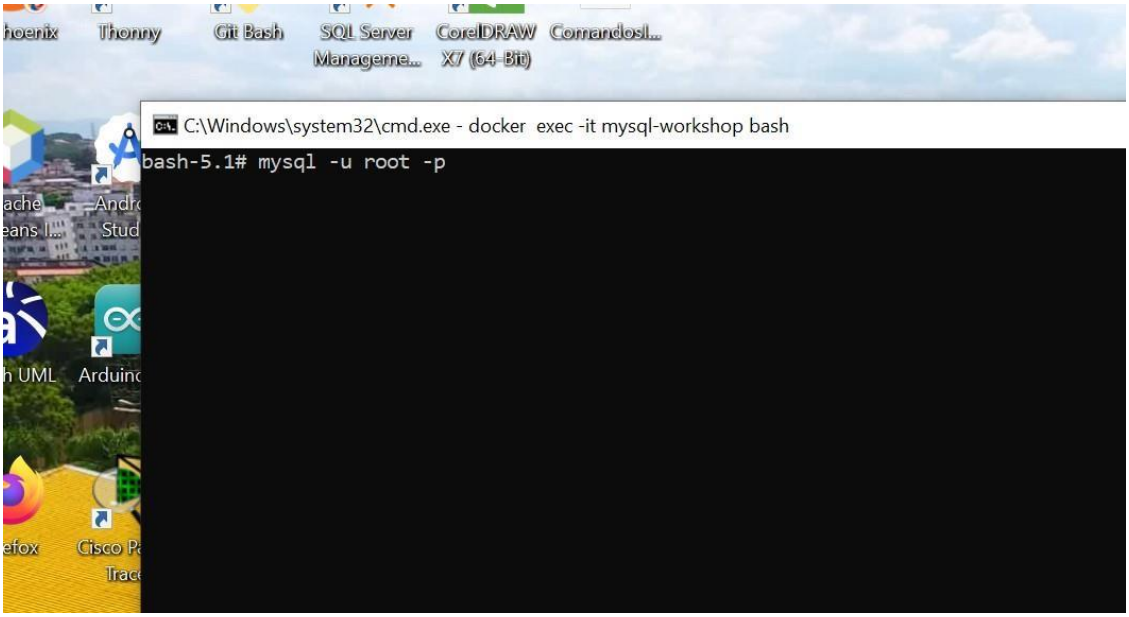
Inicie o mysql dentro do container com o código:

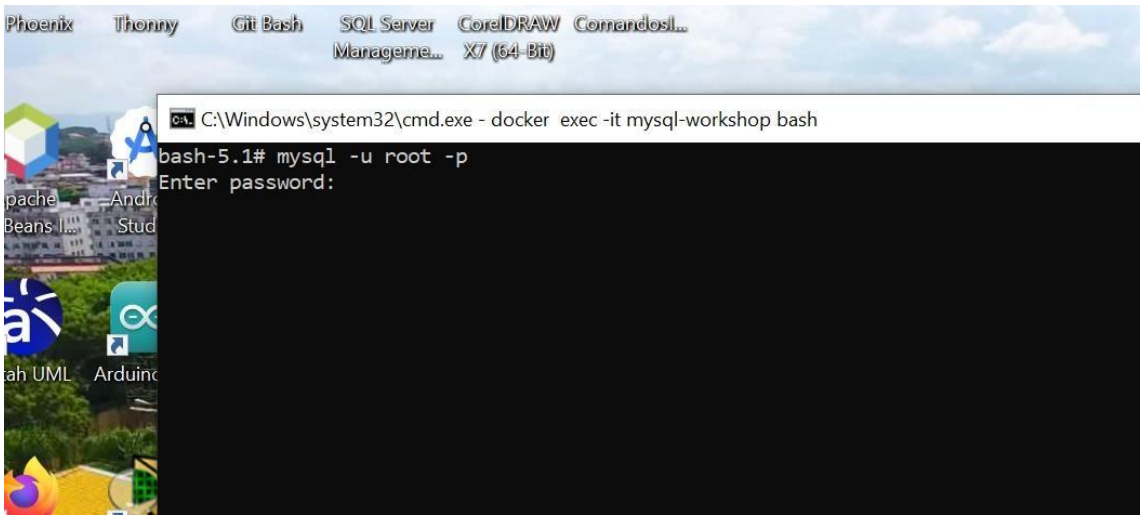
mysql -u root -p

-u: indica o usuário que esta utilizando o mysql;

-p: indica a senha (no caso é 1234).

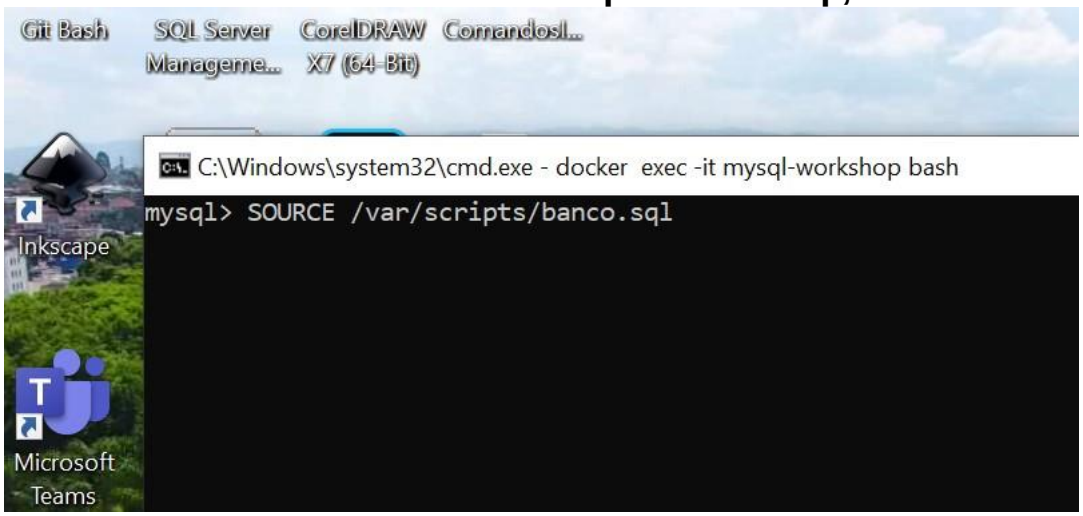
Após dar enter, o mysql ira pedir a senha





Execute o arquivo banco.sql com o código :

SOURCE /var/scripts/banco.sql;



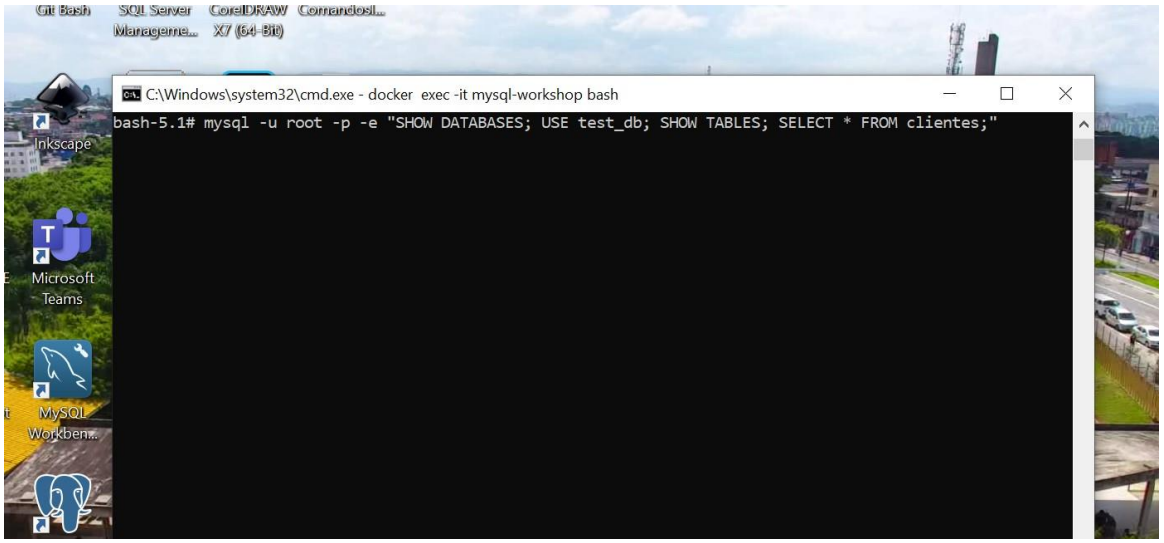
Após executar o arquivo, saia do mysql com o código:

Exit

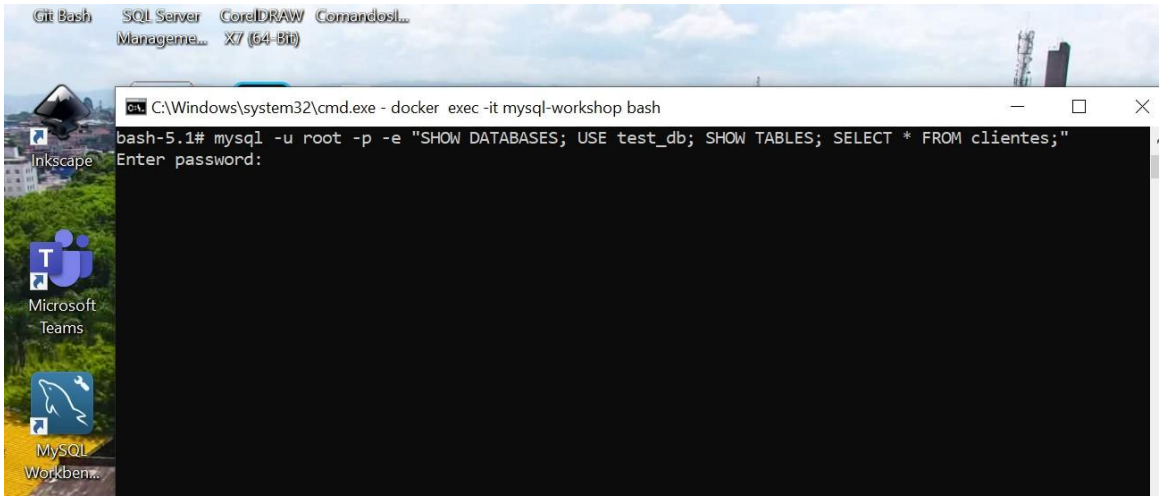
E teste para ver se o banco foi executado com sucesso com esse código:

mysql -u root -p -e "SHOW DATABASES; USE test_db; SHOW TABLES; SELECT * FROM clientes;"

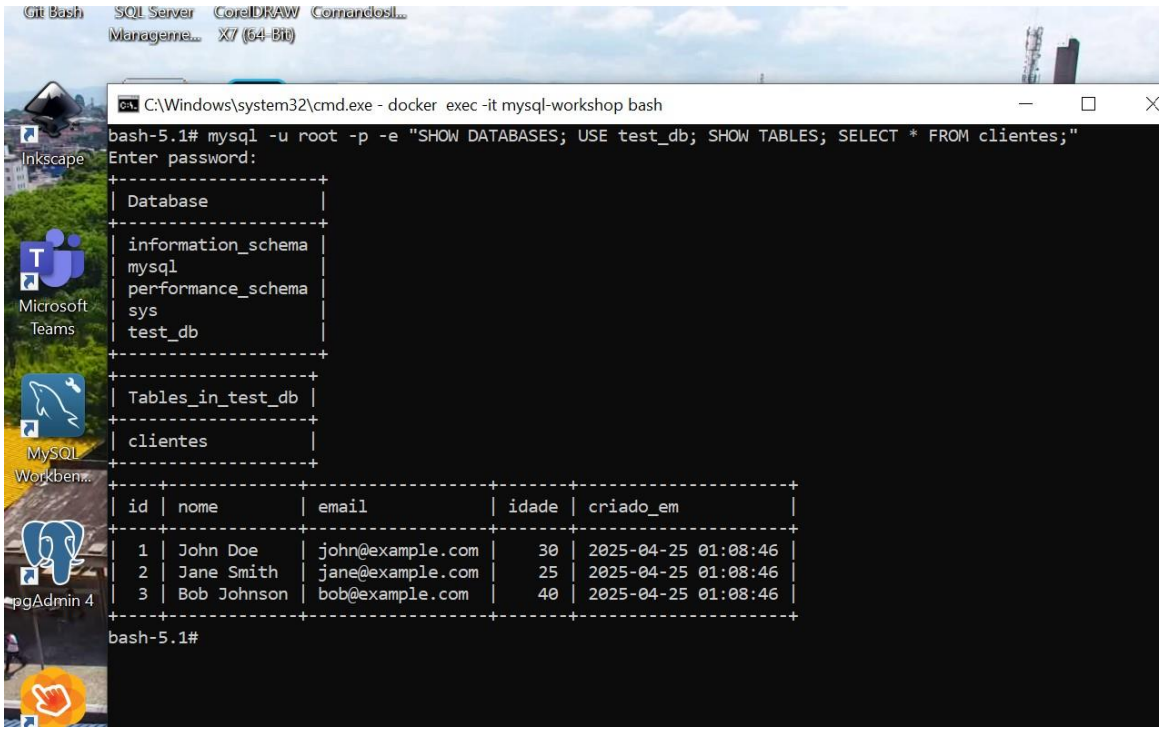
Esse deve ser o resultado:



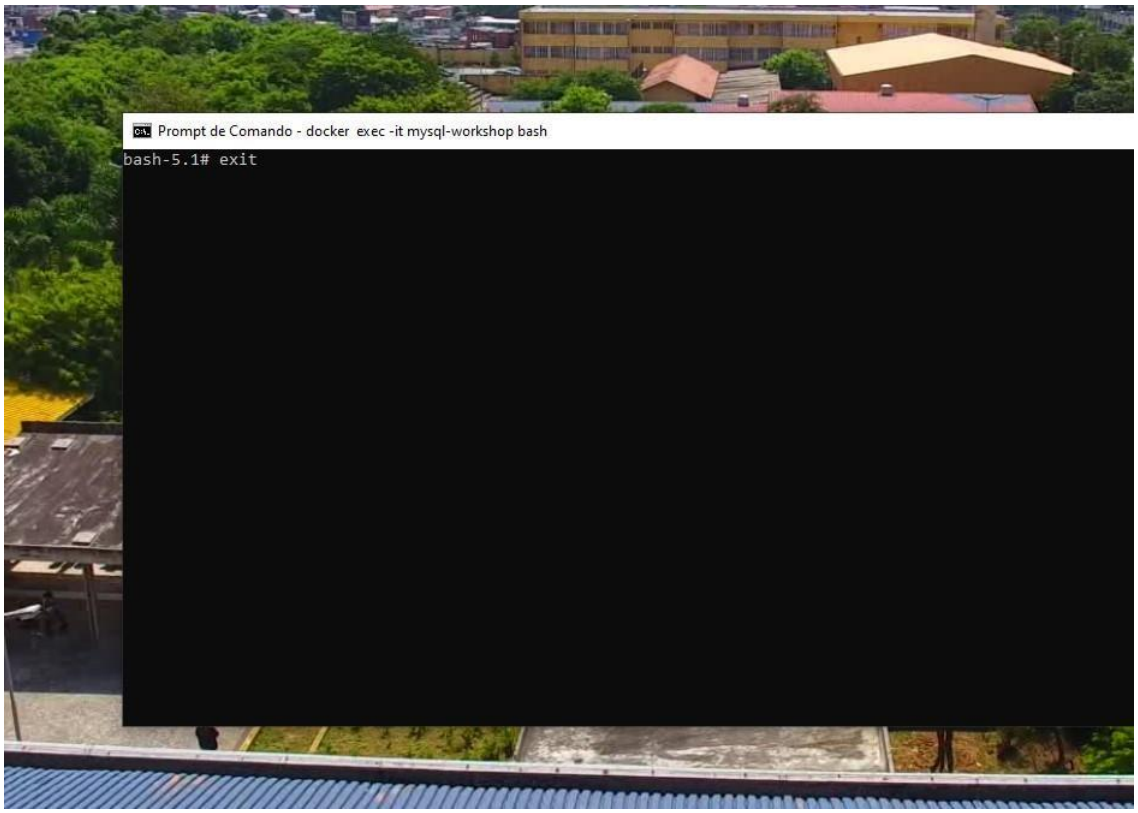
Coloque a senha: **1234**



O resultado esperado é esse:



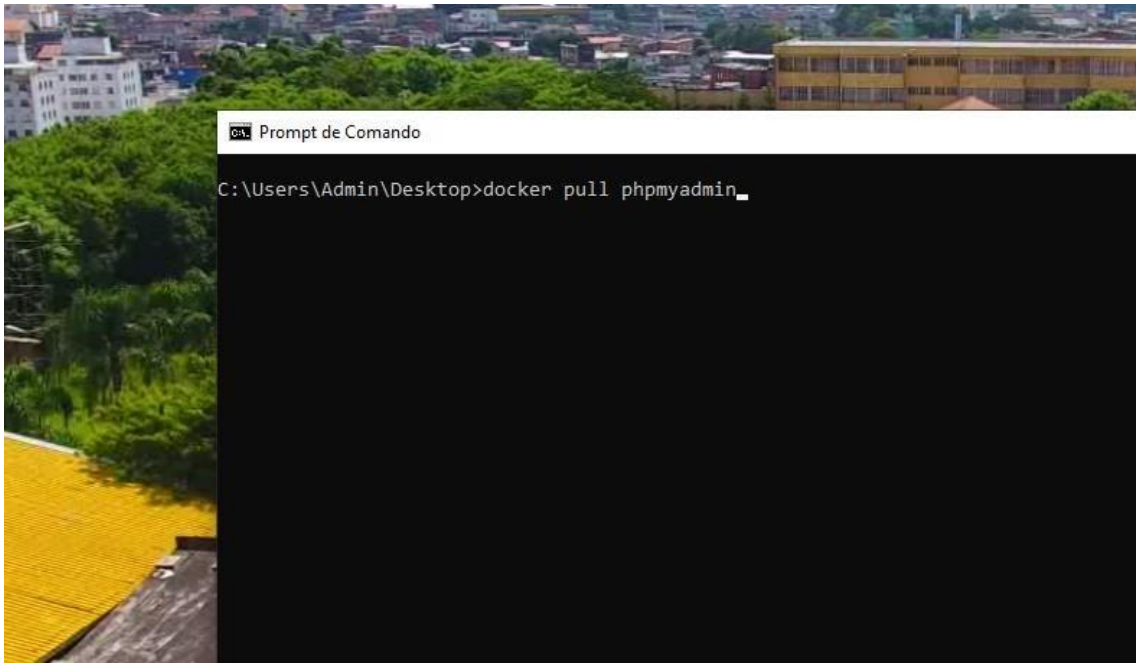
Digite **exit** no bash para sair do conainer



Agora digite o seguinte código:

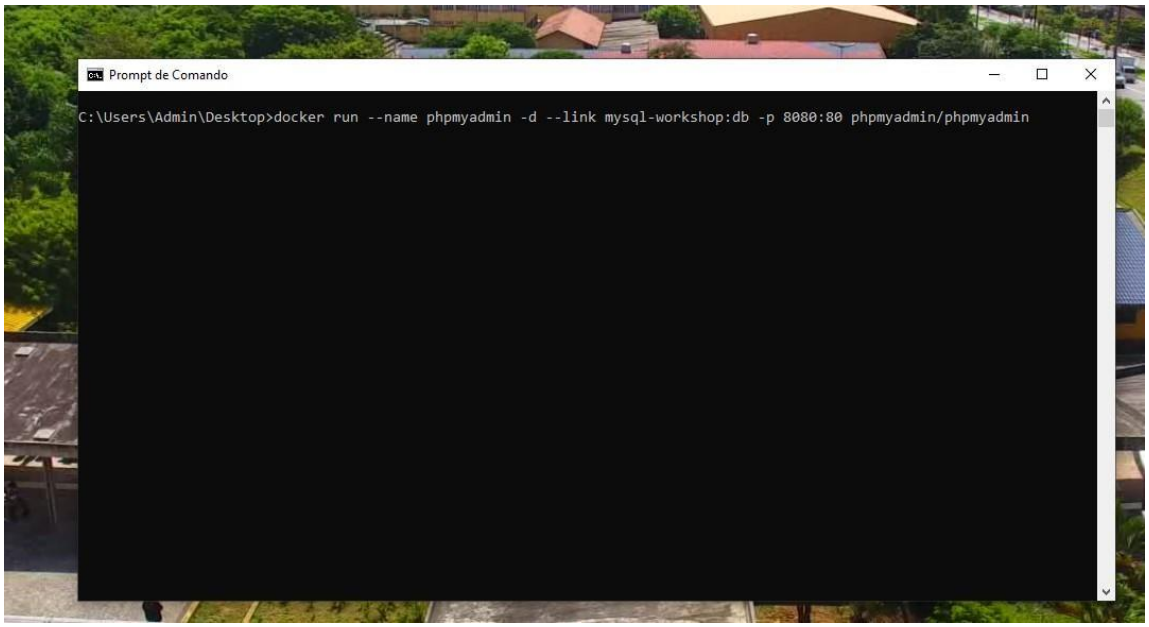
docker pull phpmyadmin

para baixar a imagem do Docker phpmyadmin

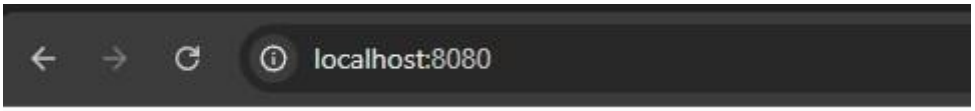


Crie o container phpmyadmin e link ele ao container mysql com o código:

docker run --name phpmyadmin -d --link mysql-container:db -p 8080:80 phpmyadmin/phpmyadmin



No navegador entre em: **Localhost:8080**

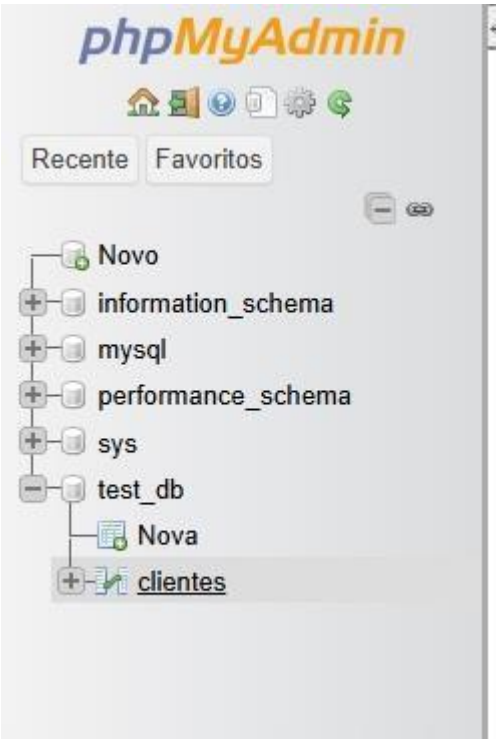


Faça o login no phpmyadmin com:

Usuário: root

Senha: 1234

Vá para a tabela clientes



Va para a aba SQL

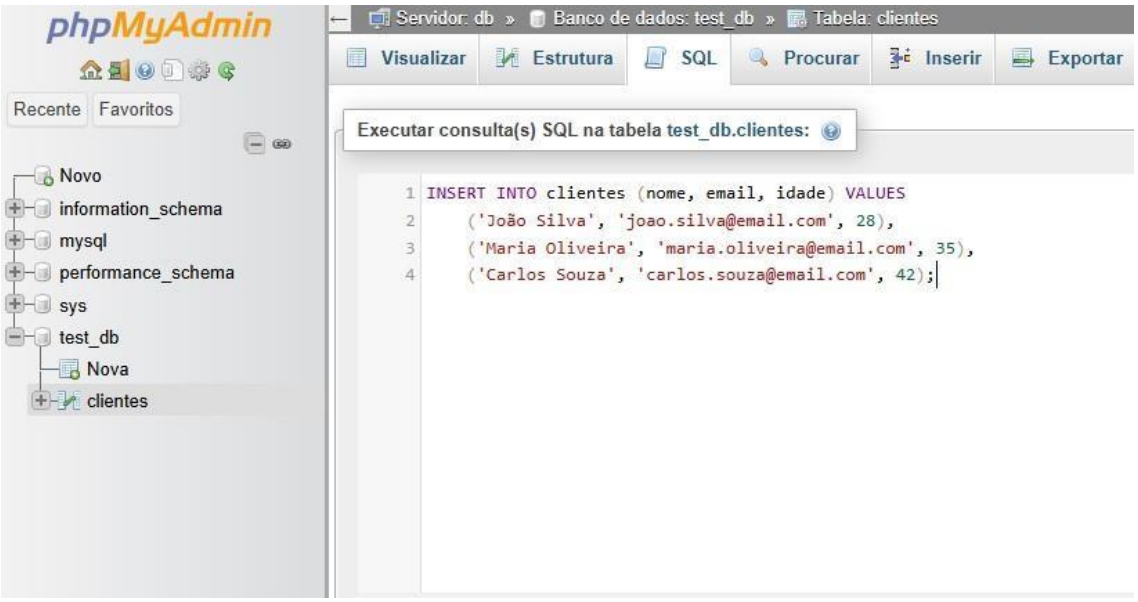
E digite adicione alguns clientes:

INSERT INTO clientes (nome, email, idade) VALUES

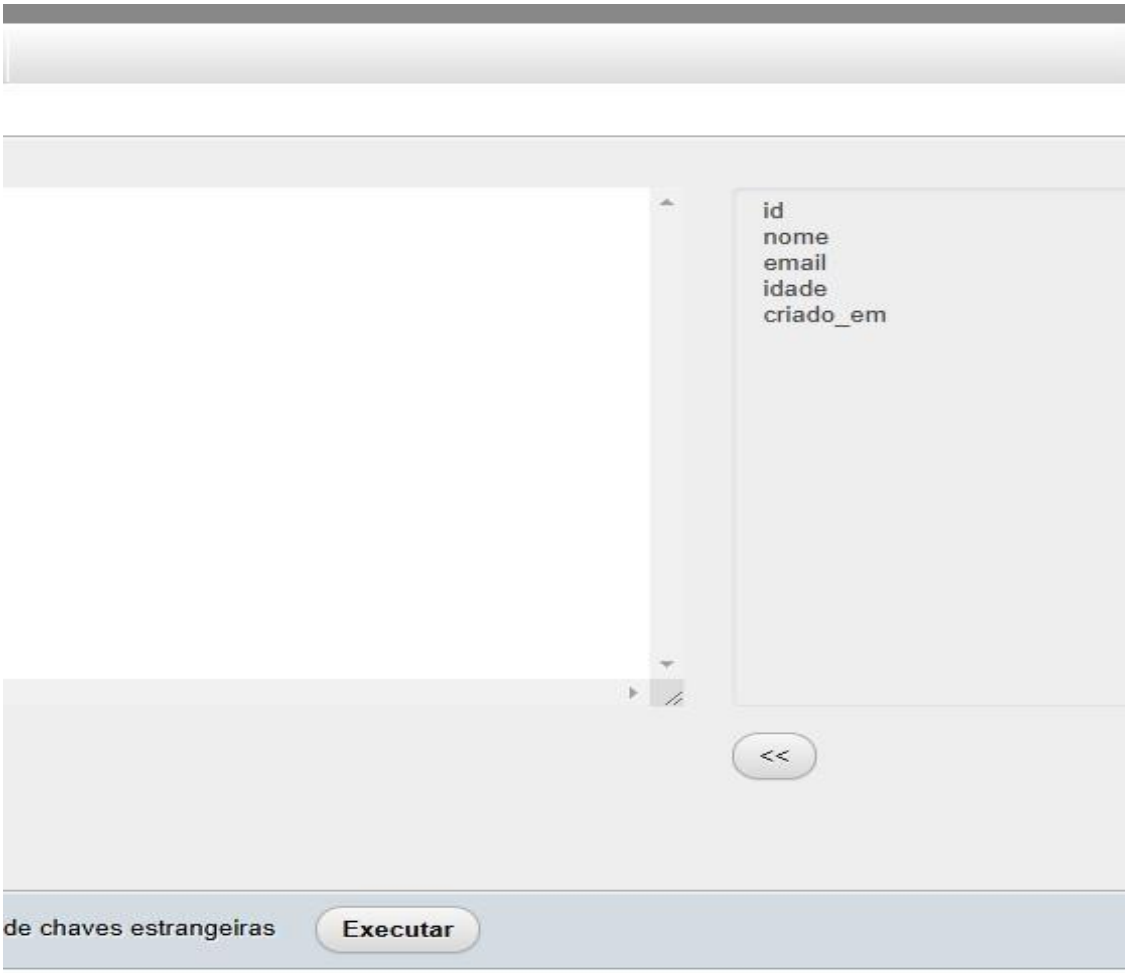
('João Silva', 'joao.silva@email.com', 28),

('Maria Oliveira', 'maria.oliveira@email.com', 35),

('Carlos Souza', 'carlos.souza@email.com', 42);

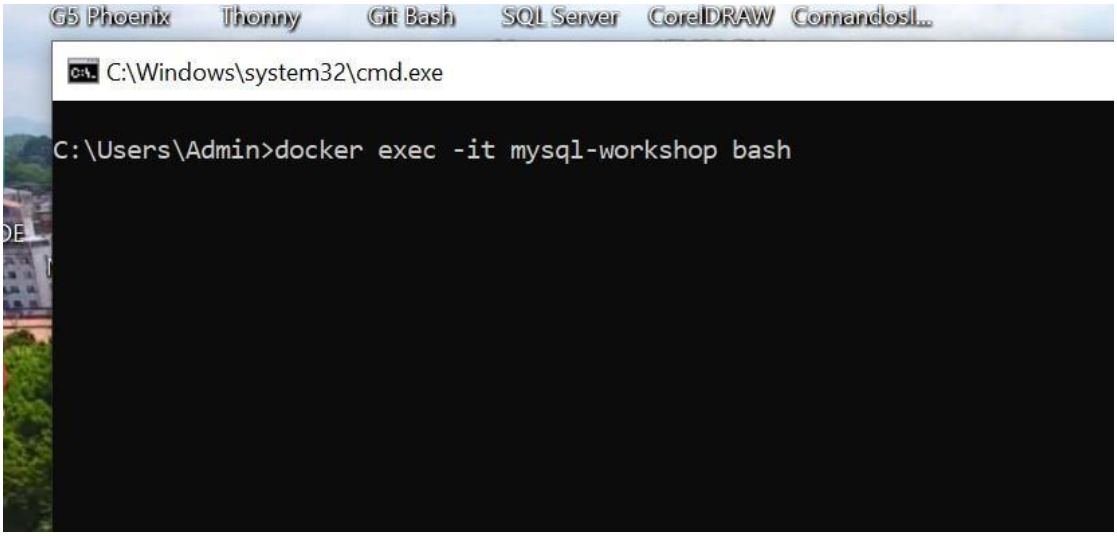


Execute o código



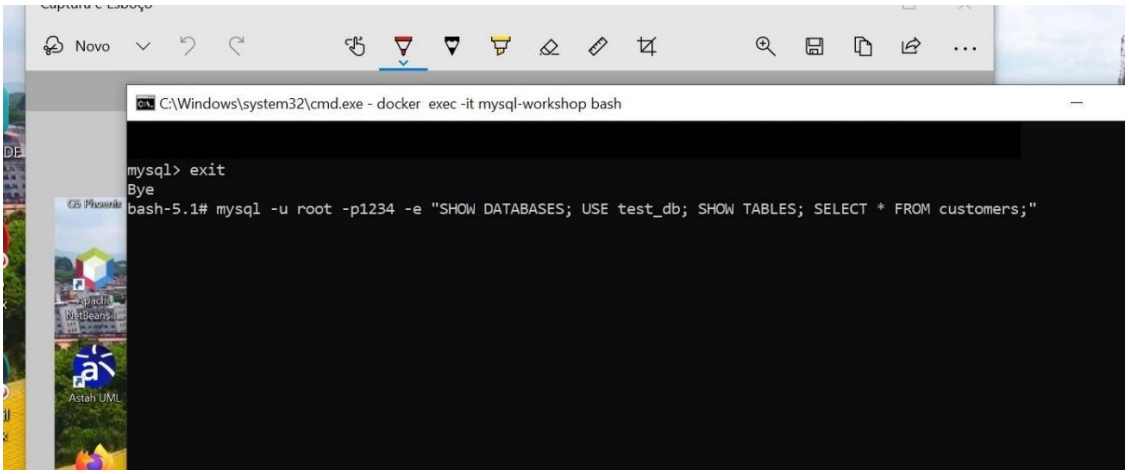
Verifique no container se os inserts foram colocados com o código:

docker exec -it mysql-workshop bash

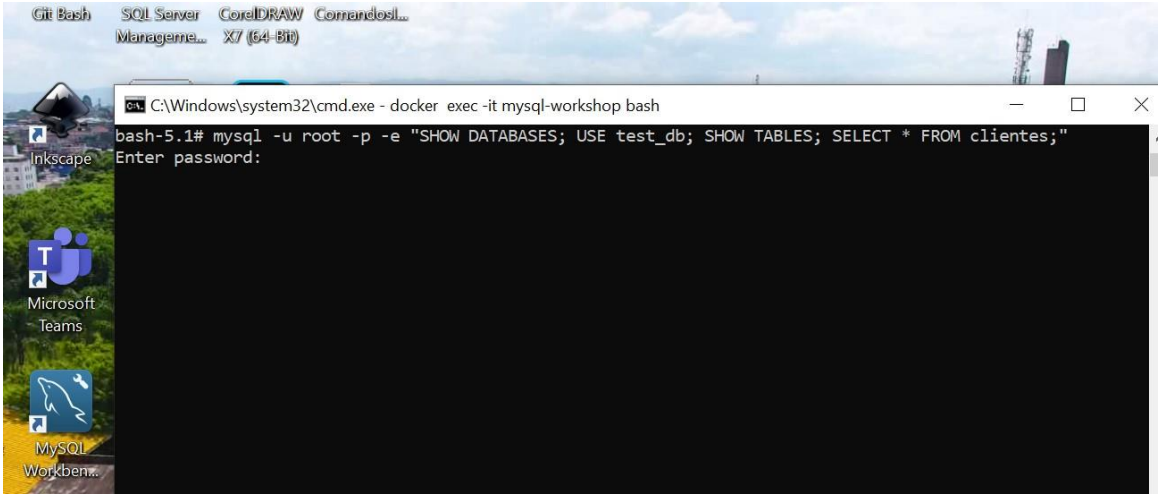


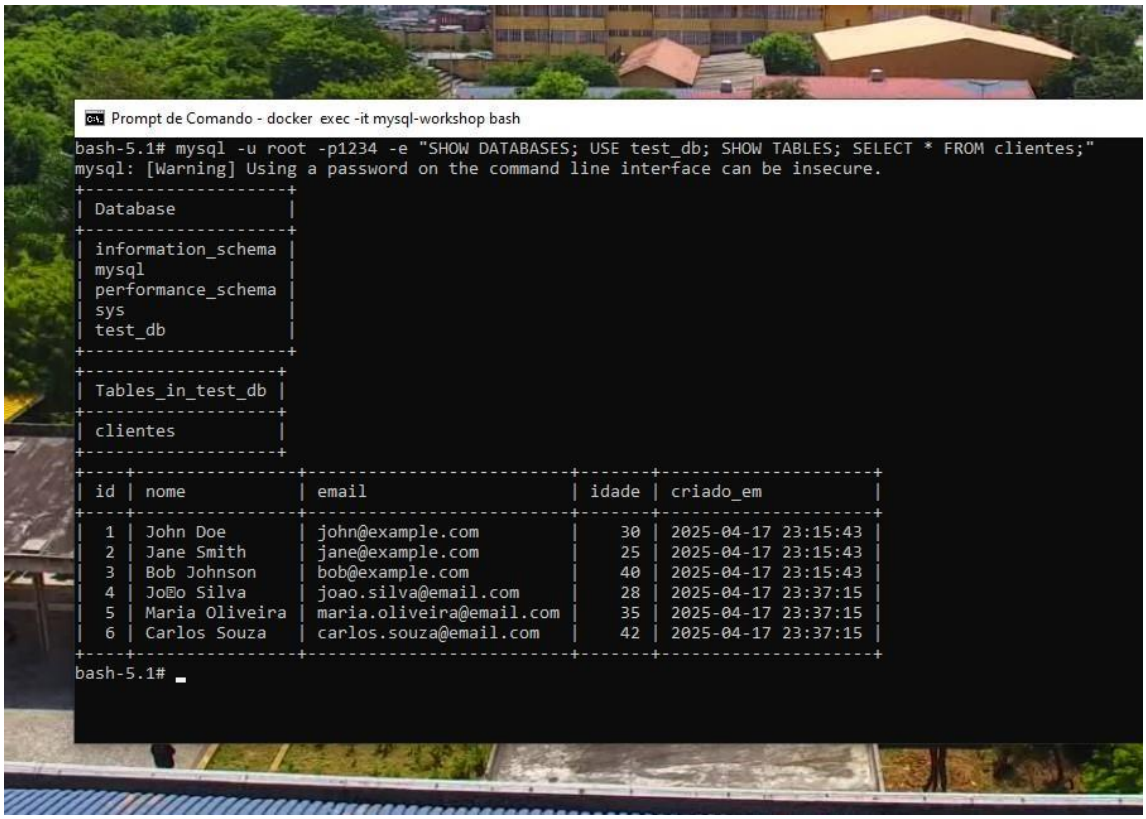
E verifique se os inserts foram feitos com sucesso com o código:

mysql -u root -p -e "SHOW DATABASES; USE test_db; SHOW TABLES; SELECT * FROM clientes;"



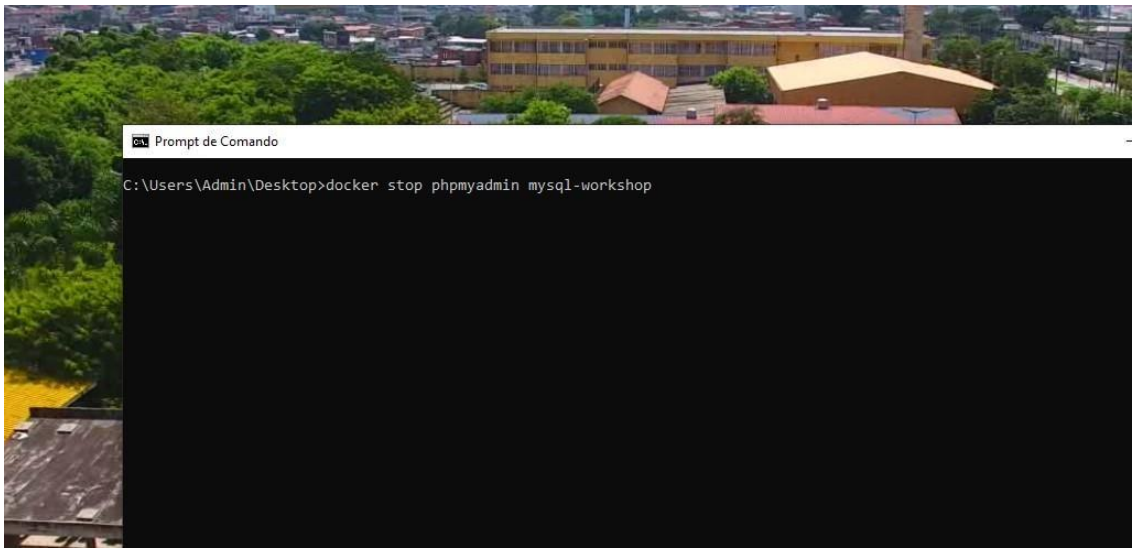
Coloque a senha: **1234**





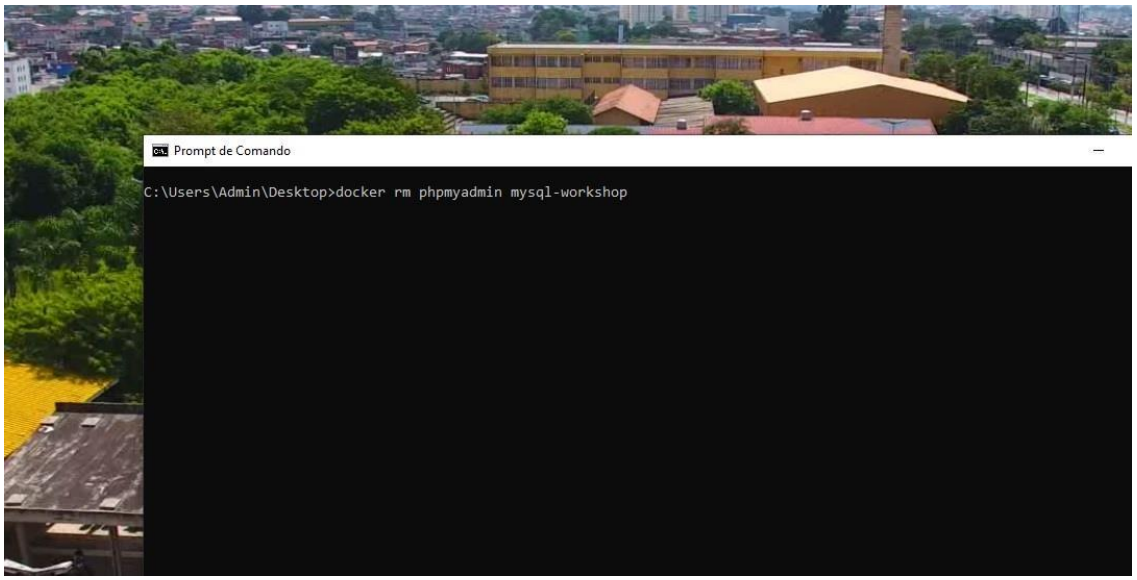
Pare o container com o código:

docker stop phpmyadmin mysql-container



E delete os containers com o código:

docker stop phpmyadmin mysql-container


Prompt de Comando
C:\Users\Admin\Desktop>docker rm phpmyadmin mysql-workshop