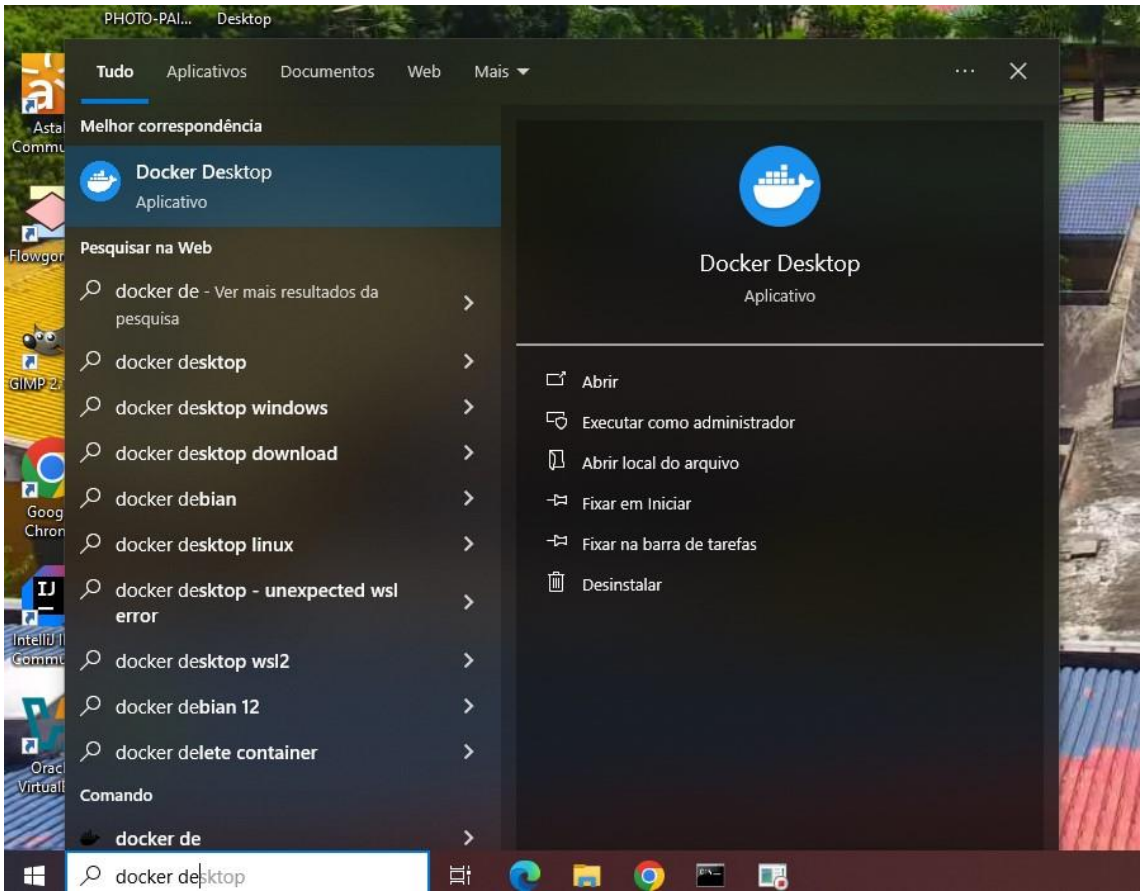
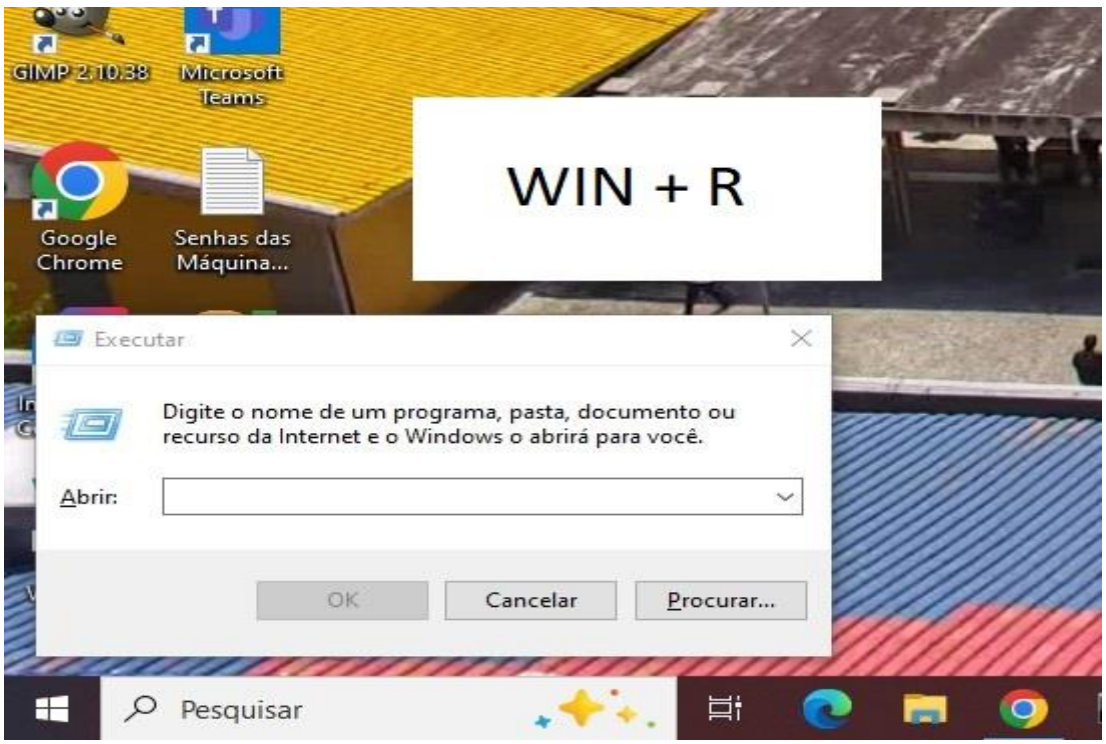
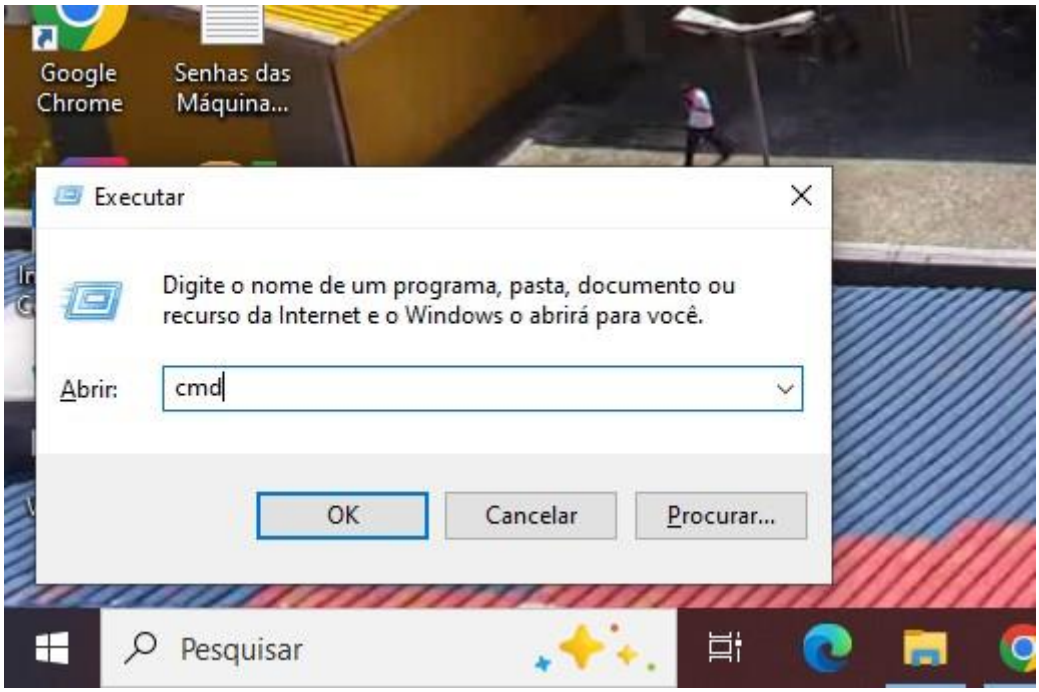
Abram o Docker Desktop, no menu iniciar

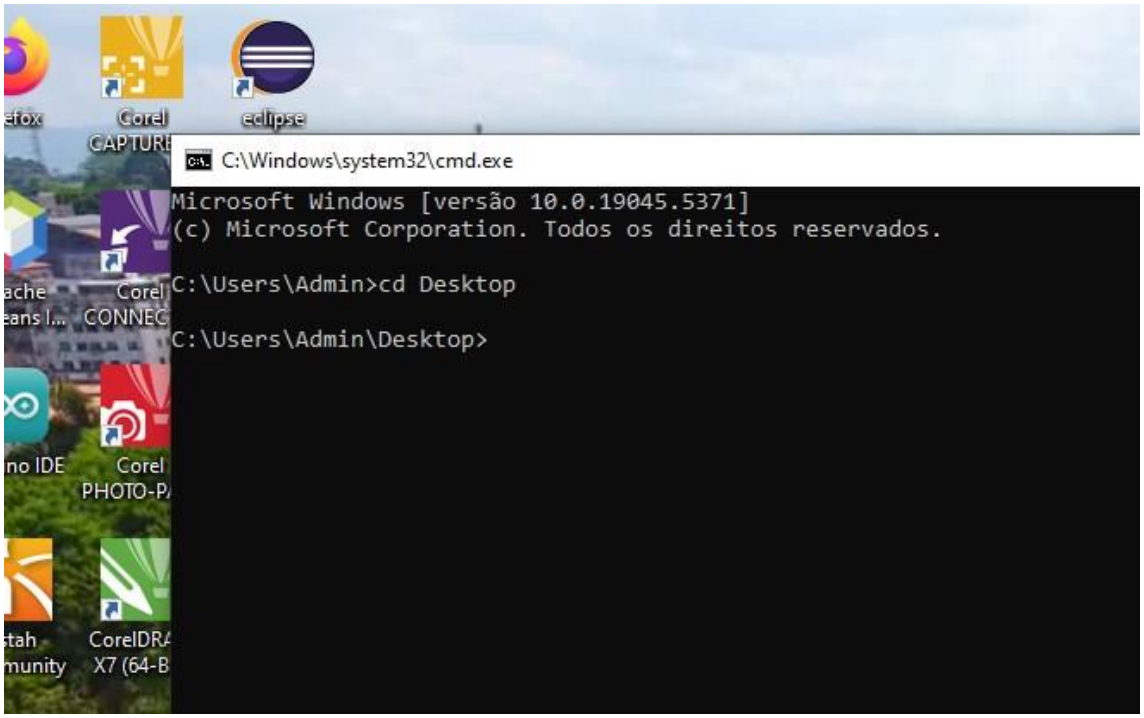


Em seguida abram o terminal (CMD)



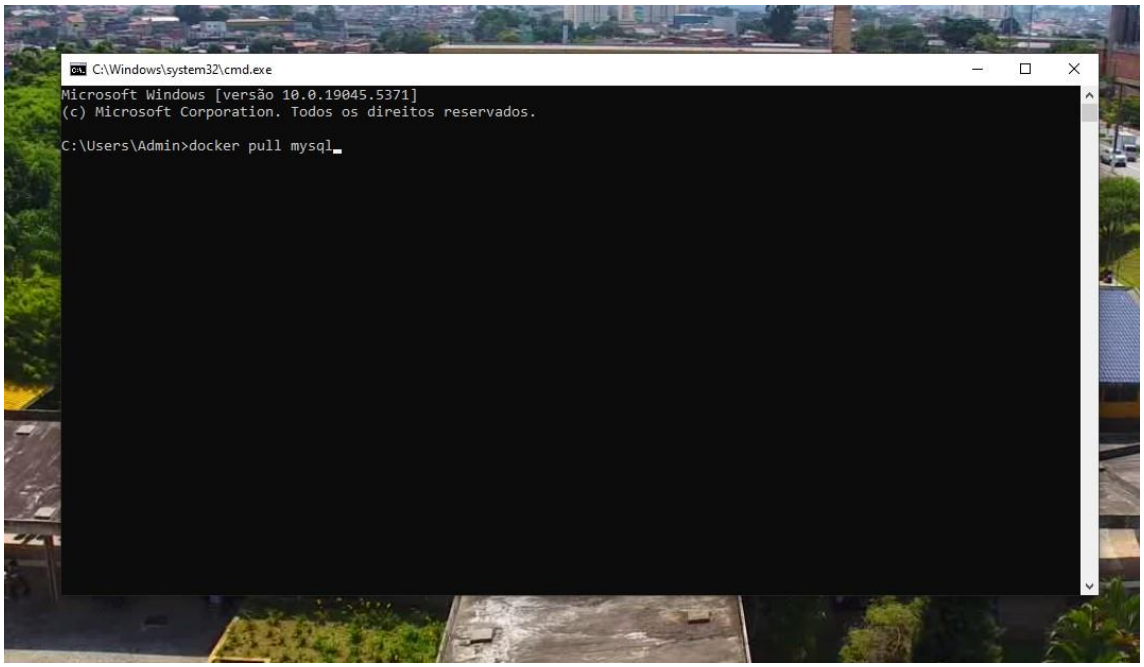


Vá para a área de trabalho (Desktop)



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 C:\Users\Admin\Desktop\Link:/var/lib/mysql -p 3306:3306 -d mysql:latest

Explicação do código:

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

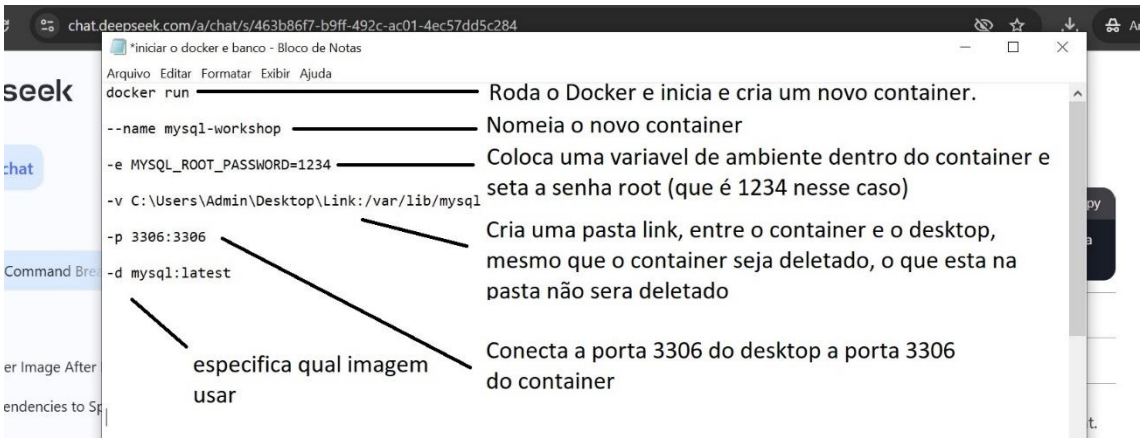
--name mysql-workshop: Nomeia o novo container;

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

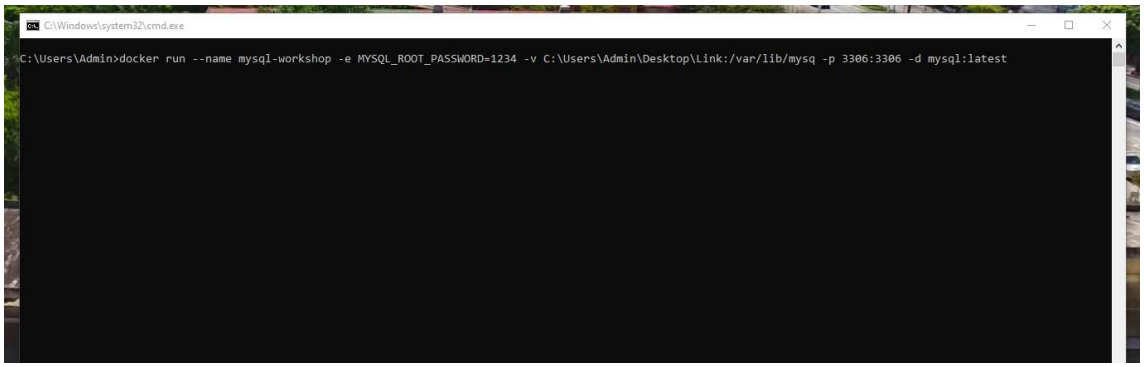
-v C:\Users\Admin\Desktop\Link:/var/lib/mysql: Cria uma pasta volume (link) entre o desktop e o container, ambos vão compartilhar o conteúdo da pasta;

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

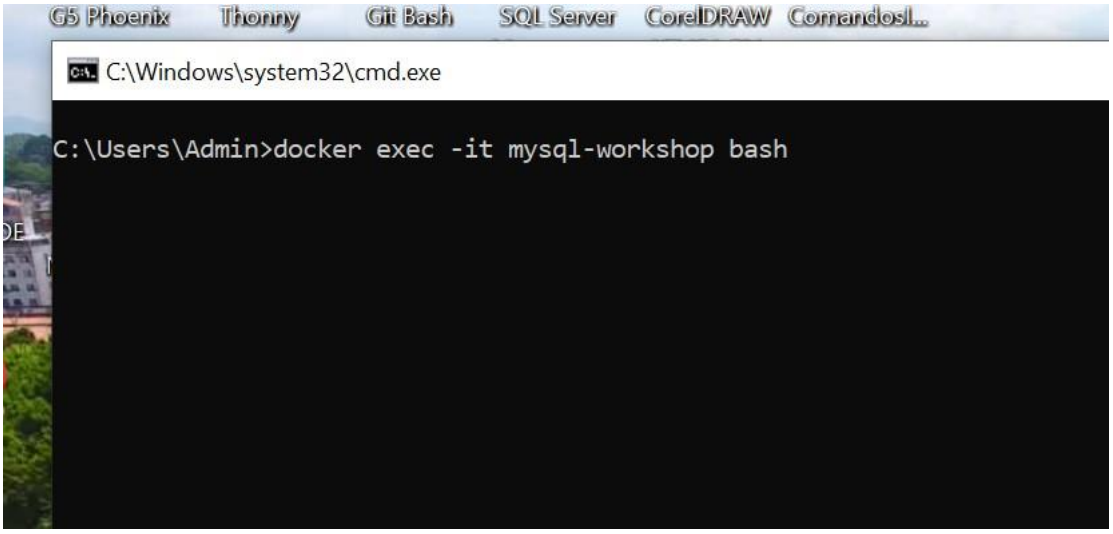
-d mysql:latest: Especifica qual imagem usar;

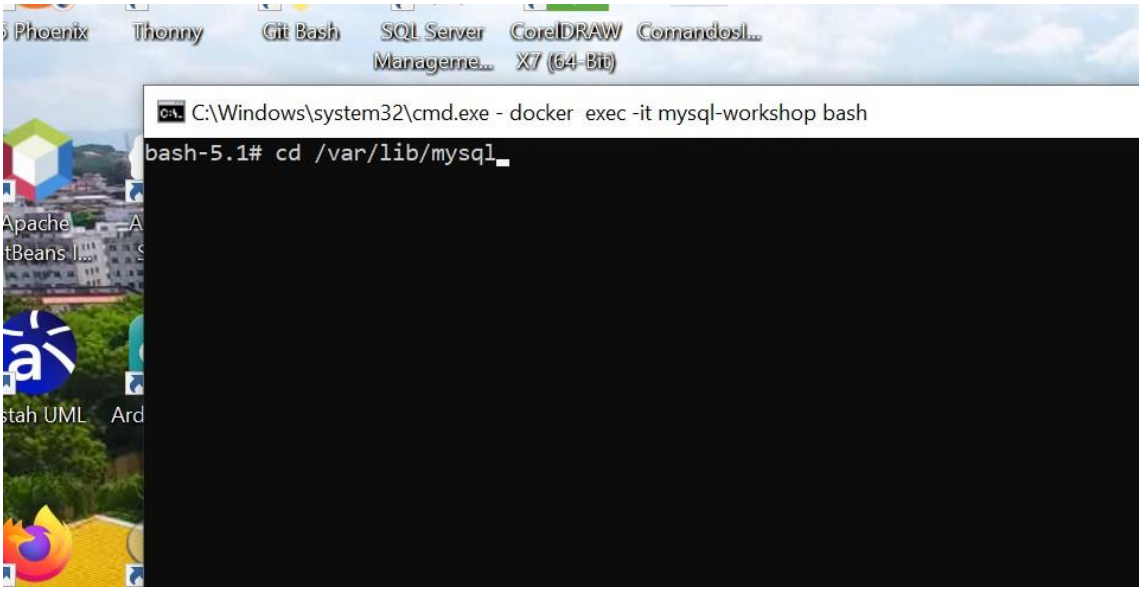


Executando no terminal

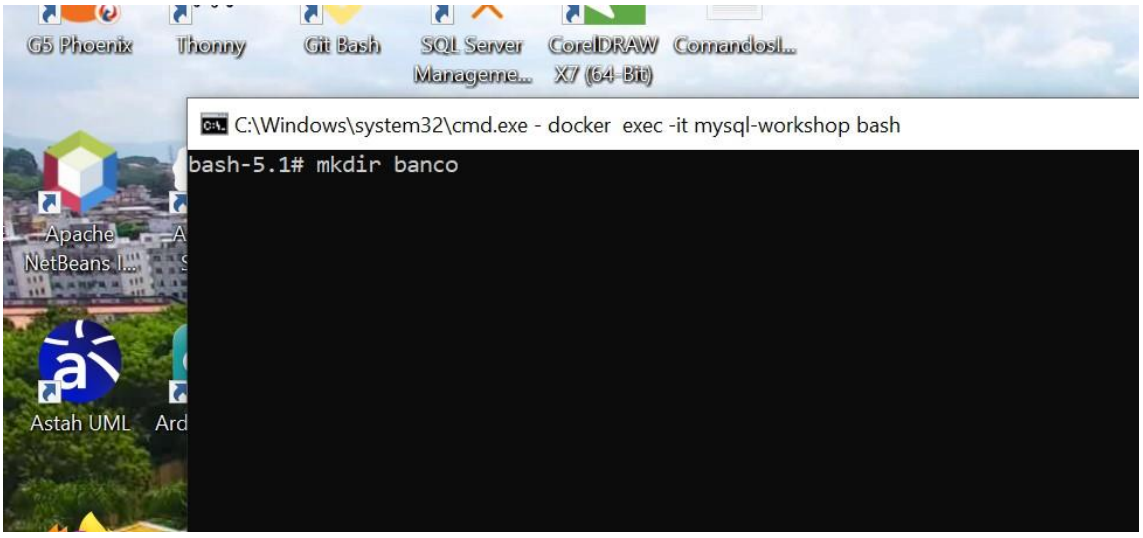


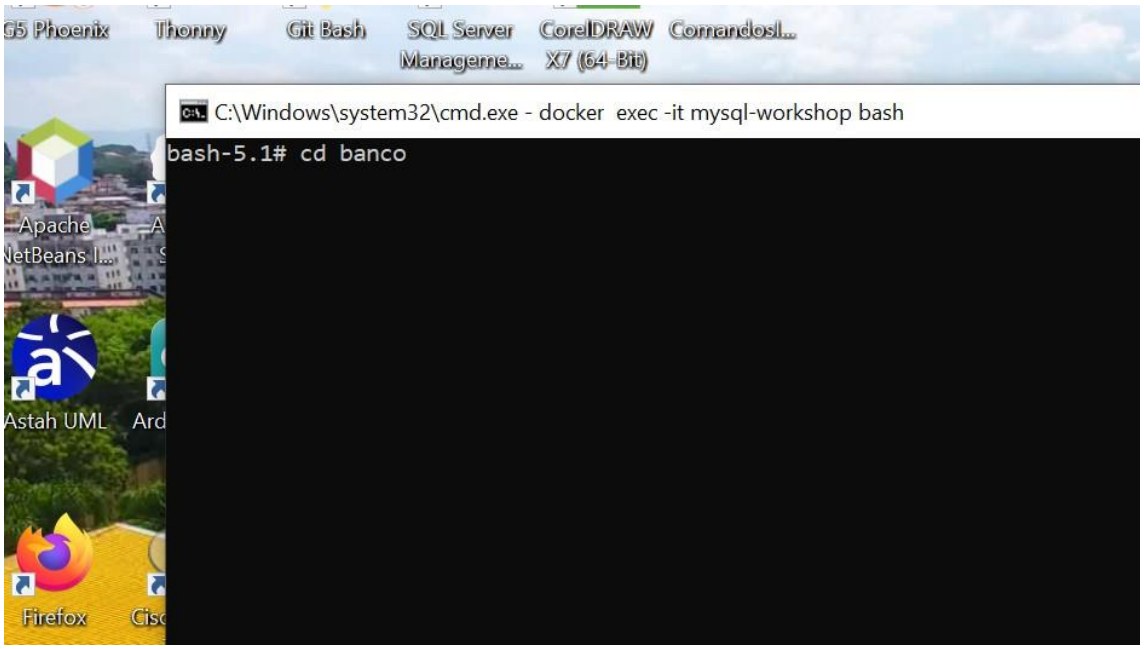
Agora entramos no bash do container, onde vamos para pasta mysql (a pasta volume);



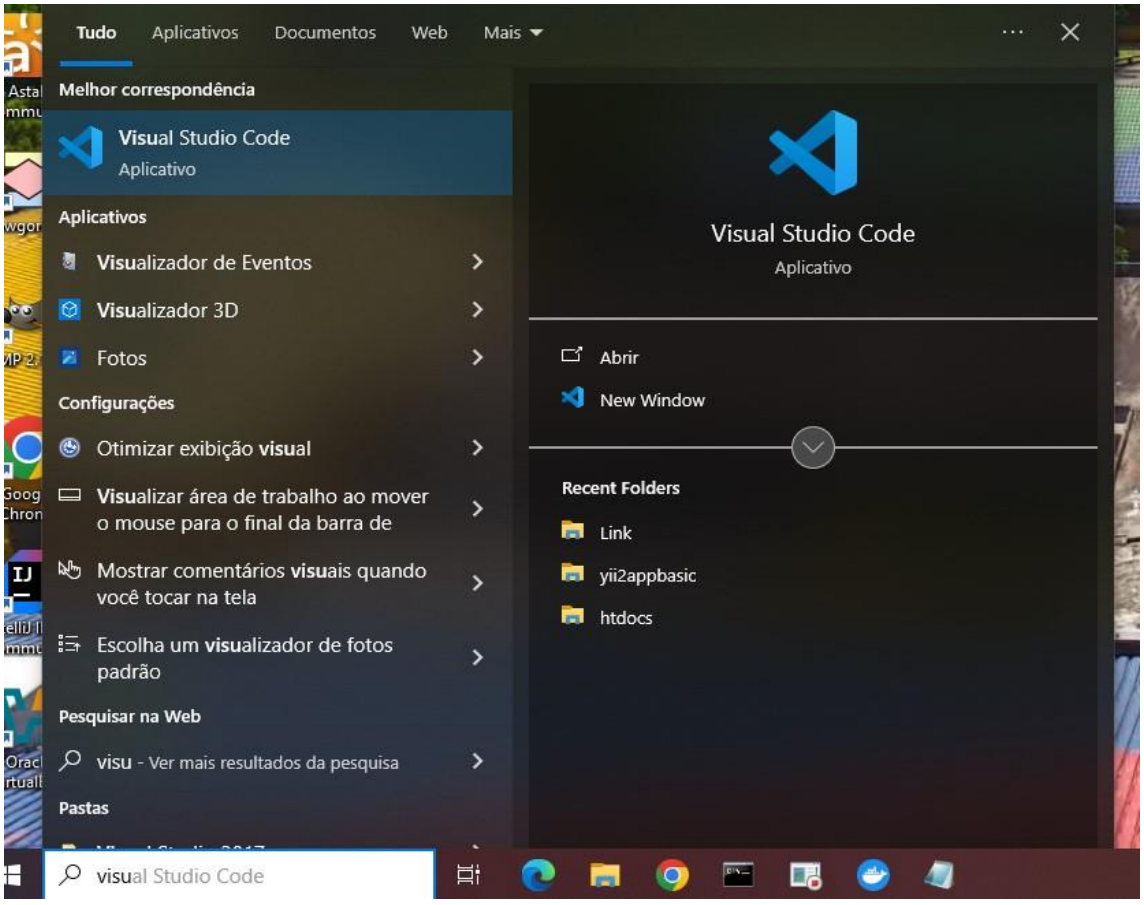


Crie uma pasta chamada “banco” e depois vamos para ela

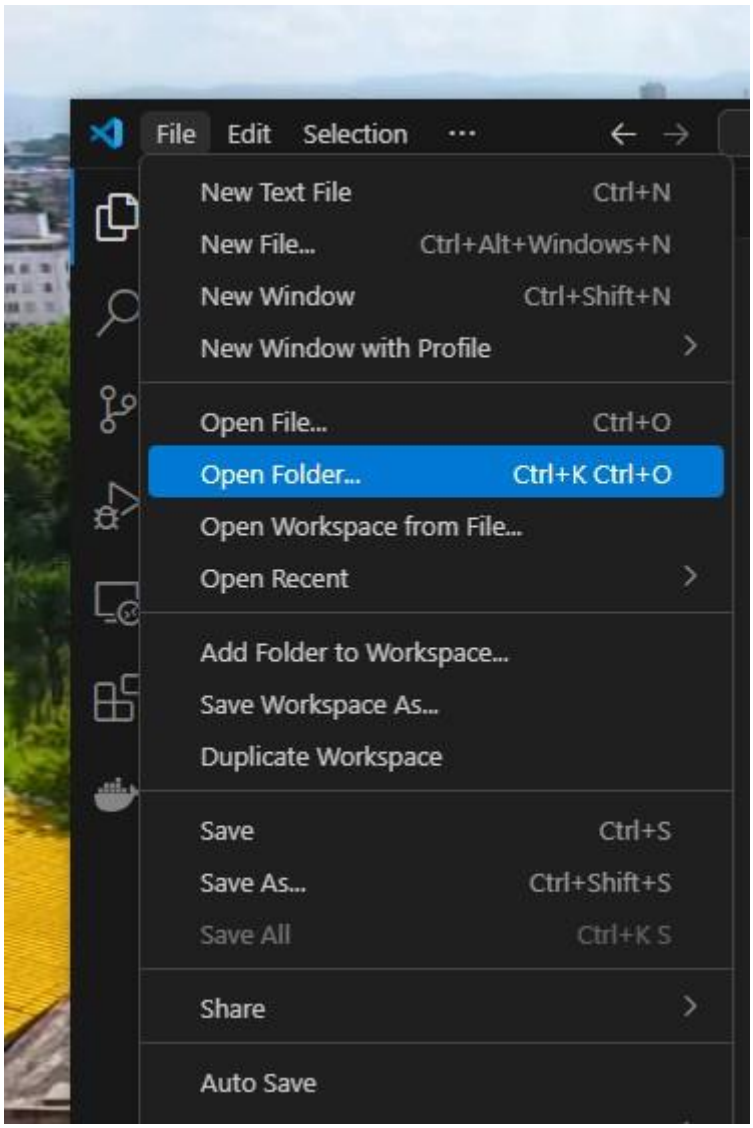


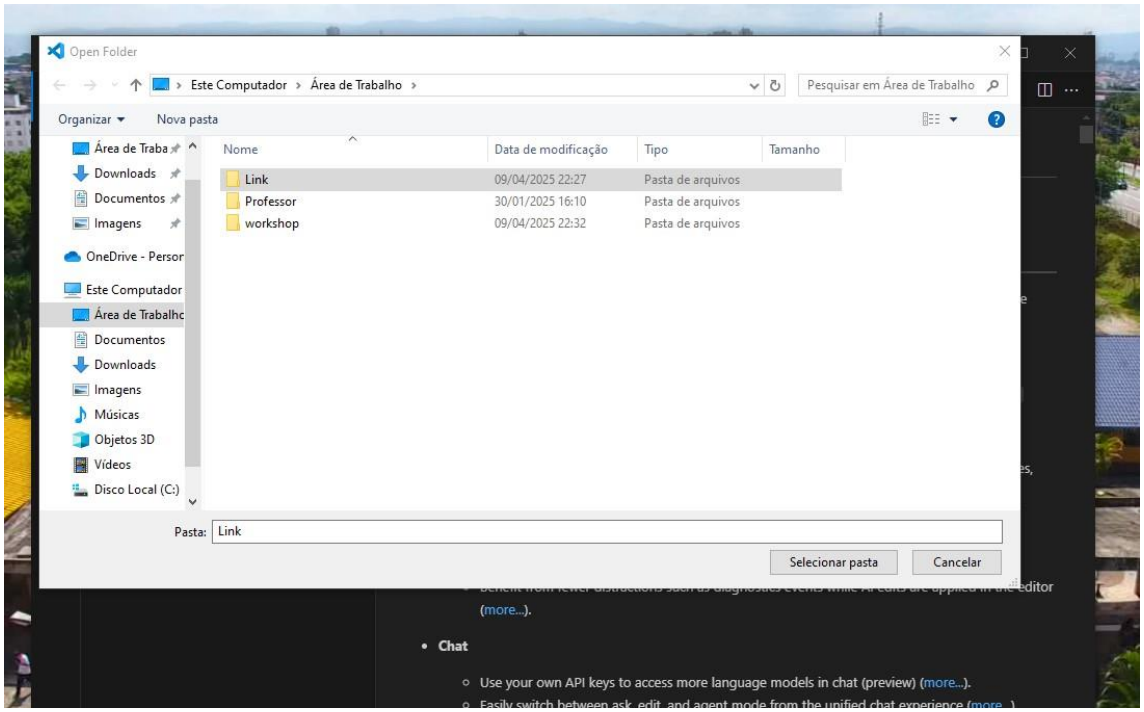


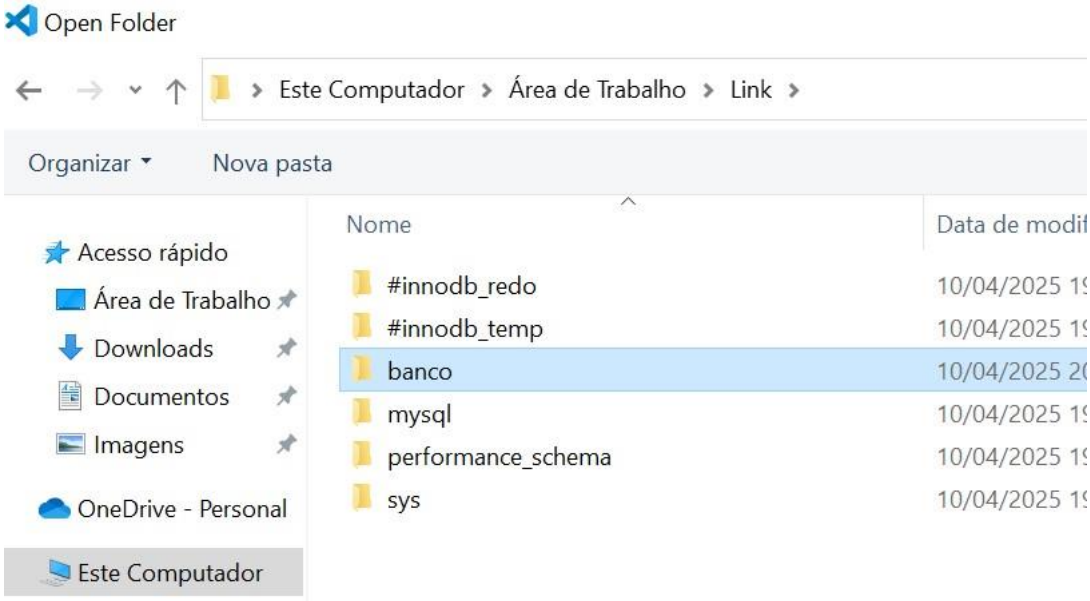
De volta no desktop, abra o visual studio code

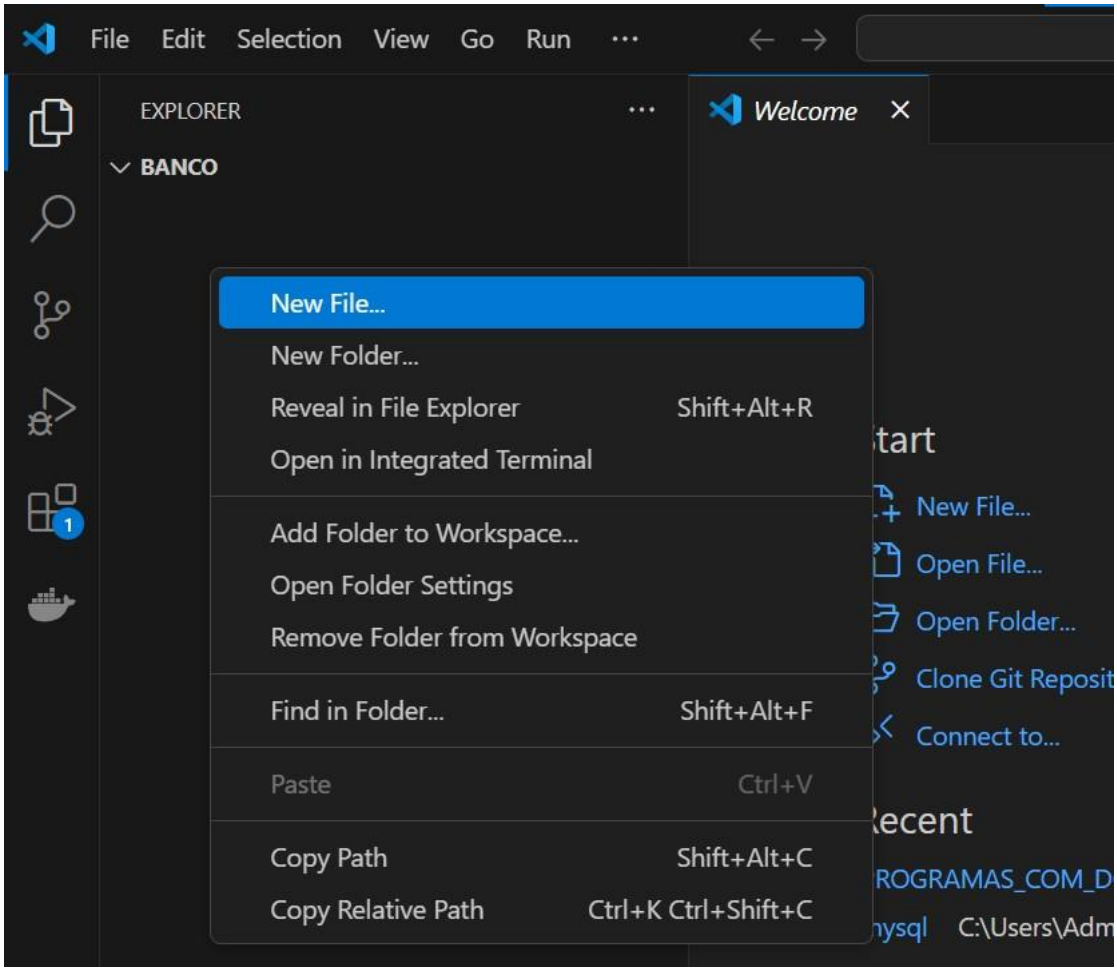


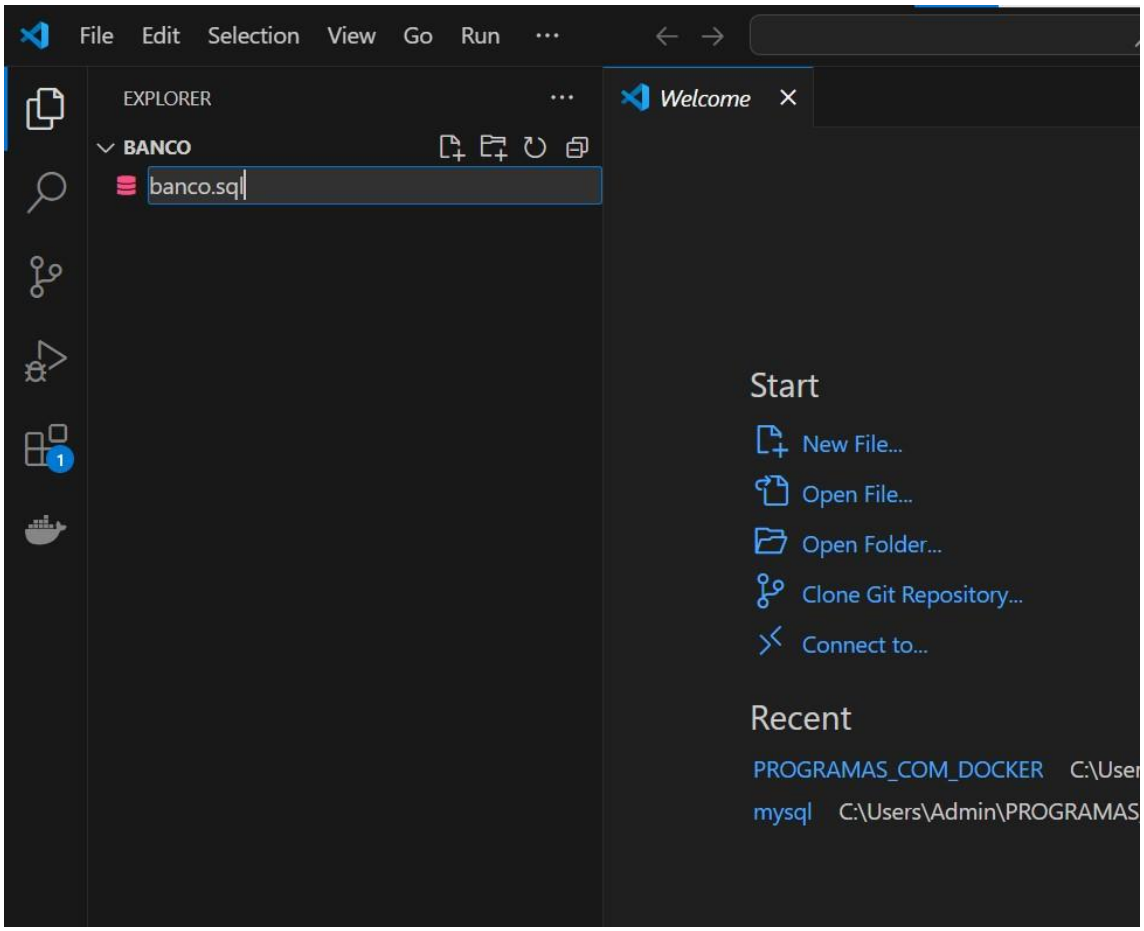
E abrir a pasta link/banco na área de trabalho e criar um novo arquivo “banco.sql”;


File
Edit
Selection
New Text File Ctrl+N
New File... Ctrl+Alt+Windows+N
New Window Ctrl+Shift+N
New Window with Profile
Open File... Ctrl+O
Open Folder... Ctrl+K Ctrl+O
Open Workspace from File...
Open Recent
Add Folder to Workspace...
Save Workspace As...
Duplicate Workspace
Save Ctrl+S
Save As... Ctrl+Shift+S
Save All Ctrl+K S
Share
Auto Save


Open Folder
Este Computador › Área de Trabalho ›
Pesquisar em Área de Trabalho
Organizar
Nova pasta
Área de Traba
Downloads
Documentos
Imagens
OneDrive - Persor
Este Computador
Área de Trabalho
Documentos
Downloads
Imagens
Músicas
Objetos 3D
Vídeos
Disco Local (C:)
Nome
Data de modificação
Tipo
Tamanho
Link 09/04/2025 22:27 Pasta de arquivos
Professor 30/01/2025 16:10 Pasta de arquivos
workshop 09/04/2025 22:32 Pasta de arquivos
Pasta: Link
Selecionar pasta
Cancelar
(more...).
Chat
Use your own API keys to access more language models in chat (preview) (more...).


Open Folder
Este Computador
Área de Trabalho
Link
Organizar
Nova pasta
Acesso rápido
Área de Trabalho
Downloads
Documentos
Imagens
OneDrive - Personal
Este Computador
Nome
Data de modif
#innodb_redo
10/04/2025 19
#innodb_temp
10/04/2025 19
banco
10/04/2025 20
mysql
10/04/2025 19
performance_schema
10/04/2025 19
sys
10/04/2025 19


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...
Clone Git Reposit
Connect to...
C:\Users\Adm



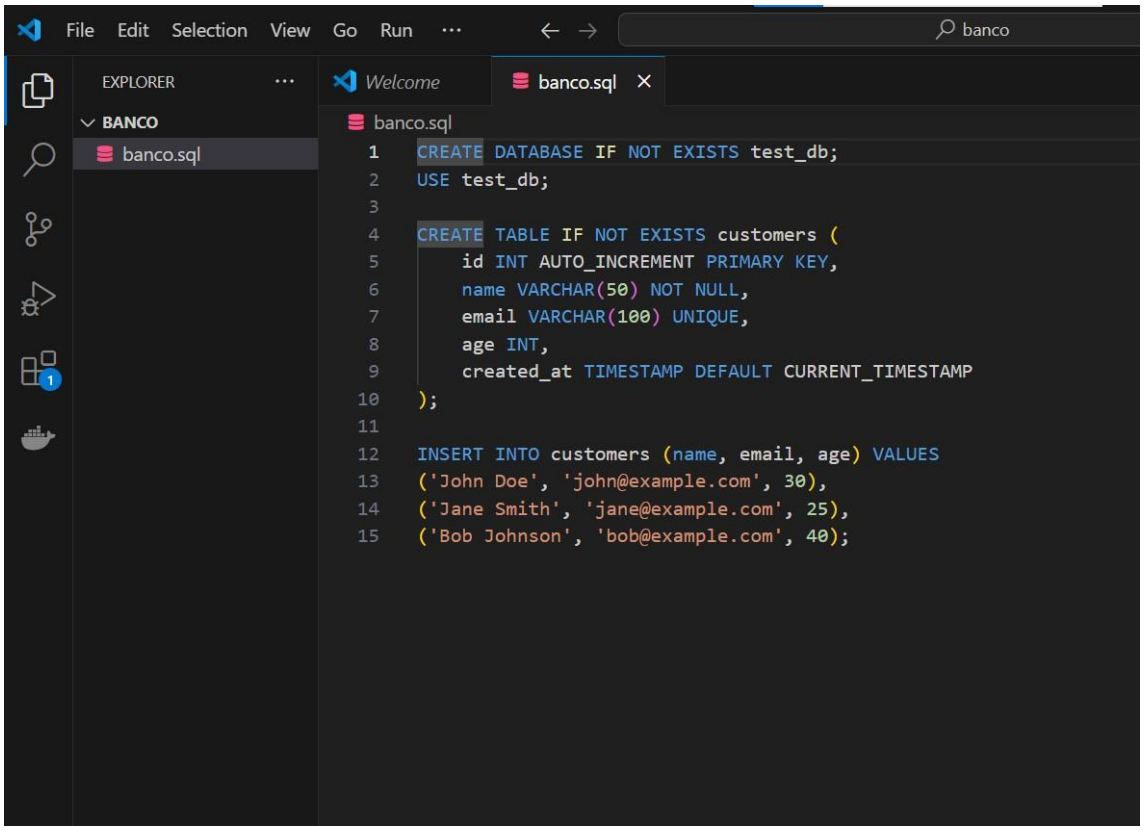
Cole o código abaixo no arquivo:

CREATE DATABASE IF NOT EXISTS test_db;

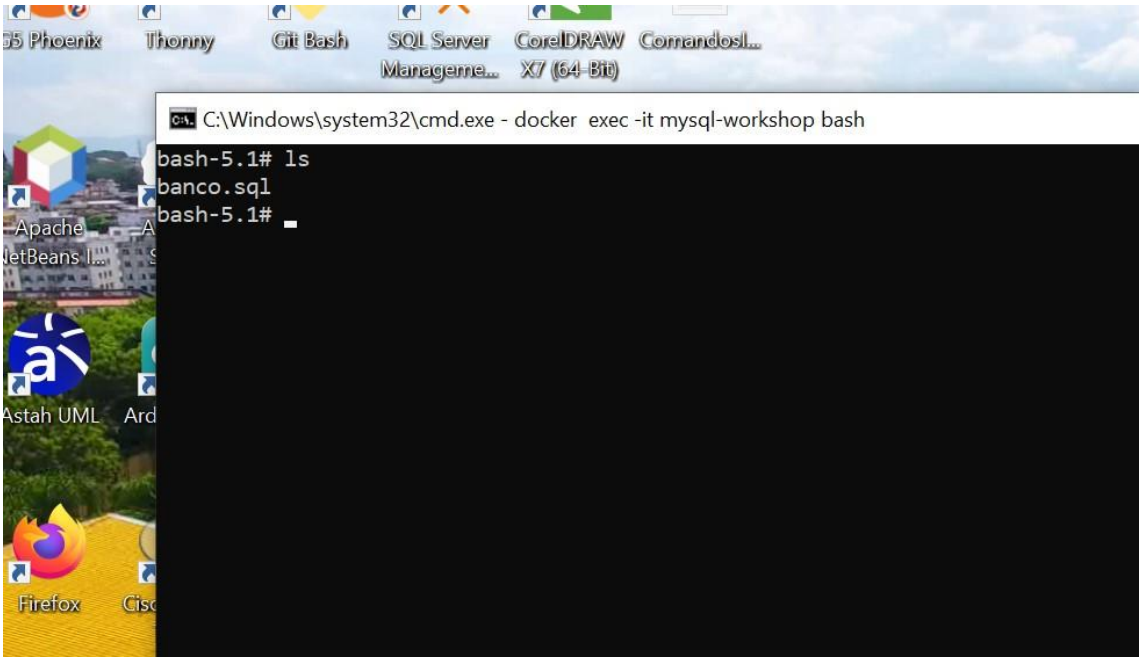
USE test_db;

```
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



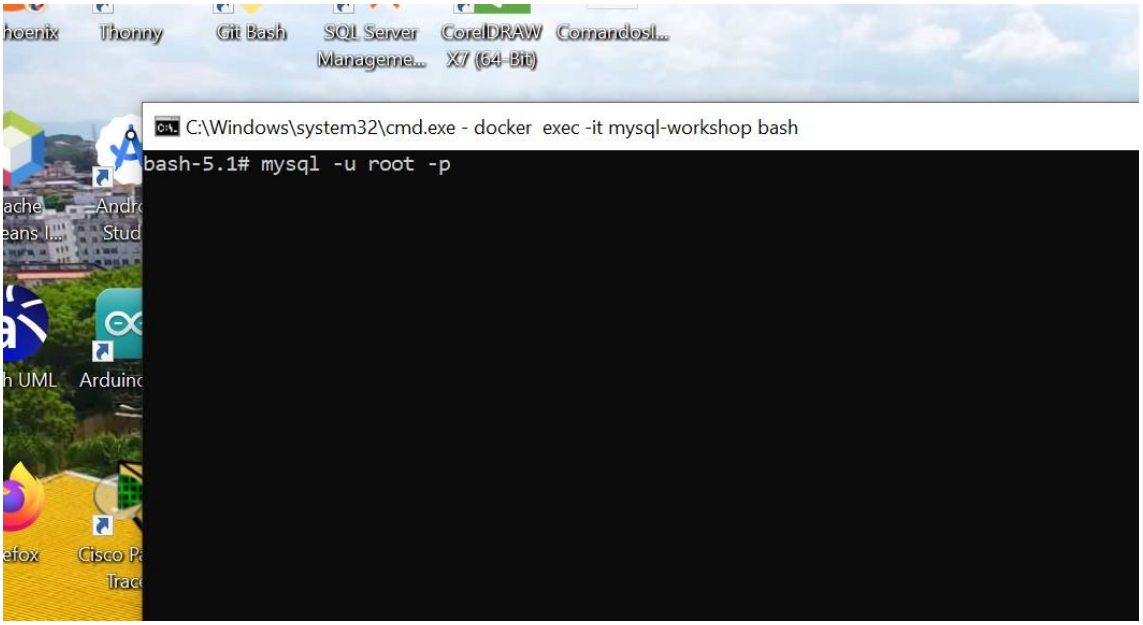
Inicie o mysql dentro do container com o código:

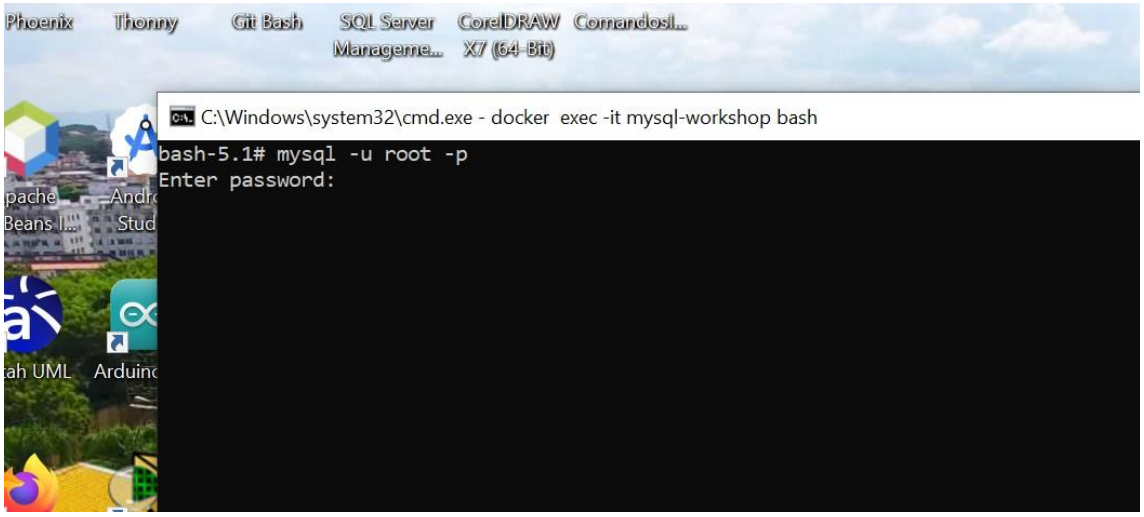
mysql -u root -p

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

-p: indica a senha (no caso é 1234).

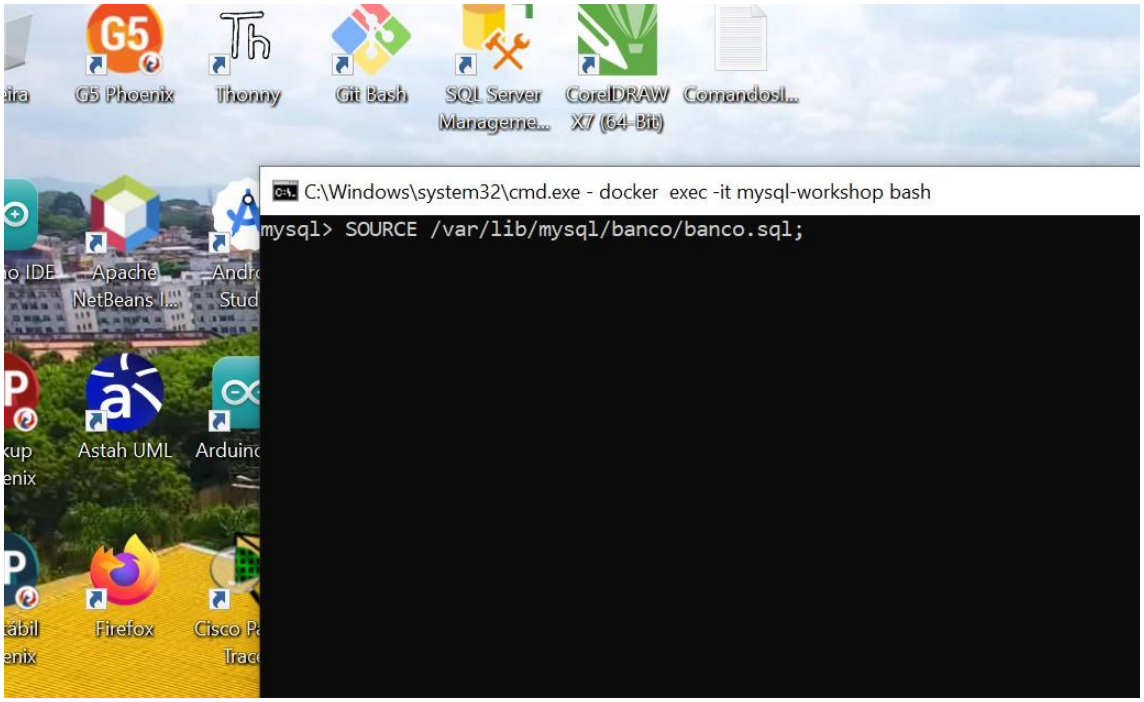
Após dar enter, o mysql ira pedir a senha





Execute o arquivo banco.sql com o código :

SOURCE /var/lib/mysql/banco.sql;



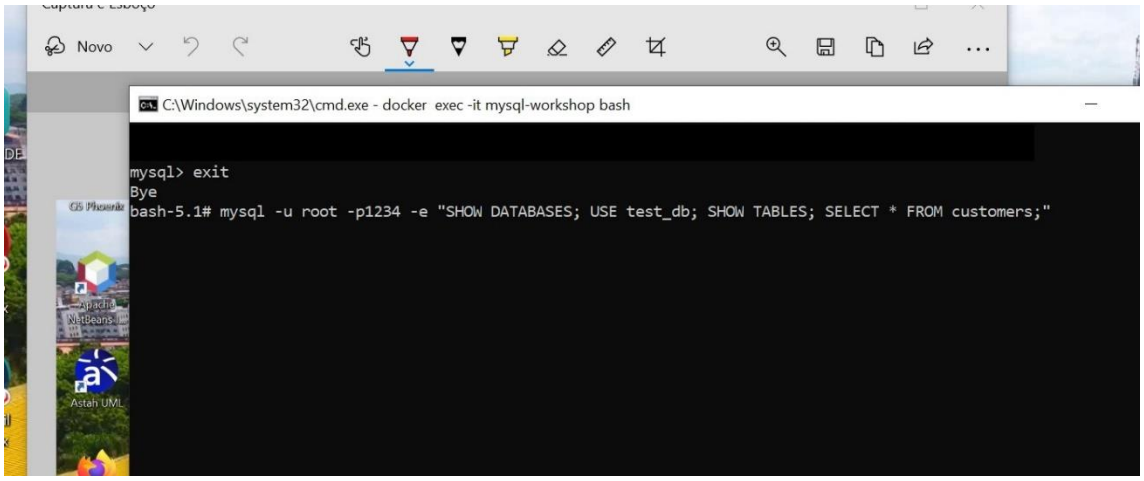
Após executar o arquivo, saia do mysql com o código:

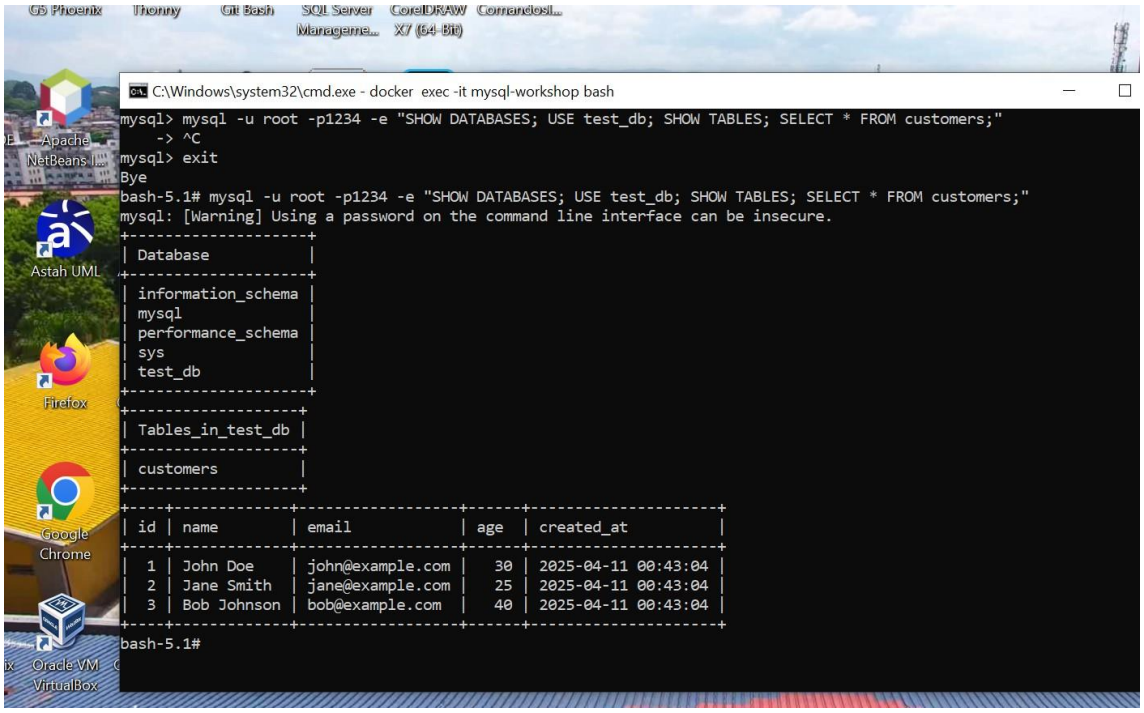
Exit

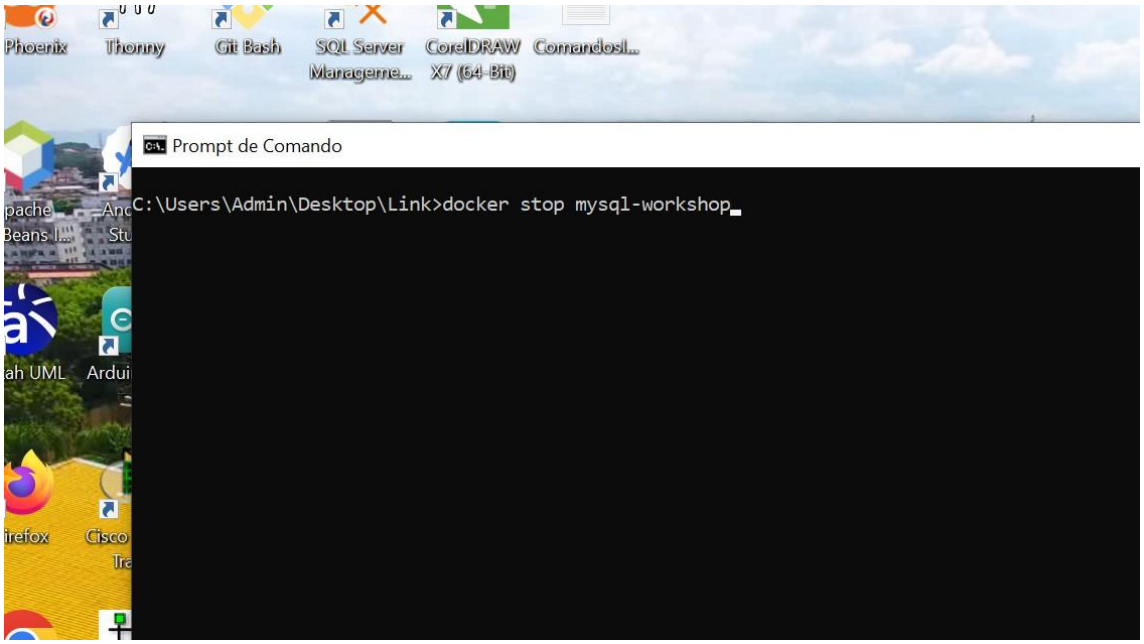
E teste para ver se o banco foi executado com sucesso com esse código:

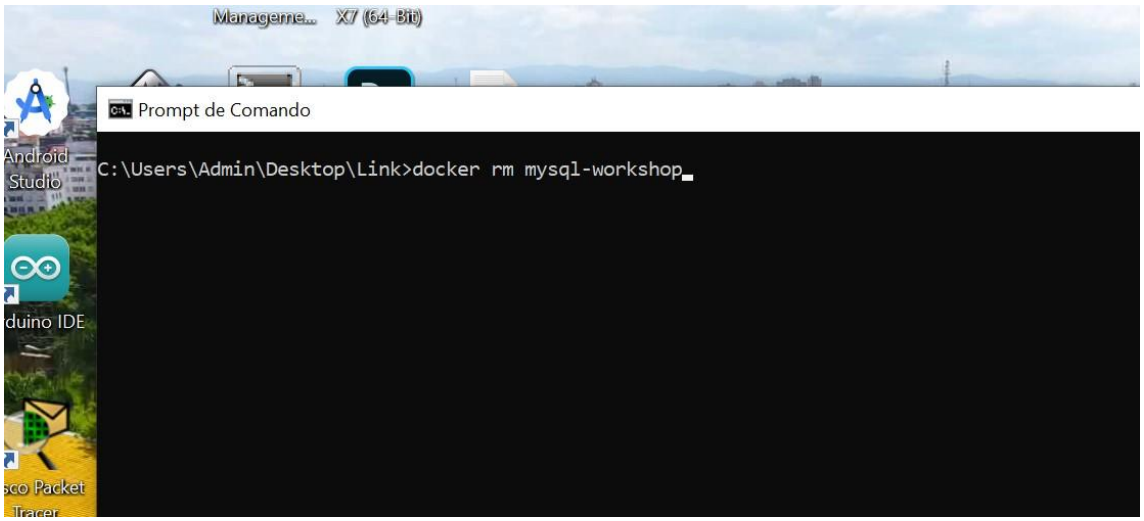
mysql -u root -p1234 -e "SHOW DATABASES; USE test_db; SHOW TABLES; SELECT * FROM clientes;"

Esse deve ser o resultado:


Novo
C:\Windows\system32\cmd.exe - docker exec -it mysql-workshop bash
mysql> exit
Bye
bash-5.1# mysql -u root -p1234 -e "SHOW DATABASES; USE test_db; SHOW TABLES; SELECT * FROM customers;"


C:\Windows\system32\cmd.exe - docker exec -it mysql-workshop bash
mysql> mysql -u root -p1234 -e "SHOW DATABASES; USE test_db; SHOW TABLES; SELECT * FROM customers;"
-> ^C
mysql> exit
Bye
bash-5.1# mysql -u root -p1234 -e "SHOW DATABASES; USE test_db; SHOW TABLES; SELECT * FROM customers;"
mysql: [Warning] Using a password on the command line interface can be insecure.
| Database |
| information_schema |
| mysql |
| performance_schema |
| sys |
| test_db |
| Tables_in_test_db |
| customers |
id	name	email	age	created_at
1	John Doe	john@example.com	30	2025-04-11 00:43:04
2	Jane Smith	jane@example.com	25	2025-04-11 00:43:04
3	Bob Johnson	bob@example.com	40	2025-04-11 00:43:04
bash-5.1#


Prompt de Comando
C:\Users\Admin\Desktop\Link>docker stop mysql-workshop


Manageme...
X7 (64-Bit)
Android Studio
duino IDE
sco Packet Tracer
Prompt de Comando
C:\Users\Admin\Desktop\Link>docker rm mysql-workshop