Atividade 6

Feita pelo aluno: Odílio Carneiro Gonçalves Nogueira Neto

1) Rodando mySql

```
###############################################################
#                        WARNING!!!!                          #
# This is a sandbox environment. Using personal credentials   #
# is HIGHLY! discouraged. Any consequences of doing so are    #
# completely the user's responsibilites.                      #
#                                                             #
# The PWD team.                                               #
###############################################################
[node1] (local) root@192.168.0.13 ~
$ docker run -d -p 3306:3306 --name meu-mysql \
  -e MYSQL_ROOT_PASSWORD=MinhaSenha \
  -e MYSQL_DATABASE=meubanco \
  -e MYSQL_USER=usuario \
  -e MYSQL_PASSWORD=senhausuario \
  mysql:latest
Unable to find image 'mysql:latest' locally
latest: Pulling from library/mysql
3d2798b2072a: Pull complete
f4b2a1d21561: Pull complete
515701765b17: Pull complete
c55f07fe1b6e: Pull complete
610c16d564ee: Pull complete
9db7a8f5c310: Pull complete
e6048afa6840: Pull complete
```

2) instalando o python 3

```
c55f07fe1b6e: Pull complete
610c16d564ee: Pull complete
9db7a8f5c310: Pull complete
e6048afa6840: Pull complete
56483034e3f1: Pull complete
4d45e5094a07: Pull complete
3b536f25676c: Pull complete
Digest: sha256:f1049ce35b3986b84c08184de43a0b2109ae037a4a10a23ecf373a893daeadf7
Status: Downloaded newer image for mysql:latest
a4b7c3e33a218b9f197902c118f1d3f307ee8e62d333eef46348121ddddcbb1c
[node1] (local) root@192.168.0.13 ~
$ python3 -m venv venv
source venv/bin/activate
pip install mysql-connector-python
Collecting mysql-connector-python
  Downloading mysql_connector_python-9.3.0-py2.py3-none-any.whl.metadata (7.3 kB)
Downloading mysql_connector_python-9.3.0-py2.py3-none-any.whl (399 kB)
Installing collected packages: mysql-connector-python
Successfully installed mysql-connector-python-9.3.0

[notice] A new release of pip is available: 24.2 -> 25.1.1
[notice] To update, run: pip install --upgrade pip
(venv) [node1] (local) root@192.168.0.13 ~
$ vi meu-mysql.py
```

3) criando o arquivo meu-mysql.py

```python
import mysql.connector

def main():
    # Ajuste os parâmetros conforme seu container
    conexao = mysql.connector.connect(
        host='192.168.0.13',        # ou o IP do host do Docker, se não for local
        port=3306,
        user='usuario',
        password='senhausuario',
        database='meubanco'
    )
    cursor = conexao.cursor()

    # Criação de tabela de exemplo
    cursor.execute("""
        CREATE TABLE IF NOT EXISTS pessoas (
            id INT AUTO_INCREMENT PRIMARY KEY,
            nome VARCHAR(100)
        )
    """)

    # Inserção de dados de exemplo
    cursor.execute("INSERT INTO pessoas (nome) VALUES ('Maria')")
```

```python
    cursor.execute("""
        CREATE TABLE IF NOT EXISTS pessoas (
            id INT AUTO_INCREMENT PRIMARY KEY,
            nome VARCHAR(100)
        )
    """)

    # Inserção de dados de exemplo
    cursor.execute("INSERT INTO pessoas (nome) VALUES ('Maria')")
    cursor.execute("INSERT INTO pessoas (nome) VALUES ('João')")
    conexao.commit()

    # Consulta de dados
    cursor.execute("SELECT * FROM pessoas")
    for row in cursor.fetchall():
        print(row)

    cursor.close()
    conexao.close()

if __name__ == "__main__":
    main()
```

4) Rodando o arquivo meu-mysql.py

```
(venv) [node1] (local) root@192.168.0.13 ~
$ python meu-mysql.py
(1, 'Maria')
(2, 'João')
```