Exercício-01 de Banco de Dados
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```
[node1] (local) root@192.168.0.28 ~
$ 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
56483034e3f1: Pull complete
4d45e5094a07: Pull complete
3b536f25676c: Pull complete
Digest: sha256:f1049ce35b3986b84c08184de43a0b2109ae037a4a10a23ecf373a893daeadf7
Status: Downloaded newer image for mysql:latest
7934ff8e0085080e0329ffa3d1ad1b70612eac4cae7f0dd68264aa32bb20e99e
[node1] (local) root@192.168.0.28 ~
$ mkdir projetopy
[node1] (local) root@192.168.0.28 ~
$ cd projetopy
```

```
[node1] (local) root@192.168.0.28 ~
$ cd projetopy
[node1] (local) root@192.168.0.28 ~/projetopy
$ echo primeiroprojeto.py
primeiroprojeto.py
[node1] (local) root@192.168.0.28 ~/projetopy
$ vi primeiroprojeto.py
[node1] (local) root@192.168.0.28 ~/projetopy
```

```
[node1] (local) root@192.168.0.28 ~/projetopy
$ cat primeiroprojeto.py
import mysql.connector

def main():
    # Ajuste os parâmetros conforme seu container
    conexao = mysql.connector.connect(
        host='127.0.0.1',          # 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')")
    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()
```

```
[node1] (local) root@192.168.0.28 ~/projetopy
$ python3 -m venv venv
[node1] (local) root@192.168.0.28 ~/projetopy
$ source venv/bin/activate
(venv) [node1] (local) root@192.168.0.28 ~/projetopy
$ 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@192.168.0.28 ~/projetopy
$ python primeiroprojeto.py
(1, 'Maria')
(2, 'João')
(venv) [node1] (local) root@192.168.0.28 ~/projetopy
```