Avaliação-06 de Banco de Dados

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```
!pip install mysql-connector-python

!apt-get -y install mysql-server

!service mysql start

!mysql -e "ALTER USER 'root'@'localhost' IDENTIFIED WITH 'mysql_native_password' BY 'root'; FLUSH PRIVILEGES;"

import mysql.connector

conn = mysql.connector.connect(
    user='root',
    password='root',
    host='localhost'
)
cursor = conn.cursor()

cursor.execute("CREATE DATABASE IF NOT EXISTS library")
cursor.execute("USE library")
cursor.execute("""
CREATE TABLE IF NOT EXISTS books (
    id INT AUTO_INCREMENT PRIMARY KEY,
    title VARCHAR(255) NOT NULL,
    author VARCHAR(255) NOT NULL,
    year_published INT
)
""")
cursor.close()
conn.close()
```

```
import mysql.connector

conn = mysql.connector.connect(
    user='root',
    password='root',
    host='localhost',
    database='library'
)
cursor = conn.cursor()
books_data = [
    ("To Kill a Mockingbird", "Harper Lee", 1960),
    ("1984", "George Orwell", 1949),
    ("The Great Gatsby", "F. Scott Fitzgerald", 1925)
]
cursor.executemany(
    "INSERT INTO books (title, author, year_published) VALUES (%s, %s, %s)",
    books_data
)
conn.commit()
cursor.close()
conn.close()
```

```python
import mysql.connector

conn = mysql.connector.connect(
    user='root',
    password='root',
    host='localhost',
    database='library'
)
cursor = conn.cursor()

cursor.execute("SELECT * FROM books")
records = cursor.fetchall()
print("Todos os livros:")
for record in records:
    print(record)

cursor.execute("SELECT * FROM books WHERE year_published < 1950")
classics = cursor.fetchall()
print("\nClássicos (antes de 1950):")
for book in classics:
    print(book)

cursor.close()
conn.close()
```

```
Requirement already satisfied: mysql-connector-python in /usr/local/lib/python3.11/dist-packages (9.3.0)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
mysql-server is already the newest version (8.0.42-0ubuntu0.22.04.2).
0 upgraded, 0 newly installed, 0 to remove and 35 not upgraded.
 * Starting MySQL database server mysqld
   ...done.
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: NO)
Todos os livros:
(1, 'To Kill a Mockingbird', 'Harper Lee', 1960)
(2, '1984', 'George Orwell', 1949)
(3, 'The Great Gatsby', 'F. Scott Fitzgerald', 1925)
(4, 'To Kill a Mockingbird', 'Harper Lee', 1960)
(5, '1984', 'George Orwell', 1949)
(6, 'The Great Gatsby', 'F. Scott Fitzgerald', 1925)

Clássicos (antes de 1950):
(2, '1984', 'George Orwell', 1949)
(3, 'The Great Gatsby', 'F. Scott Fitzgerald', 1925)
(5, '1984', 'George Orwell', 1949)
(6, 'The Great Gatsby', 'F. Scott Fitzgerald', 1925)
```