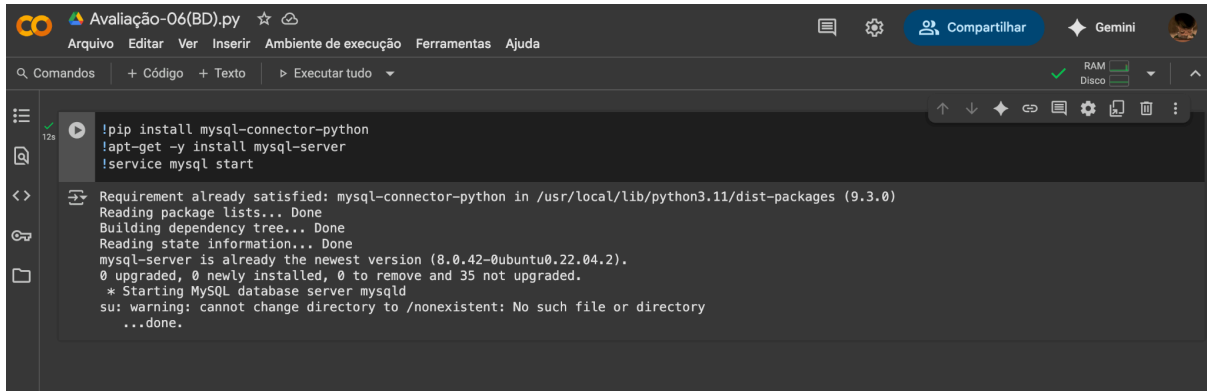


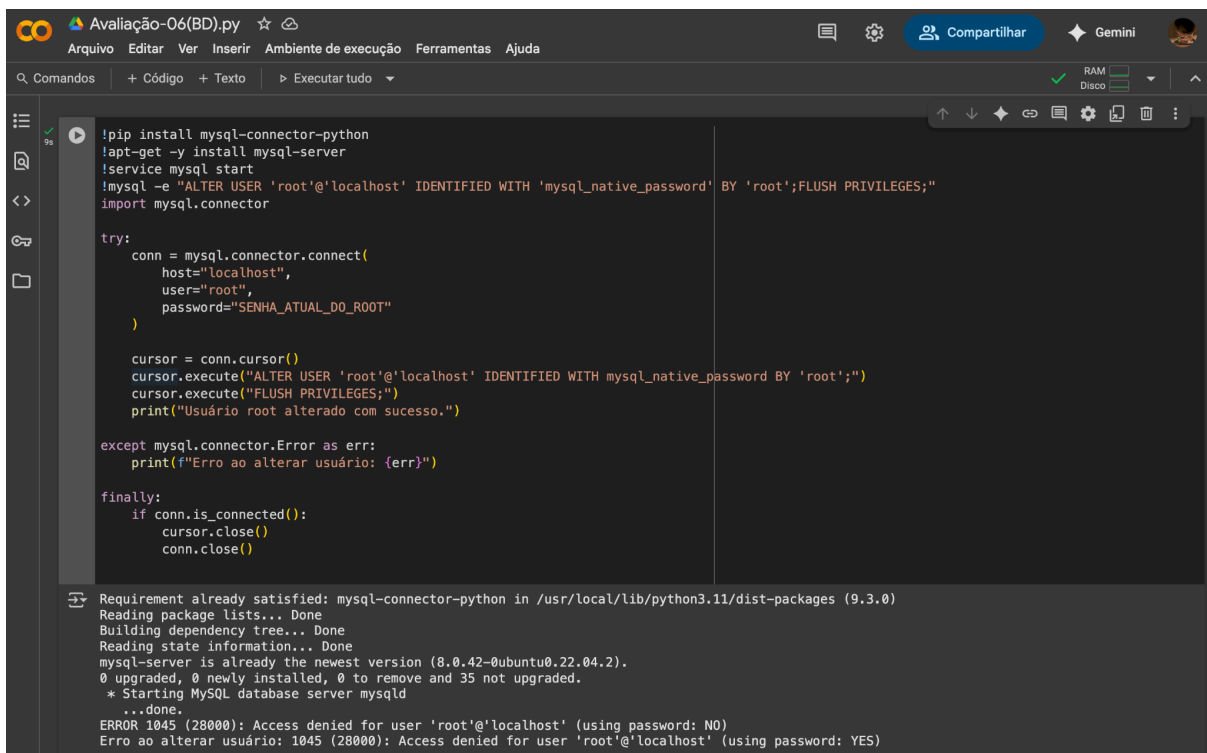
Avaliação-06| Banco de Dados

Nome: Kamyly Ferreira da Paixão| P4 de informática



```
!pip install mysql-connector-python
!apt-get -y install mysql-server
!service mysql start

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
su: warning: cannot change directory to /nonexistent: No such file or directory
...done.
```



```
!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

try:
    conn = mysql.connector.connect(
        host="localhost",
        user="root",
        password="SENHA_ATUAL_DO_ROOT"
    )

    cursor = conn.cursor()
    cursor.execute("ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'root';")
    cursor.execute("FLUSH PRIVILEGES;")
    print("Usuário root alterado com sucesso.")

except mysql.connector.Error as err:
    print(f"Erro ao alterar usuário: {err}")

finally:
    if conn.is_connected():
        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)
Erro ao alterar usuário: 1045 (28000): Access denied for user 'root'@'localhost' (using password: YES)
```

```
Comando(AV06) ☆
Arquivo Editar Ver Inserir Ambiente de execução Ferramentas Ajuda

Comandos + Código + Texto ▶ Executar tudo

!apt-get update
!apt-get -y install mysql-server
!service mysql start
!mysql -e "ALTER USER 'root'@'localhost' IDENTIFIED WITH 'mysql_native_password' BY 'root';FLUSH PRIVILEGES;"

Get:1 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Hit:2 http://archive.ubuntu.com/ubuntu jammy InRelease
Get:3 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:4 https://cloud.r-project.org/bin/linux/ubuntu jammy-cran40/ InRelease [3,632 B]
Get:5 http://archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
Get:6 https://developer.download.nvidia.com/compute/cuda/repos/ubuntu2204/x86_64 InRelease [1,581 B]
Hit:7 https://ppa.launchpadcontent.net/deadsnakes/ppa/ubuntu jammy InRelease
Hit:8 https://ppa.launchpadcontent.net/graphics-drivers/ppa/ubuntu jammy InRelease
Hit:9 https://ppa.launchpadcontent.net/ubuntugis/ppa/ubuntu jammy InRelease
Get:10 http://archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [75.9 kB]
Get:11 https://r2u.stat.illinois.edu/ubuntu jammy InRelease [6,555 B]
Get:12 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1,571 kB]
Get:13 http://archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [5,031 kB]
Get:14 https://developer.download.nvidia.com/compute/cuda/repos/ubuntu2204/x86_64 Packages [1,809 kB]
Get:15 https://r2u.stat.illinois.edu/ubuntu jammy/main all Packages [9,115 kB]
Get:16 https://r2u.stat.illinois.edu/ubuntu jammy/main amd64 Packages [2,761 kB]
Fetched 20.8 MB in 5s (4,447 kB/s)
Reading package lists... Done
W: Skipping acquire of configured file 'main/source/Sources' as repository 'https://r2u.stat.illinois.edu/ubuntu jammy InRelease' does not seem
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libcgi-fast-perl libcgi-pm-perl libclone-perl libencode-locale-perl
  libfcgi-bin libfcgi-perl libfcgi0ldbl libhtml-parser-perl
  libhtml-tagset-perl libhtml-template-perl libhttp-date-perl
  libhttp-message-perl libio-html-perl liblwp-mediatypes-perl libmecab2
  libprotobuf-lite23 liburi-perl liburi-perl liburi-perl liburi-perl liburi-perl
  mysql-client-8.0 mysql-client-core-8.0 mysql-server-8.0
  mysql-server-core-8.0
Suggested packages:
  libdata-dump-perl libipc-sharedcache-perl libbusiness-isbn-perl libwww-perl
  mailx tinyca
The following NEW packages will be installed:
  libcgi-fast-perl libcgi-pm-perl libclone-perl libencode-locale-perl
```

```
Avaliação-06(BD).py ☆
Arquivo Editar Ver Inserir Ambiente de execução Ferramentas Ajuda

Comandos + Código + Texto ▶ Executar tudo

!pip install mysql-connector-python
!apt-get -y install mysql-server
!service mysql start
import mysql.connector

# Create a connection to the MySQL server
conn = mysql.connector.connect(user='root', password='root', host='localhost')

# Create a cursor to interact with the MySQL server
cursor = conn.cursor()
# Create a new database named 'library'
cursor.execute("CREATE DATABASE IF NOT EXISTS library")

# Switch to the 'library' database
cursor.execute("USE library")

# Create the 'books' table
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
)
''')

# Always remember to close the cursor and connection when done
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
```

The image shows a code editor window with a dark theme. The title bar at the top reads "Avaliação-06(BD).py". The menu bar includes "Arquivo", "Editar", "Ver", "Inserir", "Ambiente de execução", "Ferramentas", and "Ajuda". The editor contains a Python script that connects to a MySQL database and inserts data. The code is as follows:

```
# Connect to the MySQL server and the 'library' database
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)
]

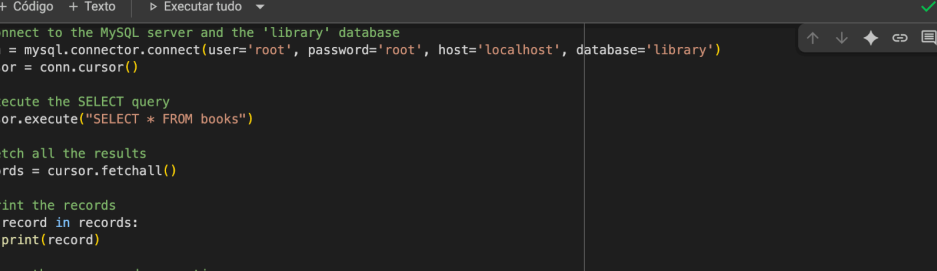
# Insert data using the cursor
cursor.executemany('''
INSERT INTO books (title, author, year_published) VALUES (%s, %s, %s)
''', books_data)

# Commit the changes
conn.commit()

# Close the cursor and connection
cursor.close()
conn.close()
|
```

The terminal output at the bottom shows the following text:

```
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.
```



The screenshot shows a code editor with a dark theme. The top bar includes a file explorer on the left, a menu bar with 'Arquivo', 'Editar', 'Ver', 'Inserir', 'Ambiente de execução', 'Ferramentas', and 'Ajuda', and a top right area with a chat icon, a settings gear, a 'Compartilhar' button, and a 'Gemini' logo. The main editor area contains a Python script that connects to a MySQL database, executes a SELECT query to fetch all records from a table named 'books', and prints the results. The script uses the mysql.connector library. The output pane at the bottom shows the execution results, indicating that the requirements are satisfied and the MySQL server is started, followed by a list of book records.

```
# Connect to the MySQL server and the 'library' database
conn = mysql.connector.connect(user='root', password='root', host='localhost', database='library')
cursor = conn.cursor()

# Execute the SELECT query
cursor.execute("SELECT * FROM books")

# Fetch all the results
records = cursor.fetchall()

# Print the records
for record in records:
    print(record)

# Close the cursor and connection
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.
(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)

```
# Connect to the MySQL server and the 'library' database
conn = mysql.connector.connect(user='root', password='root', host='localhost', database='library')
cursor = conn.cursor()
cursor.execute("SELECT * FROM books WHERE year_published < 1950")
classics = cursor.fetchall()
```

```
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.
(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)
(7, 'To Kill a Mockingbird', 'Harper Lee', 1960)
(8, '1984', 'George Orwell', 1949)
(9, 'The Great Gatsby', 'F. Scott Fitzgerald', 1925)
```