

Avaliação 06- Banco de Dados

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PASSO 1

```
!pip install mysql-connector-python
```

Collecting mysql-connector-python
Downloading mysql_connector_python-9.3.0-cp311-cp311-manylinux_2_28_x86_64.whl.metadata (7.2 kB)
Downloading mysql_connector_python-9.3.0-cp311-cp311-manylinux_2_28_x86_64.whl (33.9 MB)
33.9/33.9 MB 21.4 MB/s eta 0:00:00
Installing collected packages: mysql-connector-python
Successfully installed mysql-connector-python-9.3.0

+ Código + Texto

PASSO 2

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

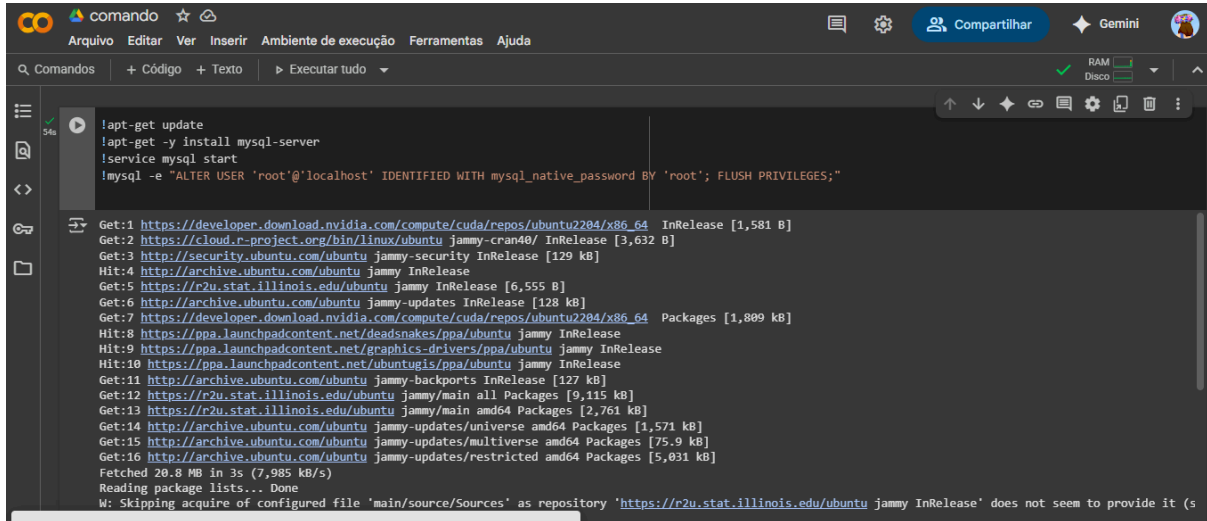
Requirement already satisfied: mysql-connector-python in /usr/local/lib/python3.11/dist-packages
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
libcgi-fast-perl libcgi-pm-perl libclone-perl libencode-locale-perl
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 mecab-ipadic mecab-ipadic-utf8 mecab-utils
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 tinycat
The following NEW 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 mecab-ipadic mecab-ipadic-utf8 mecab-utils

PASSO 3

```
!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.

PASSO 4 (Em outro documento)



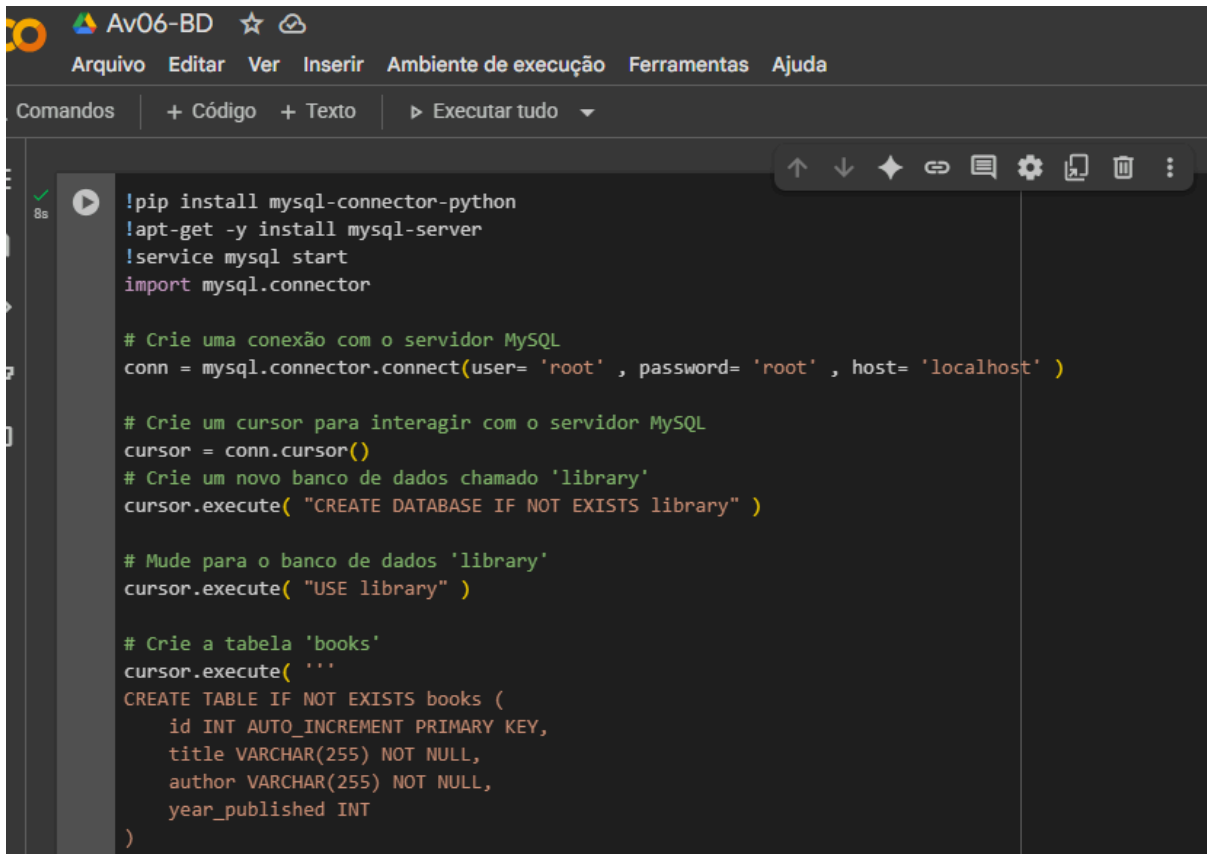
```
comando
Arquivo Editar Ver Inserir Ambiente de execução Ferramentas Ajuda

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 https://developer.download.nvidia.com/compute/cuda/repos/ubuntu2204/x86_64 InRelease [1,581 B]
Get:2 https://cloud.r-project.org/bin/linux/ubuntu jammy-cran40/ InRelease [3,632 B]
Get:3 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Hit:4 http://archive.ubuntu.com/ubuntu jammy InRelease
Hit:5 https://r2u.stat.illinois.edu/ubuntu jammy InRelease [6,555 B]
Get:6 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:7 https://developer.download.nvidia.com/compute/cuda/repos/ubuntu2204/x86_64 Packages [1,809 kB]
Hit:8 https://ppa.launchpadcontent.net/deadsnakes/ppa/ubuntu jammy InRelease
Hit:9 https://ppa.launchpadcontent.net/graphics.drivers/ppa/ubuntu jammy InRelease
Hit:10 https://ppa.launchpadcontent.net/ubuntugis/ppa/ubuntu jammy InRelease
Get:11 http://archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
Get:12 https://r2u.stat.illinois.edu/ubuntu jammy/main all Packages [9,115 kB]
Get:13 https://r2u.stat.illinois.edu/ubuntu jammy/main amd64 Packages [2,761 kB]
Get:14 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1,571 kB]
Get:15 http://archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [75.9 kB]
Get:16 http://archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [5,031 kB]
Fetched 20.8 MB in 3s (7,985 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 to provide it (s
```

PASSO 5 E 6 (Volta pro documento antigo)



```
Av06-BD
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

# Crie uma conexão com o servidor MySQL
conn = mysql.connector.connect(user='root', password='root', host='localhost')

# Crie um cursor para interagir com o servidor MySQL
cursor = conn.cursor()
# Crie um novo banco de dados chamado 'library'
cursor.execute("CREATE DATABASE IF NOT EXISTS library")

# Mude para o banco de dados 'library'
cursor.execute("USE library")

# Crie a tabela 'books'
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
)
''')
```

The screenshot shows a code editor window titled "Av06-BD". The menu bar includes "Arquivo", "Editar", "Ver", "Inserir", "Ambiente de execução", "Ferramentas", and "Ajuda". The toolbar shows "Comandos", "+ Código", "+ Texto", and "▶ Executar tudo". The code in the editor is as follows:

```
id INT AUTO_INCREMENT PRIMARY KEY,  
title VARCHAR(255) NOT NULL,  
author VARCHAR(255) NOT NULL,  
year_published INT  
)  
... )  
  
# Lembre-se sempre de fechar o cursor e a conexão quando terminar  
cursor.close()  
conn.close()
```

Below the code, a terminal window displays the output of a command:

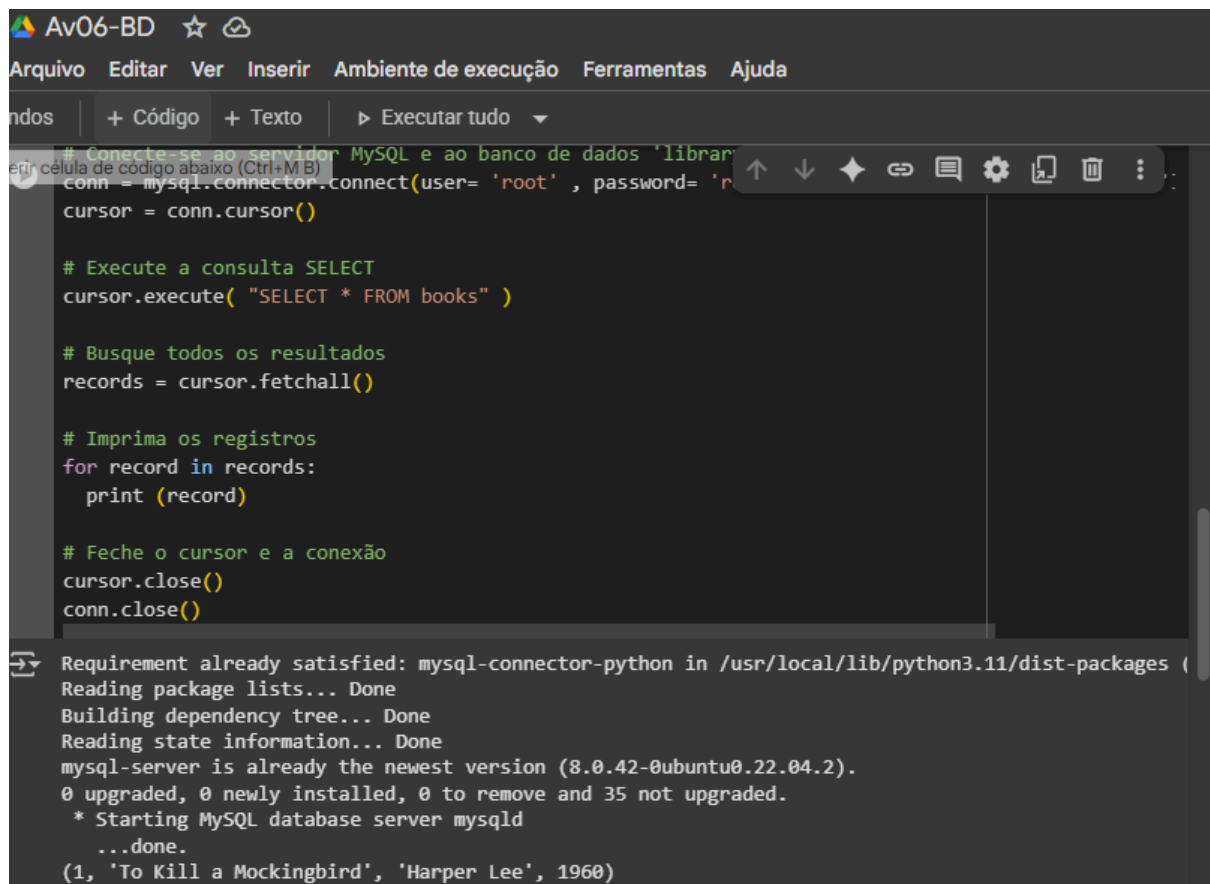
```
Requirement already satisfied: mysql-connector-python in /usr/local/lib/python3.11/dist-packages (  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
mysql-server is already the newest version (8.0.42-0ubuntu0.22.04.2).  
0 upgraded, 0 newly installed, 0 to remove and 35 not upgraded.  
* Starting MySQL database server mysqld  
...done.
```

PASSO 7

The screenshot shows the same code editor window with the following Python code:

```
cursor.close()  
conn.close()  
  
# Conecte-se ao servidor MySQL e ao banco de dados 'library'  
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 )  
]  
  
# Insira dados usando o cursor  
cursor.executemany( '''  
INSERT INTO books (title, author, year_published) VALUES (%s, %s, %s)  
''' , books_data)  
  
# Confirme as alterações  
conn.commit()  
  
# Feche o cursor e a conexão  
cursor.close()  
conn.close()
```

PASSO 8



```
# Conecte-se ao servidor MySQL e ao banco de dados 'library'
conn = mysql.connector.connect(user= 'root' , password= 'root' )
cursor = conn.cursor()

# Execute a consulta SELECT
cursor.execute( "SELECT * FROM books" )

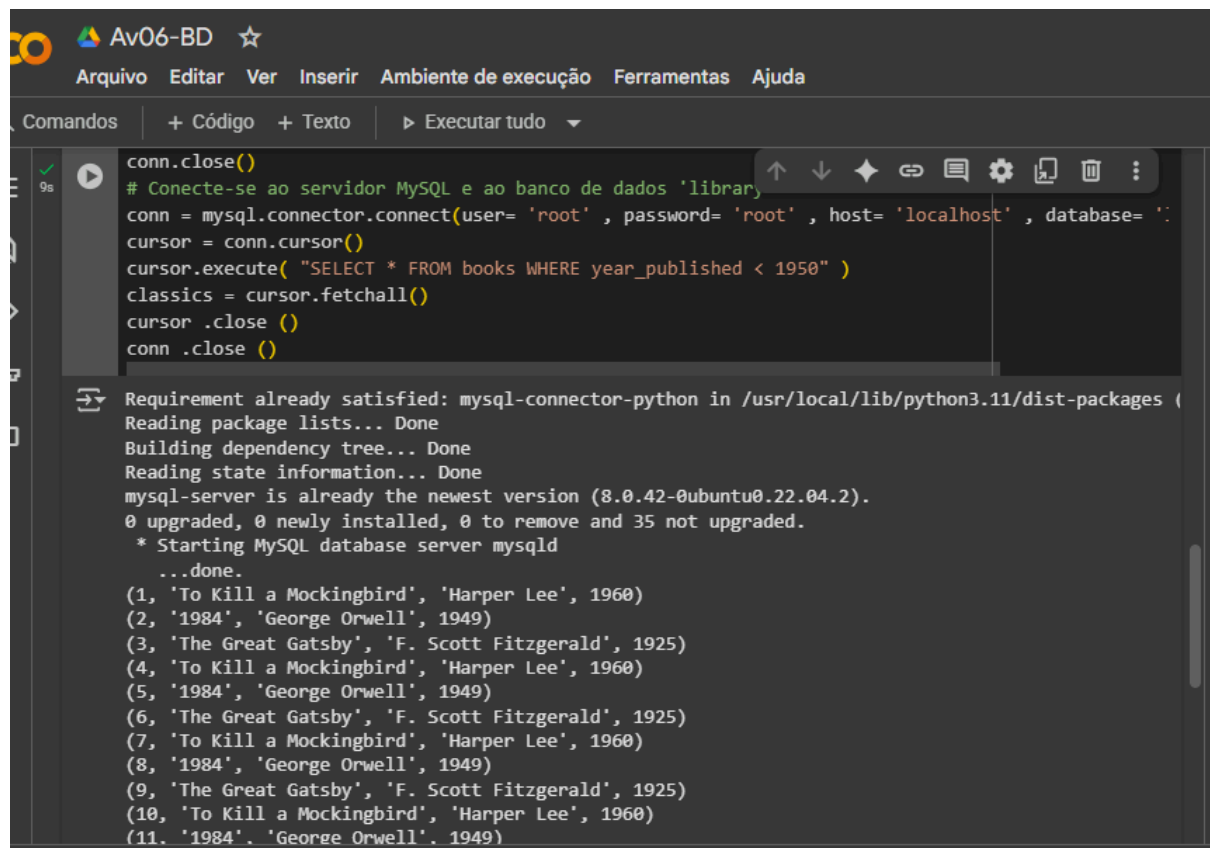
# Busque todos os resultados
records = cursor.fetchall()

# Imprima os registros
for record in records:
    print (record)

# Feche o cursor e a conexão
cursor.close()
conn.close()
```

Requirement already satisfied: mysql-connector-python in /usr/local/lib/python3.11/dist-packages (8.0.42)
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)

PASSO 9



```
conn.close()

# Conecte-se ao servidor MySQL e ao banco de dados 'library'
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()
cursor.close()
conn.close()
```

Requirement already satisfied: mysql-connector-python in /usr/local/lib/python3.11/dist-packages (8.0.42)
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)
(10, 'To Kill a Mockingbird', 'Harper Lee', 1960)
(11, '1984', 'George Orwell', 1949)

