

Avaliação 07 - Google Colab

Aluno: Dylan Mesquita de Melo

```
[1] !apt-get -y install mysql-server

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 tinyca
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
  mysql-client-8.0 mysql-client-core-8.0 mysql-server mysql-server-8.0
  mysql-server-core-8.0
0 upgraded, 25 newly installed, 0 to remove and 35 not upgraded.
Need to get 29.8 MB of archives.
After this operation, 243 MB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 mysql-client-core-8.0 amd64 8.0.42-0ubuntu0.22.04.2 [2,715 kB]
Get:2 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 mysql-client-8.0 amd64 8.0.42-0ubuntu0.22.04.2 [22.7 kB]
Get:3 http://archive.ubuntu.com/ubuntu jammy/main amd64 libmecab2 amd64 0.996-14build9 [199 kB]
Get:4 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libprotobuf-lite23 amd64 3.12.4-1ubuntu7.22.04.4 [209 kB]
Get:5 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 mysql-server-core-8.0 amd64 8.0.42-0ubuntu0.22.04.2 [17.8 MB]

!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 56.6 MB/s eta 0:00:00
Installing collected packages: mysql-connector-python
Successfully installed mysql-connector-python-9.3.0

[3] !service mysql start

* Starting MySQL database server mysqld
su: warning: cannot change directory to /nonexistent: No such file or directory
...done.

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

[6] !mysql -u root -p root -e "SHOW DATABASES;"

mysql: [Warning] Using a password on the command line interface can be insecure.
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
```

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```
sql_script = """
CREATE DATABASE IF NOT EXISTS empresa;
USE empresa;

CREATE TABLE IF NOT EXISTS funcionarios (
    id INT AUTO_INCREMENT PRIMARY KEY,
    nome VARCHAR(100),
    salario DECIMAL(10,2)
);

DELIMITER //
CREATE FUNCTION calcular_bonus (sal DECIMAL(10,2))
RETURNS DECIMAL(10,2)
DETERMINISTIC
BEGIN
    RETURN sal * 0.10;
END//
DELIMITER ;

DELIMITER //
CREATE PROCEDURE adicionar_funcionario (
    IN p_nome VARCHAR(100),
    IN p_salario DECIMAL(10,2)
)
BEGIN
    INSERT INTO funcionarios (nome, salario) VALUES (p_nome, p_salario);
END//
DELIMITER ;
"""

with open("script.sql", "w") as f:
```

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```
[8] !mysql -u root -proot < setup.sql
```

```
mysql: [Warning] Using a password on the command line interface can be insecure.
```

```
[9] import mysql.connector
```

```
conn = mysql.connector.connect(  
    host="localhost",  
    user="root",  
    password="root",  
    database="empresa"  
)  
cursor = conn.cursor()
```

```
[10] cursor.callproc('adicionar_funcionario', ['Ana Souza', 3500.00])  
conn.commit()
```

```
[11] cursor.execute("""  
    SELECT nome, salario, calcular_bonus(salario) AS bonus  
    FROM funcionarios  
    """)  
for row in cursor.fetchall():  
    print(row)
```

```
('Ana Souza', Decimal('3500.00'), Decimal('350.00'))
```

```
[12] cursor.close()  
conn.close()
```