Avaliação 6 de BD

Feito pelos alunos Odílio Carneiro e Lara Yslen

[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 21.9 MB/s eta 0:00:00
Installing collected packages: mysql-connector-python
Successfully installed mysql-connector-python-9.3.0
```

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

```
reading /usr/share/mecab/dic/ipadic/Prefix.csv ... 221
reading /usr/share/mecab/dic/ipadic/Adverb.csv ... 3032
reading /usr/share/mecab/dic/ipadic/Symbol.csv ... 208
reading /usr/share/mecab/dic/ipadic/Others.csv ... 2
reading /usr/share/mecab/dic/ipadic/Adnominal.csv ... 135
reading /usr/share/mecab/dic/ipadic/Postp-col.csv ... 91
reading /usr/share/mecab/dic/ipadic/Interjection.csv ... 252
reading /usr/share/mecab/dic/ipadic/Noun.others.csv ... 151
reading /usr/share/mecab/dic/ipadic/Conjunction.csv ... 171
reading /usr/share/mecab/dic/ipadic/Suffix.csv ... 1393
reading /usr/share/mecab/dic/ipadic/Noun.place.csv ... 72999
reading /usr/share/mecab/dic/ipadic/Noun.csv ... 60477
reading /usr/share/mecab/dic/ipadic/Noun.adverbal.csv ... 795
reading /usr/share/mecab/dic/ipadic/Noun.org.csv ... 16668
reading /usr/share/mecab/dic/ipadic/Postp.csv ... 146
reading /usr/share/mecab/dic/ipadic/Noun.number.csv ... 42
reading /usr/share/mecab/dic/ipadic/Noun.verbal.csv ... 12146
emitting double-array: 100% |###########################################|
reading /usr/share/mecab/dic/ipadic/matrix.def ... 1316x1316
```

```
done!
update-alternatives: using /var/lib/mecab/dic/ipadic-utf8 to provide /var/lib/mecab/dic/debian (mecab-dictionary) in auto mode
Setting up libhtml-parser-perl:amd64 (3.76-1build2) ...
Setting up mysql-server (8.0.42-0ubuntu0.22.04.2) ...
Setting up libcgi-pm-perl (4.54-1) ...
Setting up libhtml-template-perl (2.97-1.1) ...
Setting up libcgi-fast-perl (1:2.15-1) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.8) ...
/sbin/ldconfig.real: /usr/local/lib/libtcm_debug.so.1 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind_2_5.so.3 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_adapter_level_zero_v2.so.0 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtcm.so.1 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libhwloc.so.15 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbmalloc_proxy.so.2 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbmalloc.so.2 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbb.so.12 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_adapter_opencl.so.0 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libumf.so.0 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind_2_0.so.3 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_adapter_level_zero.so.0 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind.so.3 is not a symbolic link
```

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

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

[11]
```
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()
```

[12]
```
# 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()
```

[13]
```
import mysql.connector

# 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()
```

[14]
```
import mysql.connector
```

[14]
```python
import mysql.connector

# 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()
```

```
(1, 'To Kill a Mockingbird', 'Harper Lee', 1960)
(2, '1984', 'George Orwell', 1949)
(3, 'The Great Gatsby', 'F. Scott Fitzgerald', 1925)
```