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

```
!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
```

```
[ ]  !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;"
```

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

    CREATE TABLE 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 ;

    CALL adicionar_funcionario('Maria Clara', 3000.00);

    SELECT nome, salario, calcular_bonus(salario) AS bonus
    FROM funcionarios;


    """
```

```python
[ ] with open("setup.sql", "w") as f:
        f.write(sql_script)
```

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

```
mysql: [Warning] Using a password on the command line interface can be insecure.
nome      salario bonus
Maria Clara      3000.00 300.00
```

```python
import mysql.connector

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

```python
[ ]  def adicionar_funcionario(nome, salario):
    cursor.callproc('adicionar_funcionario', [nome, salario])
    conn.commit()

adicionar_funcionario('Carlos Silva', 4000.00)
```

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

```
('Maria Clara', Decimal('3000.00'), Decimal('300.00'))
('Carlos Silva', Decimal('4000.00'), Decimal('400.00'))
```

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