```
!apt-get -y install mysql-server
```

```
reading /usr/share/mecab/dic/ipadic/Postp.csv ... 146
reading /usr/share/mecab/dic/ipadic/Verb.csv ... 130750
reading /usr/share/mecab/dic/ipadic/Adverb.csv ... 3032
reading /usr/share/mecab/dic/ipadic/Noun.demonst.csv ... 120
reading /usr/share/mecab/dic/ipadic/Symbol.csv ... 208
reading /usr/share/mecab/dic/ipadic/Others.csv ... 2
reading /usr/share/mecab/dic/ipadic/Noun.verbal.csv ... 12146
reading /usr/share/mecab/dic/ipadic/Adnominal.csv ... 135
reading /usr/share/mecab/dic/ipadic/Noun.place.csv ... 72999
reading /usr/share/mecab/dic/ipadic/Auxil.csv ... 199
reading /usr/share/mecab/dic/ipadic/Noun.adverbal.csv ... 795
reading /usr/share/mecab/dic/ipadic/Noun.others.csv ... 151
reading /usr/share/mecab/dic/ipadic/Noun.name.csv ... 34202
reading /usr/share/mecab/dic/ipadic/Interjection.csv ... 252
reading /usr/share/mecab/dic/ipadic/Suffix.csv ... 1393
reading /usr/share/mecab/dic/ipadic/Filler.csv ... 19
reading /usr/share/mecab/dic/ipadic/Conjunction.csv ... 171
emitting double-array: 100% |###########################################|
reading /usr/share/mecab/dic/ipadic/matrix.def ... 1316x1316
emitting matrix     : 100% |###########################################|

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.so.1 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/libtbbmalloc.so.2 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtcm_debug.so.1 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/libtbbbind_2_5.so.3 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_loader.so.0 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/libtbbmalloc_proxy.so.2 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/libtbb.so.12 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/libumf.so.0 is not a symbolic link

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

```
[2] !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 32.5 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.
```

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

```
[5] !mysql -u root -proot -e "SHOW DATABASES;"
```

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

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

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

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

```
[8] import mysql.connector

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

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

```
[10] 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'))
```

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