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# 1: pip install psycopg2
import psycopg2
# To get data in a dictionary type
import psycopg2.extras
import config

connection = None

# Connect to db, this function return Object Connect
# and this object has a lots of methods .close(), .commit()
.fetchall()

try:
    # the same: connection = psycopg2.connect()
    # whis: automatically connection.commit() in the end.
    # we manually connection.close() in the end.
    with psycopg2.connect(
        host=config.hostname,
        dbname=config.database,
        user=config.username,
        password=config.password,
        port=config.port
    ) as connection:

        # whis: automatically cursor.close() in the end.
        with connection.cursor(cursor_factory=
            psycopg2.extras.DictCursor) as cursor:

            cursor.execute("""DROP TABLE IF EXISTS employee""")

            # Create table in our db
            create_script = """CREATE TABLE IF NOT EXISTS
employee(
                                id BIGSERIAL NOT NULL PRIMARY KEY,
                                name VARCHAR(50) NOT NULL,
                                salary INT NOT NULL,
                                dept_id VARCHAR(30)
                                );"""

            # Execute our SQL command
            cursor.execute(create_script)

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# Insert multiple records into table
insert_script = """INSERT INTO employee(name, salary)
                    VALUES (%s, %s);"""

insert_value = [('Mosh', 4700), ('John', 2500),
                ('Luka', 3400), ('Mira', 5500)]
for employee in insert_value:
    cursor.execute(insert_script, employee)

# Update data
update_script = """UPDATE employee SET
                    salary = salary + salary * 0.5;"""
cursor.execute(update_script)

# Delete data
delete_script = """DELETE FROM employee WHERE
                    name = %s;"""
delete_record = ('Mira',)
cursor.execute(delete_script, delete_record)

# Select data
cursor.execute("""SELECT * FROM employee;""")
for employee in cursor.fetchall():
    print(employee['name'], employee['salary'])

except Exception as error:
    print(f'Failed to connect to database. Error type: {error}')

finally:
    if connection is not None:
        connection.close()

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