

PostgreSQL with Python

CRUD opt with postgreSQl in python







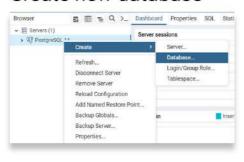
SAVE IT

Download pgAdmin4

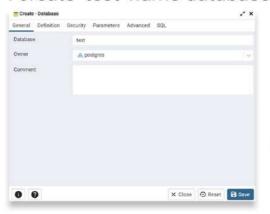
https://www.pgadmin.org/download/

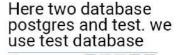


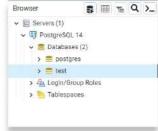
Create new database



I create 'test' name database











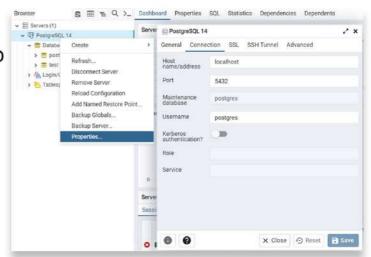
1. Install psycopg2

run this command - pip install psycopg2

2. Connect with database.

```
import psycopg2
import psycopg2.extras
host name = 'localhost'
database = 'test'
username = 'postgres'
pwd = 'root'
port_id = 5432
conn = None
conn = psycopg2.connect(
       host = host_name,
       database = database,
       user = username,
       password = pwd,
       port = port_id)
   print("Connection Successfully!")
except Exception as error:
   print("Error Message: ", error)
       conn.close()
                                                   PS F:\PYTHON PROGRAMMING\PostgresSQl_with_python> python main.py
                                                   Connection Successfully!
```

to check hostname, port and username right click + Properties and go on Connection password is same as you set in installation time.



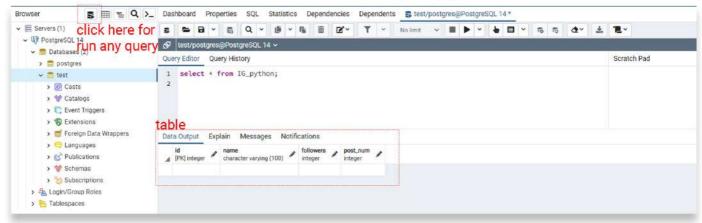




3. Create table.

```
try:
   conn = psycopg2.connect(
      host = host_name,
      database = database,
      user = username,
      password = pwd,
      port = port_id)
   print("Connection Successfully!")
    ############# create table in postgres database ###########
   cur = conn.cursor(cursor factory=psycopg2.extras.DictCursor)
   cur.execute("DROP TABLE IF EXISTS IG_python")
create_script = '''
              CREATE TABLE IF NOT EXISTS IG python (
   cur.execute(create_script)
   conn.commit()
except Exception as error:
   print("Error Message: ", error)
```

for check table in database run select query in pgAdmin



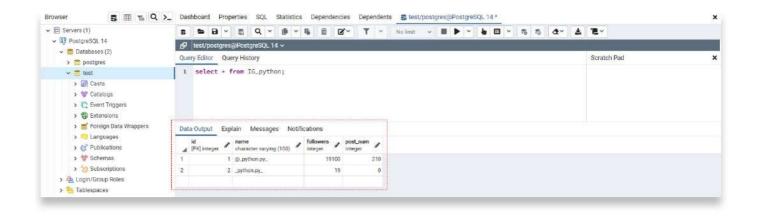




3. Insert data.

Note: write code between in try and except

4. Select data.

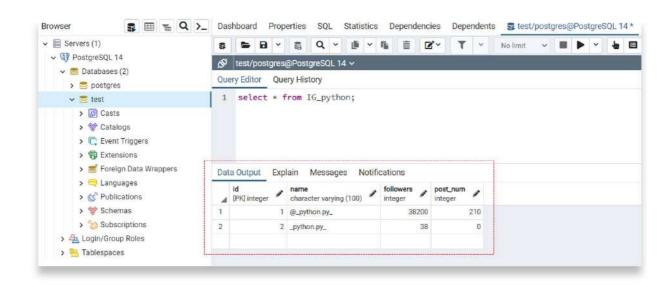






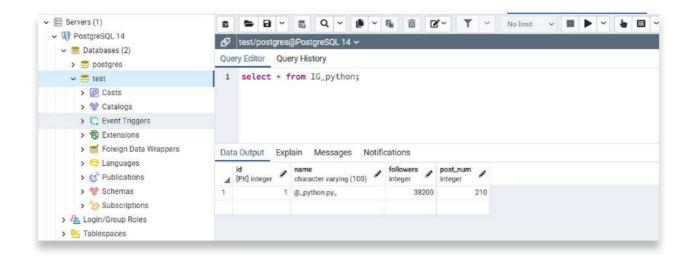
5. Update.

```
update script = "UPDATE IG python SET followers = followers * 2"
cur.execute(update script)
conn.commit()
# select data after update
cur.execute('SELECT * FROM IG python')
records = cur.fetchall()
print("Select after update data is : ", end="\n")
for record in records:
    print(record)
print()
conn.commit()
                                      PS F:\PYTHON PROGRAMMING\PostgresSQl_with_python> python main.py
                                      Connection Successfully!
                                       elect after update data is :
                                        '@_python.py_', 38200, 210]
'_python.py_', 38, 0]
```





6. Delete.





Source Code

```
🌳 main.py 🗆 🗙
      host_name = 'localhost'
database = 'test'
username = 'postgres'
      pwd = 'root'
      port_id = 5432
          conn = psycopg2.connect(
              host = host_name,
               database = database,
              user = username,
             password = pwd,
               port = port_id)
           print("Connection Successfully!")
           cur = conn.cursor(cursor_factory=psycopg2.extras.DictCursor)
           cur.execute("DROP TABLE IF EXISTS IG python")
           create_script = '''
                            followers int, post_num int
           cur.execute(create_script)
           insert_script = "INSERT INTO IG_python (id, name, followers, post_num) values (%s, %s, %s, %s)"
           insert_values = [(1, '@_python.py_', 19100, 210), (2, '_python.py_', 19, 0)]
           for insert value in insert values:
               cur.execute(insert script, insert value)
           cur.execute('SELECT * FROM IG_python')
           records = cur.fetchall()
           print("Select data is : \n ",)
           for record in records:
               print(record)
           print()
           update_script = "UPDATE IG_python SET followers = followers * 2"
           cur.execute(update script)
           conn.commit()
```



```
# select data after update
        cur.execute('SELECT * FROM IG python')
        records = cur.fetchall()
        print("Select after update data is : ", end="\n")
63
        for record in records:
64
            print(record)
        print()
        conn.commit()
        delete_script = "DELETE FROM IG_python where name = %s"
        delete id = ('_python.py_', )
71
        cur.execute(delete script, delete id)
72
        # select data after delete
73
        cur.execute('SELECT * FROM IG python')
        records = cur.fetchall()
75
        print("Select data after delete : \n ",)
        for record in records:
78
            print(record)
79
        print()
81
     except Exception as error:
        print("Error Message: ", error)
82
     finally:
        if conn is not None or cur is not None:
85
            conn.close()
            cur.close()
87
```

