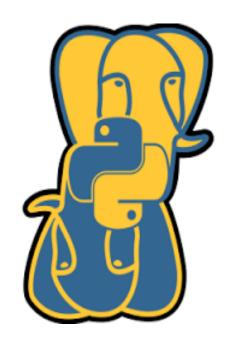
01-Tutorial Python and PostgreSQL



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Authored by: Mahdi Abbasi

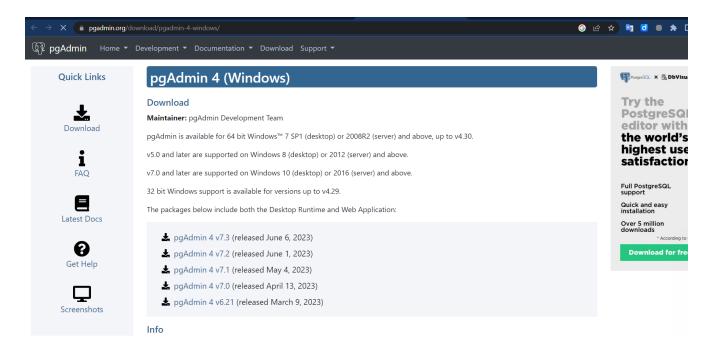
Email: abbasimahdi782@gmail.com



PostgreSQL

Download pgAdmin4

https://www.postgresql.org/ftp/pgadmin/pgadmin4/v7.3/windows/

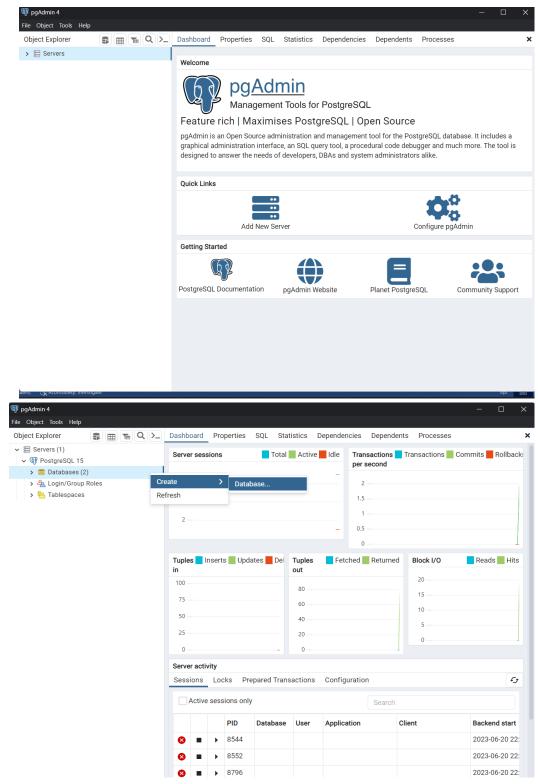


Full compatibility with different versions of the PostgreSQL database

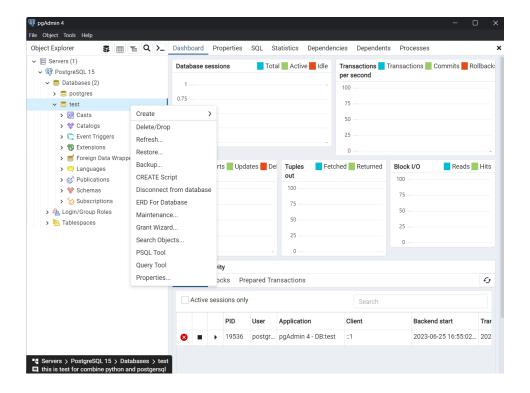
- The possibility of designing a database with extensive capabilities
- The ability to communicate with different databases and servers at the same time.
- Ability to design tables and write SQL queries.

"On this Tutorial I worked PostgreSQL in windows 11"

Create new database



Here two database, PostgreSQL and test. we are using test database.



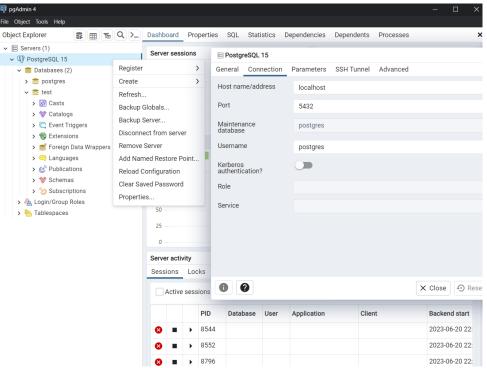
Install psycopg2

Run this command: pip install psycopg2.

After installing check hostname, port and username.

Right click + properties and go on connection.

Password is same as you set installation time.



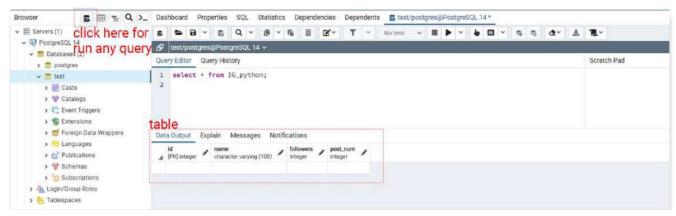
Connect with database.

```
e connect.py
🥏 connect.py 🗦 ...
      # Practice for postgres and python
      # Mahdi Abbasi
      import psycopg2
      import psycopg2.extras
      host name = 'localhost'
      database = 'test'
      username = 'postgres'
      pw2 = 'miai09362092181'
      port id = 5432
      conn = None
      #-----#
      try:
          conn = psycopg2.connect(
              host = host_name,
              database = database,
              user = username,
              password = pw2,
              port = port id,)
          print('Connection Successfully () ')
      except Exception as error:
          print('Error Message: ', error)
      finally:
          if conn is not None:
              conn.close()
              print('Connection Closed Successfully')
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```

Create table.

```
🥏 connect.py 🗙
e connect.py > ...
           -----#
      try:
          conn = psycopg2.connect(
              host = host name,
              database = database,
              user = username,
              password = pw2,
              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 table_python')
          create script = '''
                     CREATE TABLE IF NOT EXISTS table python (
                         id int PRIMARY KEY,
                         name varchar(100) NOT NULL,
                         followers int,
                         post num int
          cur.execute(create script)
 39
          conn.commit()
      except Exception as error :
          print('Error Message: ', error)
      finally:
          if conn is not None:
              conn.close()
              cur.close()
```

For check table in database run select query in pgAdmin4

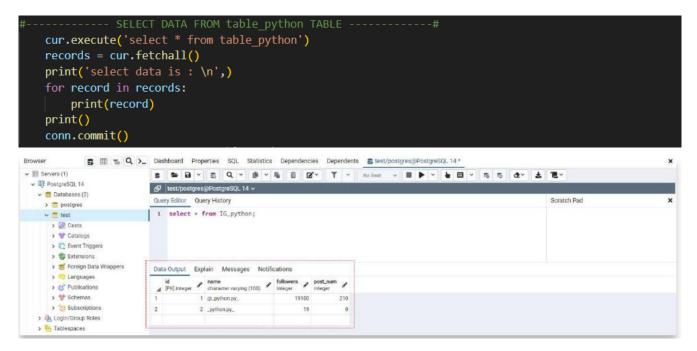


Replace IG_python to table_python or "name of table "

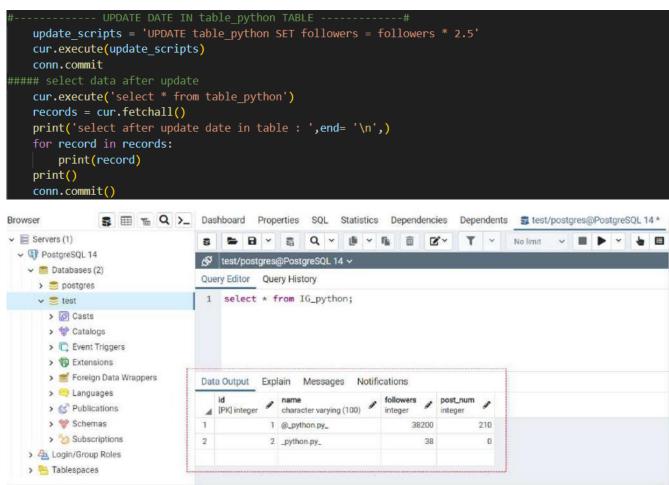
Insert data in table.

Note: write code between in try and except.

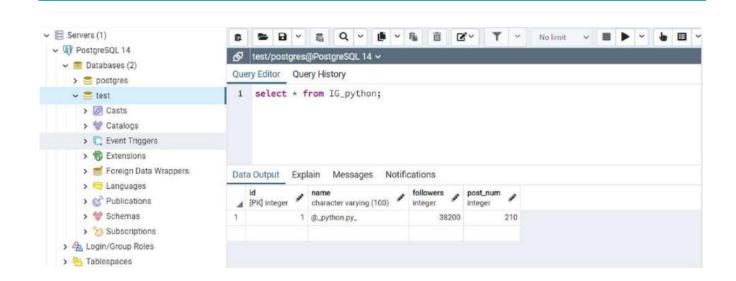
Select data.



Update indexes table.



Delete from table.



Source code in this repo and my GitHub account

https://github.com/MahdiAbbasi7/PostgreSQ