Session 4 - Connecting and Basic Operation

September 5, 2018

1 Python Training: Day 2 Session 4

1.1 2.4.1 Creating sample database

This session covers database creation, connection, and simple manipulation.

- 1. Connecting to server
- 2. Create a database
- 3. Name it 'jualan' (or anything else) and save
- 4. Create table
- 5. Name the table 'produk'
- 6. Fill up the colum as the following, then click 'save'

1.2 2.4.2 Connecting to sample database

Note that

import psycopg2

requires package psycopg2 to be installed.

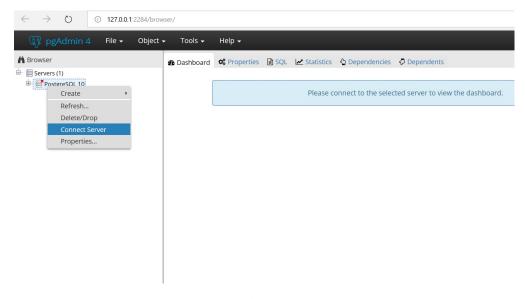
Install with the following command if you encounter ModuleNotFoundError: No module named 'psycopg2'

pip install psycopg2

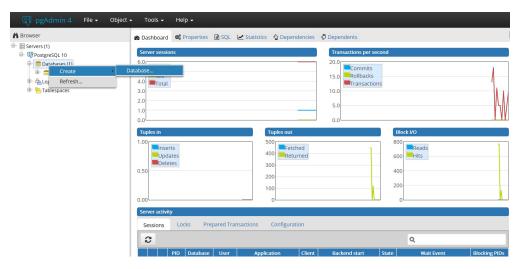
If using Anaconda distribution, install using Anaconda prompt. Or, your default command prompt if it supports pip.

Note:

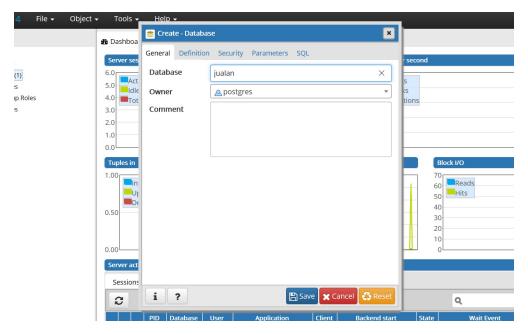
Connection information could be checked here



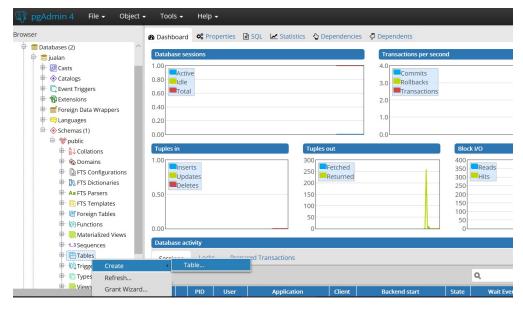
alt text



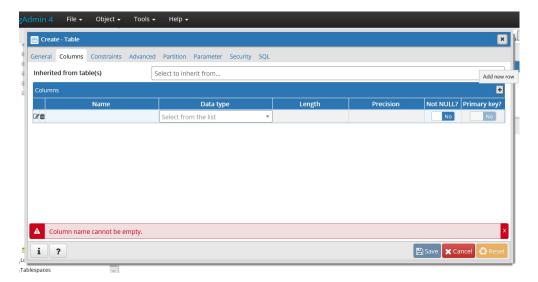
alt text



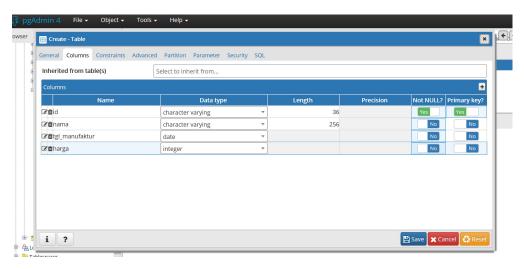
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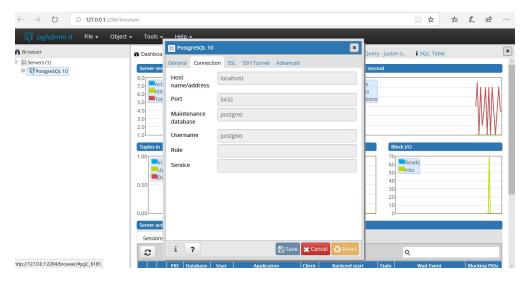
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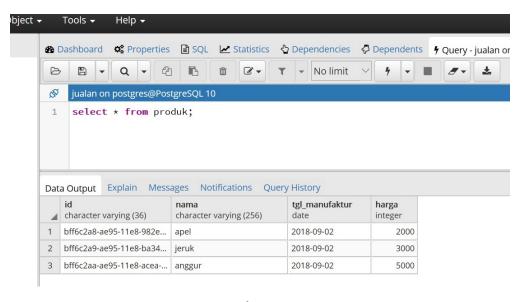
1.3 2.4.3 Connecting to database

1.4 2.4.4. Database operations

1.4.1 Basic sql command execution

1.4.2 Insert

```
In []: import uuid
    import datetime
```



alt text

```
id_barang = uuid.uuid1()
        now = datetime.date.today()
In [ ]: print(id_barang)
        print(now)
In [ ]: execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('"
                    + str(id_barang) + "', 'kantong ajaib', '" + str(now) + "', 1000000);")
In [ ]: # Create more !
        id_barang_1 = uuid.uuid1()
        id_barang_2 = uuid.uuid1()
        id_barang_3 = uuid.uuid1()
        execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('"
                    + str(id_barang_1) + "', 'apel', '" + str(now) + "', 2000);")
        execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('"
                    + str(id_barang_2) + "', 'jeruk', '" + str(now) + "', 3000);")
        execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('"
                    + str(id_barang_3) + "', 'anggur', '" + str(now) + "', 5000);")
1.4.3 Delete
In [ ]: execute_sql("DELETE FROM produk WHERE id='" + str(id_barang) +"';")
```

1.4.4 Assignment 2.4.1

The following is the result.

Implement a function to execute update and query (sql select) command from table 'produk'