# Session 4 - Connecting and Basic Operation

#### September 4, 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

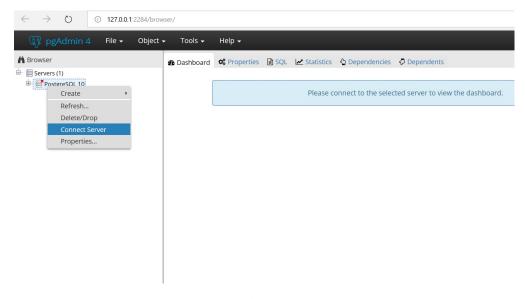
requires package psycopg2 to be installed.

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

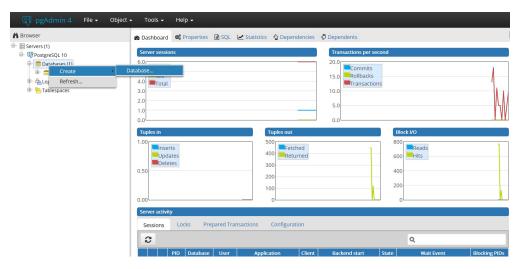
pip install psycopg2

Note:

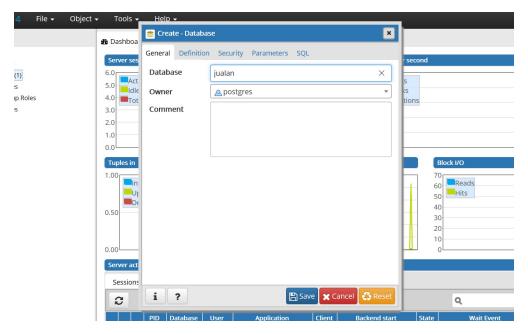
Connection information could be checked here



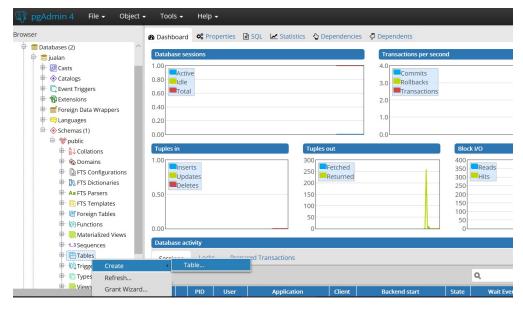
alt text



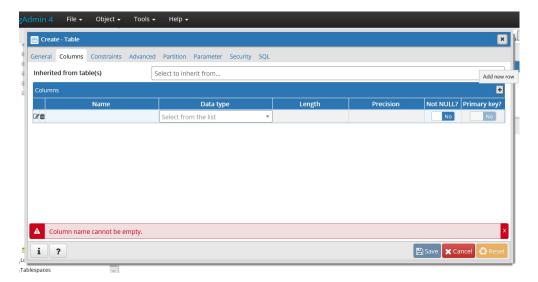
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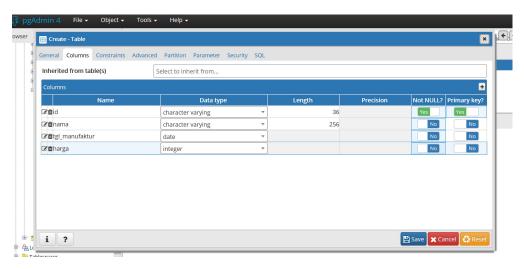
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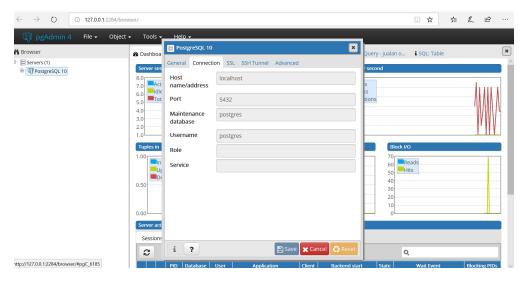
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## 1.3 2.4.3 Connecting to database

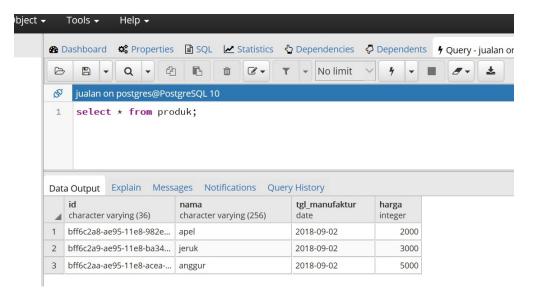
## 1.4 2.4.4. Database operations

#### 1.4.1 Basic sql command execution

#### **1.4.2** Insert

```
In []: import uuid
    import datetime

id_barang = uuid.uuid1()
    now = datetime.date.today()
```



alt text

```
In []: print(id_barang)
    print(now)

In []: execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('" + str(id_bar
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_bar execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('" + str(id_bar execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('" + str(id_bar execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('" + str(id_bar execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('" + str(id_bar execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('" + str(id_bar execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('" + str(id_bar execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('" + str(id_bar execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('" + str(id_bar execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('" + str(id_bar execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('" + str(id_bar execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('" + str(id_bar execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('" + str(id_bar execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('" + str(id_bar execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('" + str(id_bar execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('" + str(id_bar execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('" + str(id_bar execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('" + str(id_bar execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('" + str(id_bar execute_sql("INSERT INTO produk(id, nama, tgl_manufaktur, harga) VALUES ('" + str(id_bar exe
```

#### 1.4.3 Delete

```
In [ ]: execute_sql("DELETE FROM produk WHERE id='" + str(id_barang) +"';")
```

The following is the result.

#### 1.4.4 Assignment 2.4.1

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