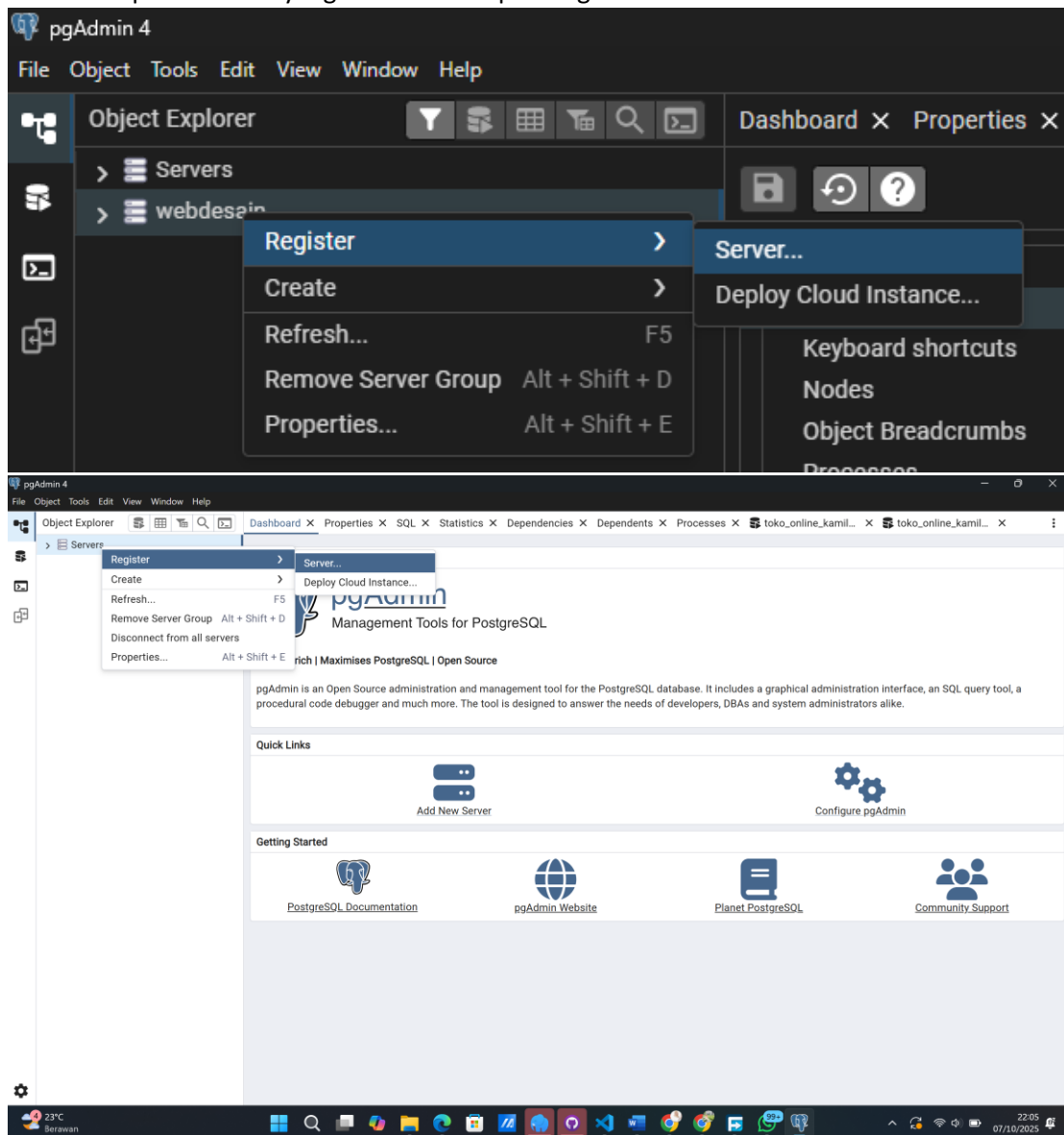
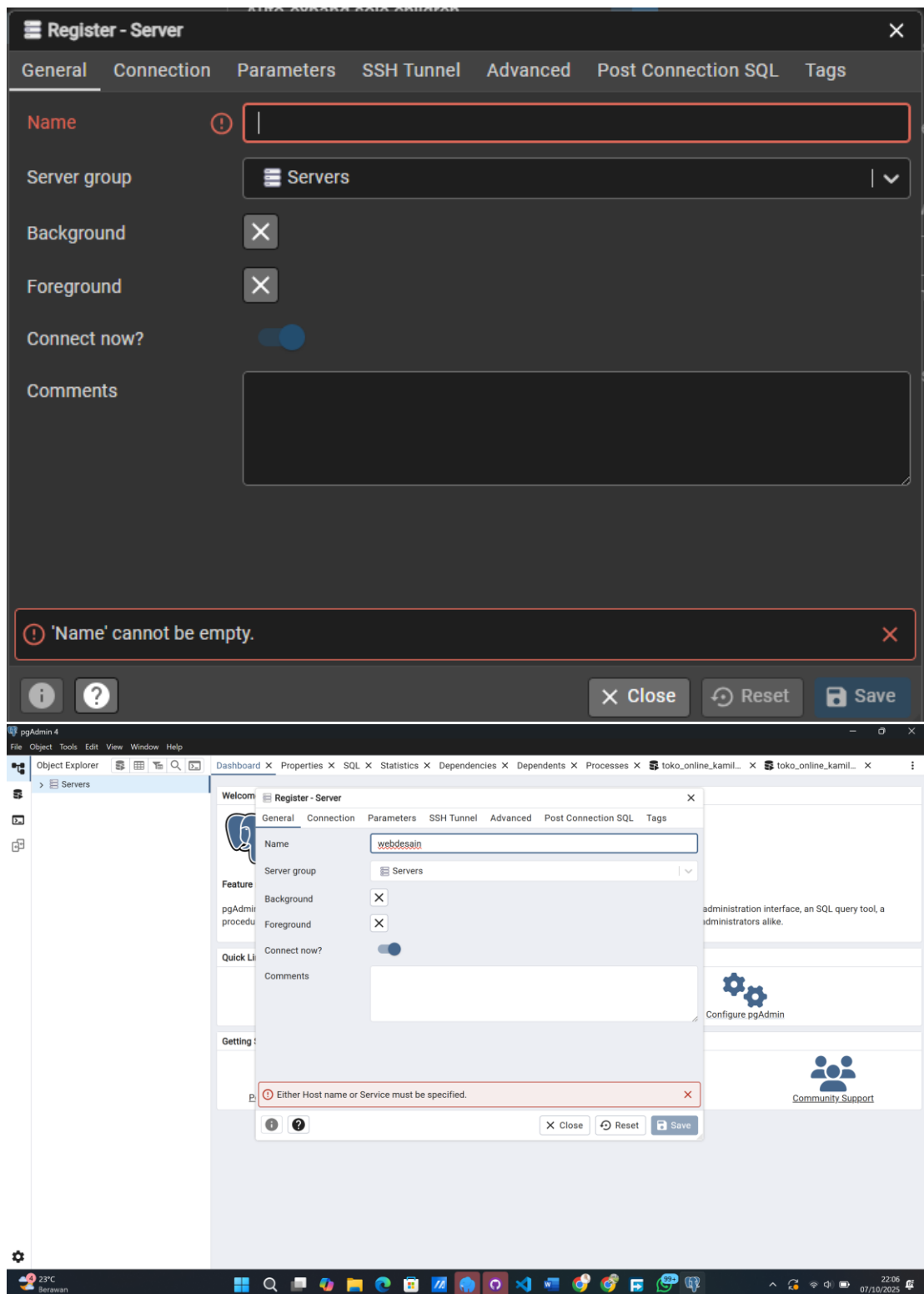


Membuat DB menggunakan PGAdmin4 / membuat database pada postgresQL

1. Klik Kanan pada servers yang sudah dibuat pilih register->server



2. Pada tab general tambahkan name semisal webdesain



3. Pada hostname/address diisi alamat host name dalam hal ini menggunakan localhost dan isi juga password. Jika sudah klik save

Register - Server

General

Connection

Parameters

SSH Tunnel

Advanced

Post Connection SQL

Tags

Host name/address

Port

5432

Maintenance database

postgres

Username

postgres

Kerberos authentication?

Password

Save password?

Role

Service

Either Host name or Service must be specified.

Close

Reset

Save

Register - Server

General

Connection

Parameters

SSH Tunnel

Advanced

Post Connection SQL

Tags

Host name/address

localhost

Port

5432

Maintenance database

postgres

Username

postgres

Kerberos authentication?

Password

.....

Save password?

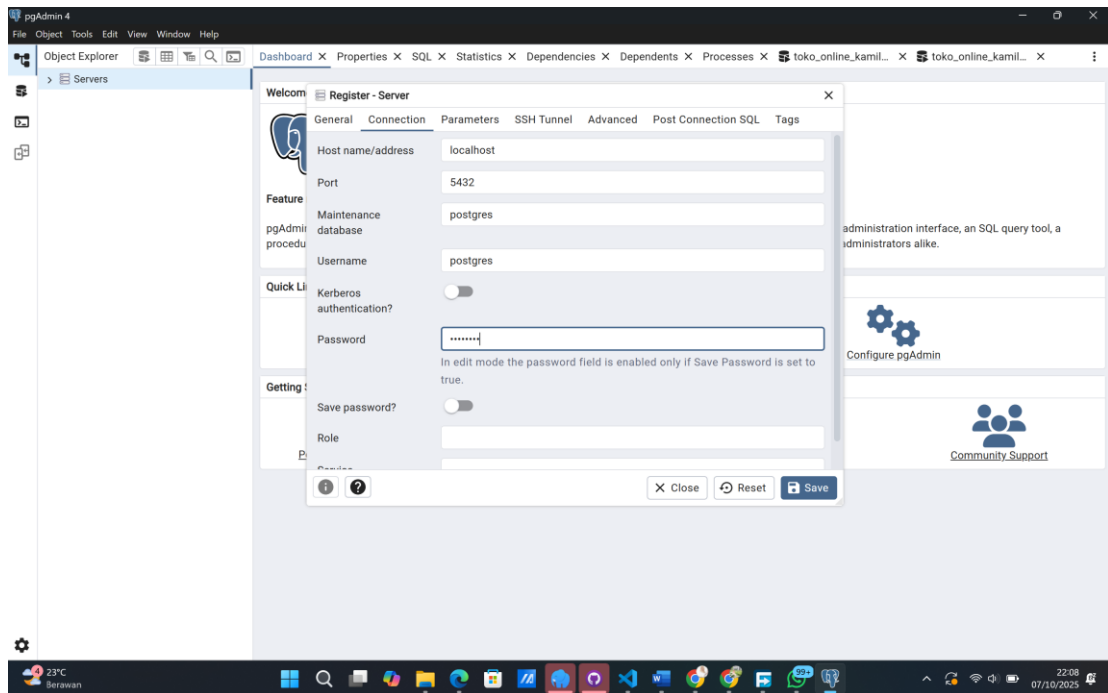
Role

Service

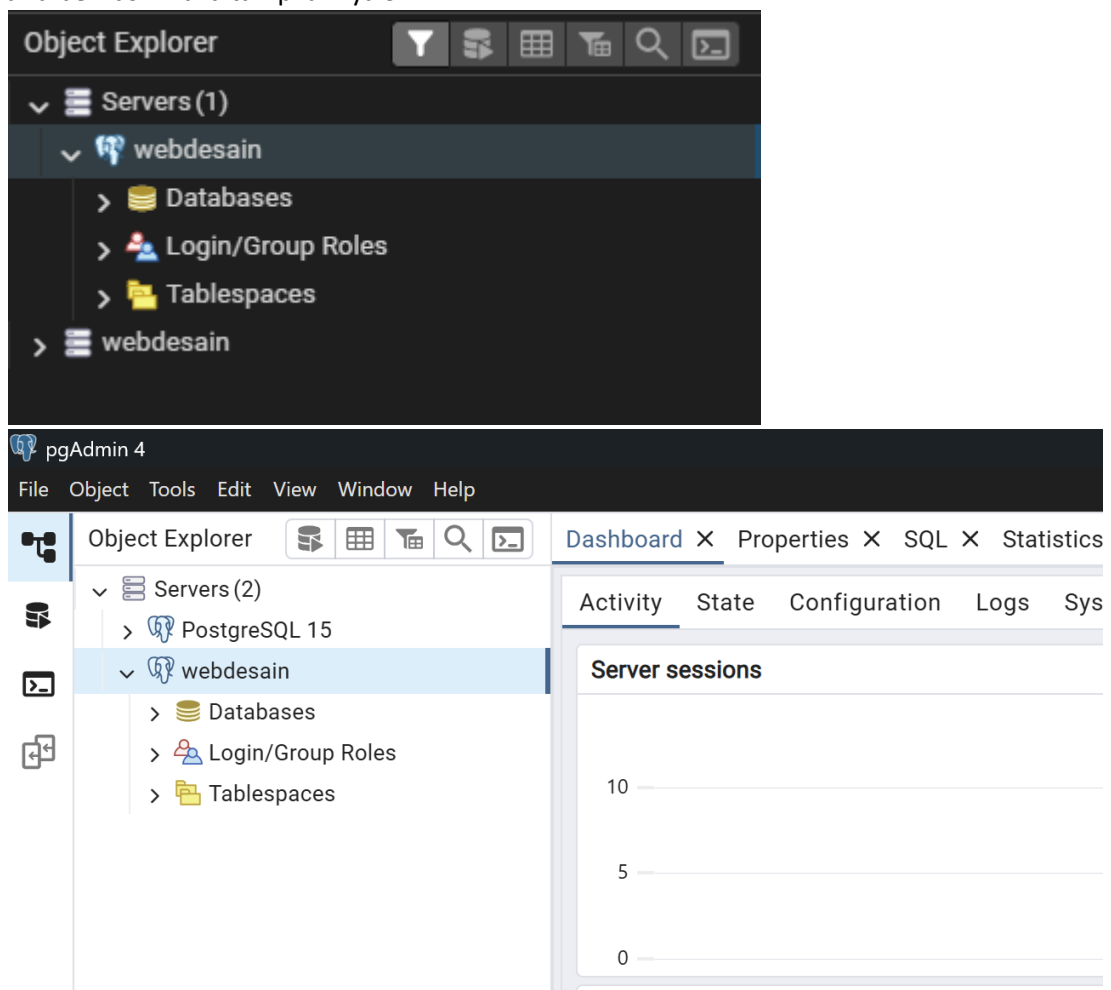
Close

Reset

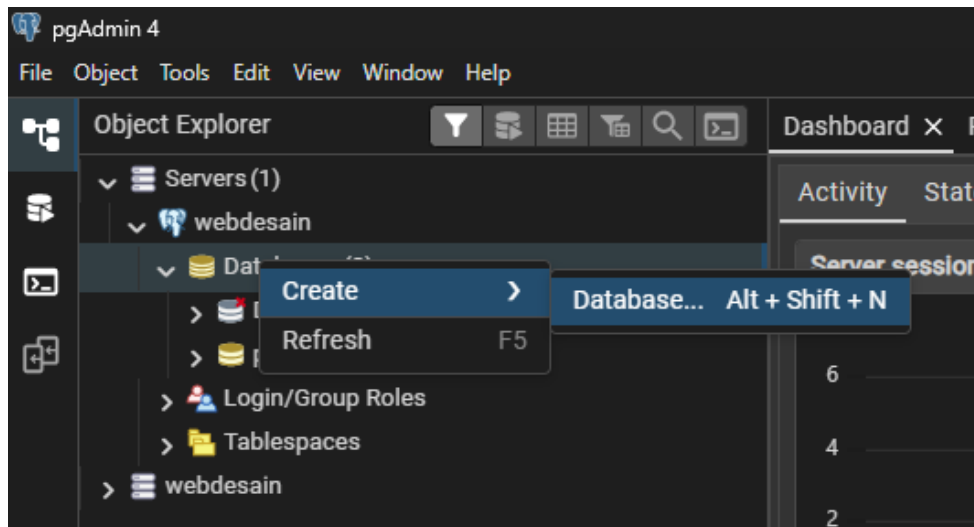
Save



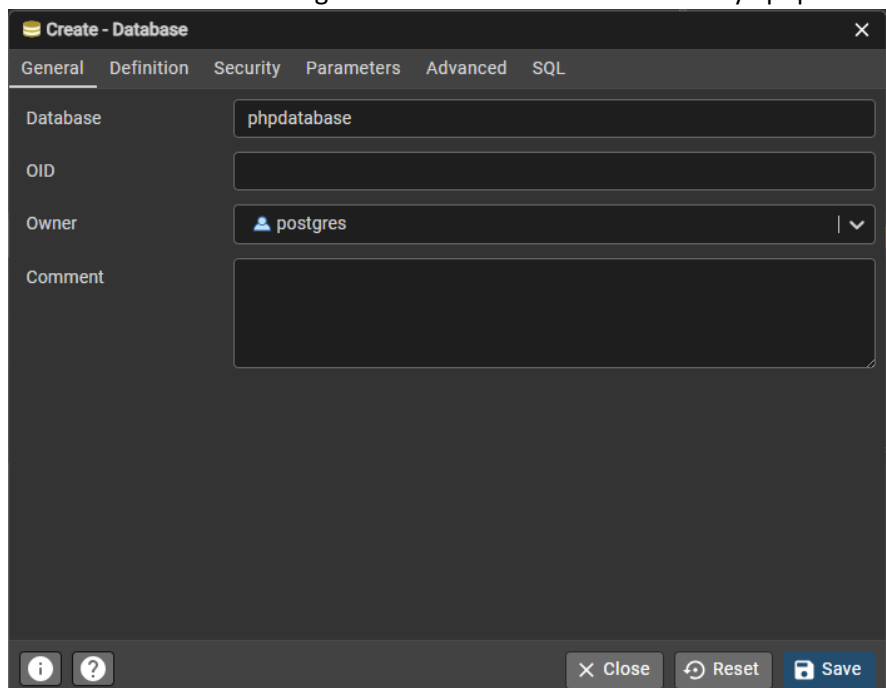
4. Jika berhasil maka tampilannya SBB :

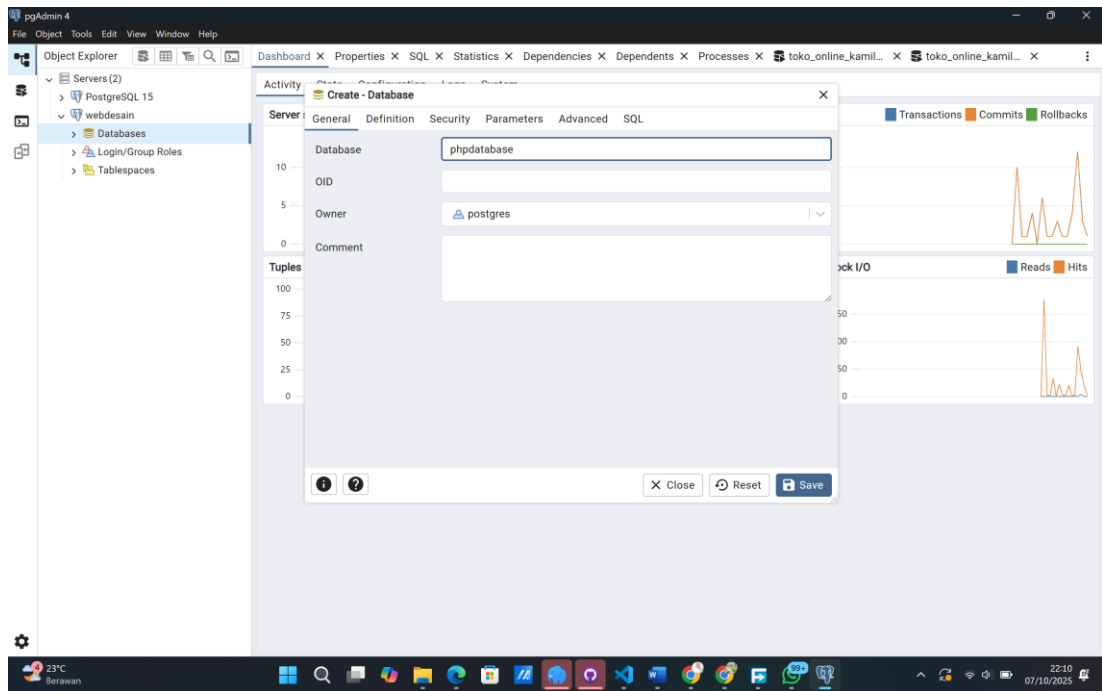


5. Membuat database Klik kanan pada database -> create-> database

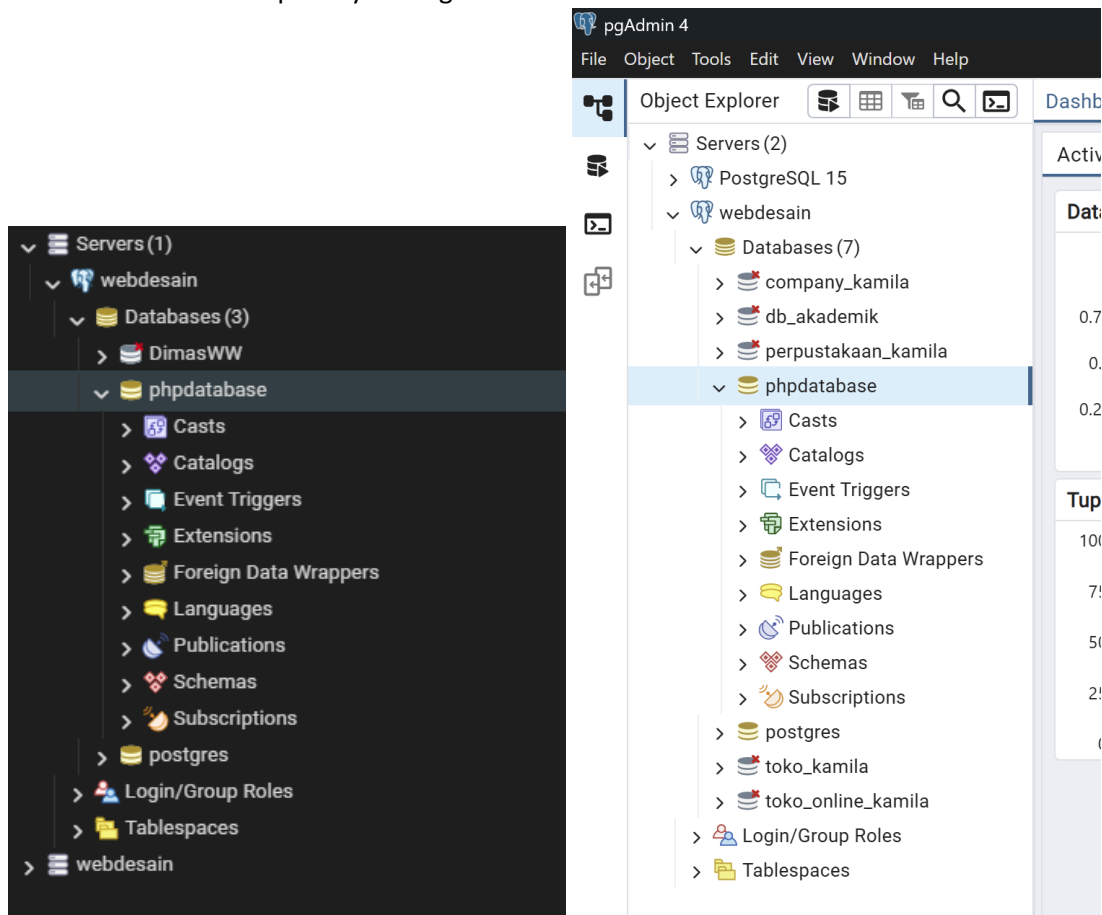


6. Maka akan muncul menu general dan isikan nama databasenya phpdatabase dan simpan

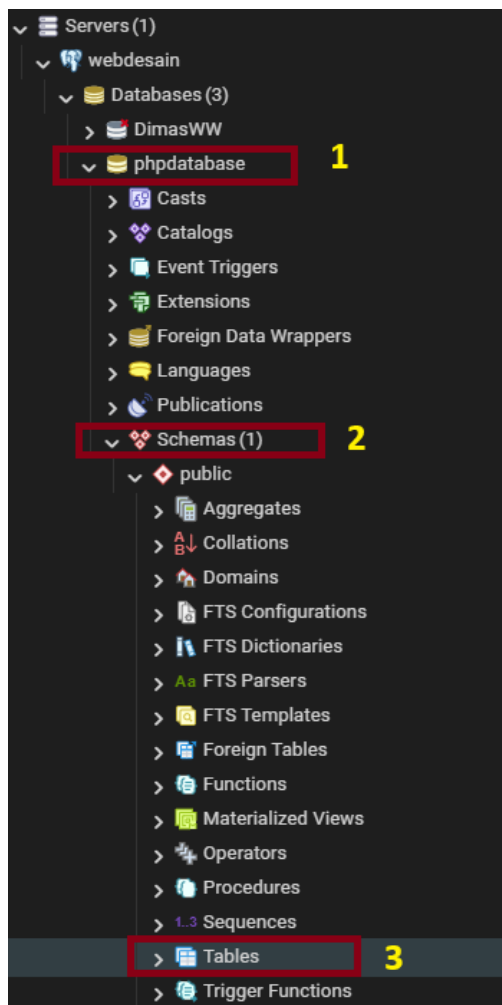




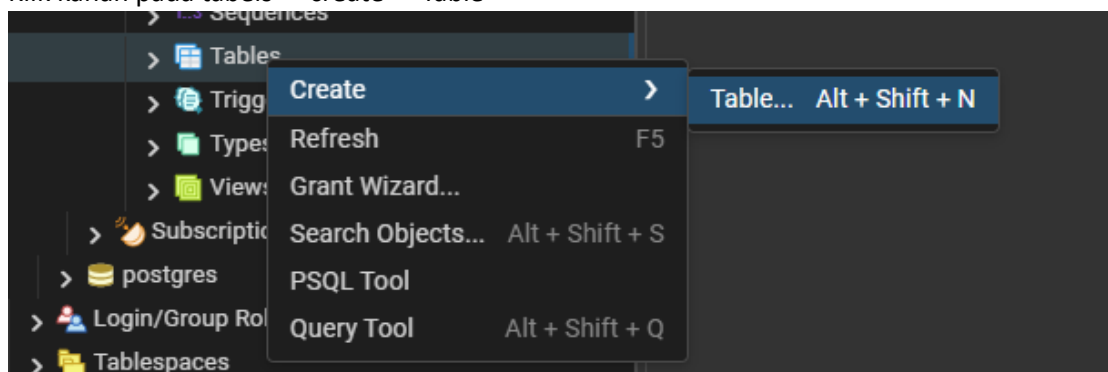
7. Jika berhasil maka tampilannya sebagai berikut

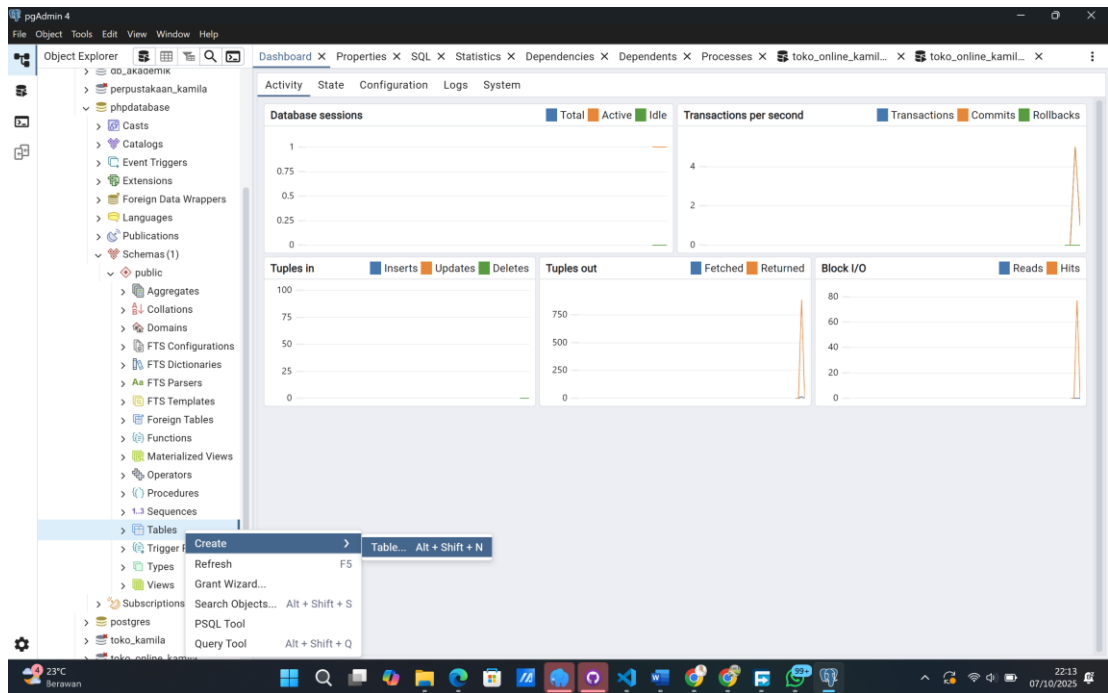


8. Database sudah terbuat maka selanjutnya membuat table. Cari table pada phpdatabase->Schemas-> table



9. Klik kanan pada tabels -> create -> Table

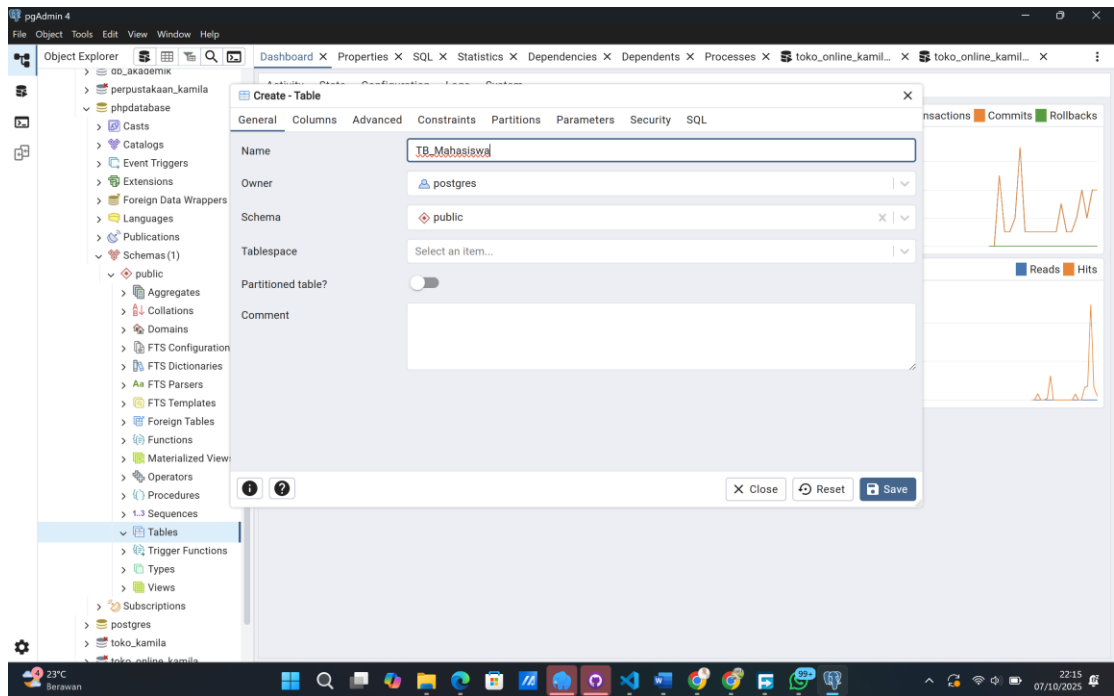




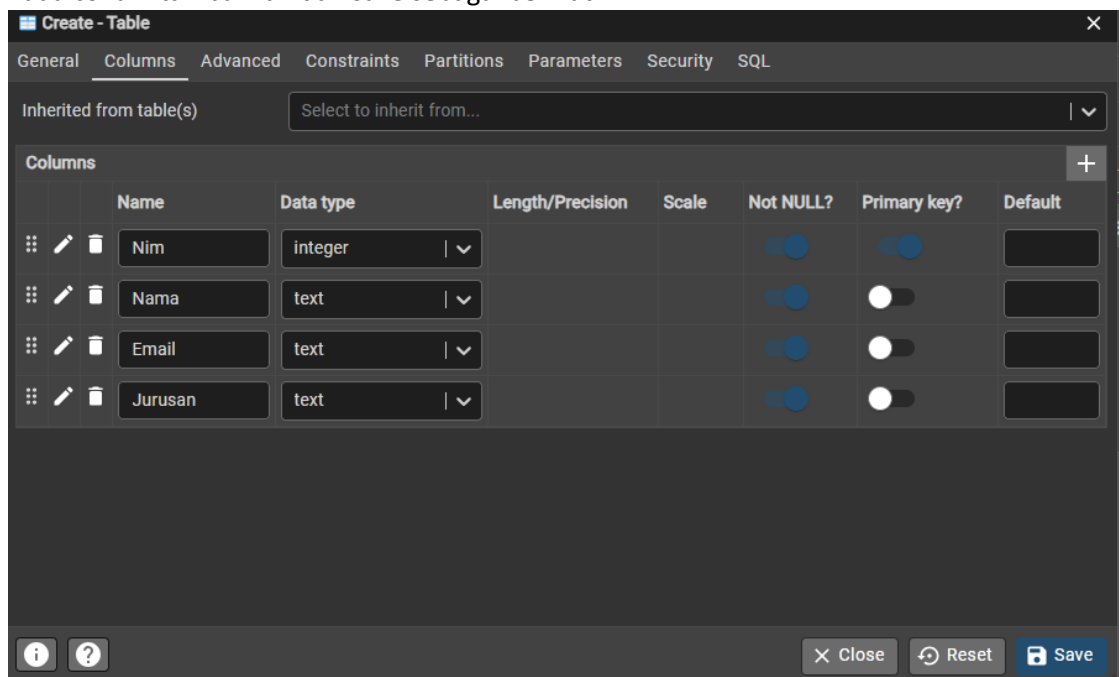
10. Beri nama tabel nya tabel TB\_Mahasiswa

The screenshot shows the 'Create - Table' dialog box in pgAdmin 4. The 'General' tab is selected. The 'Name' field is set to 'TB\_Mahasiswa'. The 'Owner' is 'postgres' and the 'Schema' is 'public'. The 'Tablespace' is set to 'Select an item...'. The 'Partitioned table?' checkbox is unchecked. The 'Comment' field is empty. At the bottom, there is a red error message: 'Data type in Columns' cannot be empty. The dialog has buttons for 'Close', 'Reset', and 'Save'.





11. Pada collum tambahkan dan save sebagai berikut



Create - Table

×

General

Columns

Advanced

Constraints

Partitions

Parameters

Security

SQL

Inherited from table(s)

Select to inherit from...

▼

Columns

+

		Name	Data type	Length/Precision	Scale	Not NULL?	Primary key?	Default
⋮	✎	Nim	integer			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
⋮	✎	Nama	text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
⋮	✎	Email	text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
⋮	✎	Jurusan	text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	

?

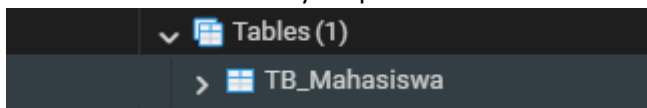
?

Close

Reset

Save

12. Jika berhasil Maka hasilnya seperti berikut



13. Insert data pada pgAdmin4

Event Triggers  
Extensions  
Foreign Data Wrappers  
Languages  
Publications  
Schemas (1)  
public  
Aggregates  
Collations  
Domains  
FTS Configuration  
FTS Dictionaries  
FTS Parsers  
FTS Templates  
Foreign Tables  
Functions  
Materialized Views  
Operators  
Procedures  
Sequences  
Tables (1)  
TB\_Mahasiswa

Count Rows  
Create  
Drop (Alt + Shift + D)  
Drop (Cascade)  
Refresh... (F5)  
Restore...  
Backup...  
Import/Export Data...  
Reset Statistics  
ERD For Table  
Maintenance...  
Scripts 2  
Truncate  
View/Edit Data  
Search Objects... (Alt + Shift + S)  
PSQL Tool  
Query Tool (Alt + Shift + Q)  
Properties... (Alt + Shift + E)

CREATE Script  
DELETE Script  
INSERT Script 3  
SELECT Script  
UPDATE Script

turned successfully in

1

Query Query History

```
1 INSERT INTO public."TB_Mahasiswa"(  
2     "Nim", "Nama", "Email", "Jurusan")  
3     VALUES (123412,'dini','dini@gmail.com','Niaga');
```

The screenshot displays the pgAdmin 4 interface. The Object Explorer on the left shows the database structure, with the 'public' schema selected. A context menu is open, showing options like 'Count Rows', 'Create', 'Drop', 'Refresh...', 'Restore...', 'Backup...', 'Import/Export Data...', 'Reset Statistics', 'ERD For Table', 'Maintenance...', 'Scripts', 'Truncate', 'View/Edit Data', 'Search Objects...', 'PSQL Tool', 'Query Tool', and 'Properties...'. The 'Scripts' option is highlighted, and a sub-menu is open showing 'CREATE Script', 'DELETE Script', 'INSERT Script', 'SELECT Script', and 'UPDATE Script'. The 'INSERT Script' option is selected.

The Dashboard on the right shows various performance metrics. The 'Database sessions' chart shows a single session. The 'Transactions per second' chart shows a peak in transactions. The 'Block I/O' chart shows a peak in reads and hits.

The Query Editor at the bottom shows the following SQL statement:

```
1 INSERT INTO public."TB_Mahasiswa"(  
2     "Nim", "Nama", "Email", "Jurusan")  
3     VALUES (123412, 'dini', 'dini@gmail.com', 'Niaga');
```

The Data Output section shows the result of the query:

```
INSERT 0 1  
  
Query returned successfully in 115 msec.
```

14. Menampilkan data php+pgadmin4+postgreSQL+VSCode, buat file dengan nama index.php  
Tuliskan code sebagai berikut

10.PHPDBPOSTGRESQL > index.php

```
1  <?php
2  // --- KONFIGURASI KONEKSI POSTGRESQL ---
3  $host = 'localhost';
4  $port = '5432';
5  $dbname = 'phpdatabase';
6  $user = 'postgres';
7  $pass = '12345';
8
9  // Membuat koneksi
10 $conn = pg_connect("host=$host port=$port dbname=$dbname user=$user password=$pass");
11 if (!$conn) {
12     die('Koneksi gagal: ' . pg_last_error());
13 }
14
15 // Set encoding (opsional tapi dianjurkan)
16 pg_set_client_encoding($conn, 'UTF8');
17
18
19
20 // Ambil data dari tabel mahasiswa
21 // Pakai alias agar array assoc tetap menggunakan key "Nama", "Nim", dst.
22 $sql = 'SELECT
23     "Nim"      AS "Nim",
24     "Nama"     AS "Nama",
25     "Email"    AS "Email",
26     "Jurusan"  AS "Jurusan"
27 FROM "TB_Mahasiswa"
28 ORDER BY "Nim"';
29
30 $result = pg_query($conn, $sql);
31 if (!$result) {
32     die('Query gagal: ' . pg_last_error($conn));
33 }
34 ?>
```

```
1  <?php
2
3  $host = 'localhost';
4  $port = '5432';
5  $dbname = 'phpdatabase';
6  $user = 'postgres';
7  $pass = '12345678';
8
9  $conn = pg_connect("host=$host port=$port dbname=$dbname user=$user password=$pass");
10 if (!$conn) {
11     die('Koneksi gagal: ' . pg_last_error());
12 }
13
14 pg_set_client_encoding($conn, 'UTF8');
15
16 $sql = 'SELECT
17     "Nim"      AS "Nim",
18     "Nama"     AS "Nama",
19     "Email"    AS "Email",
20     "Jurusan"  AS "Jurusan"
21 FROM "TB_Mahasiswa"
22 ORDER BY "Nim"';
23
24 $result = pg_query($conn, $sql);
25 if (!$result){
26     die('Query gagal: ' . pg_last_error($conn));
27 }
28 ?>
29
```

```

37 <!-- HTML Code -->
38 <!DOCTYPE html>
39 <html lang="en">
40 <head>
41     <meta charset="UTF-8">
42     <meta name="viewport" content="width=device-width, initial-scale=1.0">
43     <title>Document</title>
44 </head>
45 <body>
46 <h1> Daftar Mahasiswa </h1>
47 <table border="1" cellpadding="10" cellspacing="0">
48 <tr>
49     <th>No.</th>
50     <th>Nim</th>
51     <th>Nama</th>
52     <th>Email</th>
53     <th>Jurusan</th>
54     <th>Aksi</th>
55 </tr>
56 <?php $i=1; ?>
57 <?php while($row = pg_fetch_assoc($result)): ?>
58 <tr>
59     <td><? $i; ?></td>
60     <td><? htmlspecialchars($row["Nim"], ENT_QUOTES, 'UTF-8'); ?></td>
61     <td><? htmlspecialchars($row["Nama"], ENT_QUOTES, 'UTF-8'); ?></td>
62     <td><? htmlspecialchars($row["Email"], ENT_QUOTES, 'UTF-8'); ?></td>
63     <td><? htmlspecialchars($row["Jurusan"], ENT_QUOTES, 'UTF-8'); ?></td>
64     <td>
65         <a href="">Edit</a>
66         <a href="">Hapus</a>
67     </td>
68 </tr>
69 <?php $i++; endwhile; ?>
70 </table>
71 </body>
72 </html>
73 <?php
74 // Bebaskan hasil & tutup koneksi (opsional)
75 pg_free_result($result);
76 pg_close($conn);
77 ?>
78

```

```

30 <!DOCTYPE html>
31 <html lang="en">
32 <head>
33     <meta charset="UTF-8">
34     <meta name="viewport" content="width=device-width, initial-scale=1.0">
35     <title>Document</title>
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46     <th>Aksi</th>
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49 <?php while($row=pg_fetch_assoc($result)): ?>
50 <tr>
51     <td><?=$i; ?></td>
52     <td><?= htmlspecialchars($row["Nim"], ENT_QUOTES, 'UTF-8'); ?></td>
53     <td><?= htmlspecialchars($row["Nama"], ENT_QUOTES, 'UTF-8'); ?></td>
54     <td><?= htmlspecialchars($row["Email"], ENT_QUOTES, 'UTF-8'); ?></td>
55     <td><?= htmlspecialchars($row["Jurusan"], ENT_QUOTES, 'UTF-8'); ?></td>
56     <td>
57         <a href="">Edit</a>
58         <a href="">Hapus</a>
59     </td>
60 </tr>
61 <?php $i++; endwhile; ?>
62 </table>
63 </body>
64 </html>
65 <?php
66 pg_free_result($result);
67 pg_close($conn);
68 ?>

```

15. Jalankan webserver kalian pastikan sdh ada postgresSQL nya, jika berhasil maka akan muncul sbb



## Daftar Mahasiswa

No.	Nim	Nama	Email	Jurusan	Aksi
1	123412	dini	dini@gmail.com	Niaga	<a href="#">Edit</a> <a href="#">Hapus</a>

PW-6 - jQuery.p

Document

Laragon

+

-

localhost/dasarWeb/PHPDBPOSTGRESQL/

# Daftar Mahasiswa

No.	Nim	Nama	Email	Jurusan	Aksi
1	123412	dini	dini@gmail.com	Niaga	<a href="#">Edit</a> <a href="#">Hapus</a>