

**Date :** 17th - Dec- 2020

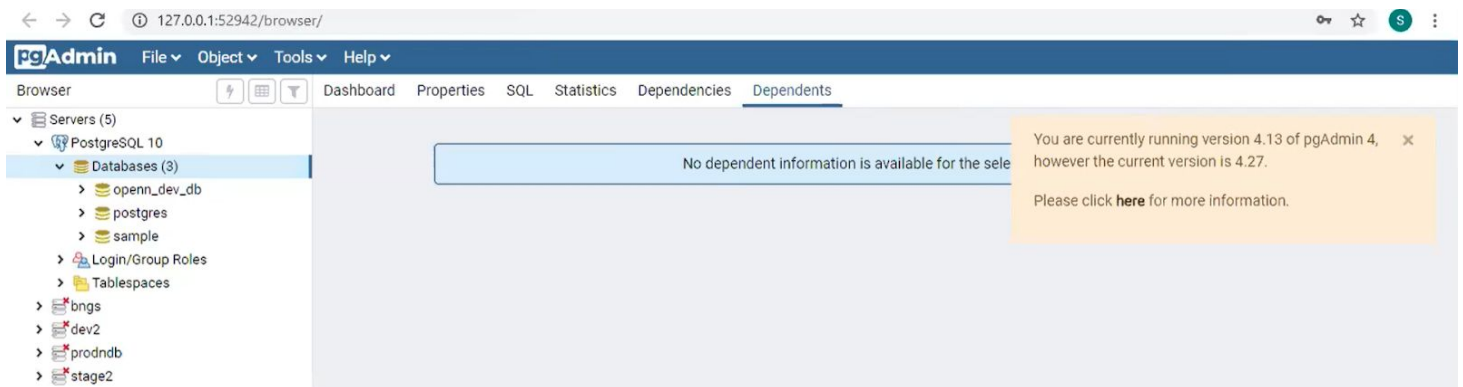
**Morning Session :** 9 am – 10 pm

**By ~** Surya

## Topics: Postgresql - 1

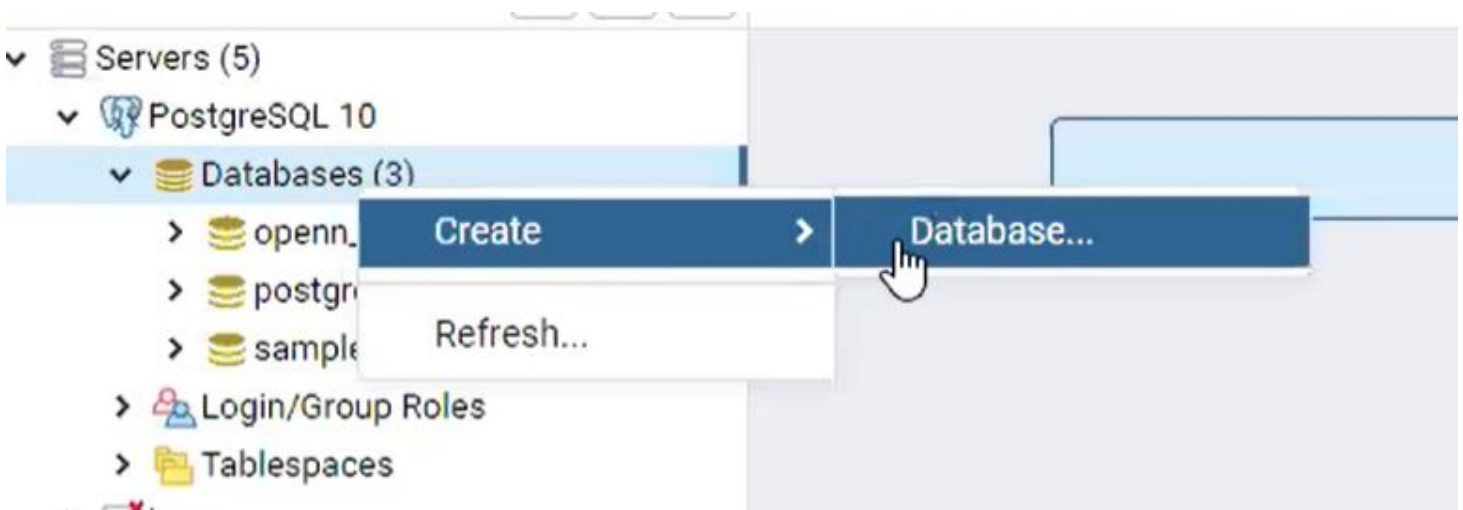
**1st we need to install Pgadmin4**

**[Download \(pgadmin.org\)](https://www.pgadmin.org/)**




**Then we need to create database**

**Click Postgresql → there database option**



## Creating database:

 **Create - Database** ✕

General

Definition

Security


Parameters

SQL



Database


postgres\_node

Owner

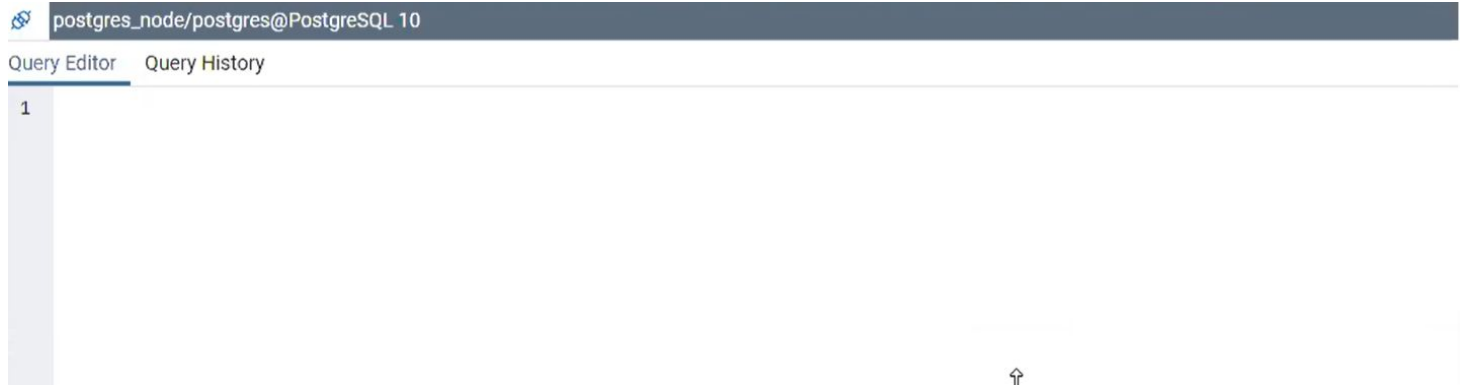
 postgres ▼

Comment

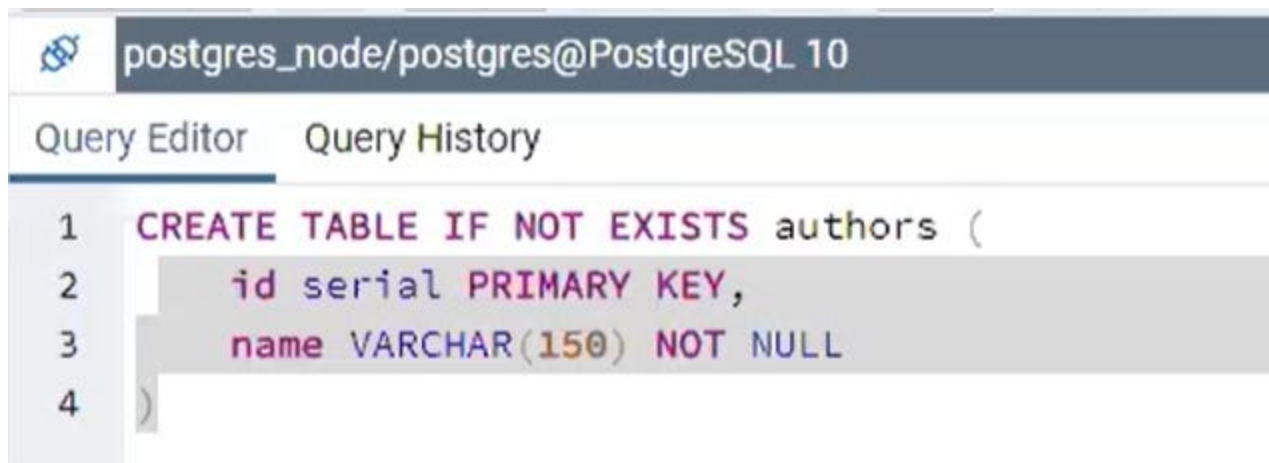
 

✕ Cancel 🔄 Reset  Save

Once we created database right click you can get query tool



create two tables authors and posts



```
CREATE TABLE IF NOT EXISTS posts (  
    id serial PRIMARY KEY,  
    author_id serial REFERENCES authors(id) ON DELETE CASCADE,  
    title VARCHAR(150) NOT NULL,  
    content text,  
    created_at timestamp DEFAULT NOW(),  
    updated_at timestamp DEFAULT NOW()  
)
```

```
//INSERT
INSERT INTO table_name(column1, column2, ...) VALUES (value1, value2,...)
//INSERT authors
INSERT INTO authors (name) VALUES ('Chetan Bhagat')
//
INSERT INTO posts (author_id, title, content) VALUES (5, 'Malgudi Days', 'Random content...');
INSERT INTO posts (author_id, title, content) VALUES (5, 'English Teacher', 'Random content...');
//
```

If u want all the posts

Just run

Select \* from posts;

Data Output		Explain	Messages	Notifications		
	id [PK] integer	author_id integer	title character varying (150)	content text	created_at timestamp without time zone	updated_at timestamp without time zone
2	2	1	2 States	Random co...	2020-12-17 10:10:47.641066	2020-12-17 10:10:47.641066
3	3	1	Revolutionary 2020	Random co...	2020-12-17 10:10:47.641066	2020-12-17 10:10:47.641066
4	4	1	3 mistakes of my life	Random co...	2020-12-17 10:10:47.641066	2020-12-17 10:10:47.641066
5	5	2	Harryporter	Random co...	2020-12-17 10:11:50.453518	2020-12-17 10:11:50.453518
6	6	2	Half blood prince	Random co...	2020-12-17 10:11:50.453518	2020-12-17 10:11:50.453518
7	7	5	Malgudi Days	Random co...	2020-12-17 10:12:20.077798	2020-12-17 10:12:20.077798
	8	5	English Teacher	Random co...	2020-12-17 10:12:20.077798	2020-12-17 10:12:20.077798

If u want print particular one

Select \* from posts where id = '1';

Than create js file and node modules (express and pg)

```
1  const express = require('express');
2  const cors = require('cors');
3  const bodyParser = require('body-parser');
4  const authorRouter = require('./routes/author');
5  const postRouter = require('./routes/post');
6  const client = require('./db');
7
8  const app = express();
9  app.use(cors());
10 app.use(bodyParser.json());
11 app.use(bodyParser.urlencoded({extended: false}));
12
13 app.use('/author', authorRouter);
14 app.use('/post', postRouter);
15 const port = process.env.port || 4000;
16
17 app.listen(port, () => {
18   console.log(`Server listening to port ${port}`)
19 })
```

**IIFE (Immediately invoked function expression)** is a JavaScript function that runs as soon as it is defined.

For pgAdmin Explanation please go through the Recorded Lecture

[Recorded Lecture](#)