

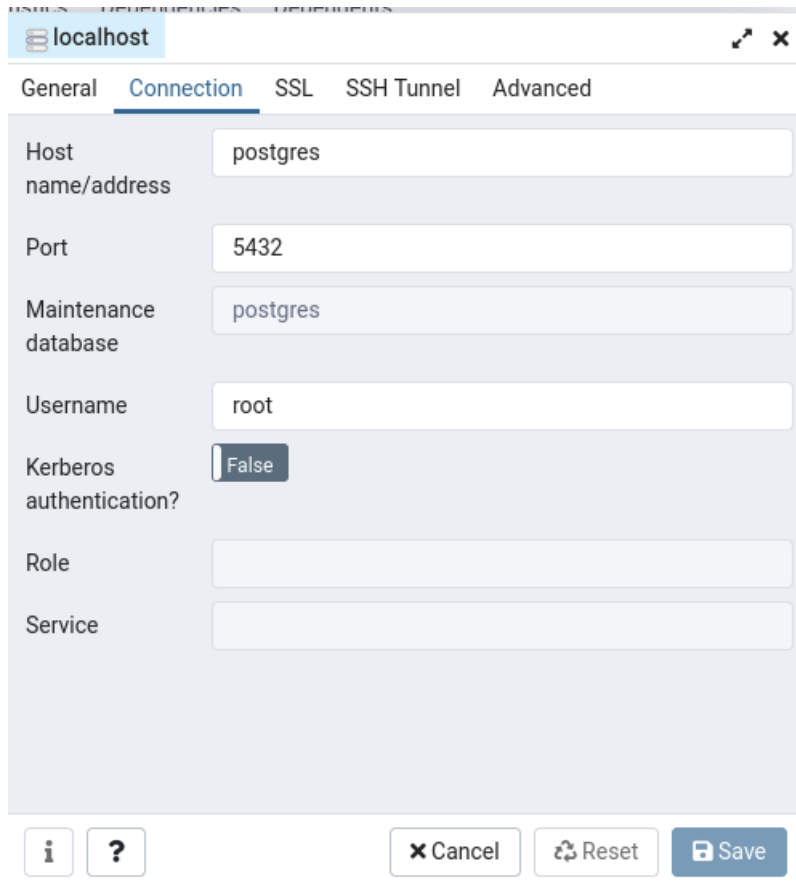
Nama : saman supriadi
Program : Intro to nodejs

Pg admin => salah satu web management untuk posgress.

Cara mengkonekan pg admin ke postgres server.

Klik kanan di bagian servers -> create -> server -> tab general di bagian name isi bebas->tab connection host name / address isi dengan alamat postgres nya -> di bagian port isi dengan port postgres nya bila tidak di ubah biarkan default nya.

Seperti gambar di bawah :



The image shows the 'Create New Server' dialog box in pgAdmin 4, specifically the 'Connection' tab. The dialog is titled 'localhost' and has tabs for 'General', 'Connection', 'SSL', 'SSH Tunnel', and 'Advanced'. The 'Connection' tab is active, showing fields for 'Host name/address' (filled with 'postgres'), 'Port' (filled with '5432'), 'Maintenance database' (filled with 'postgres'), 'Username' (filled with 'root'), 'Kerberos authentication?' (set to 'False'), 'Role' (empty), and 'Service' (empty). At the bottom, there are buttons for 'Cancel', 'Reset', and 'Save', along with information and help icons.

Data Types yang akan sering di gunakan:

- Integer -> number
- Varchar -> string
- Boolean -> boolean
- Serial -> sebuah tipe data numeric untuk menggantikan type data di id => autoincrement

- Constraint : Primary key, Not null, default

```
create table "Students"(  
    nim serial primary key,  
    nama varchar NOT NULL,  
    is_active boolean,  
    id_jurusan integer not null  
);  
create table "jurusan"(  
    id serial primary key,  
    nama_jurusan varchar not null  
);  
alter table "Students" add constraint jurusan_id foreign key (id_jurusan) references "jurusan"(id);
```

JOIN

- Inner join => mengembalikan hasil query dari beberapa tabel yang datanya beririsan / saling terikat satu sama antar tabel bersangkutan
- Full join => mengambil semua data dari tabel yang di select.
- Outoer join => kebalikan dari inner join, mengembalikan data yang tidak beririsan (perbedaan)
- Left join / right join => seperti select biasa aja.

```
//inner join  
select "nim", "nama", "is_active", "nama_jurusan" from "Students" inner join "jurusan" on "Students"."id_jurusan" = "jurusan"."id"  
where "is_active" = false;  
//left join  
select "nim", "nama", "is_active", "nama_jurusan" from "Students" left join "jurusan" on "Students"."id_jurusan" = "jurusan"."id";
```