Connecting PostgreSQL with Django

Download and Install postgresql from website:

https://www.postgresql.org/

<u>Psycopg2</u> is a database adapter commonly used for python programming language install this on your project using below command for windows.

> pip install psycopg2

Create database using postgreSQL CLI or pgadmin4 by default it has postgres username and postgres database you have to change this according to your username and database. I will show you how to start with psql on command line below.

From your command line type

[Enter the password for the database superuser (postgres) – **Hint:** Password entered during the installation of the PostgreSQL on your system]

```
C:\Users\Manukumar N M>psql -U postgres -d postgres

Password for user postgres:
psql (12.7)
WARNING: Console code page (437) differs from Windows code page (1252)
8-bit characters might not work correctly. See psql reference
page "Notes for Windows users" for details.

Type "help" for help.

postgres=#
```

>\du --> To check database users

>CREATE USER "username" WITH PASSWORD "password" CREATEDB;

Example: CREATE USER "user1" WITH PASSWORD "password" CREATEDB;



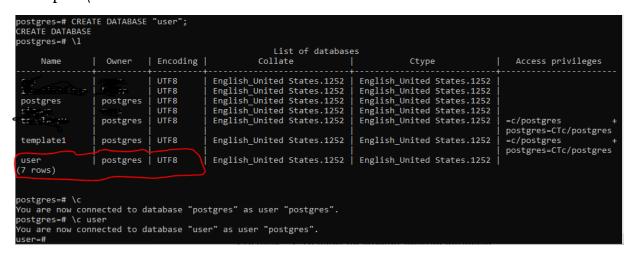
>CREATE DATABASE "database name";

Example: CREATE DATABASE "user";

>\l --> To check list of databases in the postgres

>\c <database name> --> To work on current created database

Example: \c user



[Note: To change the "owner" postgres to your username - you can do it manually from the pgadmin4 or using ALTER command. It not compulsory it's only for privilege access]

[Note - To start from the first using created credentials, type command as shown on the top of the page and now you check your curser is pointing to created database called – user.]

```
C:\Users\Manukumar N M>psql -U user1 -d user

Password for user user1:

psql (12.7)

WARNING: Console code page (437) differs from Windows code page (1252)

8-bit characters might not work correctly. See psql reference

page "Notes for Windows users" for details.

Type "help" for help.

user=>
```

Go to settings.py file in your django project in that Scroll to the database section. Replace default database connection with below code.

```
DATABASES = {
'default': {
'ENGINE': 'django.db.backends.postgresql_psycopg2',
'NAME': 'CURD-Django', #Database Name
'USER': 'postgres', #Your Postgresql user
'PASSWORD': 'admin', #Your Postgresql password
'HOST': '127.0.0.1',
'PORT': '5432',
}
}
```

Migrate your project. By default, Django provides some migrations.