

## Connecting PostgreSQL with Django

Download and Install postgresql from website:

<https://www.postgresql.org/>

[Psycopg2](#) 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

**>psql -U postgres -d postgres**

Username	Database name

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

```
Command Prompt - psql -U postgres -d postgres

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;

```
postgres=# CREATE USER "user1" WITH password 'password' CREATEDB;
CREATE ROLE
postgres=# \du
```

Role name	Attributes	Member of
postgres	Create DB Create DB Superuser, Create role, Create DB, Replication, Bypass RLS	{ { {
user1	Create DB Create DB	{ {

```
postgres=#
```

>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

```
postgres=# CREATE DATABASE "user";
CREATE DATABASE
postgres=# \l
```

Name	Owner	Encoding	Collate	Ctype	Access privileges
postgres	postgres	UTF8	English_United States.1252	English_United States.1252	
template0	postgres	UTF8	English_United States.1252	English_United States.1252	
template1	postgres	UTF8	English_United States.1252	English_United States.1252	
user	postgres	UTF8	English_United States.1252	English_United States.1252	

```
(7 rows)

postgres=# \c
You are now connected to database "postgres" as user "postgres".
postgres=# \c user
You are now connected to database "user" as user "postgres".
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.