REBOUND EXERCISE: CONFIGURAR UNA BASE DE DATOS EN DJANGO
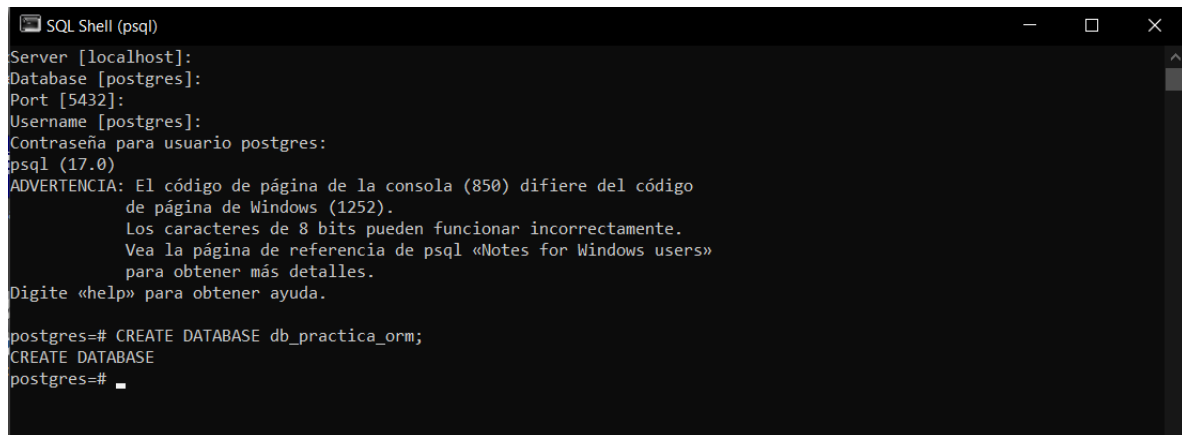
1. Primero, crear la base de datos y el usuario en PostgreSQL

- Crear la base de datos

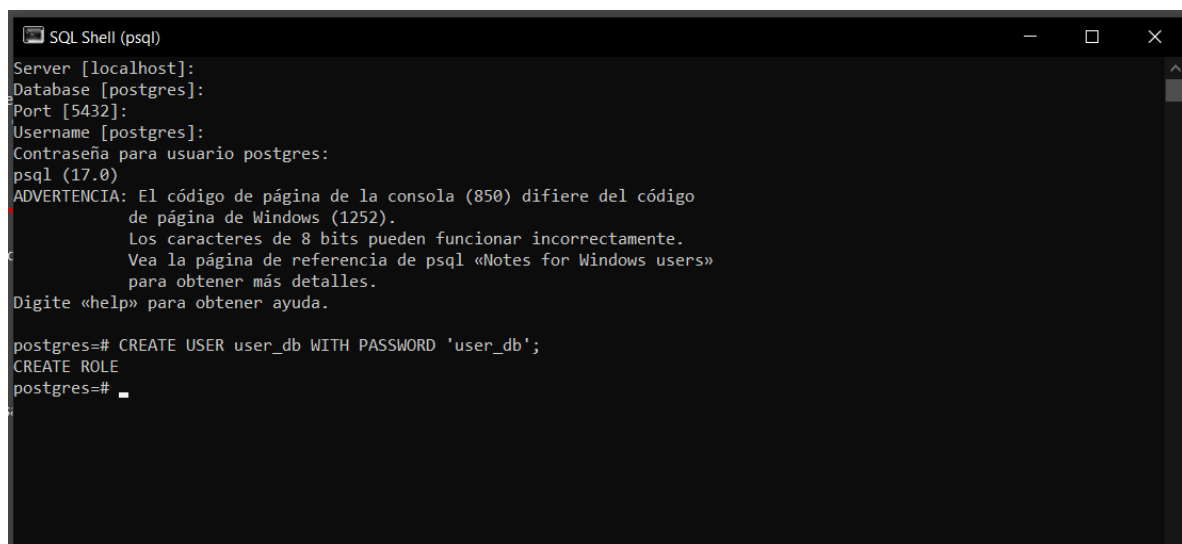CREATE DATABASE db_practica_orm;

- Crear el usuario con contraseña

CREATE USER user_db WITH PASSWORD 'user_db';

- Otorgar todos los privilegios al usuario sobre la base de datos

GRANT ALL PRIVILEGES ON DATABASE db_practica_orm TO user_db;
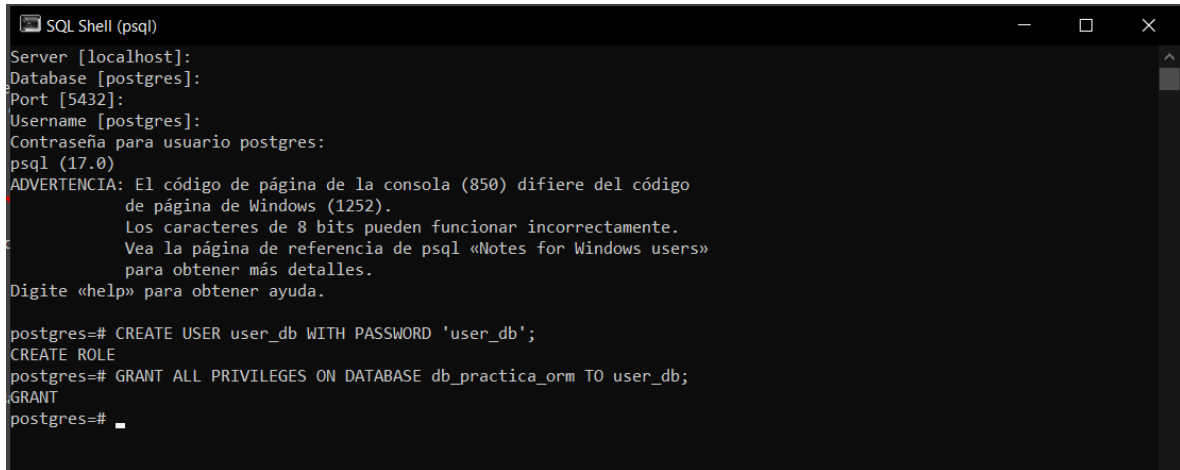
```
SQL Shell (psql)                                                    —    □    ×
Server [localhost]:
Database [postgres]:
Port [5432]:
Username [postgres]:
Contraseña para usuario postgres:
psql (17.0)
ADVERTENCIA: El código de página de la consola (850) difiere del código
            de página de Windows (1252).
            Los caracteres de 8 bits pueden funcionar incorrectamente.
            Vea la página de referencia de psql «Notes for Windows users»
            para obtener más detalles.
Digite «help» para obtener ayuda.

postgres=# CREATE USER user_db WITH PASSWORD 'user_db';
CREATE ROLE
postgres=# GRANT ALL PRIVILEGES ON DATABASE db_practica_orm TO user_db;
GRANT
postgres=# _
```

- Salir de PostgreSQL

    \q

DJANGO

2. Crear y activar el ambiente virtual

    mkvirtualenv practica_orm_django

    workon practica_orm_django

3. Instalar Django y psycopg2

    pip install django psycopg2

4. Crear el proyecto Django

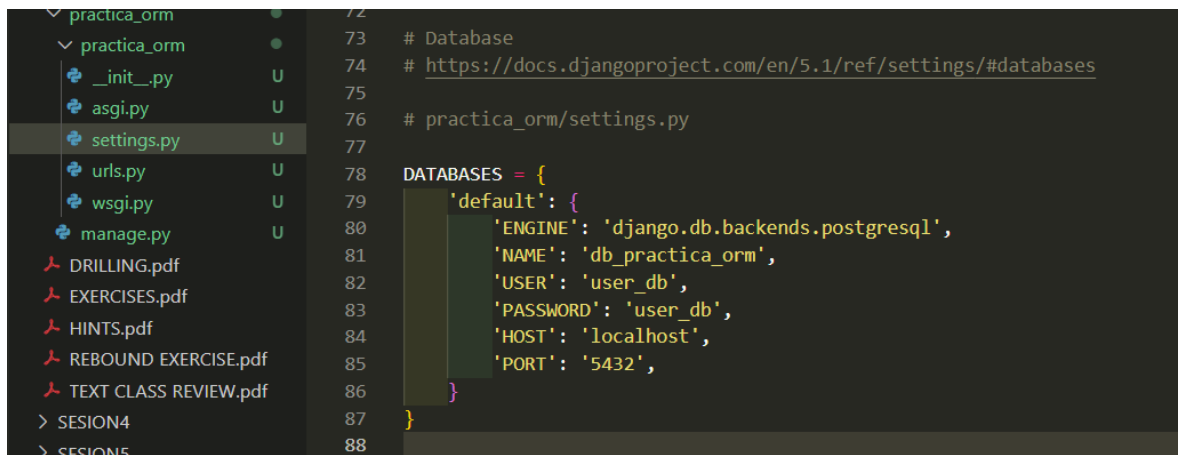   django-admin startproject practica_orm

    cd practica_orm

```
(practica_orm_django) D:\0001 BOOT CAMP\BOOTCAMP\M7\SESION3>pip install django psycopg2
Collecting django
  Using cached Django-5.1.4-py3-none-any.whl.metadata (4.2 kB)
Collecting psycopg2
  Using cached psycopg2-2.9.10-cp312-cp312-win_amd64.whl.metadata (5.0 kB)
Collecting asgiref<4,>=3.8.1 (from django)
  Using cached asgiref-3.8.1-py3-none-any.whl.metadata (9.3 kB)
Collecting sqlparse>=0.3.1 (from django)
  Using cached sqlparse-0.5.3-py3-none-any.whl.metadata (3.9 kB)
Collecting tzdata (from django)
  Using cached tzdata-2024.2-py2.py3-none-any.whl.metadata (1.4 kB)
Using cached Django-5.1.4-py3-none-any.whl (8.3 MB)
Using cached psycopg2-2.9.10-cp312-cp312-win_amd64.whl (1.2 MB)

(practica_orm_django) D:\0001 BOOT CAMP\BOOTCAMP\M7\SESION3\practica_orm>ls
manage.py  practica_orm

(practica_orm_django) D:\0001 BOOT CAMP\BOOTCAMP\M7\SESION3\practica_orm>
```

4. Conecte la base de datos al proyecto de Django.

Configuración de settings.py

```
  72
  73    # Database
  74    # https://docs.djangoproject.com/en/5.1/ref/settings/#databases
  75
  76    # practica_orm/settings.py
  77
  78    DATABASES = {
  79        'default': {
  80            'ENGINE': 'django.db.backends.postgresql',
  81            'NAME': 'db_practica_orm',
  82            'USER': 'user_db',
  83            'PASSWORD': 'user_db',
  84            'HOST': 'localhost',
  85            'PORT': '5432',
  86        }
  87    }
  88
```

5. *Ejecutar las migraciones*

python manage.py migrate

```
(practica_orm_django) D:\0001 BOOT CAMP\BOOTCAMP\M7\SESION3\practica_orm>python manage.py migrate
Operations to perform:
  Apply all migrations: admin, auth, contenttypes, sessions
Running migrations:
  Applying contenttypes.0001_initial... OK
  Applying auth.0001_initial... OK
  Applying admin.0001_initial... OK
  Applying admin.0002_logentry_remove_auto_add... OK
  Applying admin.0003_logentry_add_action_flag_choices... OK
  Applying contenttypes.0002_remove_content_type_name... OK
  Applying auth.0002_alter_permission_name_max_length... OK
  Applying auth.0003_alter_user_email_max_length... OK
  Applying auth.0004_alter_user_username_opts... OK
  Applying auth.0005_alter_user_last_login_null... OK
  Applying auth.0006_require_contenttypes_0002... OK
  Applying auth.0007_alter_validators_add_error_messages... OK
  Applying auth.0008_alter_user_username_max_length... OK
  Applying auth.0009_alter_user_last_name_max_length... OK
  Applying auth.0010_alter_group_name_max_length... OK
  Applying auth.0011_update_proxy_permissions... OK
  Applying auth.0012_alter_user_first_name_max_length... OK
  Applying sessions.0001_initial... OK

(practica_orm_django) D:\0001 BOOT CAMP\BOOTCAMP\M7\SESION3\practica_orm>
```

6. *Ejecutar el servidor*

python manage.py runserver

```
(practica_orm_django) D:\0001 BOOT CAMP\BOOTCAMP\M7\SESION3\practica_orm>python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
December 19, 2024 - 11:09:19
Django version 5.1.4, using settings 'practica_orm.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```