**DOCUMENTACIÓN CON CAPTURAS Y ARCHIVOS DE BACKUP: CREACIÓN Y ADMINISTRACIÓN DE BASES DE DATOS EN 4 MOTORES**

**BD OPTOMETRY**

ASIGNATURA BASE DE DATOS II

**DOCENTE:**

Jaider Quintero

**ESTUDIANTE:**

Daillent Conrado Tatis

UNIVERSIDAD DE LA GUAJIRA

SEDE RIOHACHA

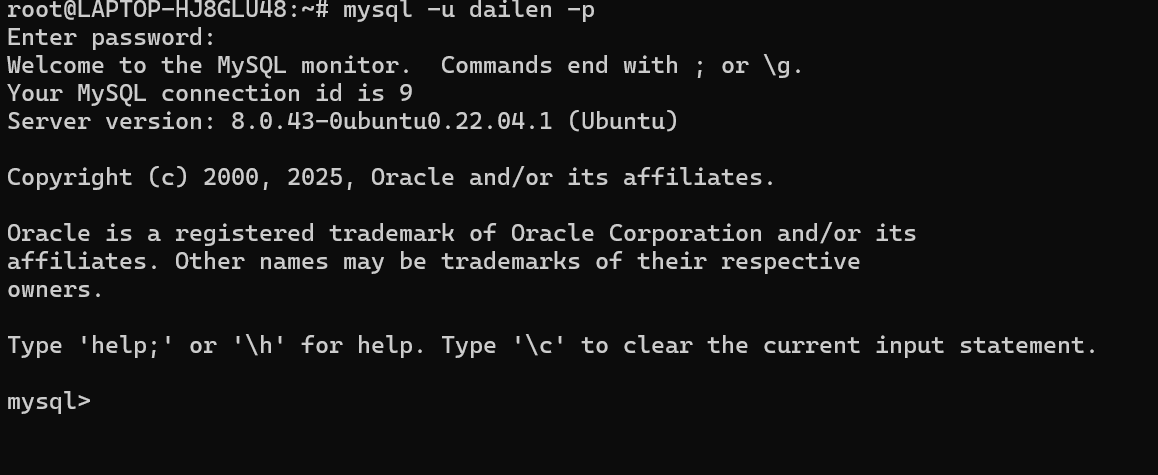
PROGRAMA DE INGENIERIA DE SISTEMAS

2025-1

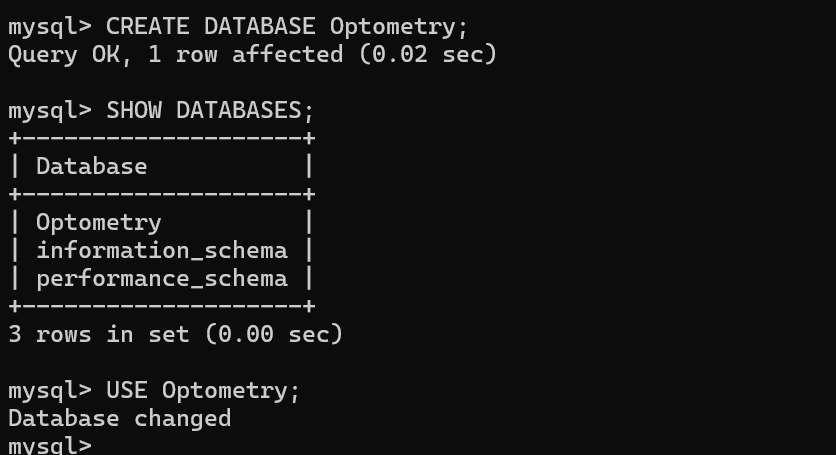
**Sección 1. MySQL – Terminal**

* 1. **APERTURA DEL CLIENTE MYSQL**

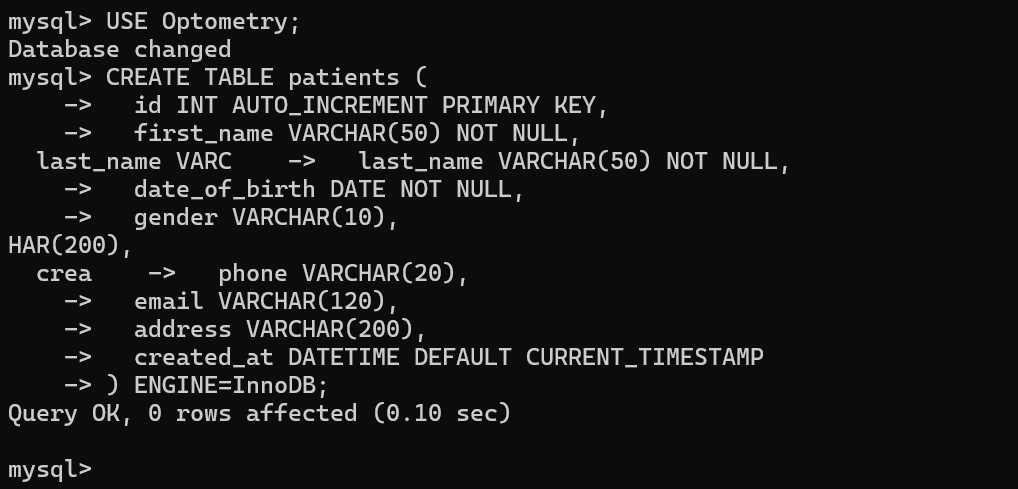
Se ingresa al cliente MySQL con el usuario dailen. Contraseña: 12345



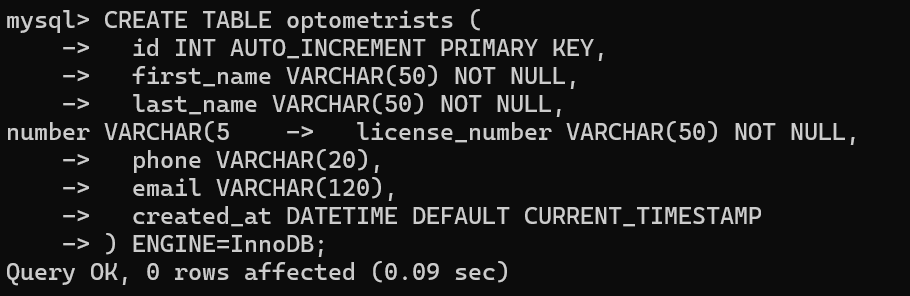
* 1. **CREACION DE LA BASE DE DATOS *OPTOMETRY* Y LA USAMOS PARA EMPEZAR A CREAR TABLAS**



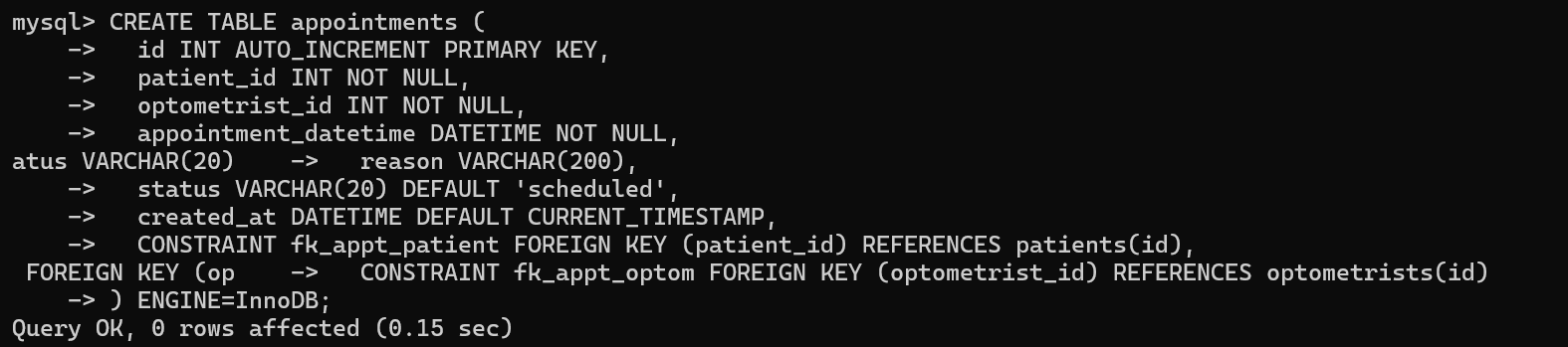
* 1. **CREACION DE LA TABLA PACIENTES (PATIENTS)**



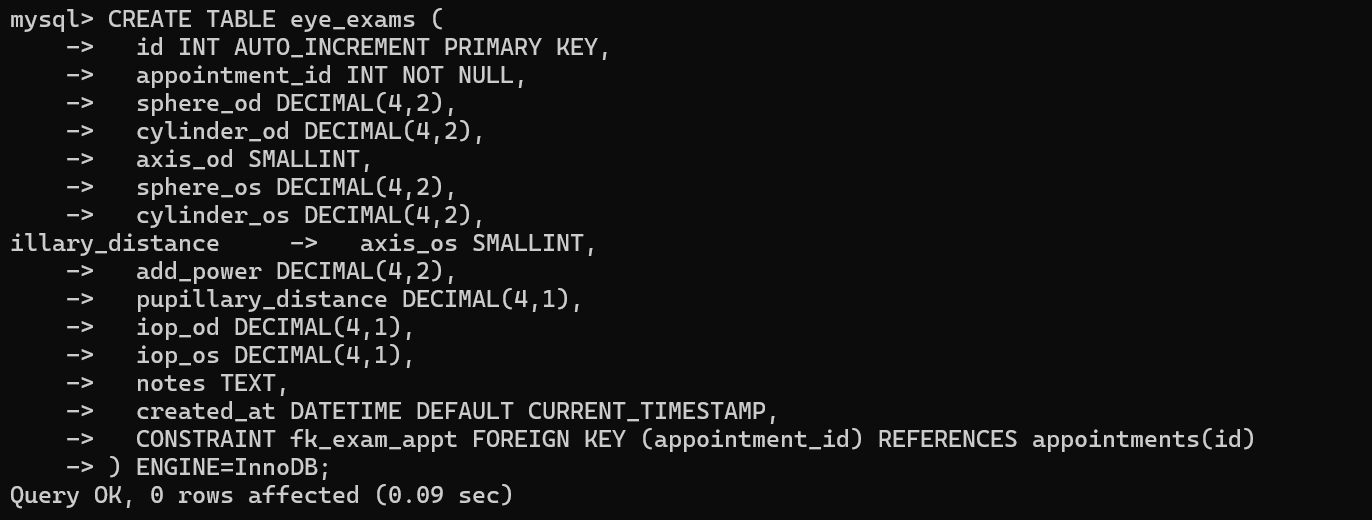
* 1. **CREACION DE LA TABLA OPTOMETRISTAS (OPTOMETRISTS)**



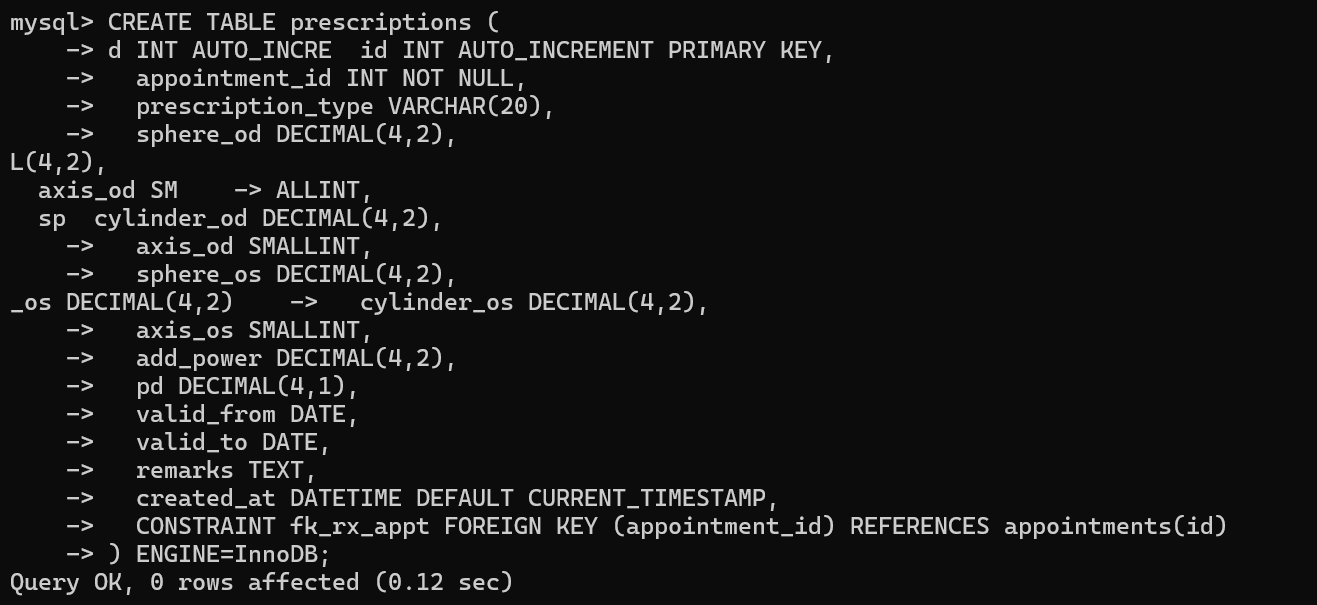
* 1. **CREACION DE LA TABLA CITAS (APPOINTMENTS)**



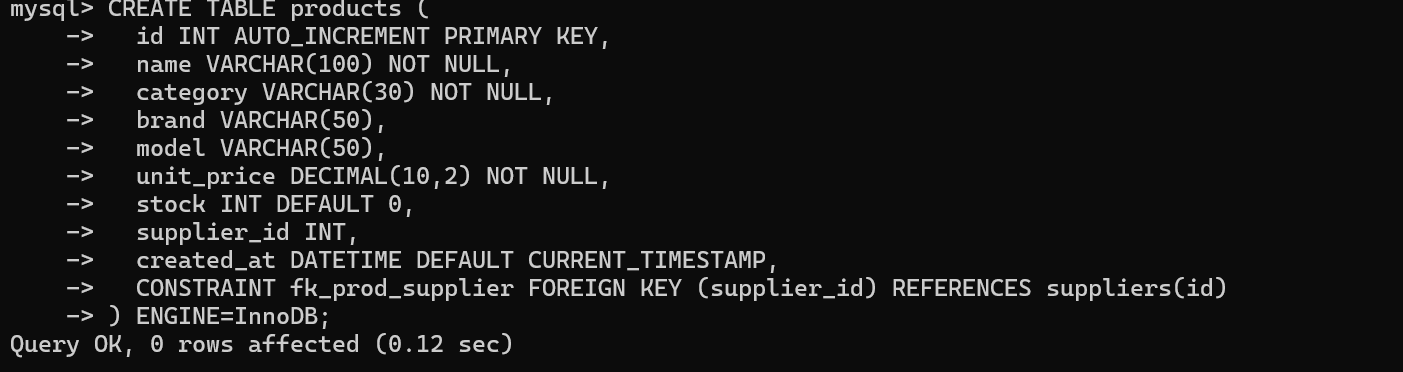
* 1. **CREACION DE LA TABLA EXAMENES (EYE\_EXAMS)**



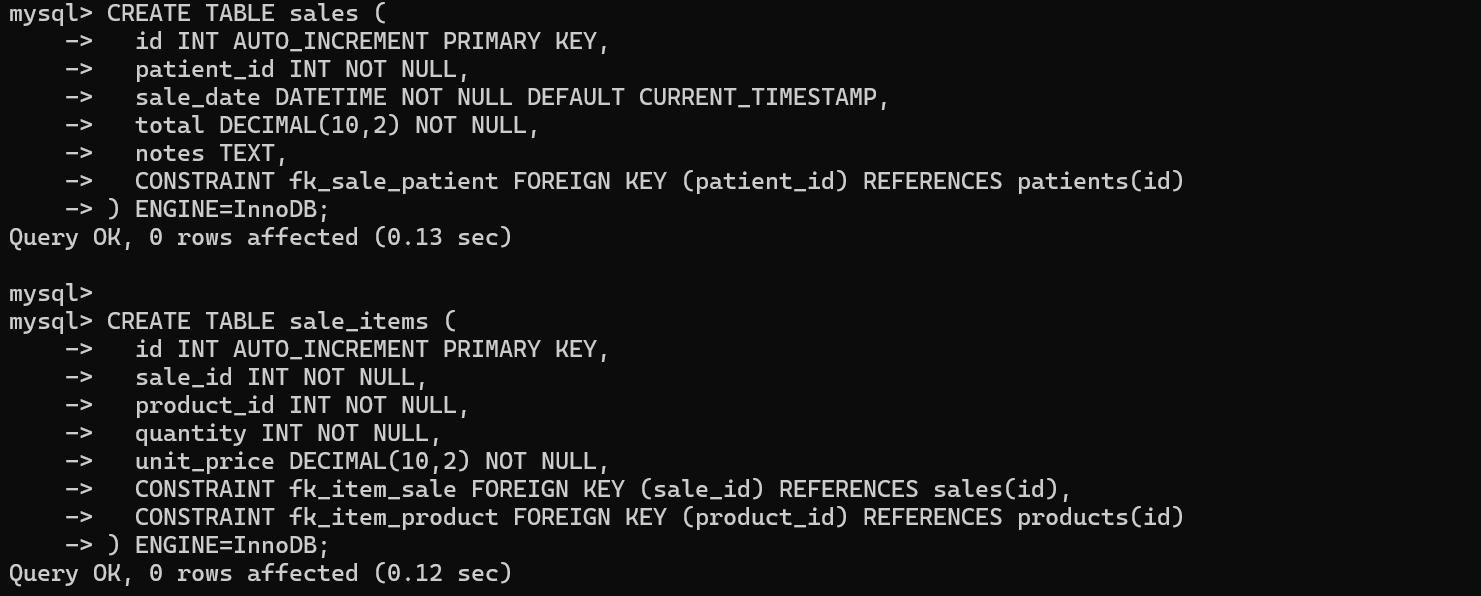
* 1. **CREACION DE LA TABLA PRESCRIPCIONES (PRESCRIPTIONS)**



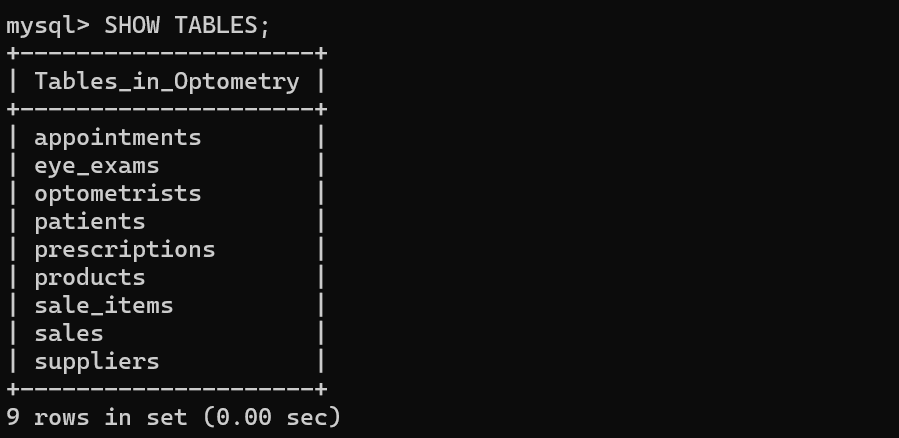
* 1. **CREACION DE LA TABLA PRODUCTOS (PRODUCTS)**



* 1. **CREACION DE LA TABLAS DE VENTAS Y TIEMPOS DE VENTA ( SALES Y SALES TIME)**

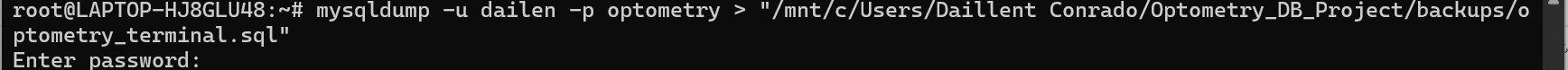


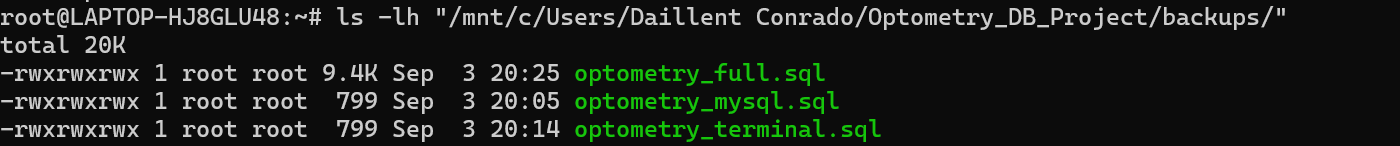
**1.10 VERIFICACIÓN DE LAS TABLAS CREADAS**

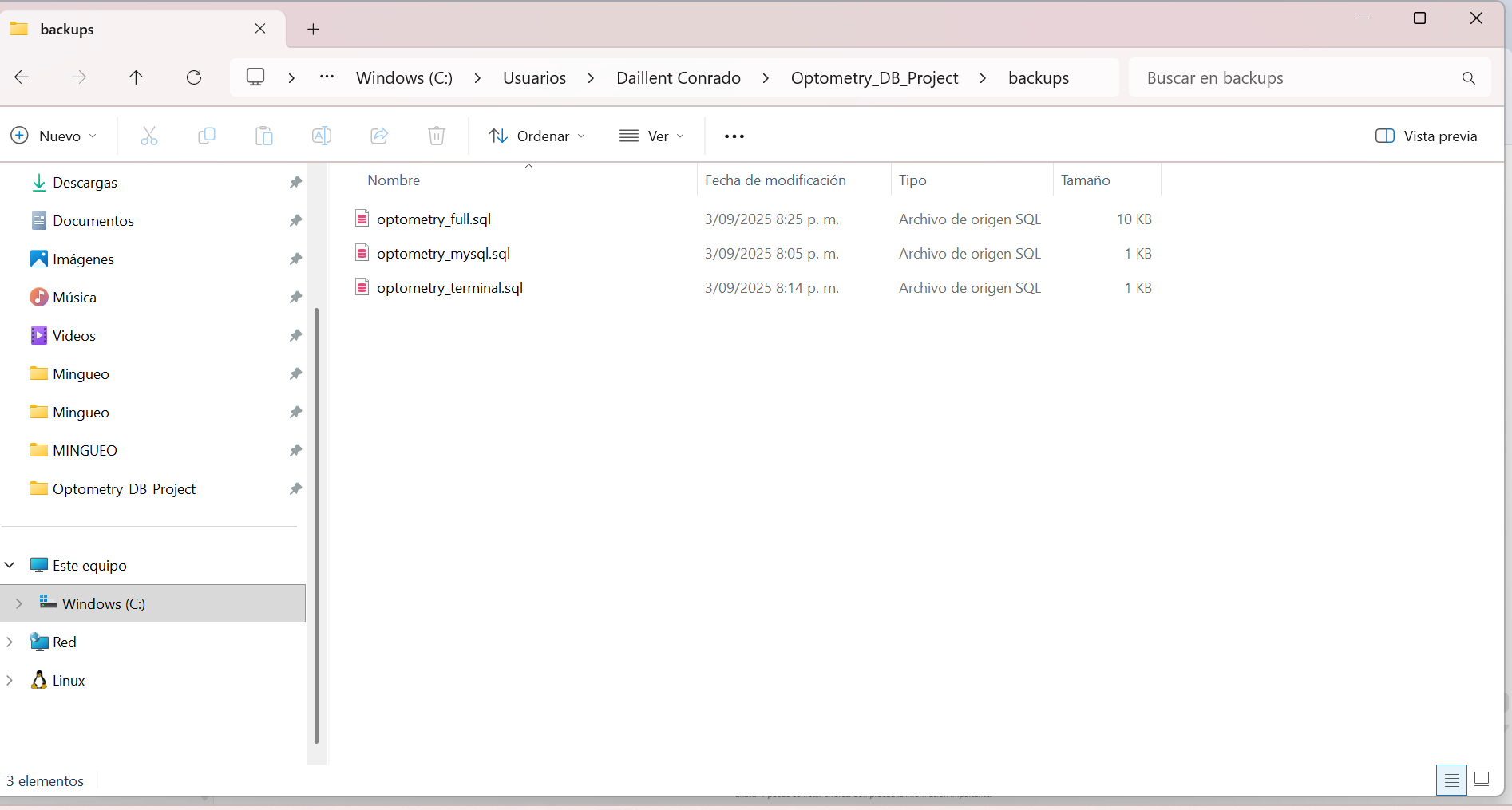


**1.11 RESPALDO DE LA BASE DE DATOS CON MYSQLDUMP**

Se genera el archivo de respaldo y verificamos si se hizo

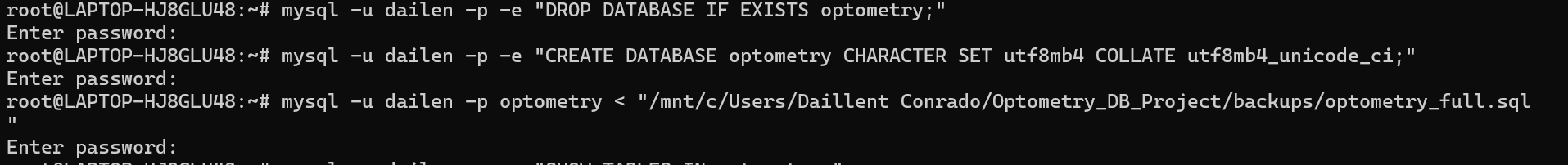


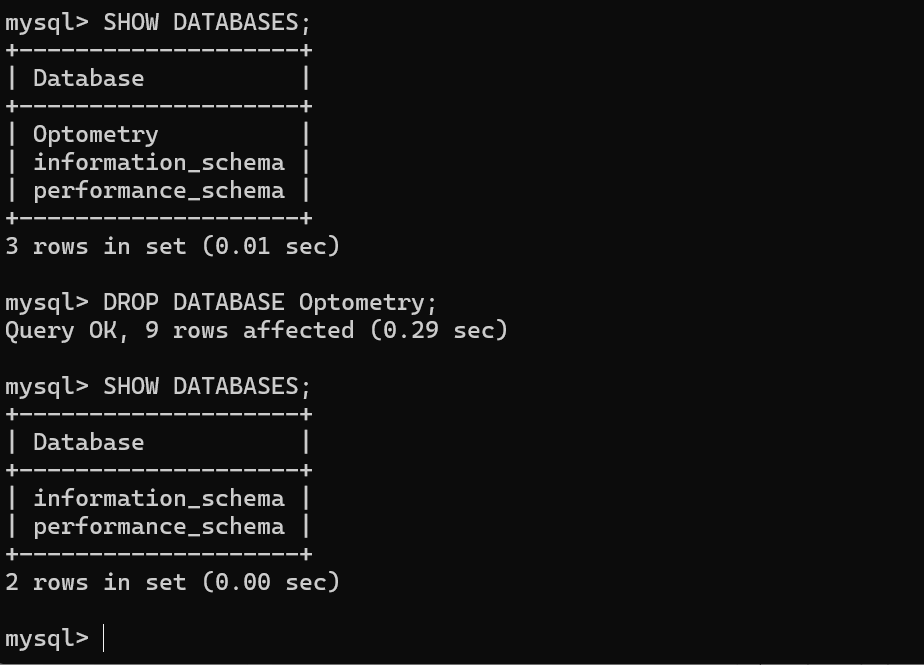




**1.12 RESTAURACIÓN DE LA BASE DE DATOS DESDE EL RESPALDO**

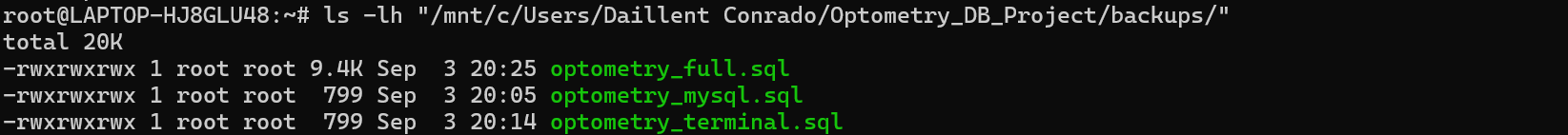
Primero borraremos y volveremos a crear la base: para simular la recuperación

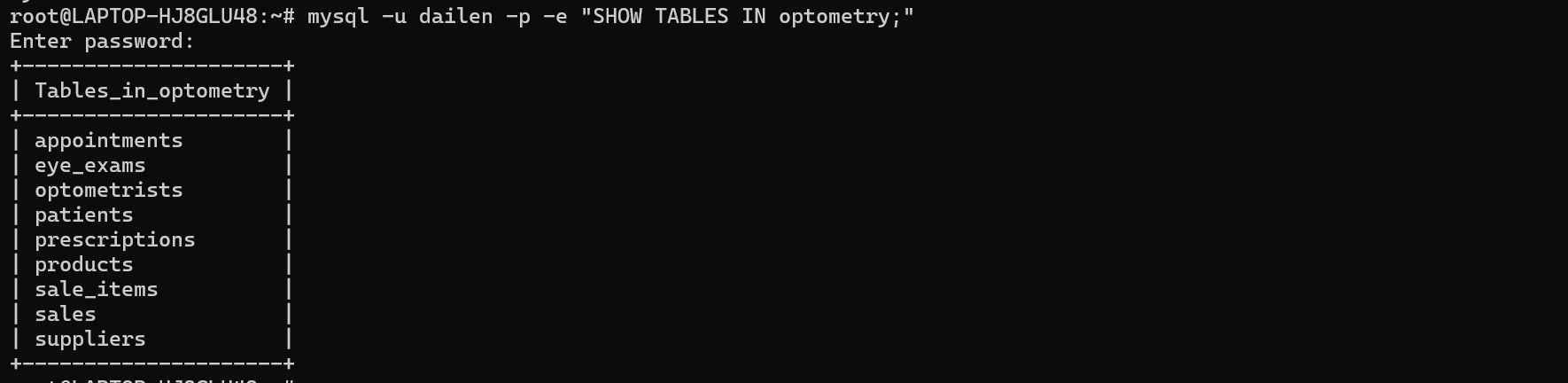




Restauramos con:

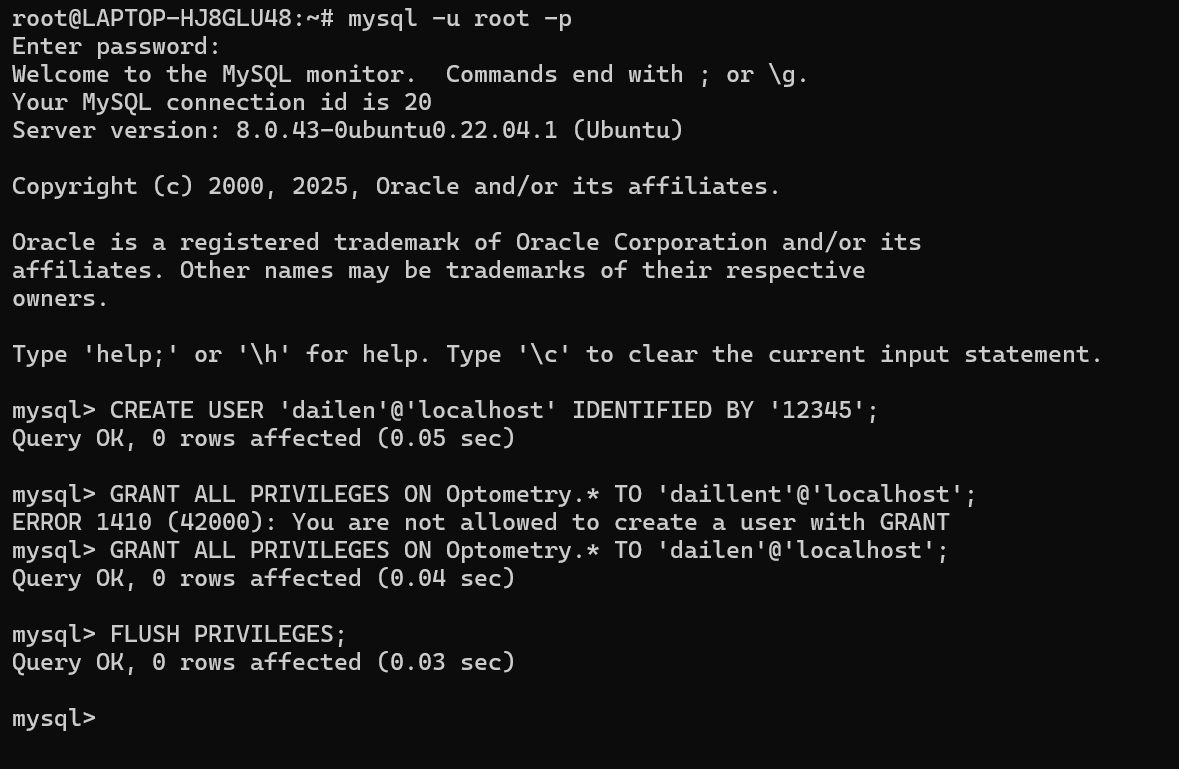
Restaura el backup completo y **Verifica que las tablas volvieron:**

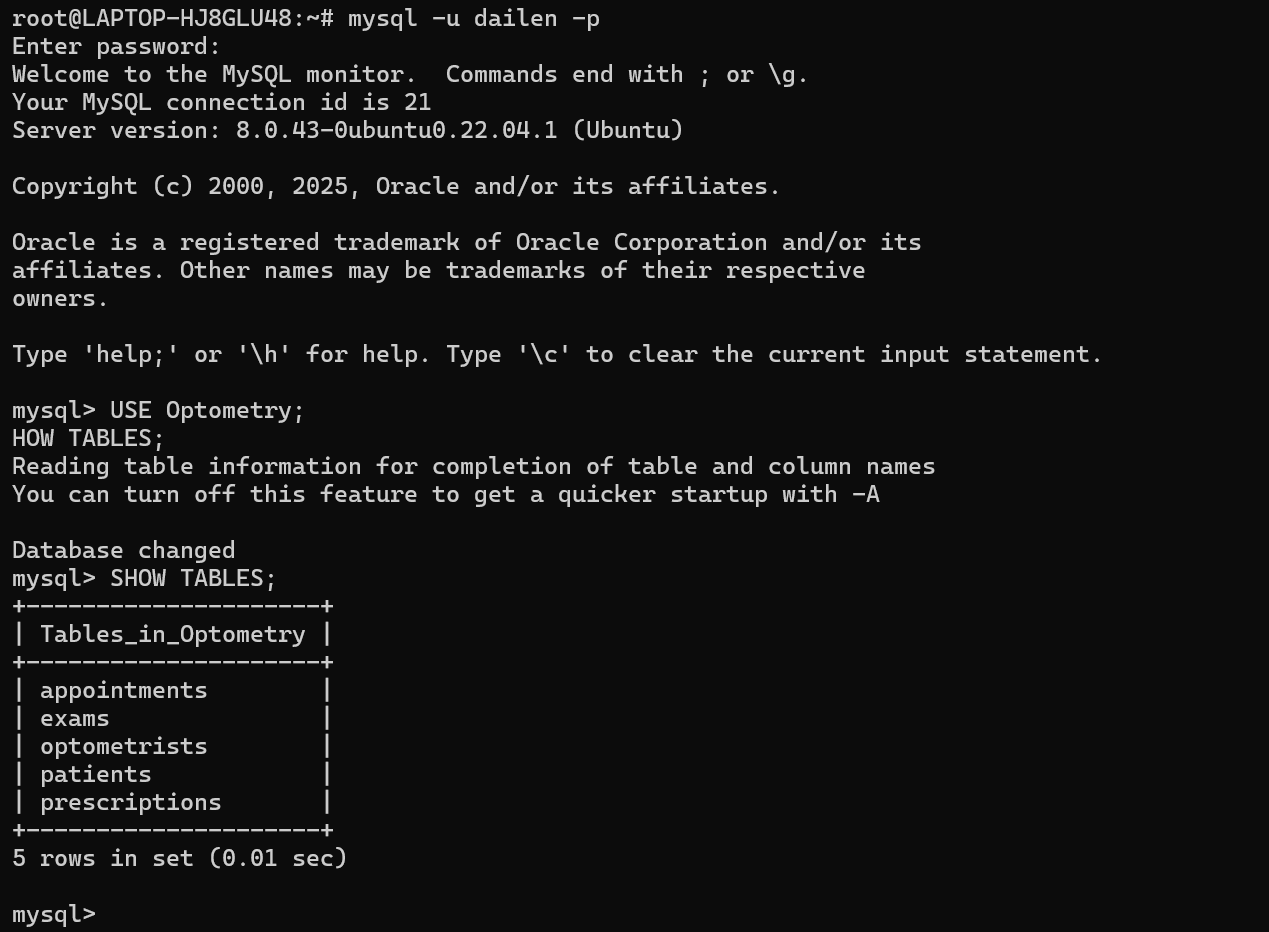




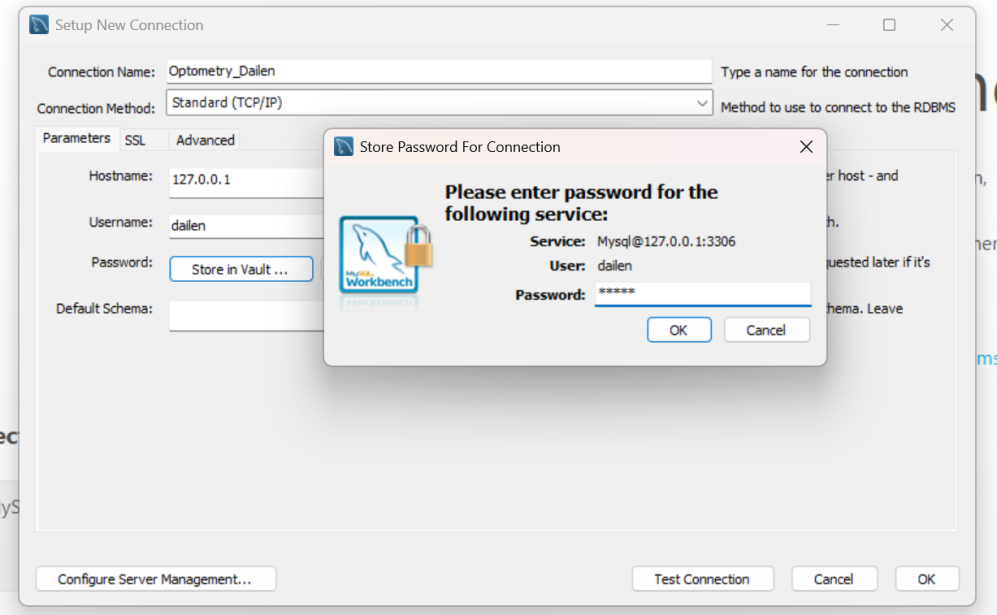
SECCIÓN 2. MySQL – Workbench

**2.1 cambiamos nombre de usuario, damos privilegios y verificamos que nos de acceso, con nuestro nuevo usuario.**

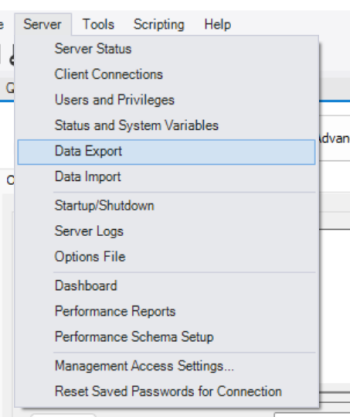
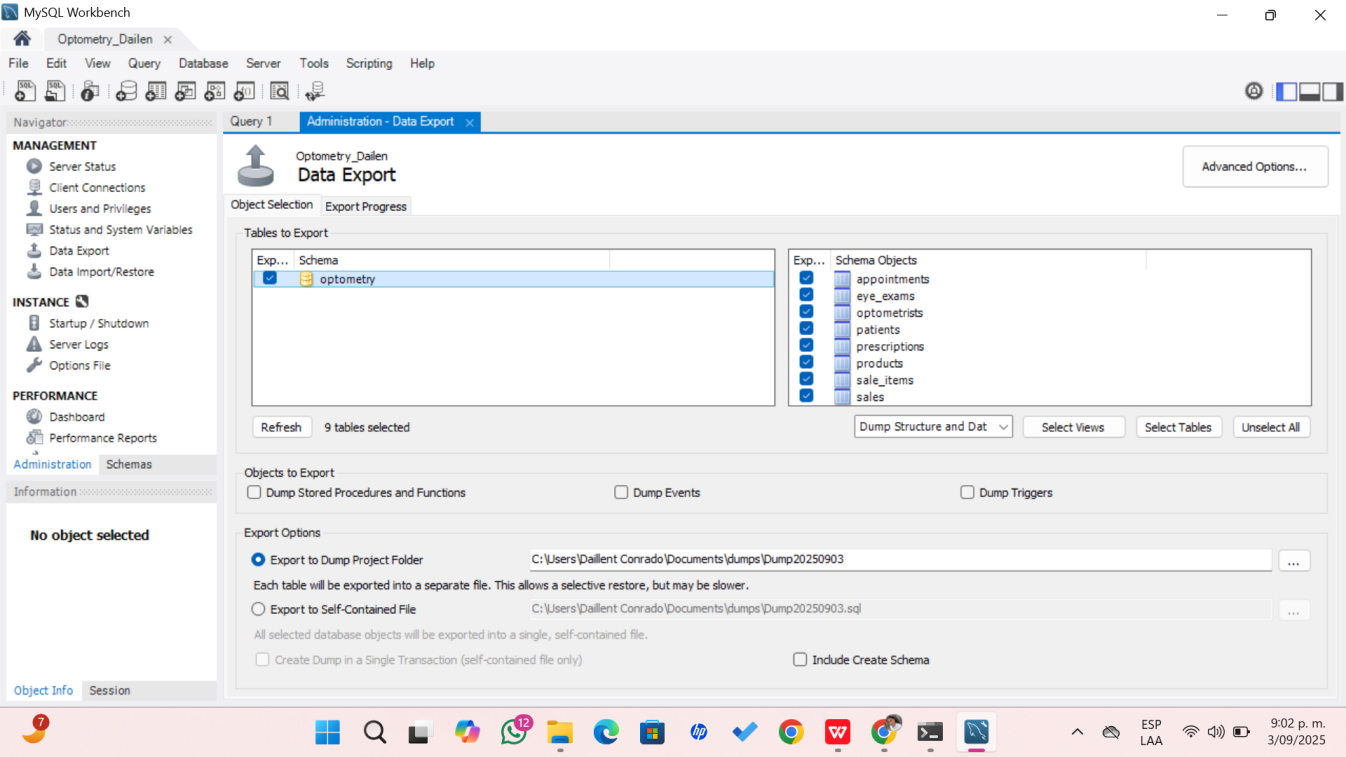




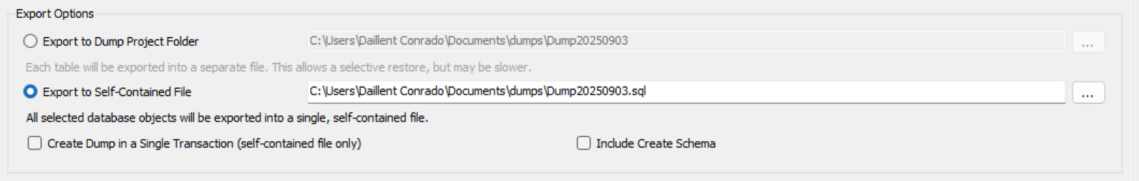
**2.2 CREACIÓN DE LA CONEXIÓN EN WORKBENCH**

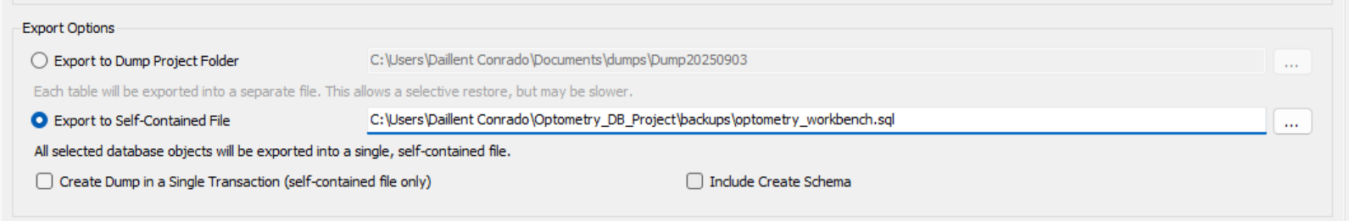


2.3 2. Exportar (Backup), seleccionamos nuestra bd, y nuestras tablas

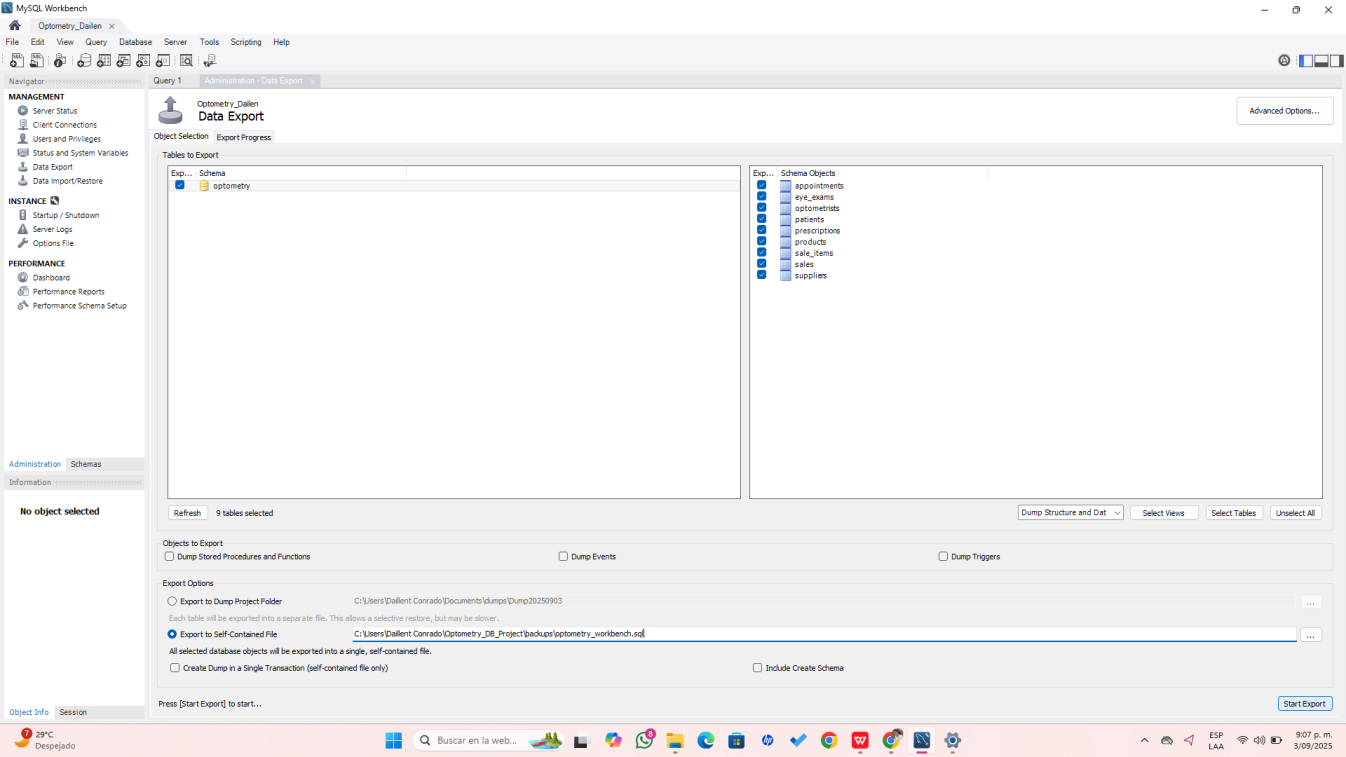
 

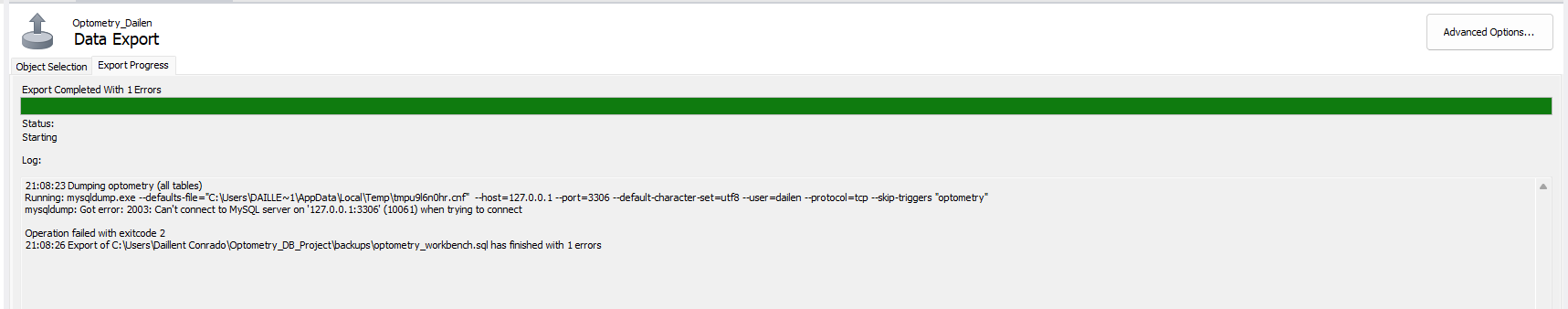
**Y es importante seleccionar export to Self-Contained file y cambiamos la ruta a guardar.**

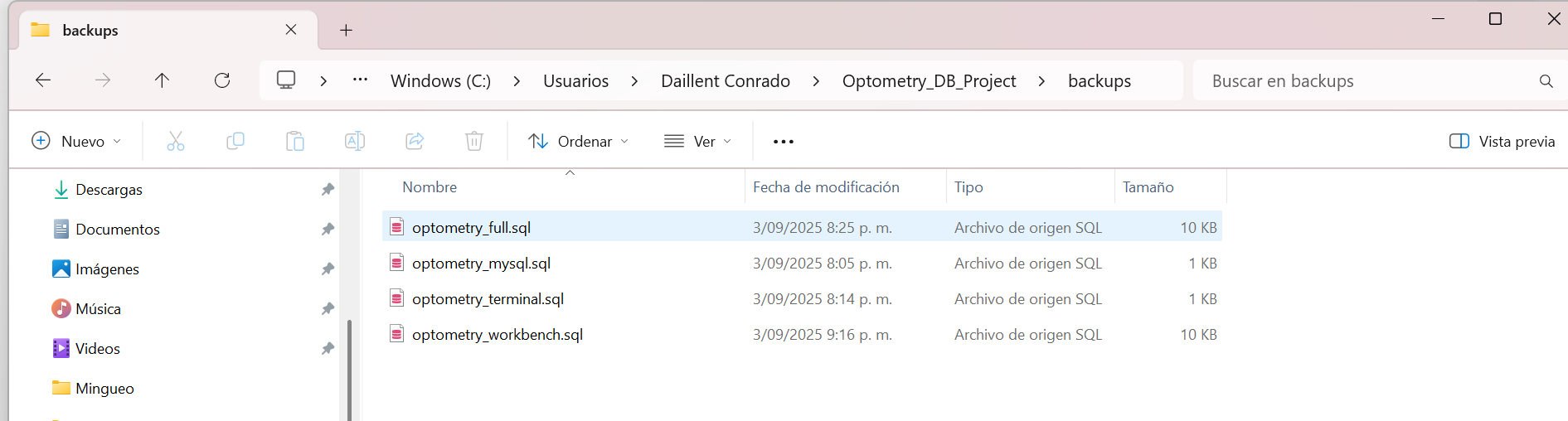




Y seleccionamos start export

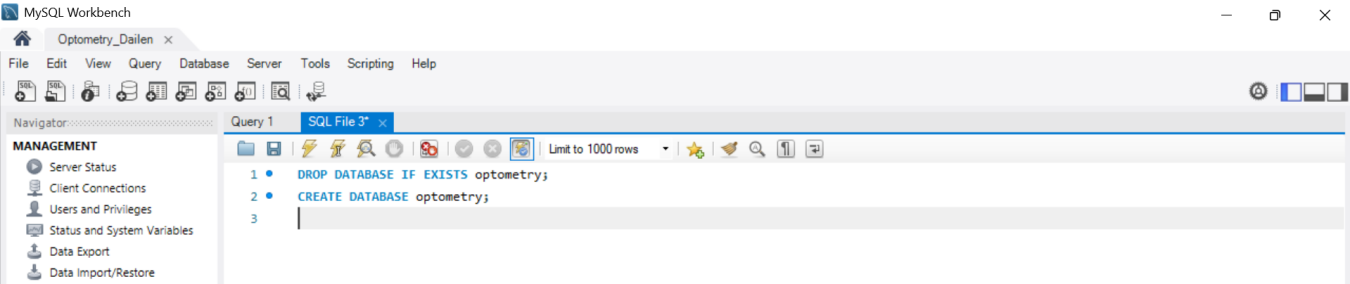






Borramos y hacemos restauración

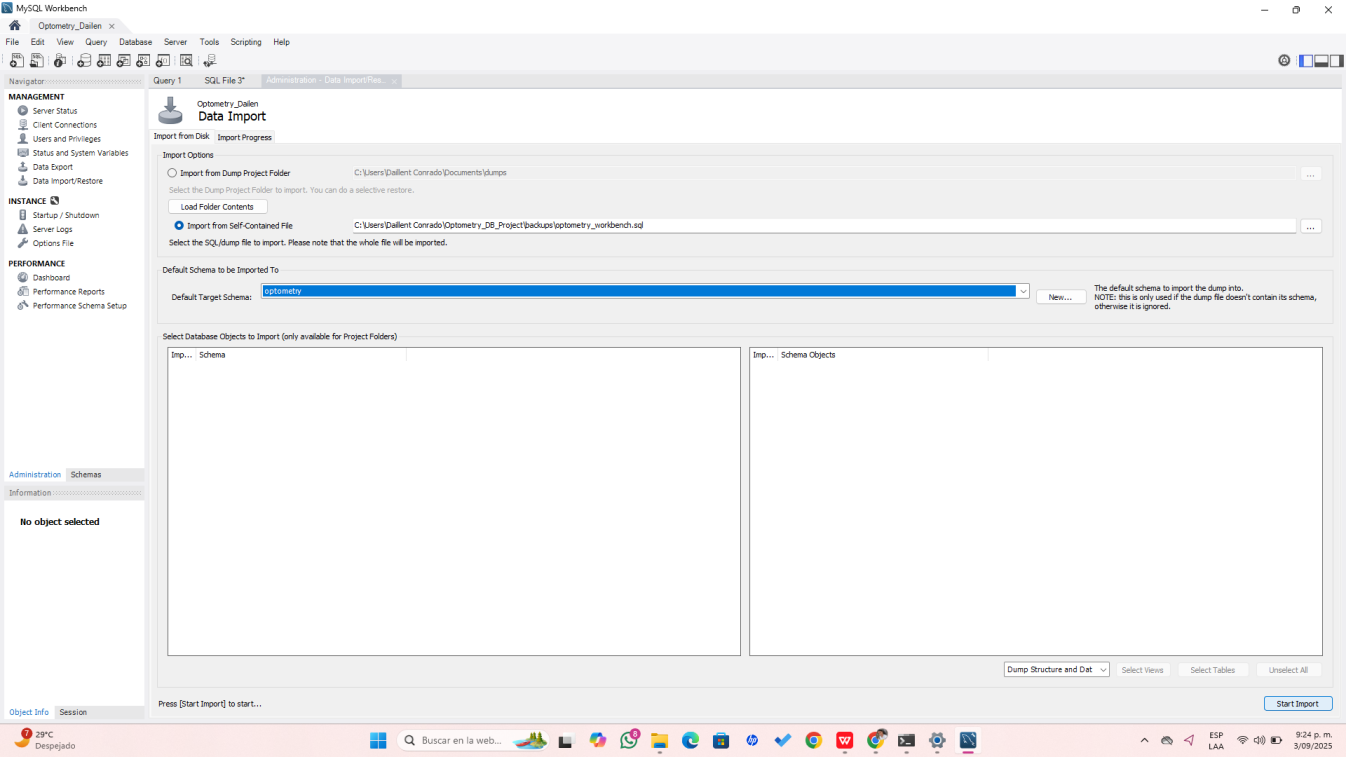
Abrimos una pestaña SQL (botón con el ícono de hoja blanca o +). y Ejecutamos

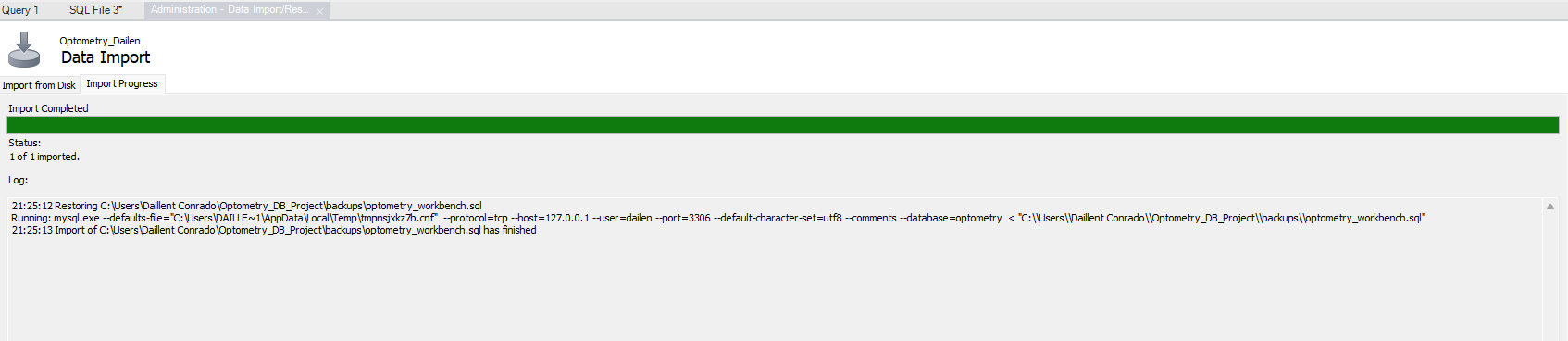


Importamos desde el respaldo

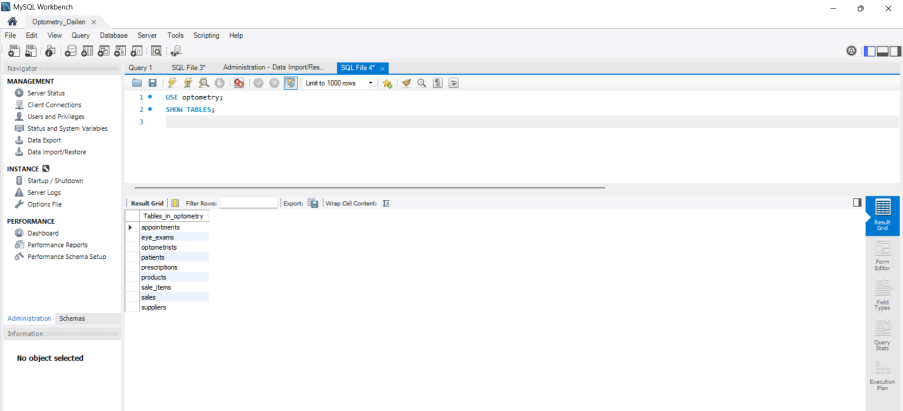
En la ventana:

Marcamos **Import from Self-Contained File**. Seleccionamos nuestro archivo: y marcamos import



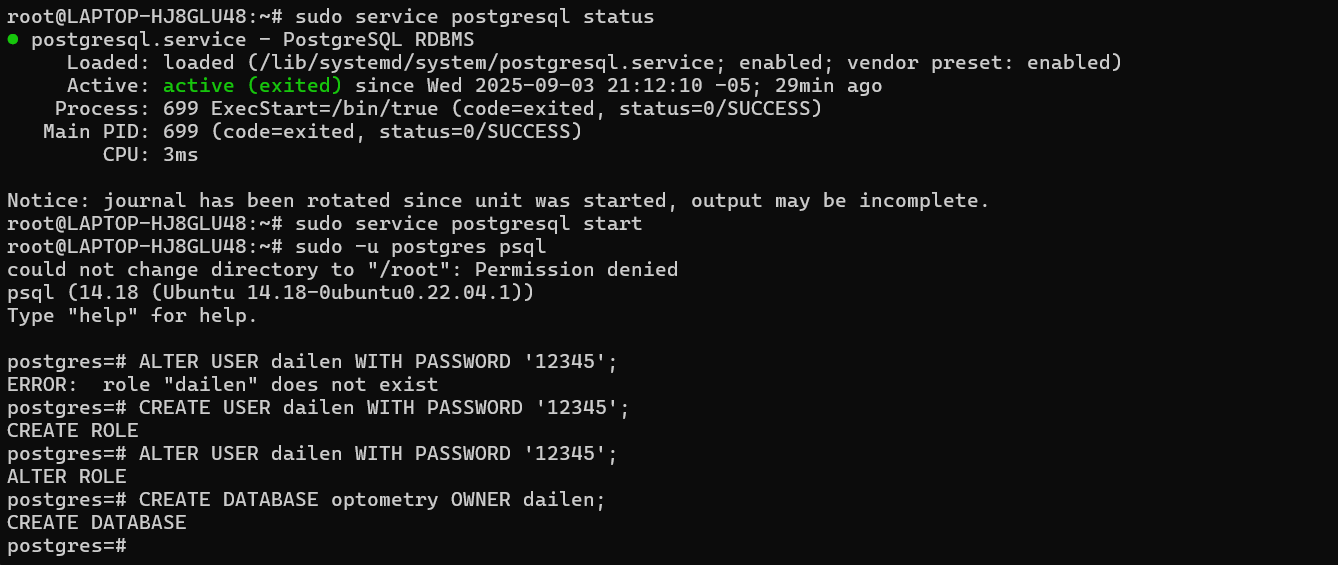


Verificamos las tablas restauradas

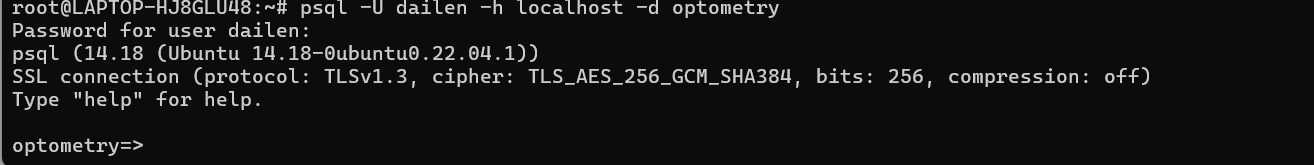


SECCIÓN 3. Postgres – Terminal y Dbeaver

Creamos el usuario dailen le asignamos contraseña y le creamos la base de datos

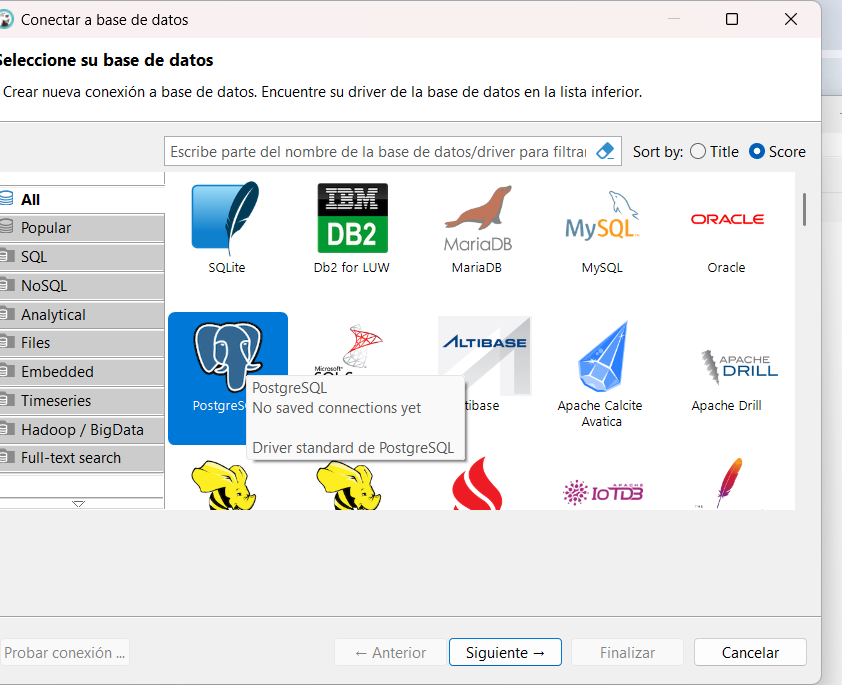


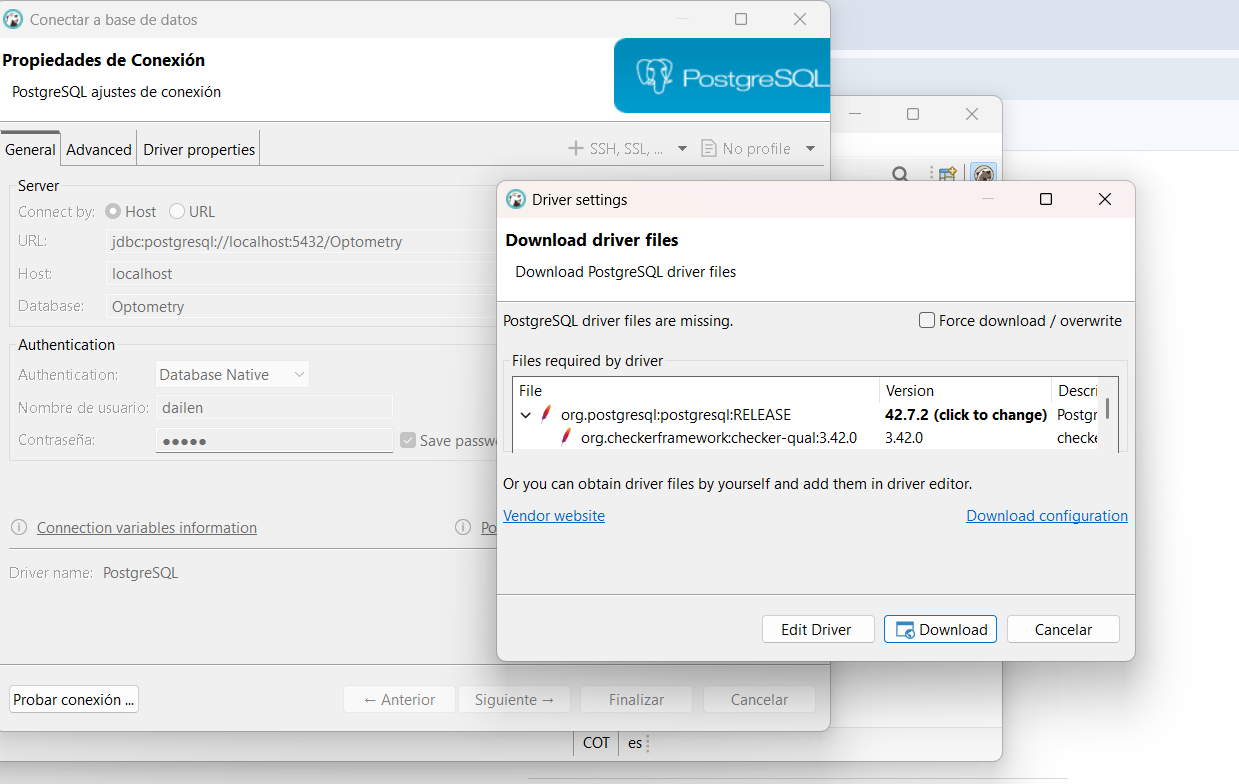
Nos conectamos con el usuario de dailen y contraseña 12345



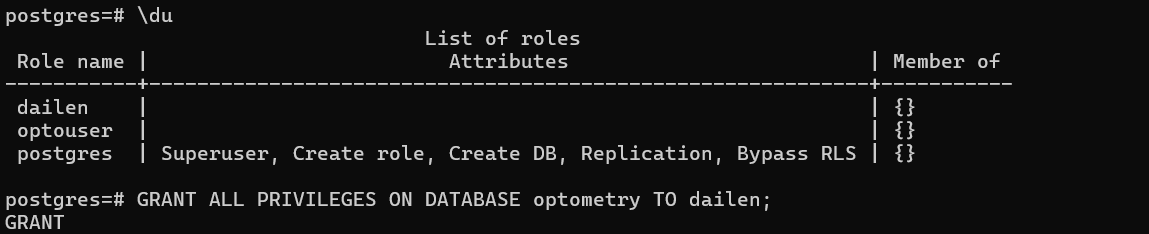
### ****DBeaver****

Hacemos click Nueva conexión PostgreSQL → Usuario: dailen → Base: optometry todo esto para conectarlo con nuestra base de datos

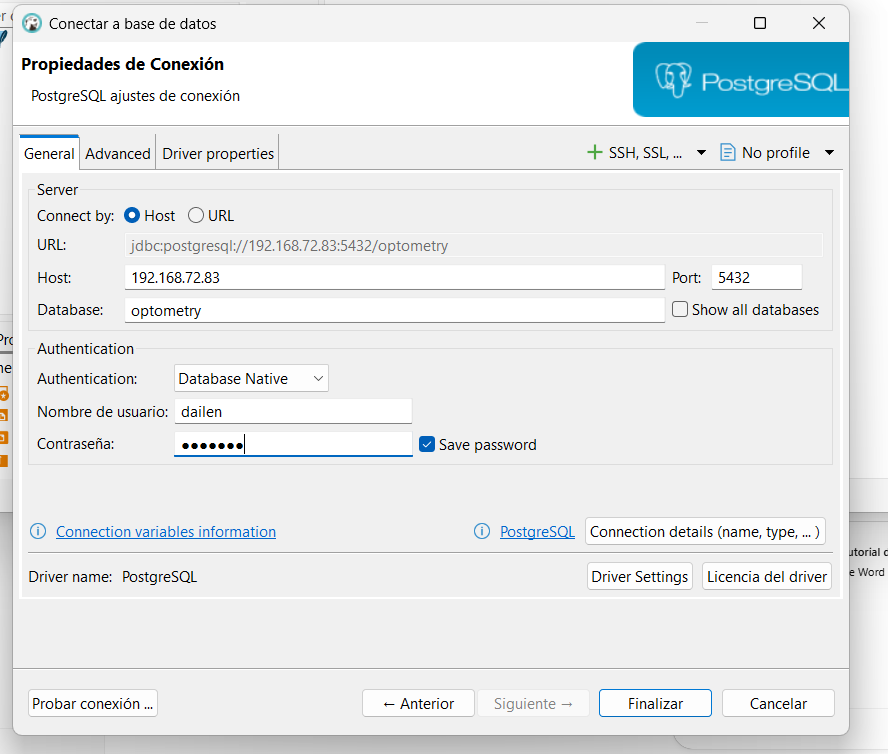


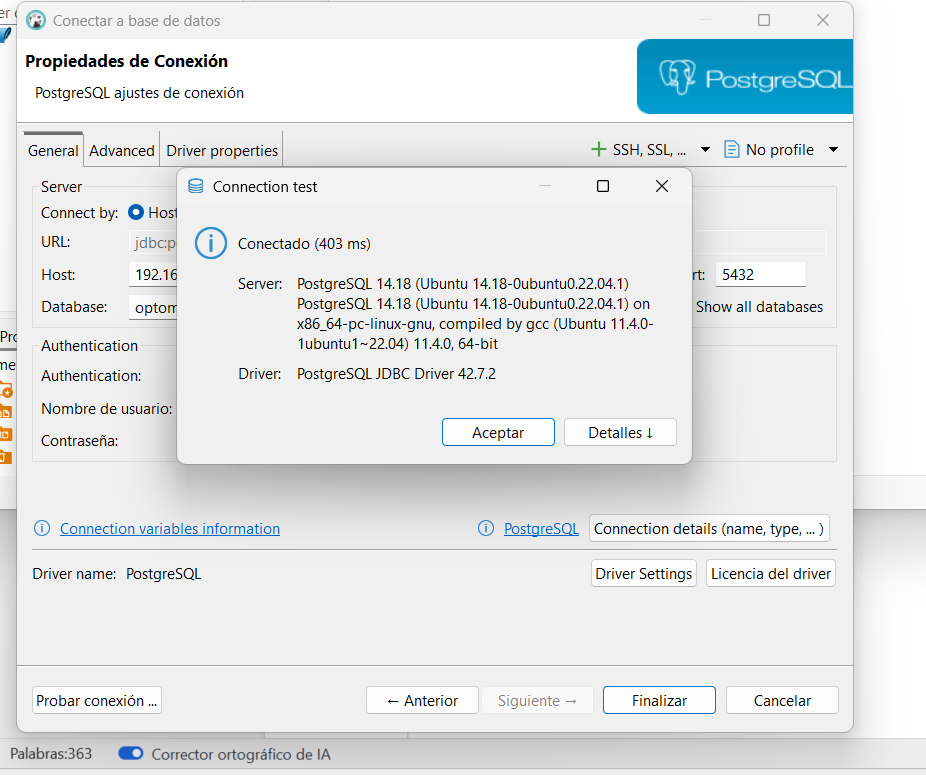


Aqui nos sucedió un error porque no tenia los permisos necesarios mi usuario y me tocó listar los usuarios, verificar y asignarlos



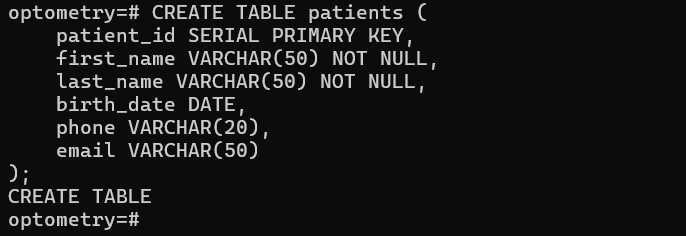
E intentamos nuevamente



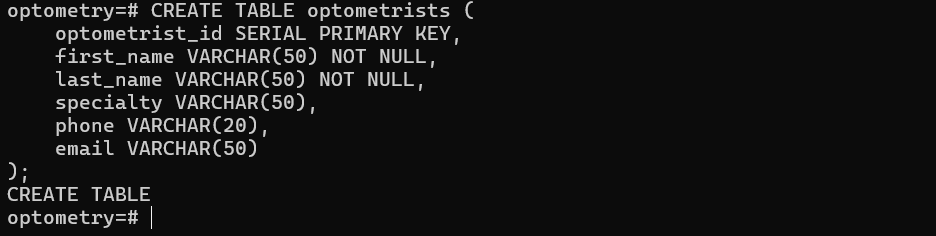


* **CREEMOS TABLAS**

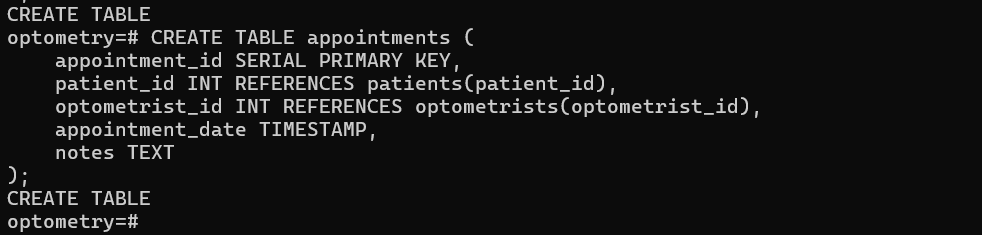
CREACION DE LA TABLA PACIENTES (PATIENTS)



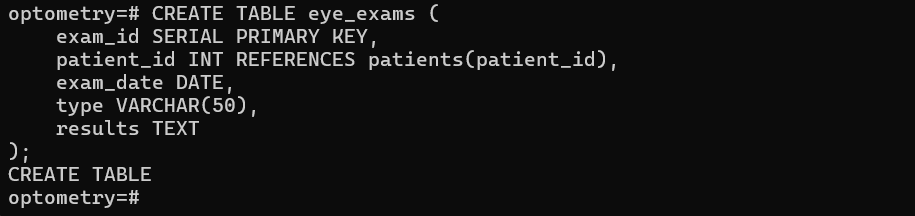
CREACION DE LA TABLA OPTOMETRISTAS (OPTOMETRISTS)



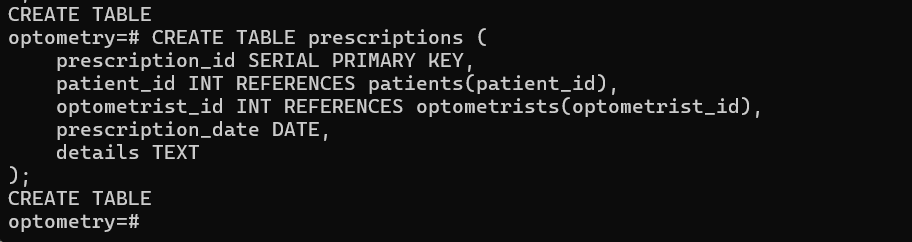
CREACION DE LA TABLA CITAS (APPOINTMENTS)



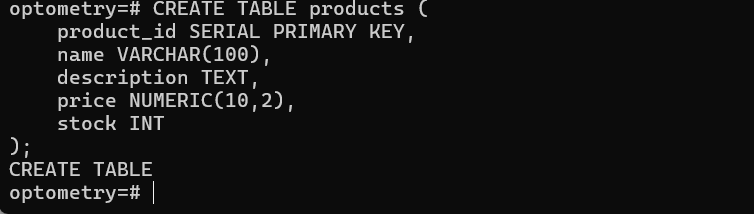
CREACION DE LA TABLA EXAMENES (EYE\_EXAMS)



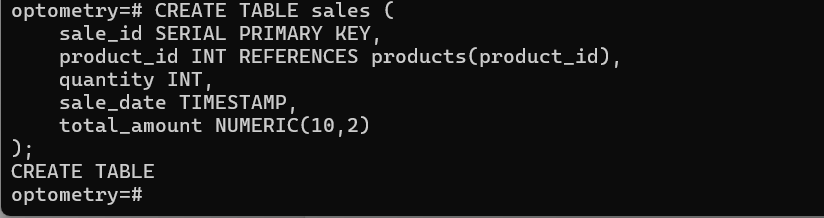
CREACION DE LA TABLA PRESCRIPCIONES (PRESCRIPTIONS)

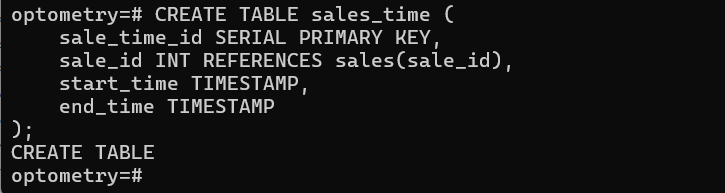


CREACION DE LA TABLA PRODUCTOS (PRODUCTS)



CREACION DE LA TABLAS DE VENTAS Y TIEMPOS DE VENTA ( SALES Y SALES TIME)

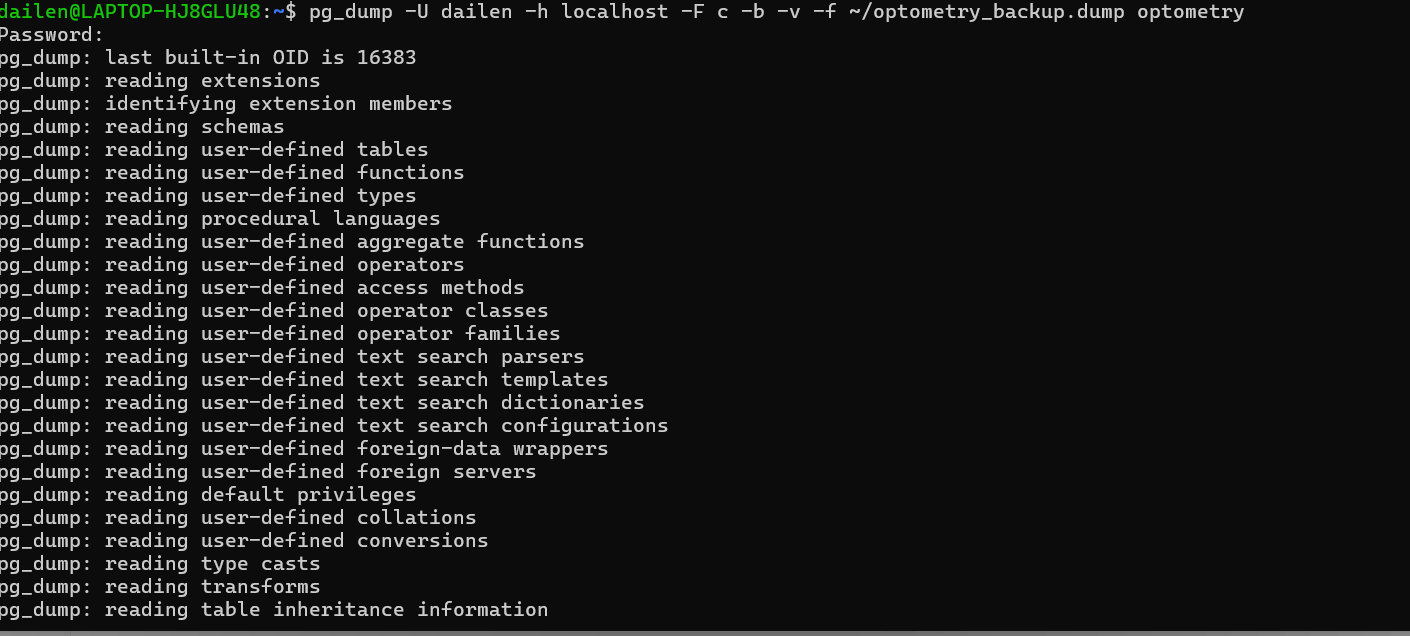




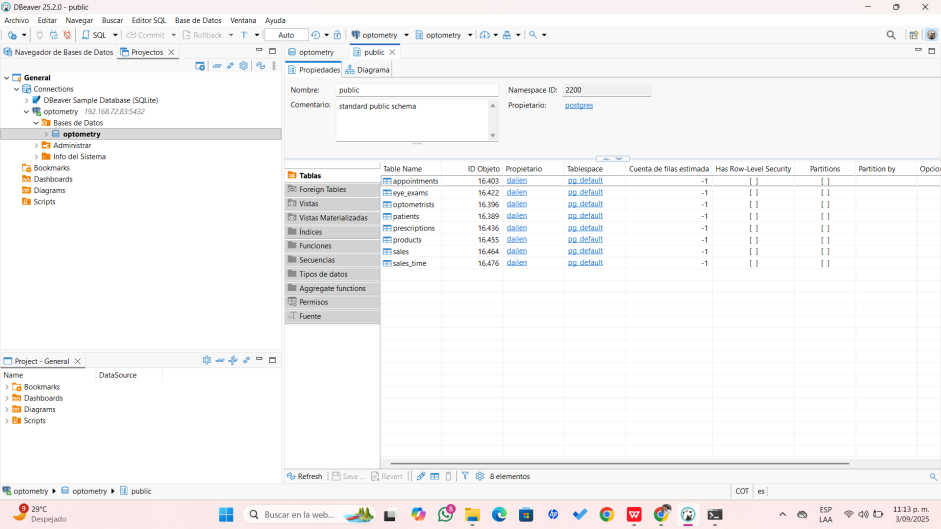
INSERTAMOS DATOS DE PRUEBA



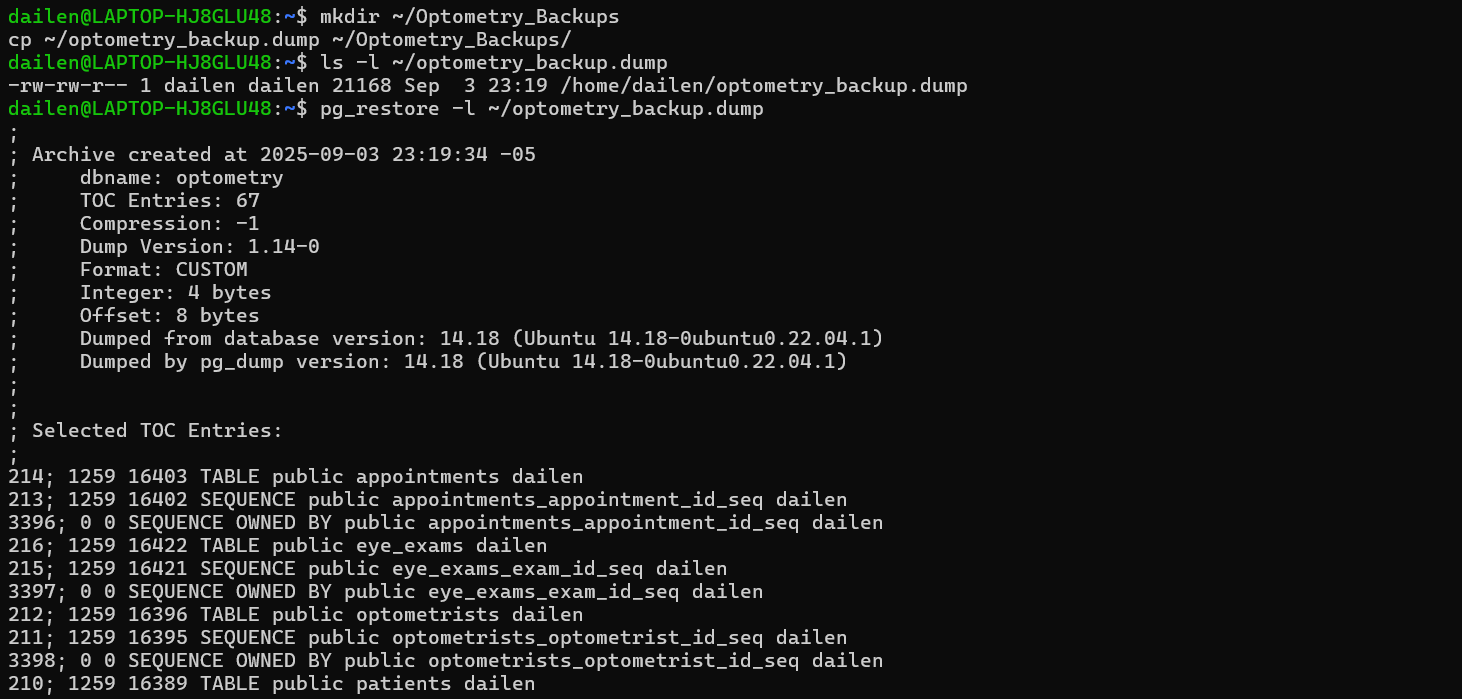
REALIZAMOS BACKUP EN TERMINAL



VERIFICAMOS QUE EN DBEAVER ESTEN CREADAS LAS TABLAS

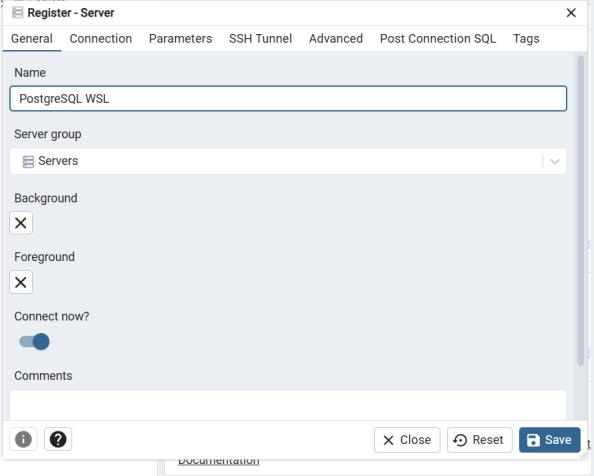
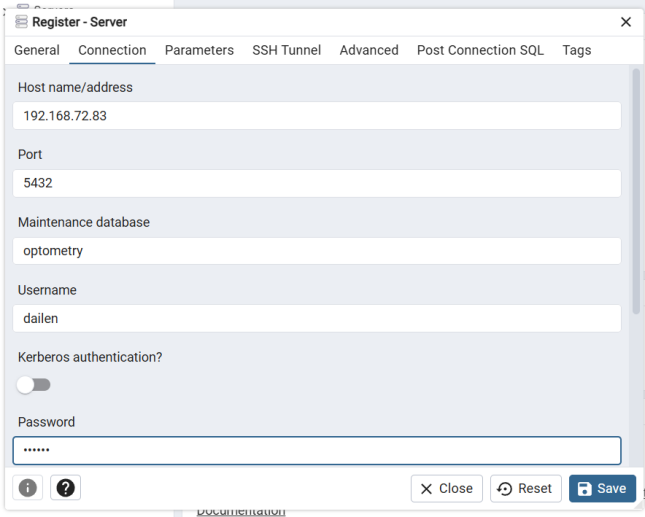


VERIFICAMOS QUE EL BACKUP SE HAYA REALIZADO CORRECTAMENTE

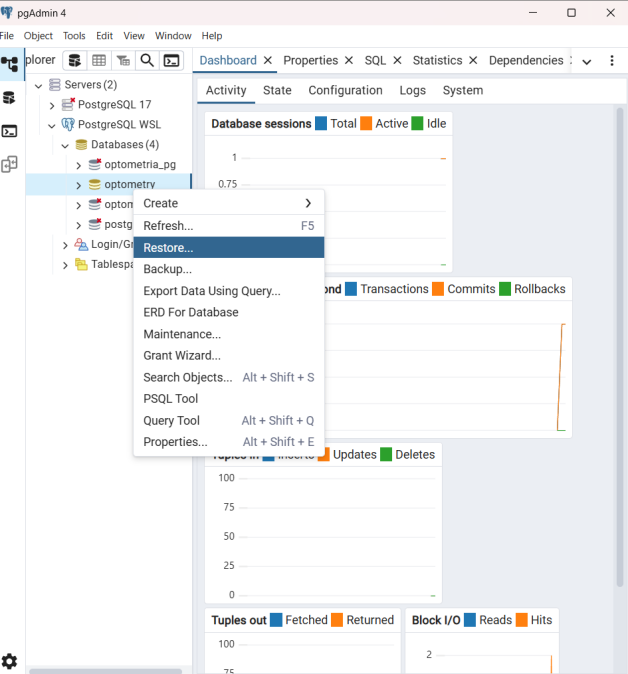


SECCIÓN 4. Postgres – pgAdmin

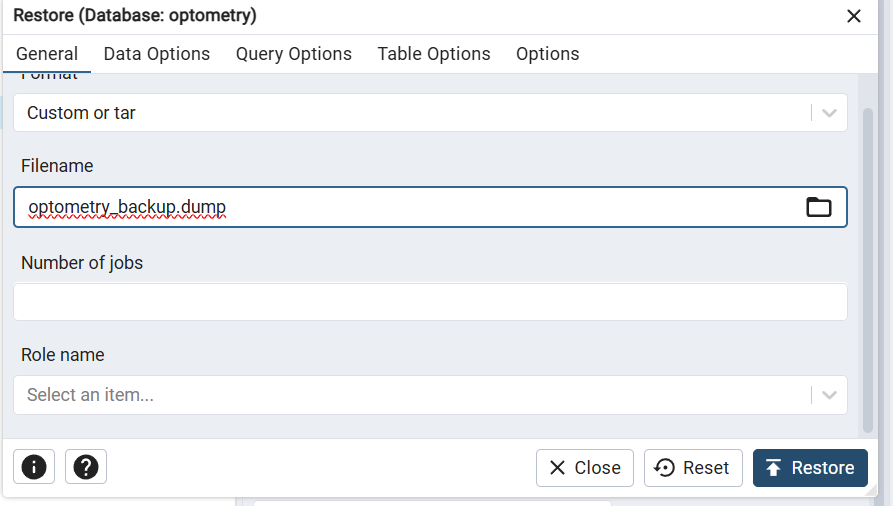
Le colocamos un nombre a nuestro servidor

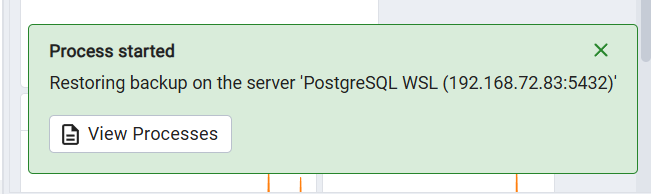
 

Entramos en **Databases → optometry** y confirmamos que está ahí.

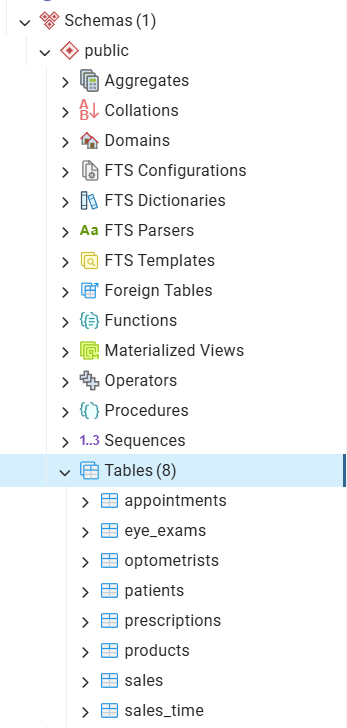


Hacemos clic derecho en optometry, Vamos a Restore, En “Filename” seleccionamos optometry\_backup.dump (el que guardamos en la carpeta backups).

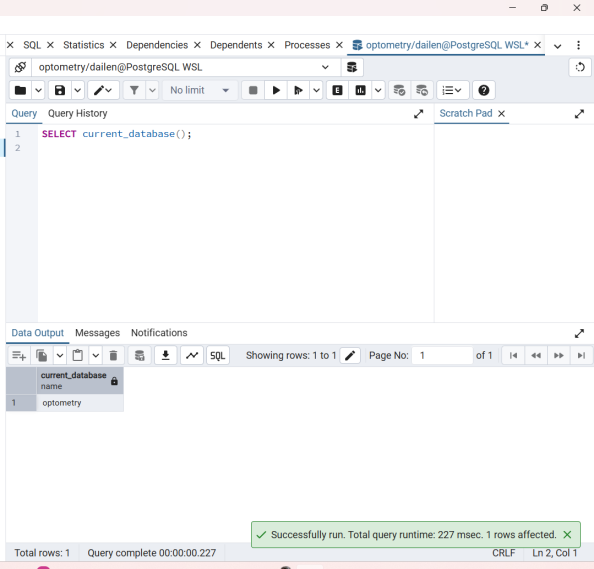
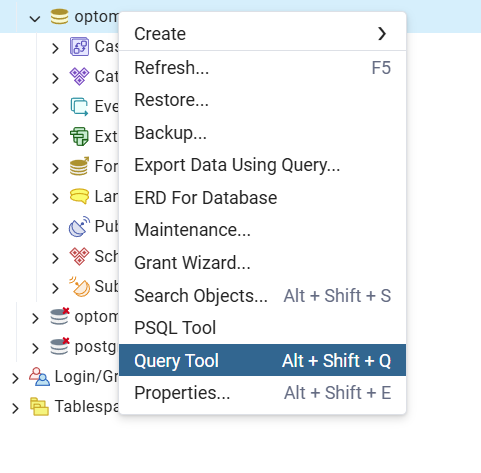


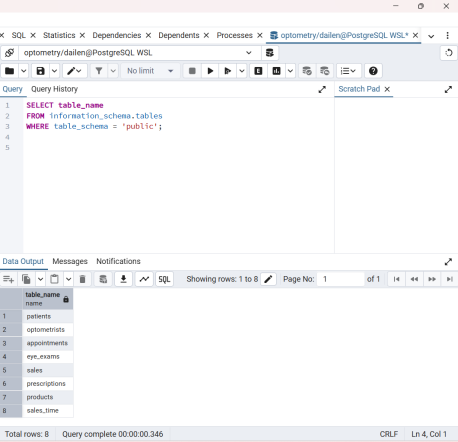
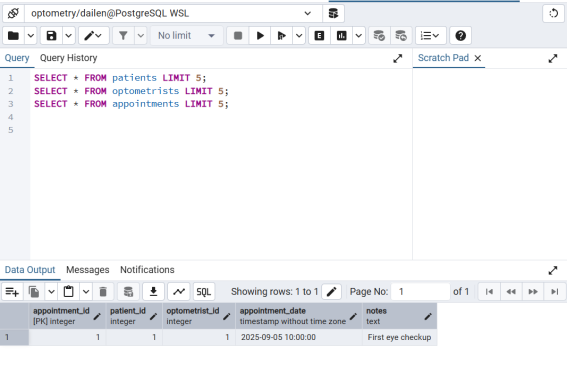


Dentro de optometry, abrimos **Schemas → public → Tables**. Ahí deben aparecer todas las tablas que habiamos definido.

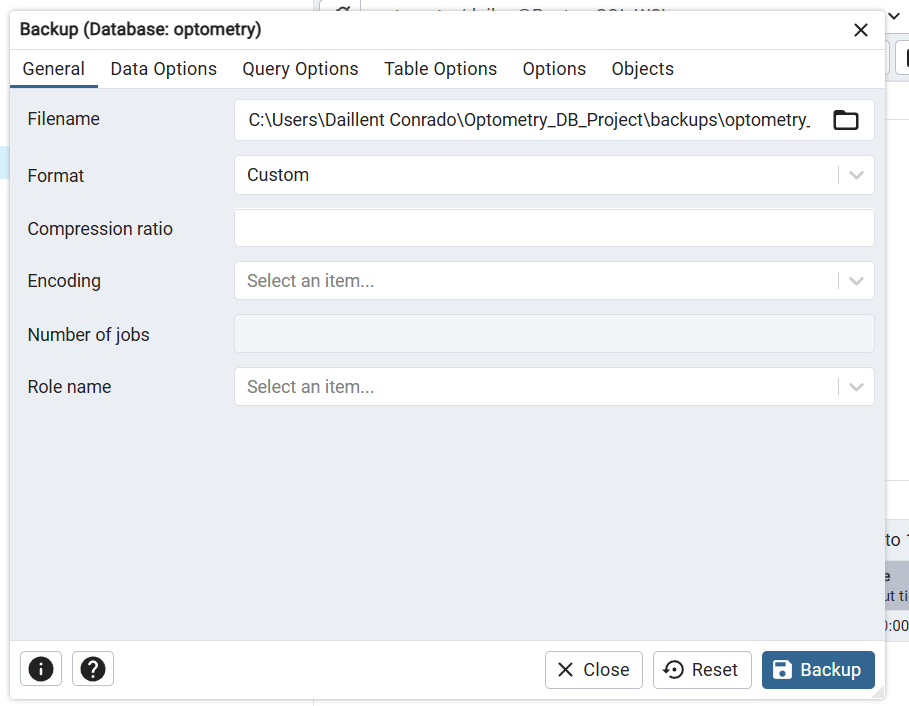
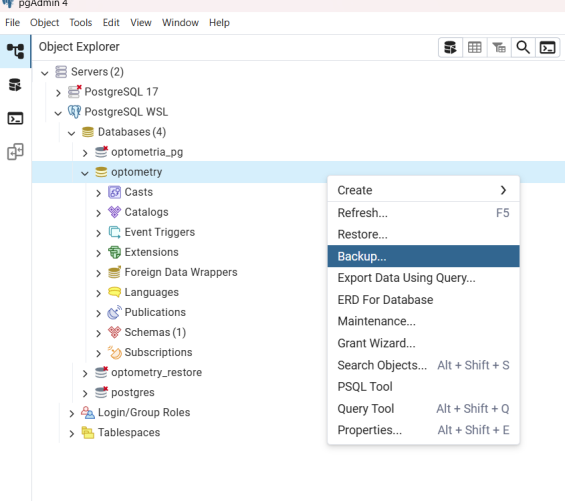
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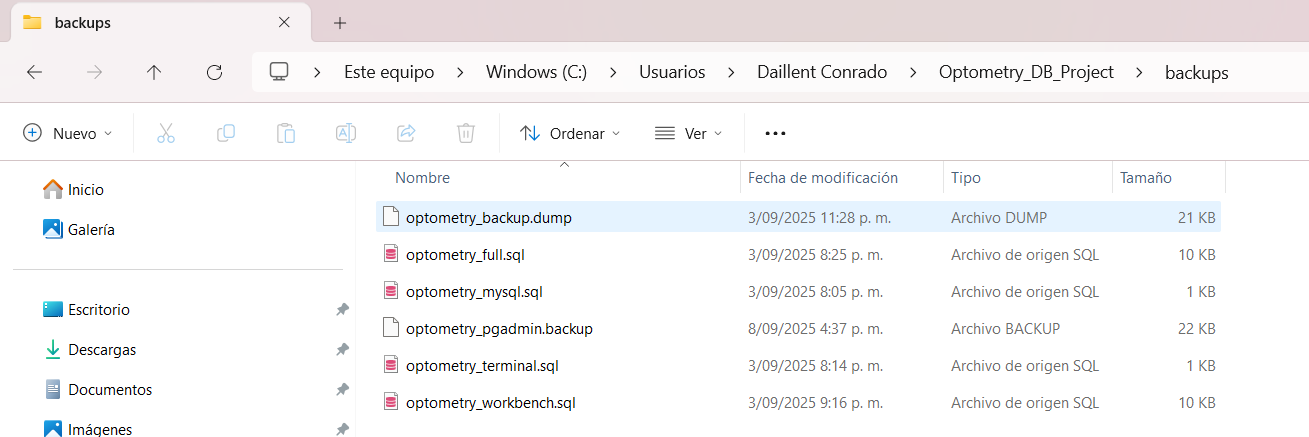
Probamos consulta a ver si nos devuelve el backup.



Hacemos un backup adicional ya no por terminal sino por pgadmin. Y realizamos pruebas.





Ya lo podemos encontrar guardado dentro de nuestra carpeta de backups.

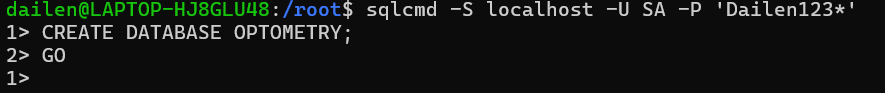
SECCIÓN 5. SQL SERVER - Terminal

Instalamos SQL Server en Docker ✅

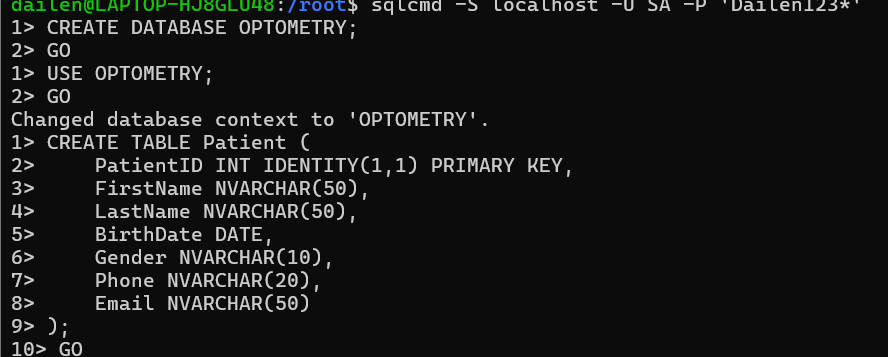
Probamos conexión con mssql-tools (sqlcmd) ✅

Entramos y creamos la base optometry ✅

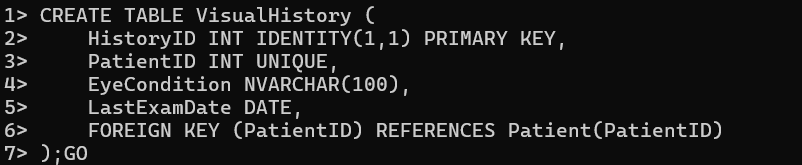




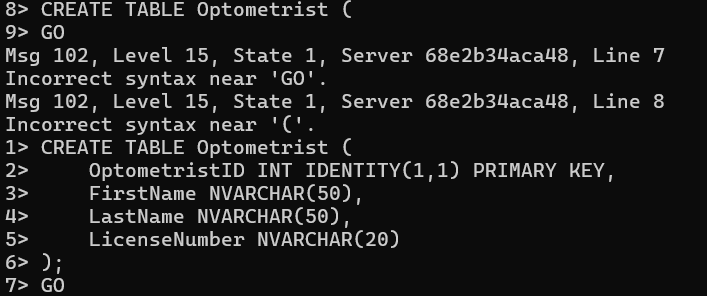
Creamos la tabla patients



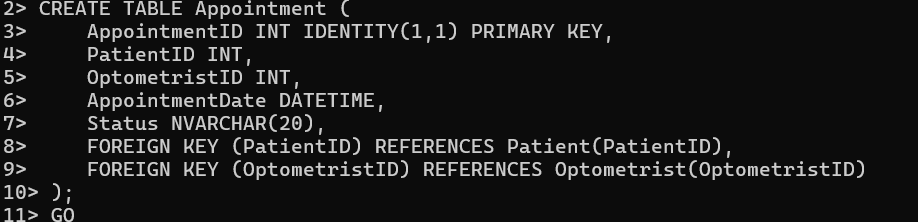
Creamos la tabla visual histories



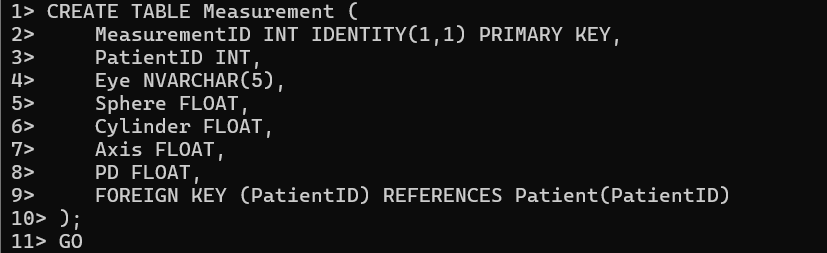
Creamos la tabla optometrists



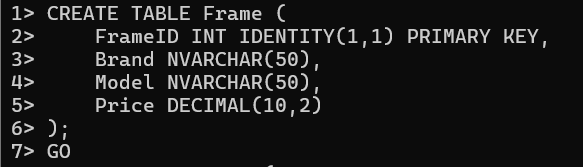
Creamos tabla Appointments



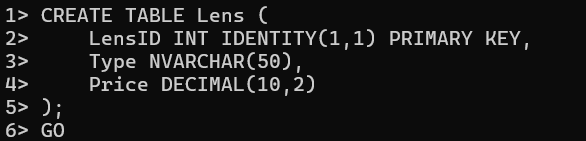
Creamos tabla Measurements



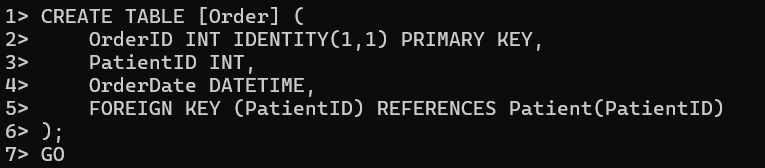
Creamos la tabla Frames



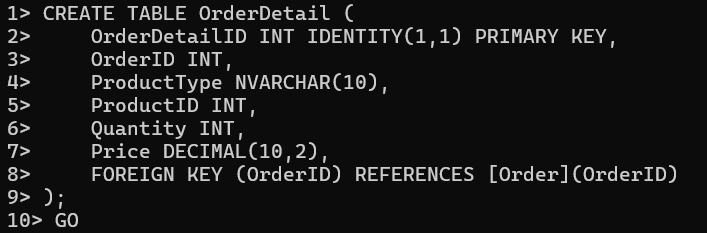
Creamos la tabla lenses



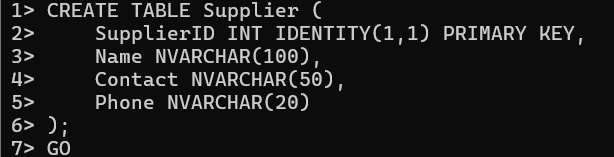
Creamos la tabla orders (ordenes)



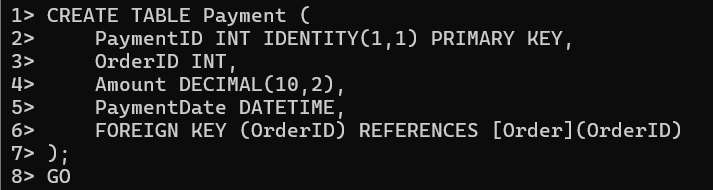
Creamos la tabla OrderDetails



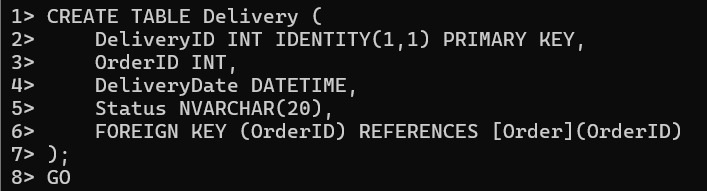
Creamos la tabla Suppliers (proveedores)



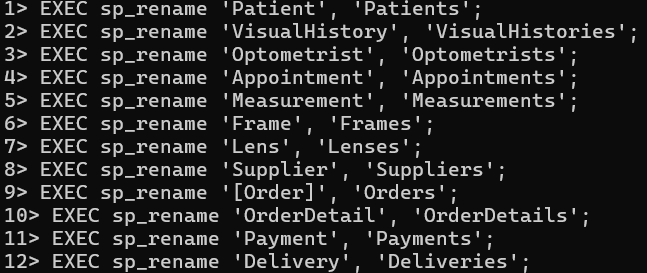
Creamos la tabla Payments (pagos)

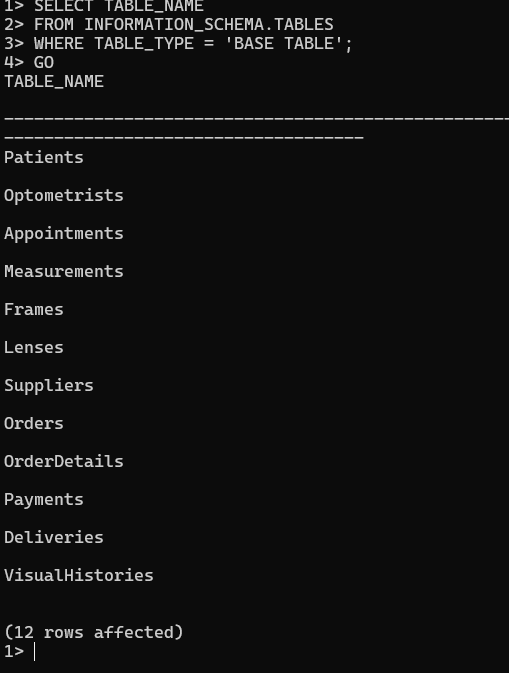


Creamos la tabla Deliveries(Entregas)

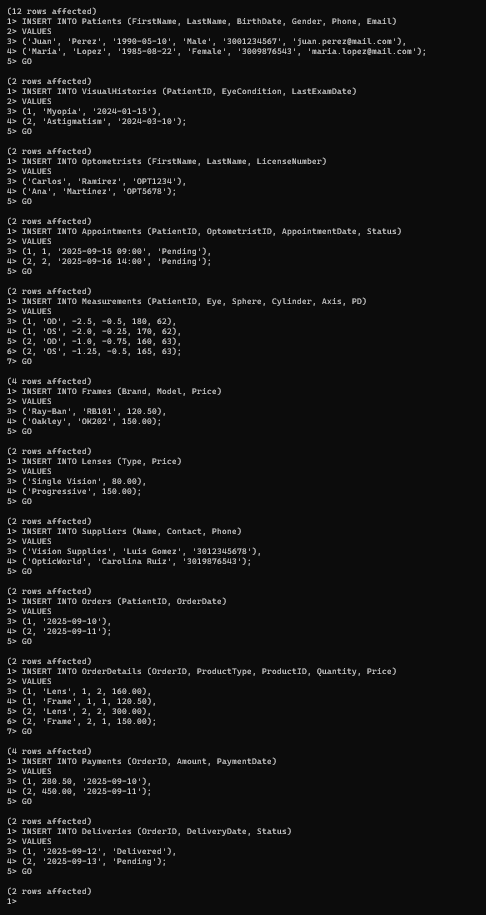


Les hice un cambio a los nombres de las tablas porque olvide colocarlas en plural . Y de una vez verificamos la existencia de las tablas.

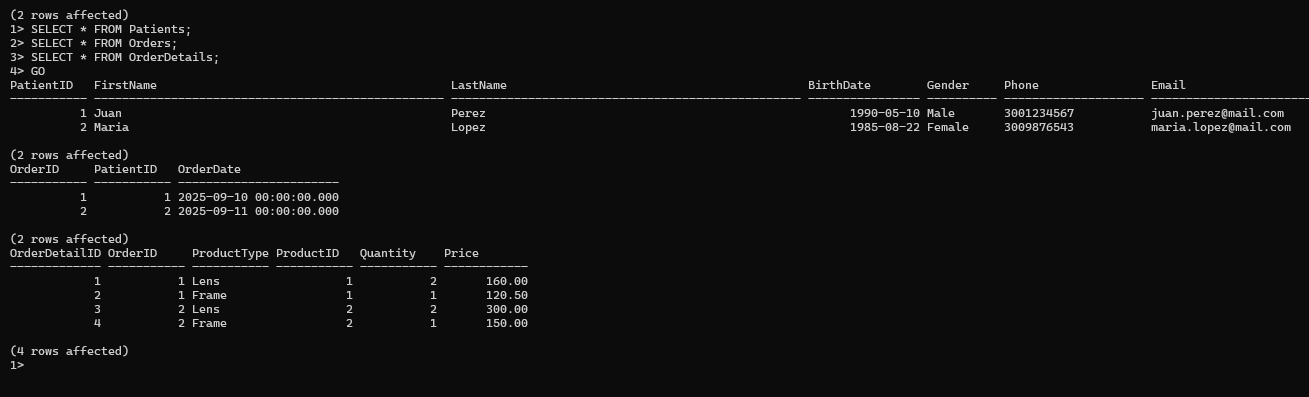




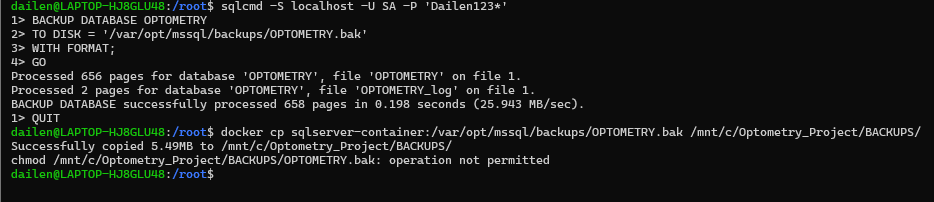
Insertamos datos de prueba en cada tabla



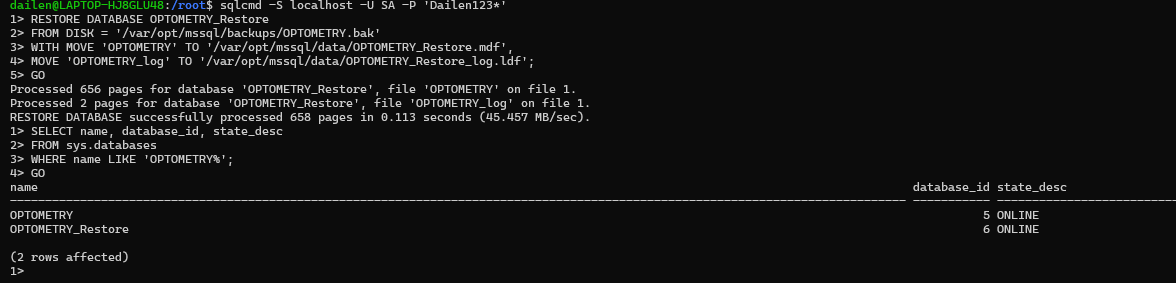
Y verificamos algunas tablas



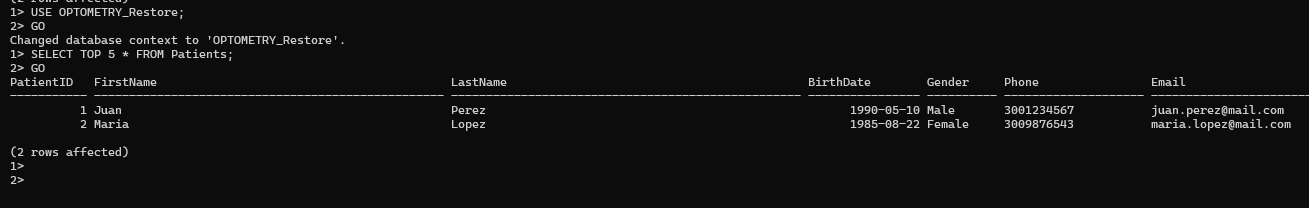
Creamos el backup y copiamos en nuestra carpeta creada



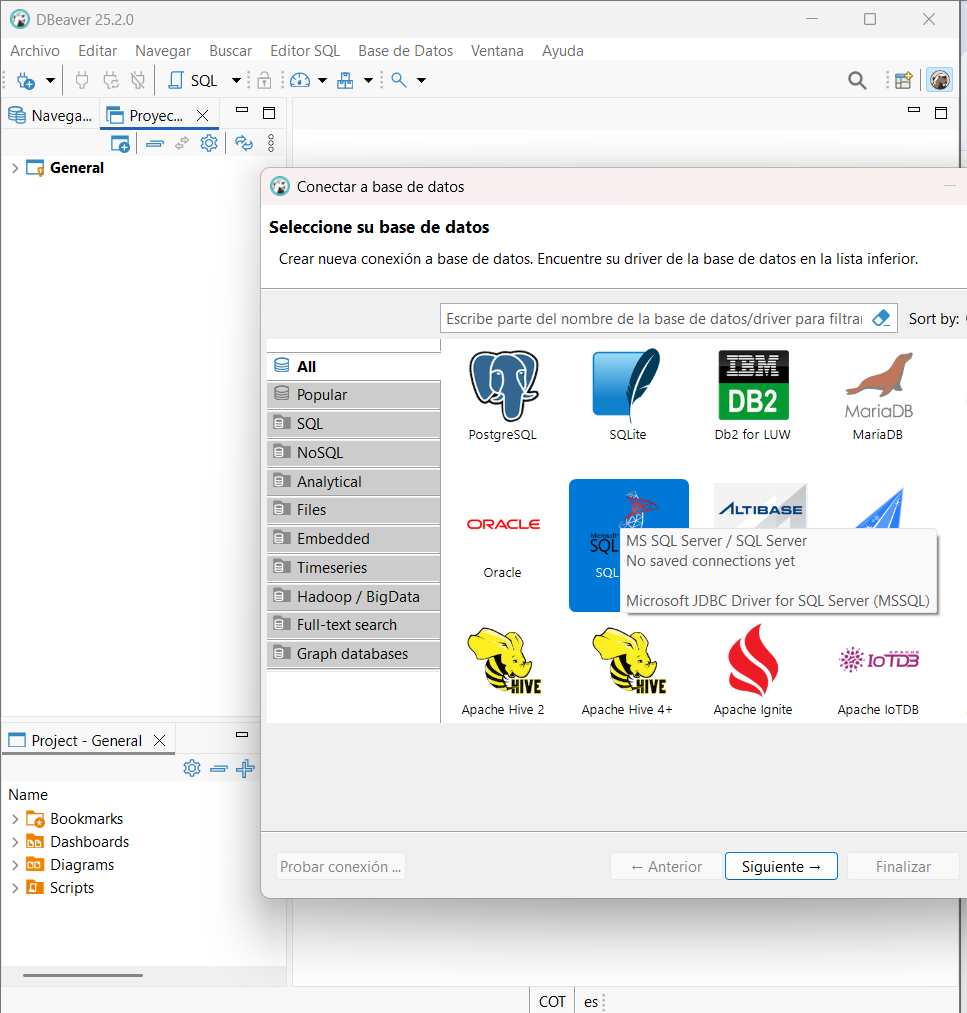
Ahora hacemos restauracion para saber si funciona realmente

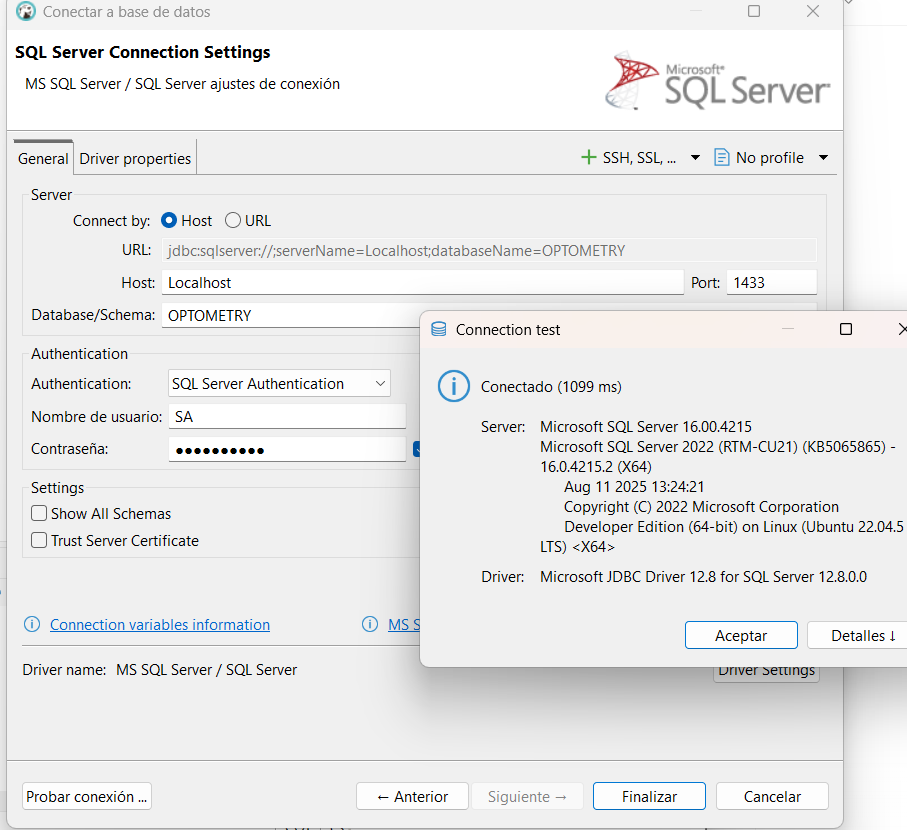


Hacemos consulta en la base de datos restaurada

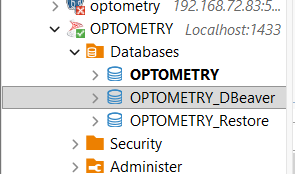


SECCIÓN 5. SQL SERVER - DBeaver

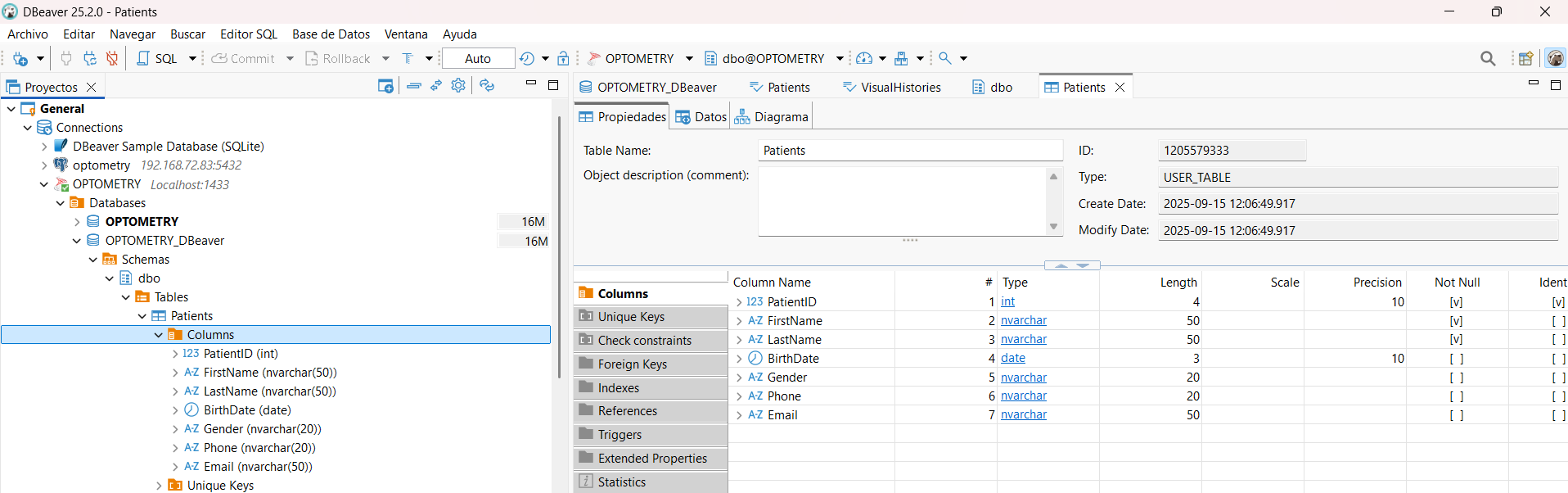




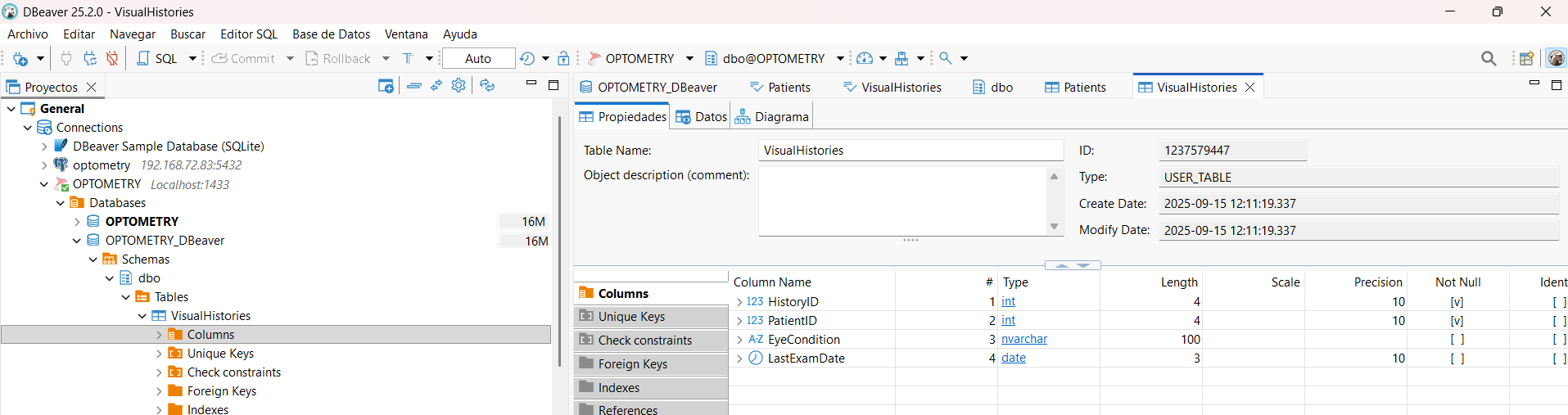
Creamos la base de datos en dbeaver con el nombre OPTOMERTRY\_DBeaver

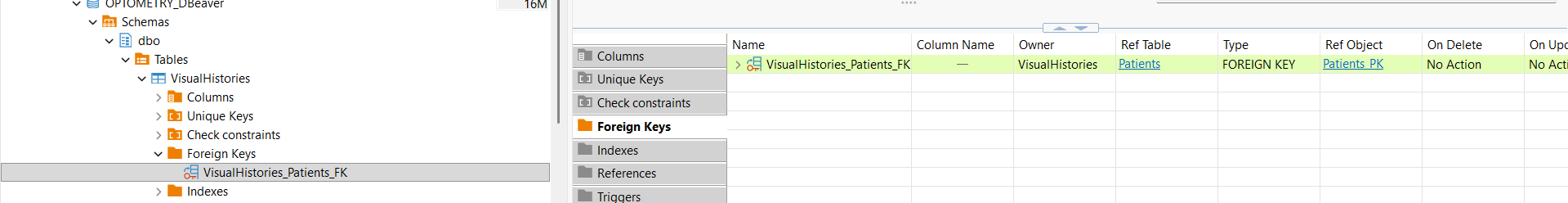


Creamos la tabla pacientes y agregamos columnas

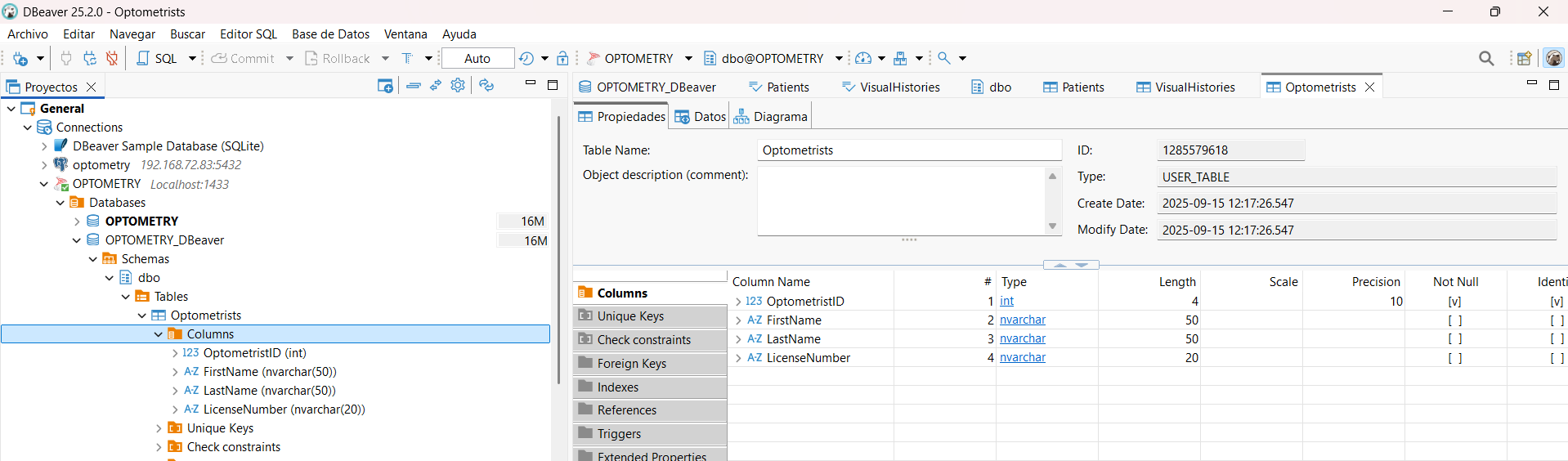


Creamos la tabla visualHistories y agregamos columnas

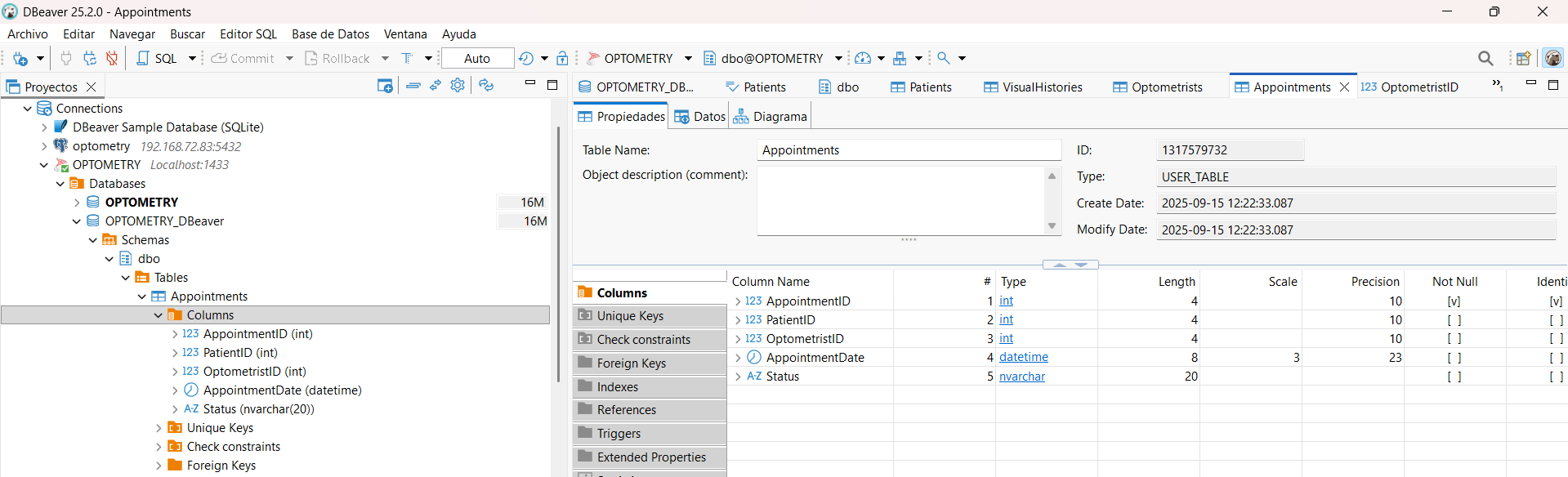


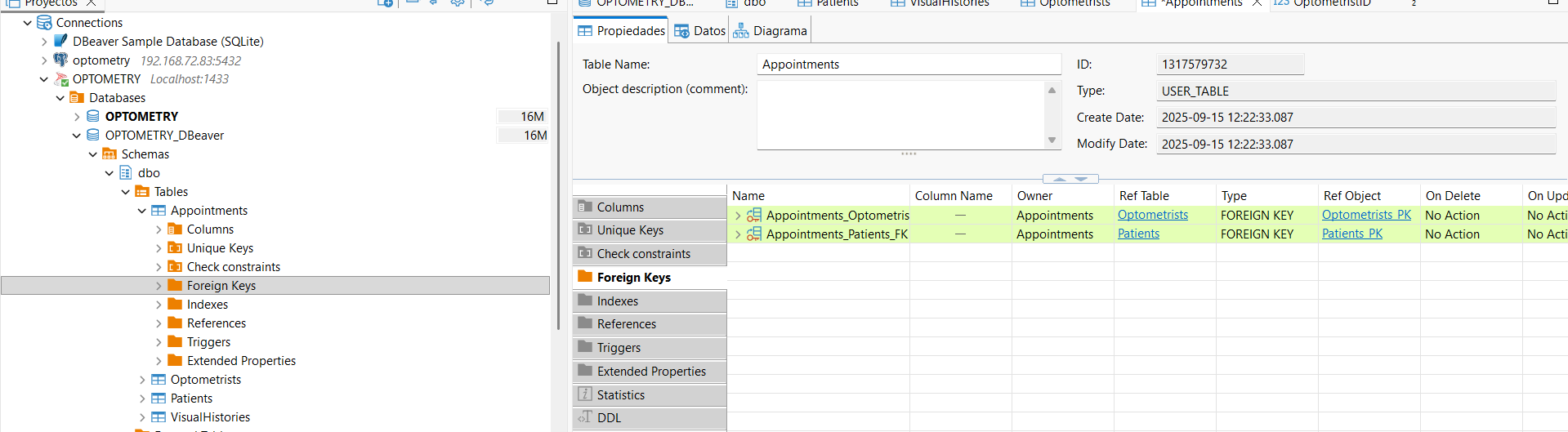


Creamos la tabla optometrists

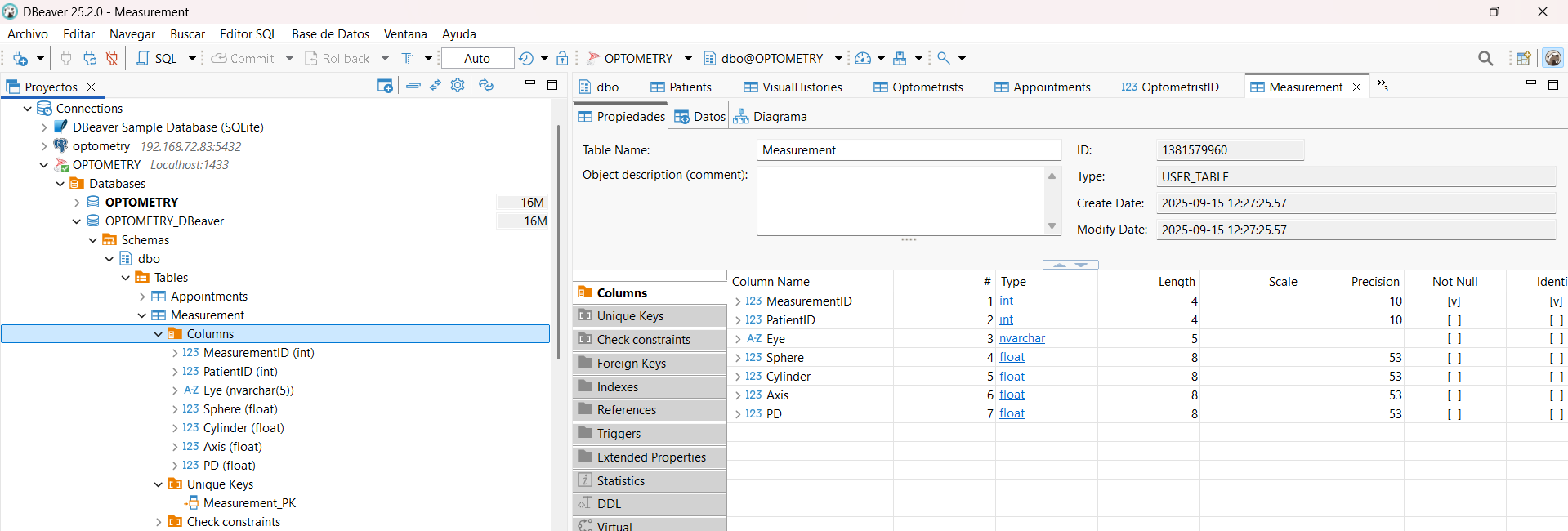


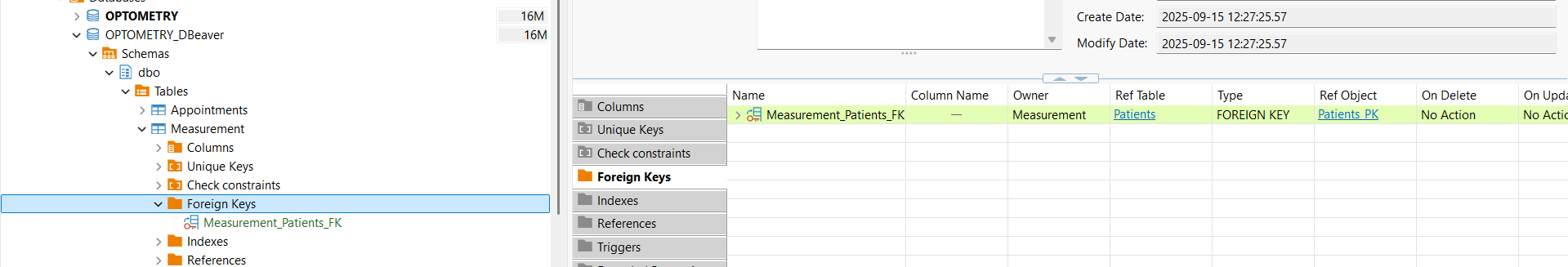
Creamos la tabla appointements



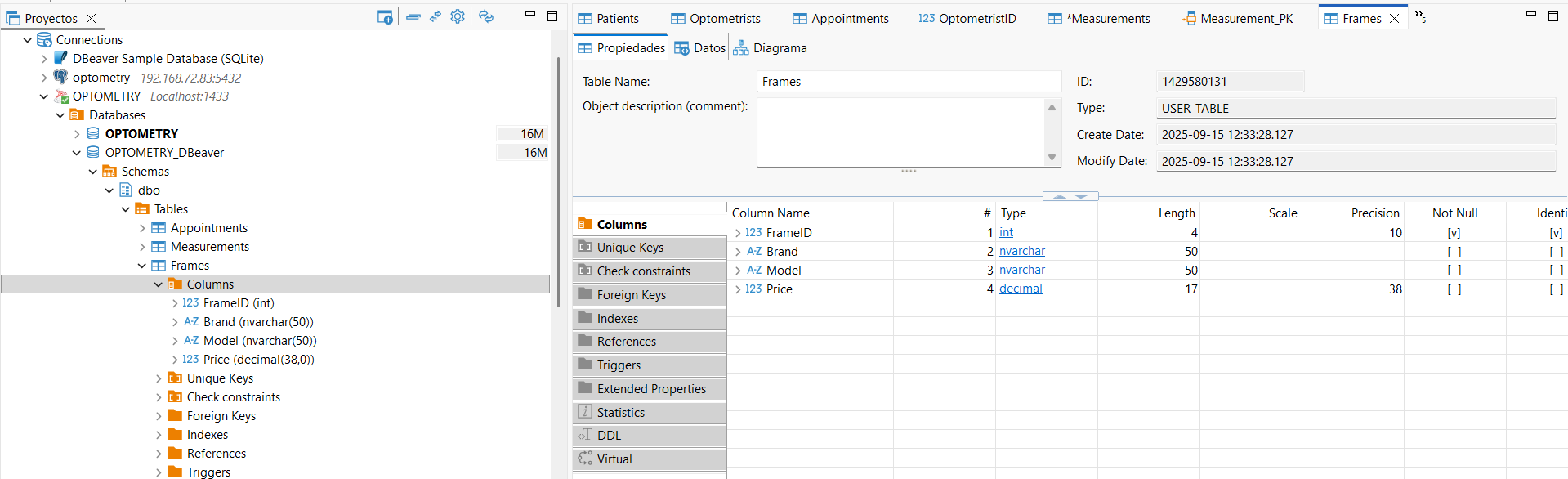


Creamos la tabla measurements

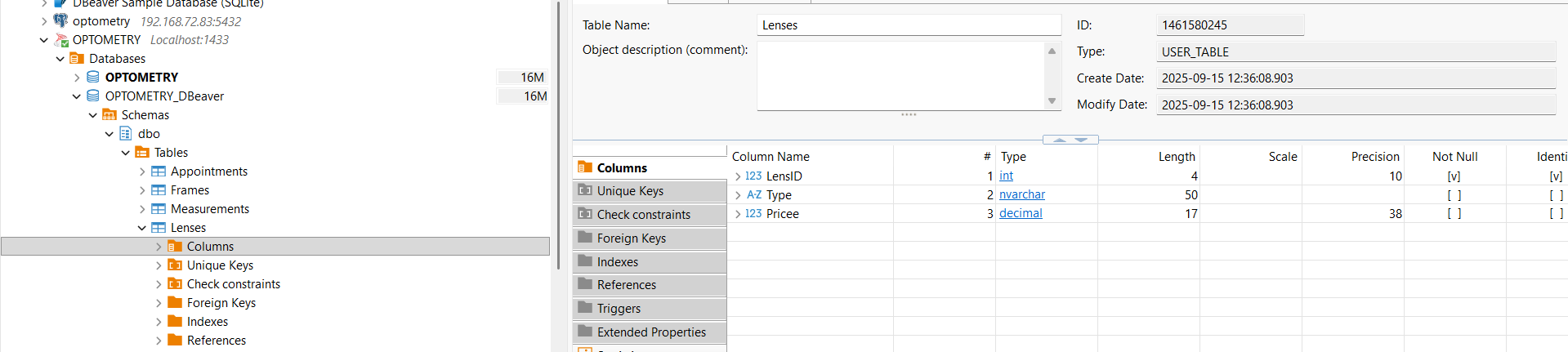




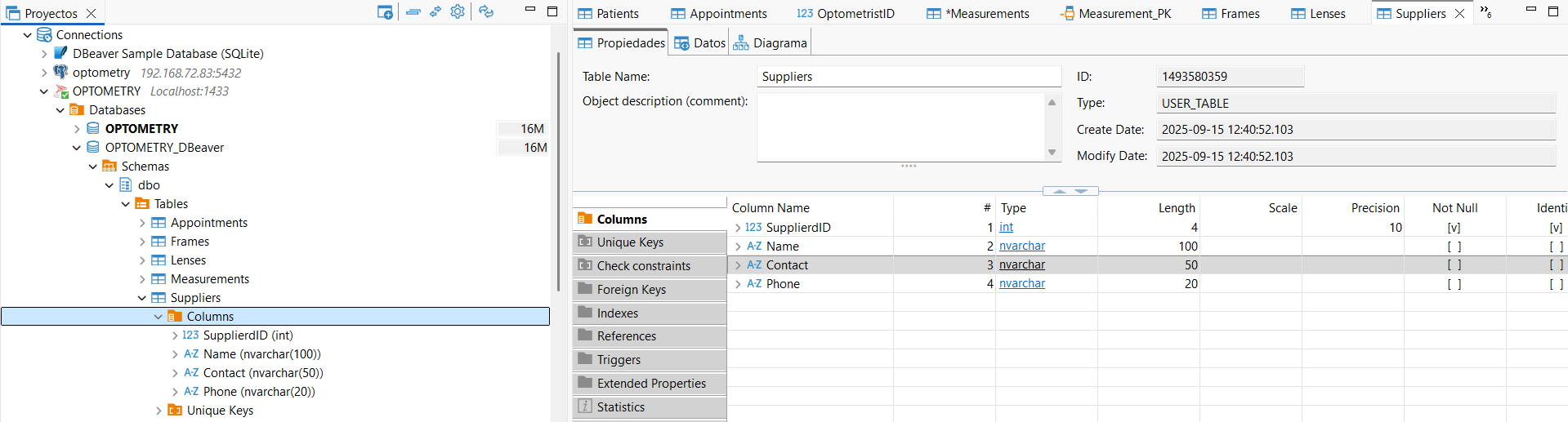
Creamos la tabla frames



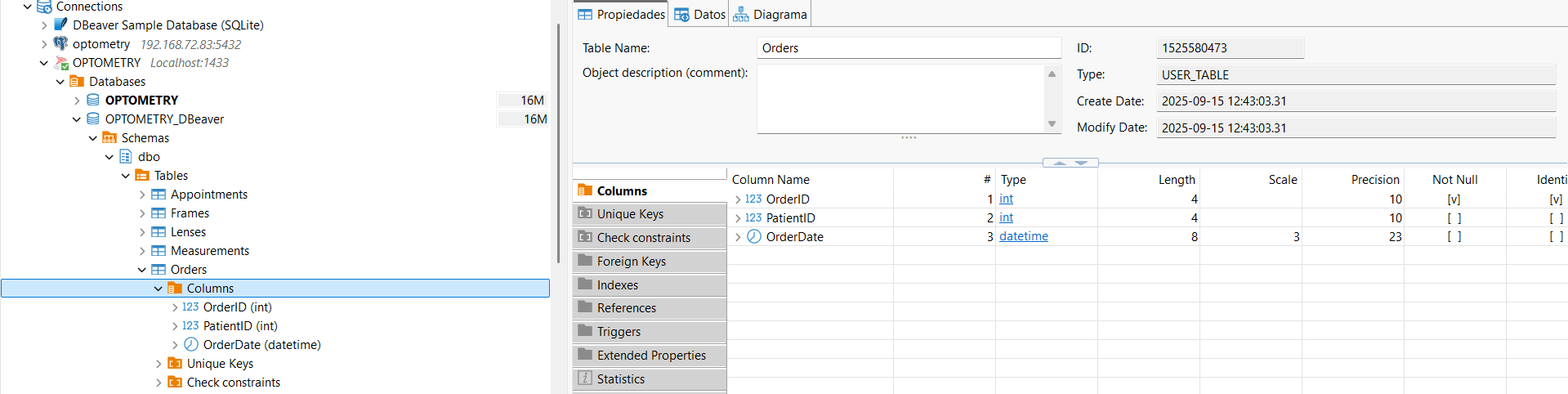
Creamos la tabla lenses

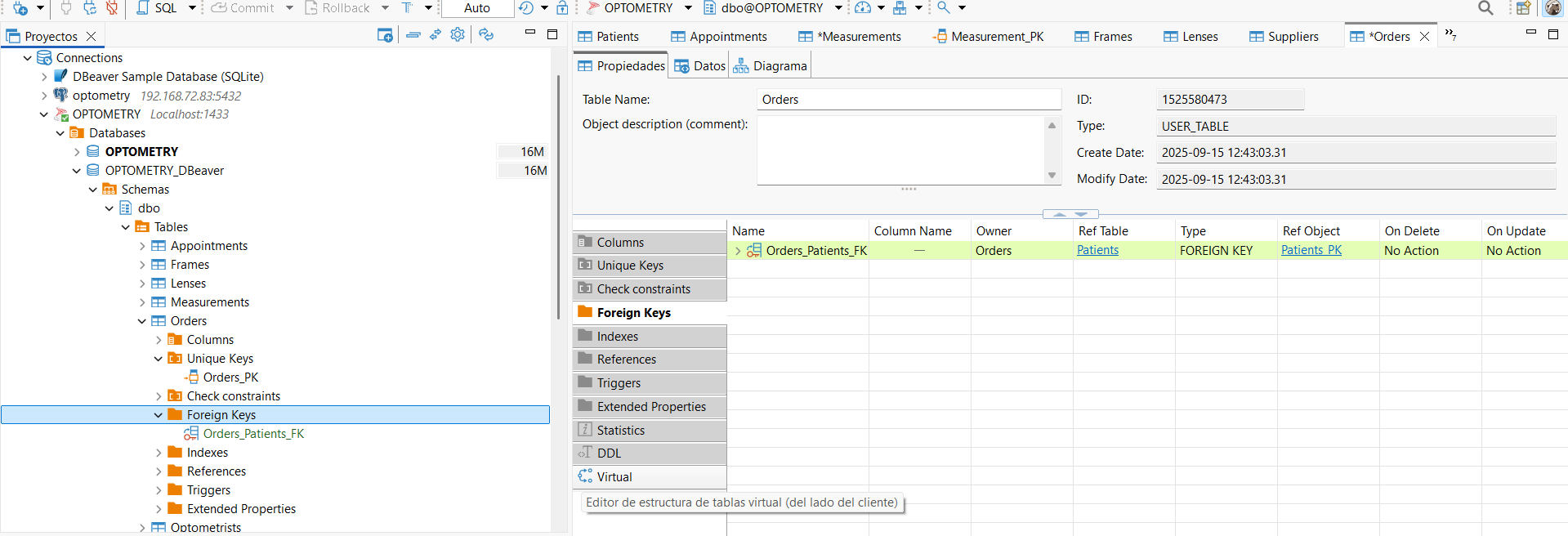


Creamos la tabla Suppliers

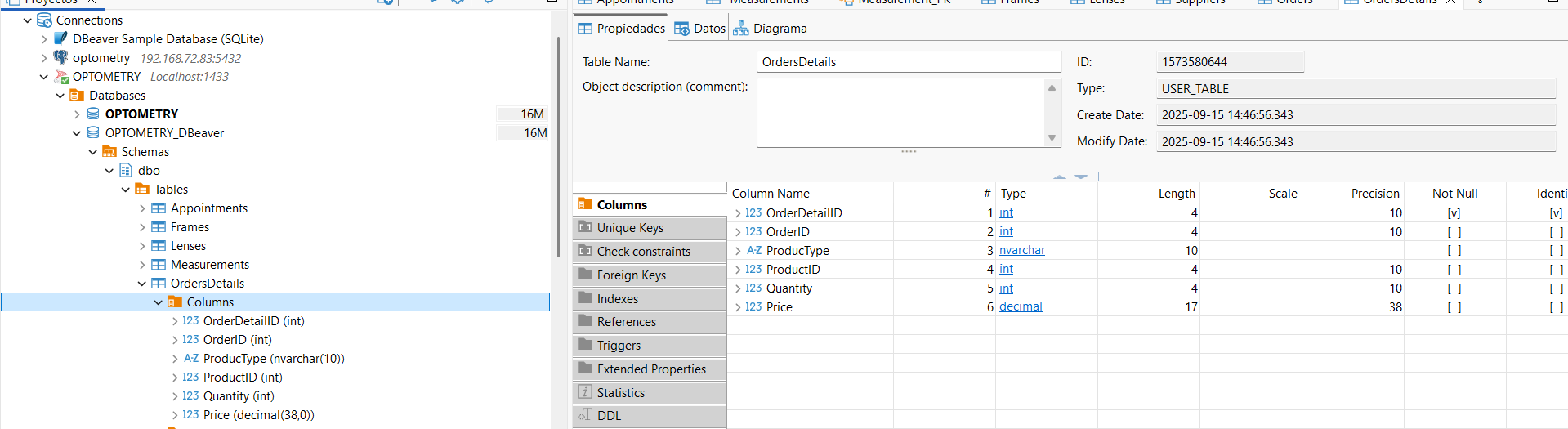


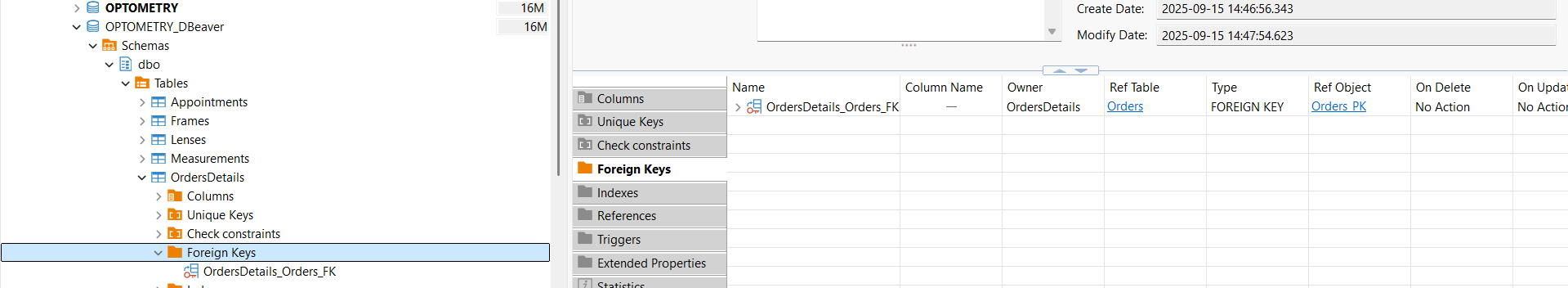
Creamos la tabla orders





Creamos la tabla OrdersDetails



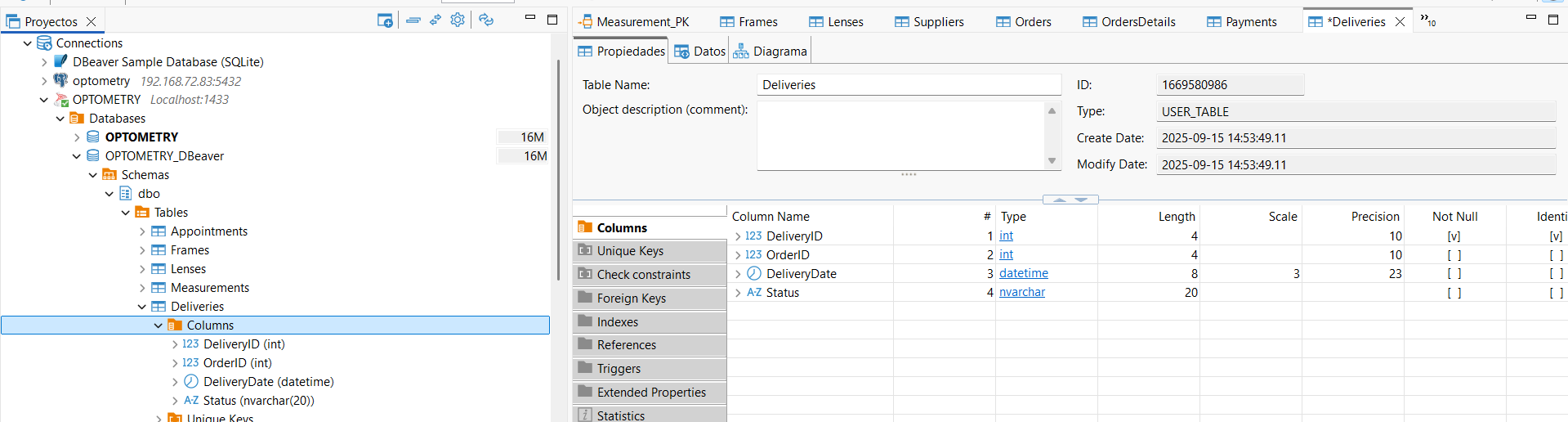


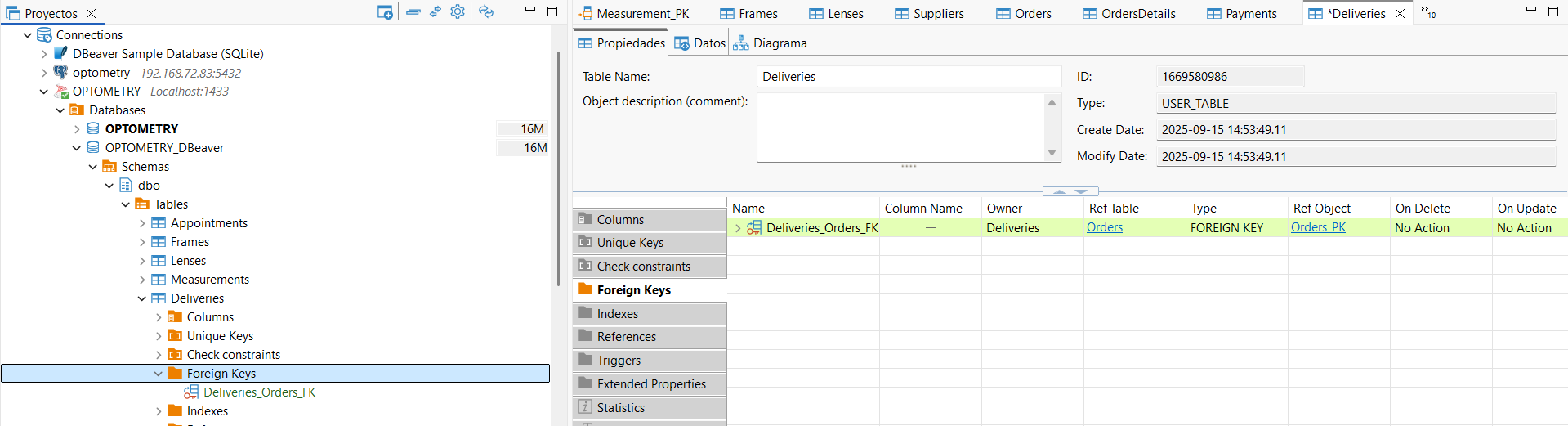
Creamos la tabla Payments

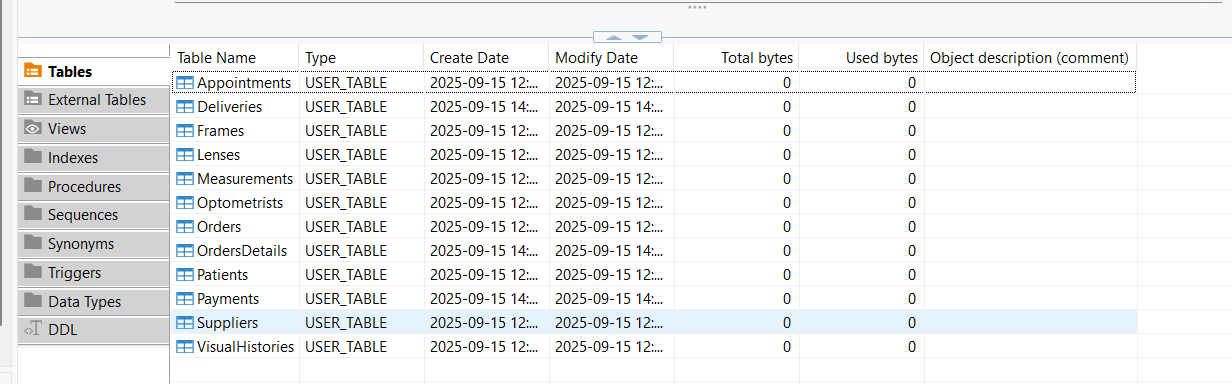


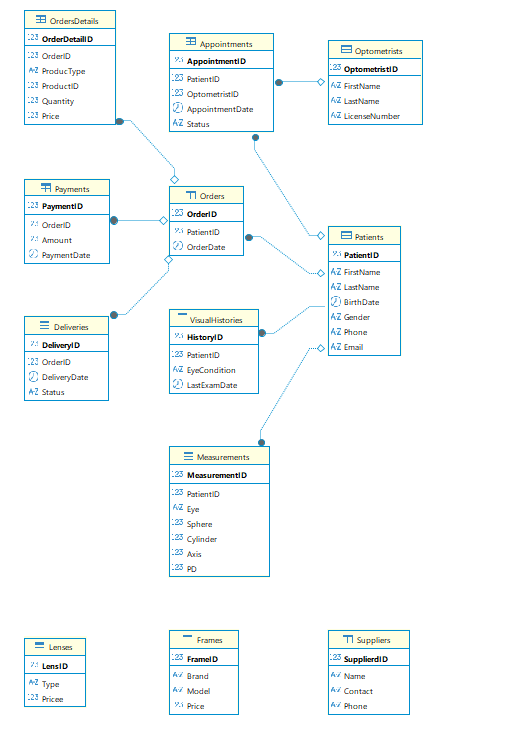


Creamos la tabla de deliveries



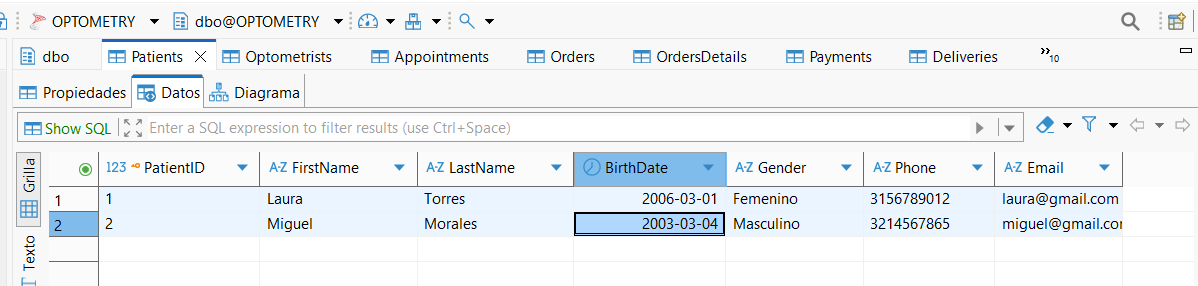




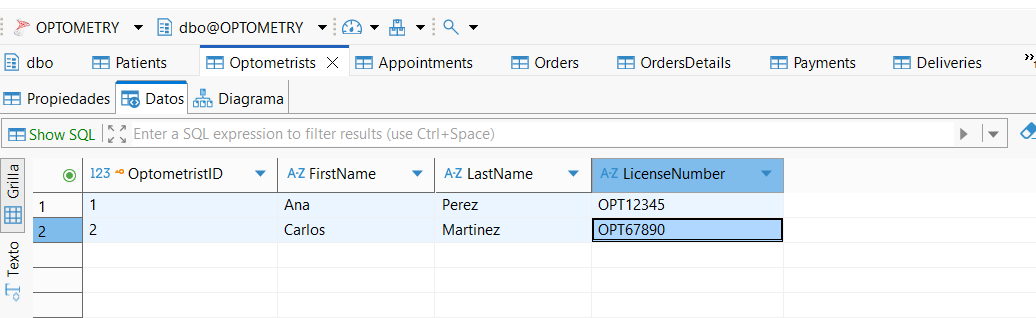


Insertamos datos en algunas tablas

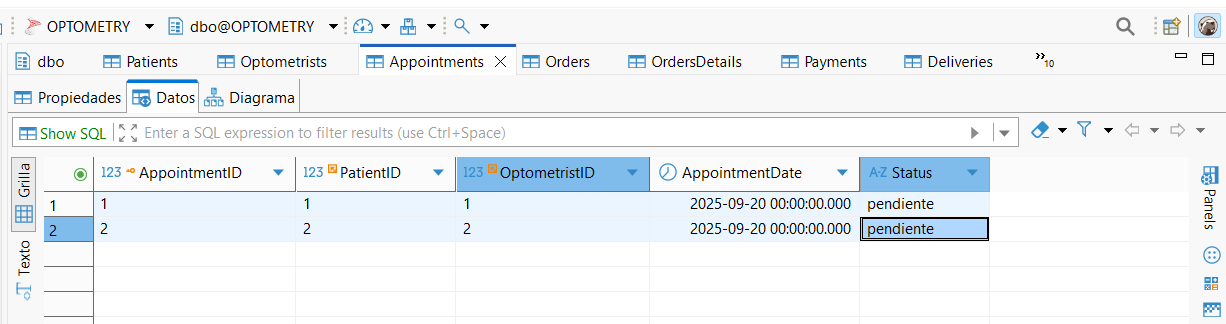
En la tabla pacients



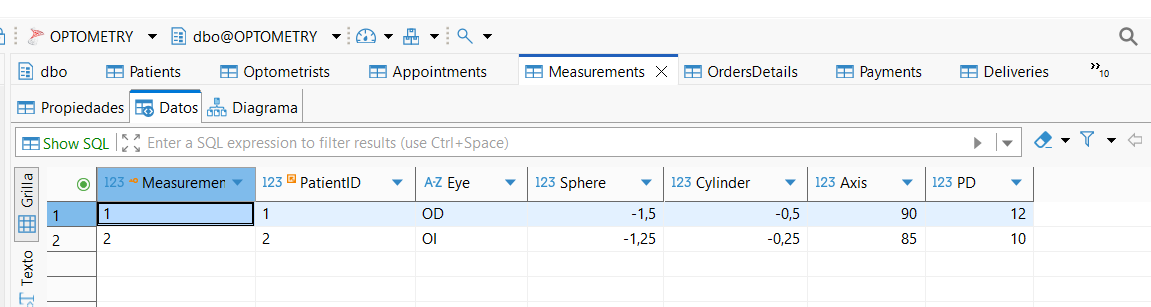
En la tabla optomestrist



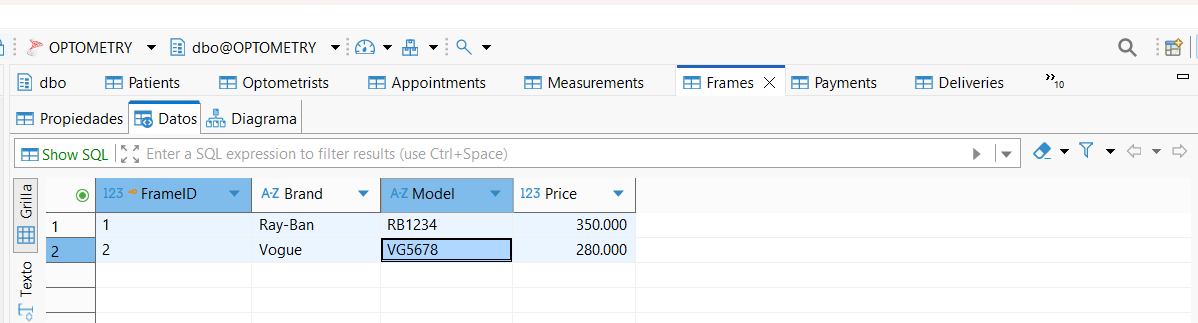
En la tabla appointments



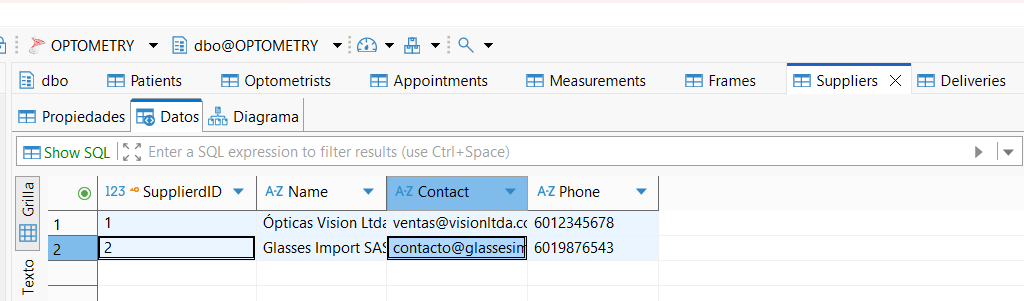
En la tabla measurements



En la tabla frames



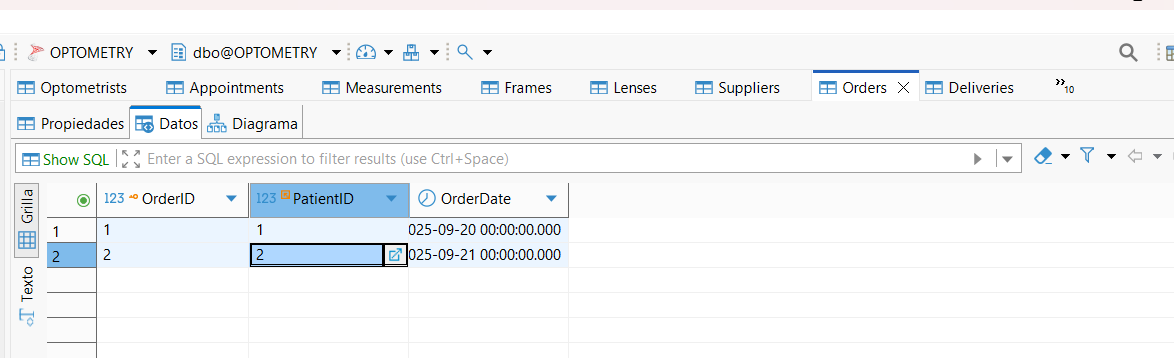
En la tabla suppliers



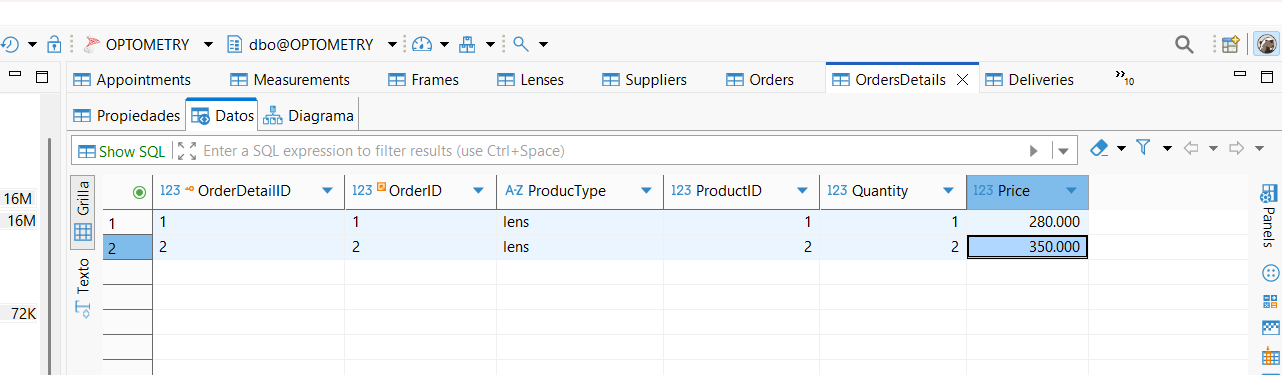
En la tabla lenses



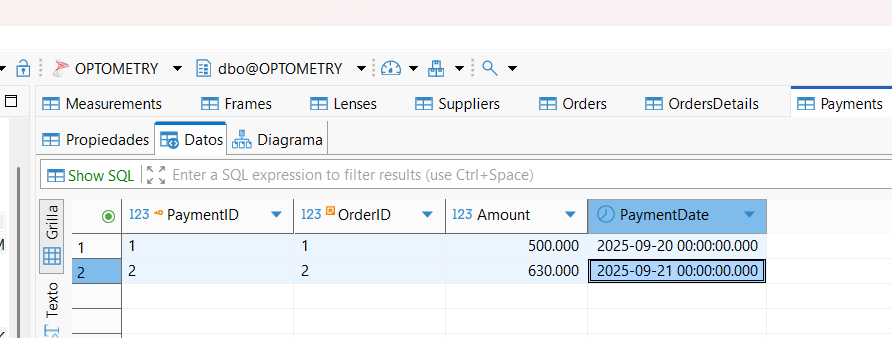
En la tabla orders



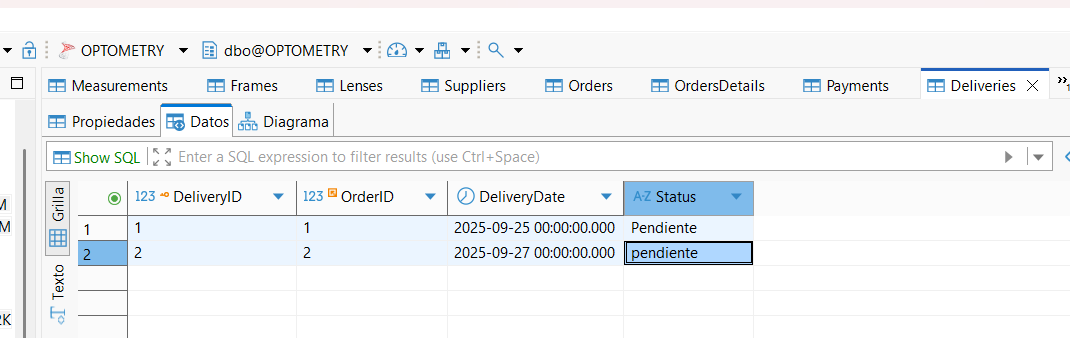
En la tabla ordersDetails



En la tabla payments



En la tabla deliveries



En la tabla visualhistories



BACKUP DE DBEAVER

