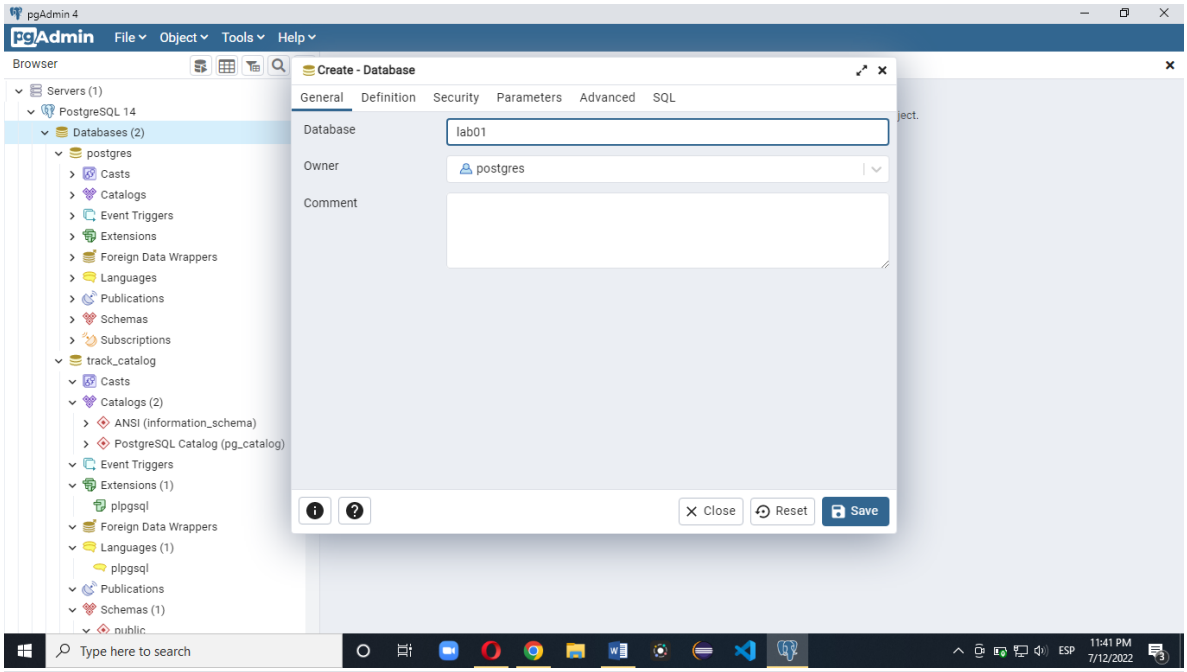
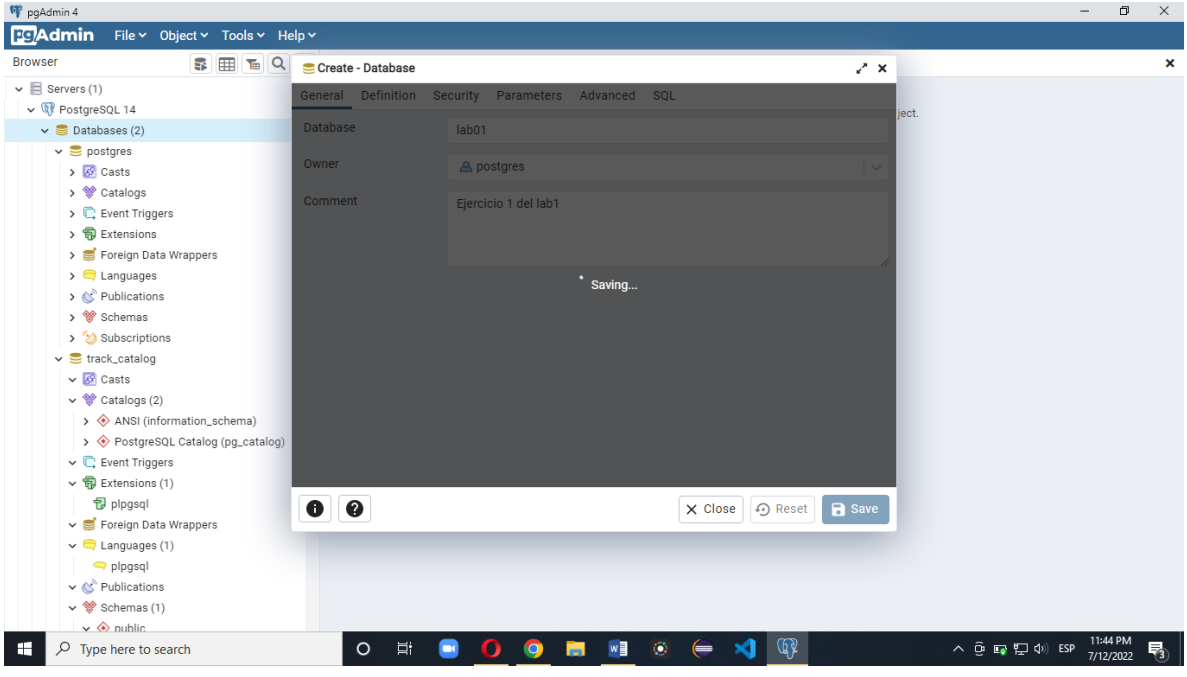
Diego Andrés Alonzo 20172 Guatemala 13-07-2022

Laboratorio 01 Base de datos

EJERCICIO 1

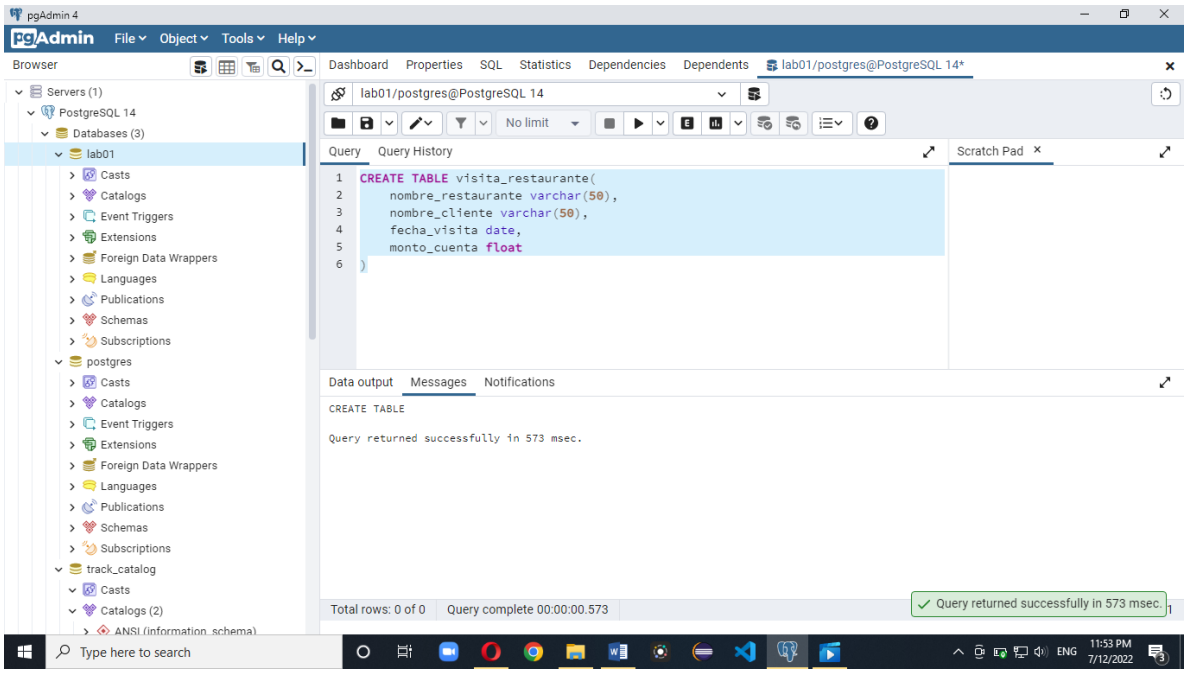
1.1 Crear la base de datos lab01



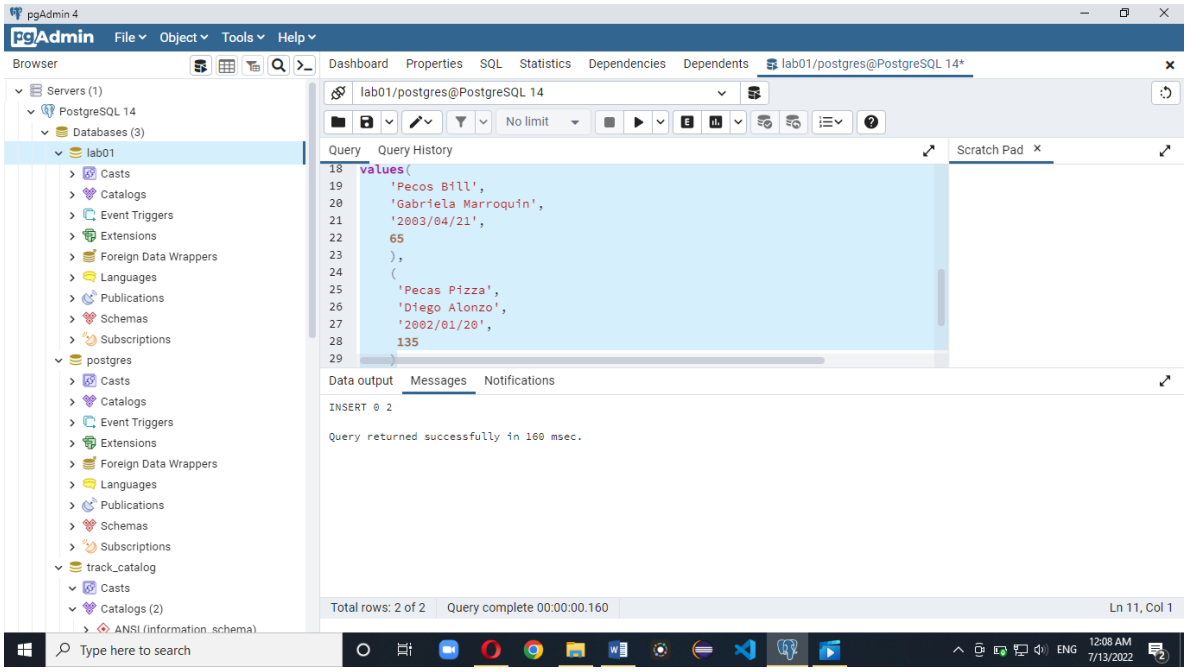


Diego Andrés Alonzo 20172 Guatemala 13-07-2022

1.2 Crear una tabla de visita al restaruante.

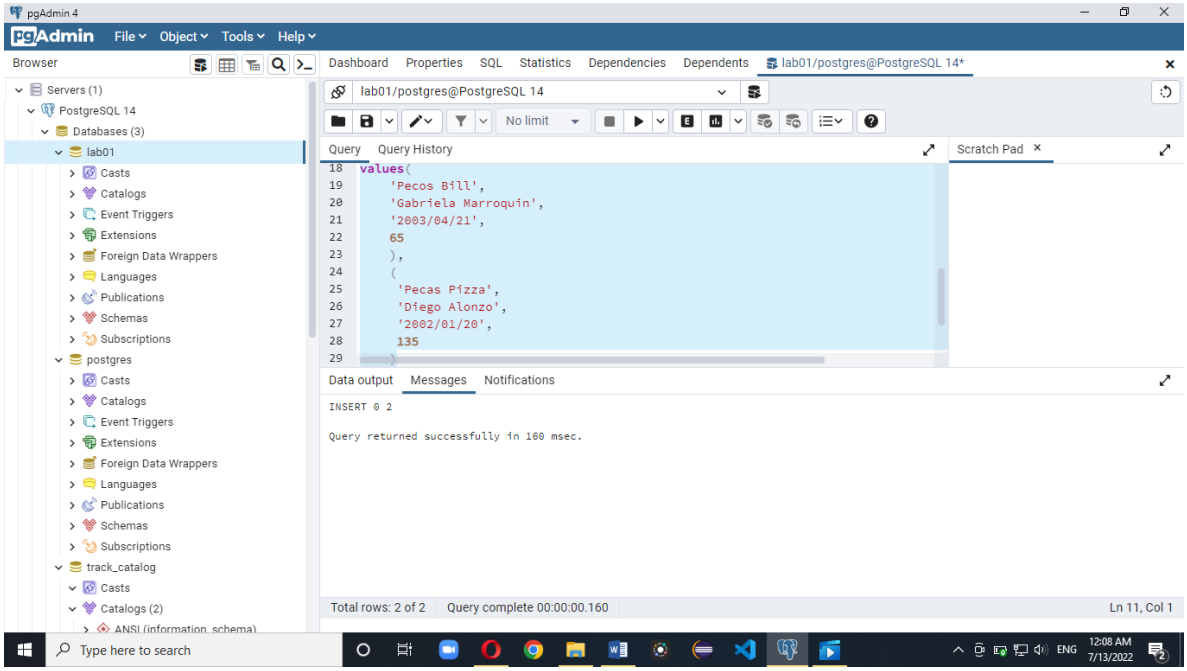


1.3 Inserción de datos en la tabla de visita a restaurante.

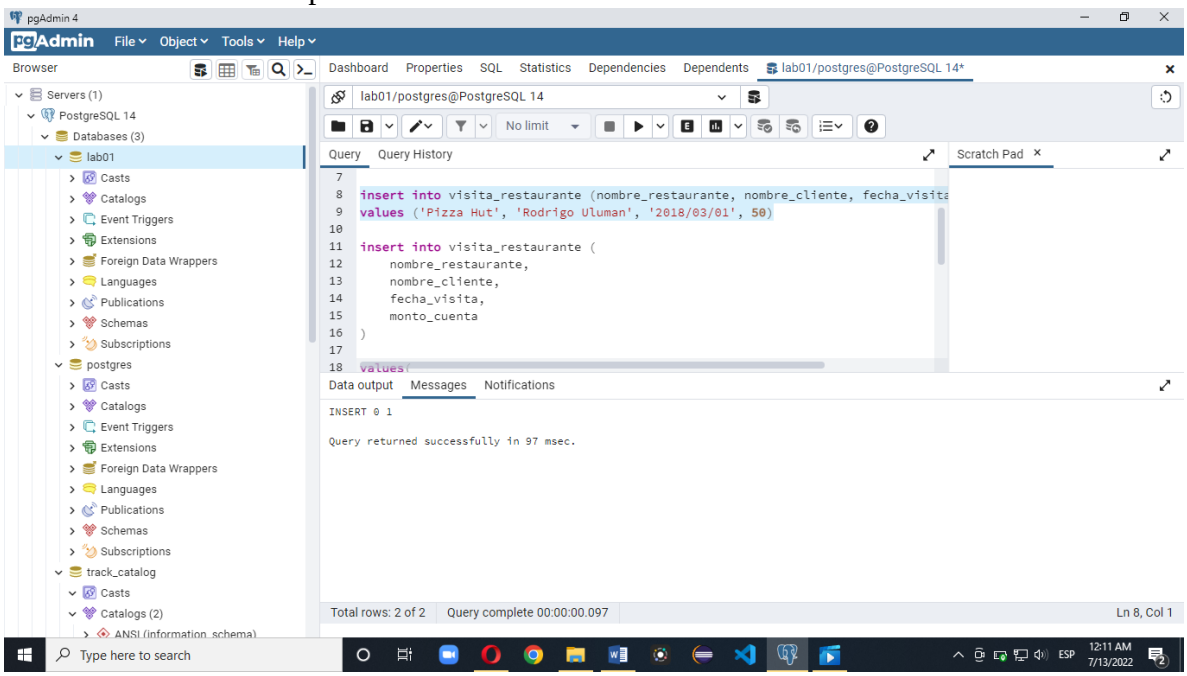


Inserción de múltiples datos a la vez.

Diego Andrés Alonzo 20172 Guatemala 13-07-2022

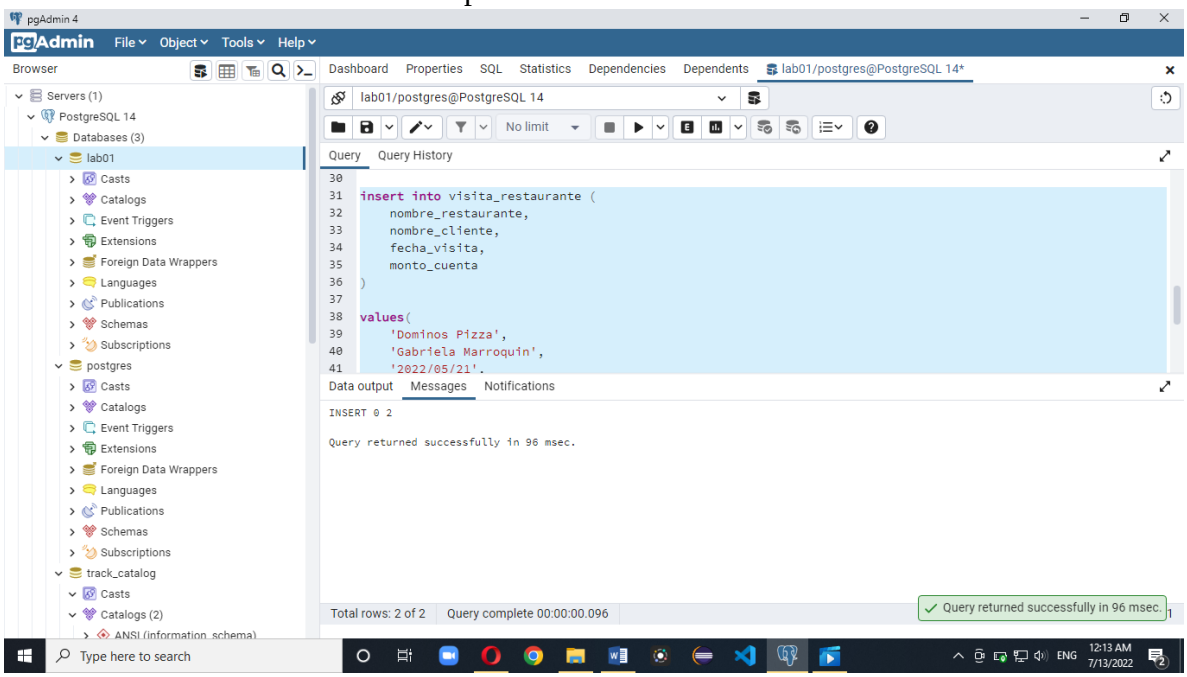


Inserción de una sola tupla a la vez.

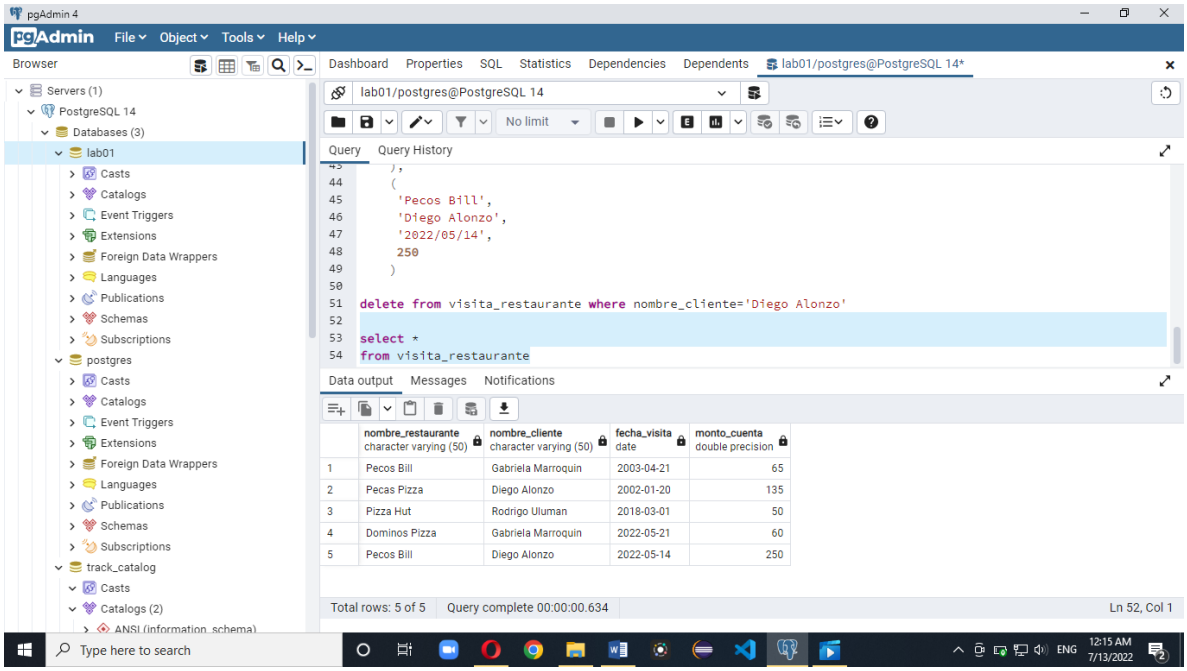


Diego Andrés Alonzo 20172 Guatemala 13-07-2022

Inserción de últimos dos elementos para tener 5 visitas a restaurantes.

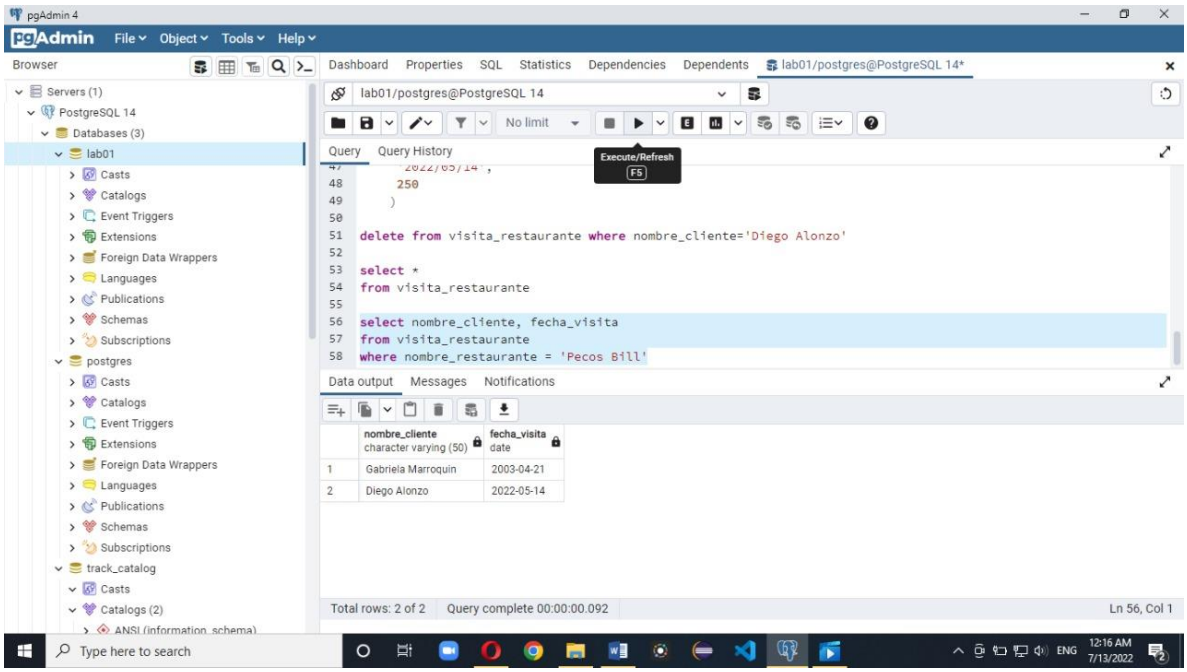


1.4 Select queries

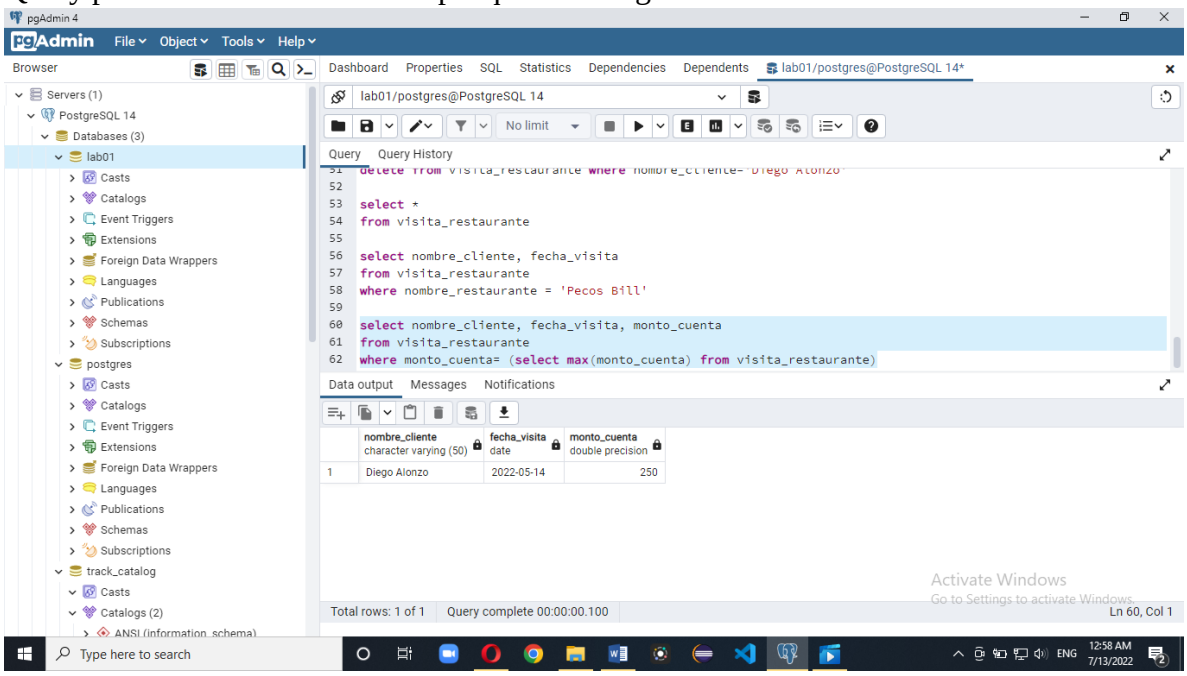


Query para seleccionar a aquellas personas que hayan ido a comer a Pecos Bill y en qué fecha lo fueron a visitar.

Diego Andrés Alonzo 20172 Guatemala 13-07-2022



Query para verificar cuál fue la tupla que tuvo el gasto máximo.



Los querys del ejercicio 1:

```
CREATE TABLE visita_restaurante(
    nombre_restaurante varchar(50),
    nombre_cliente varchar(50),
    fecha_visita date,
```

```
    monto_cuenta float
)

insert into visita_restaurante (nombre_restaurante, nombre_cliente, fecha_visita,
monto_cuenta)
values ('Pizza Hut', 'Rodrigo Uluman', '2018/03/01', 50)

insert into visita_restaurante (
    nombre_restaurante,
    nombre_cliente,
    fecha_visita,
    monto_cuenta
)

values(
    'Pecos Bill',
    'Gabriela Marroquin',
    '2003/04/21',
    65
    ),
    (
     'Pecas Pizza',
     'Diego Alonzo',
     '2002/01/20',
     135
    )

insert into visita_restaurante (
    nombre_restaurante,
```

```
    nombre_cliente,
    fecha_visita,
    monto_cuenta
)

values(
    'Dominos Pizza',
    'Gabriela Marroquin',
    '2022/05/21',
    60
    ),
    (
     'Pecos Bill',
     'Diego Alonzo',
     '2022/05/14',
     250
    )

delete from visita_restaurante where nombre_cliente='Diego Alonzo'

select *
from visita_restaurante

select nombre_cliente, fecha_visita
from visita_restaurante
where nombre_restaurante = 'Pecos Bill'

select nombre_cliente, fecha_visita, monto_cuenta
```

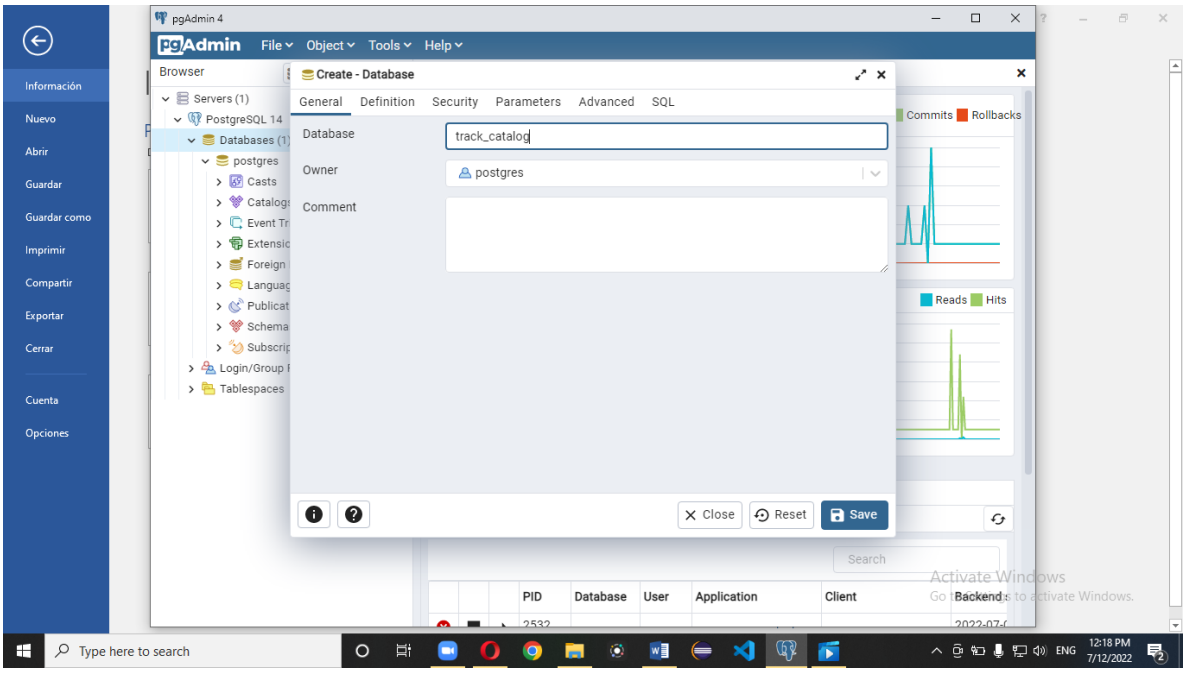
Diego Andrés Alonzo 20172 Guatemala 13-07-2022

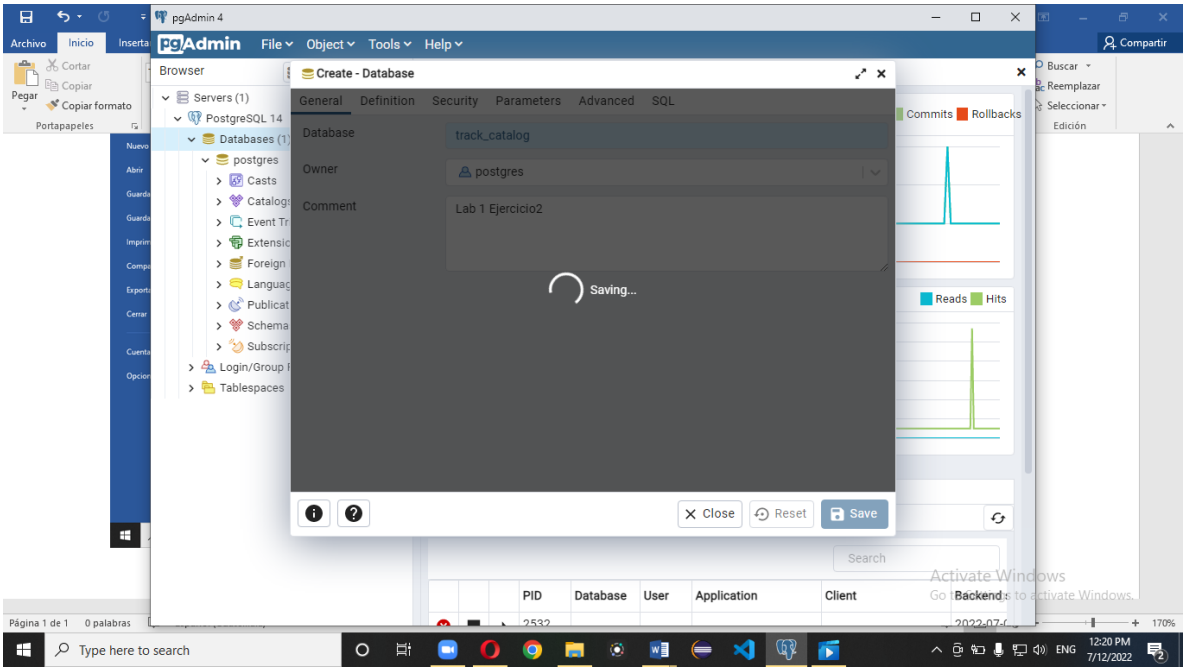
from visita_restaurante

where monto_cuenta= (select max(monto_cuenta) from visita_restaurante)

EJERCICIO 2

2.1 Crear base de datos track_catalog





2.2 Levantar el backup de la base de datos

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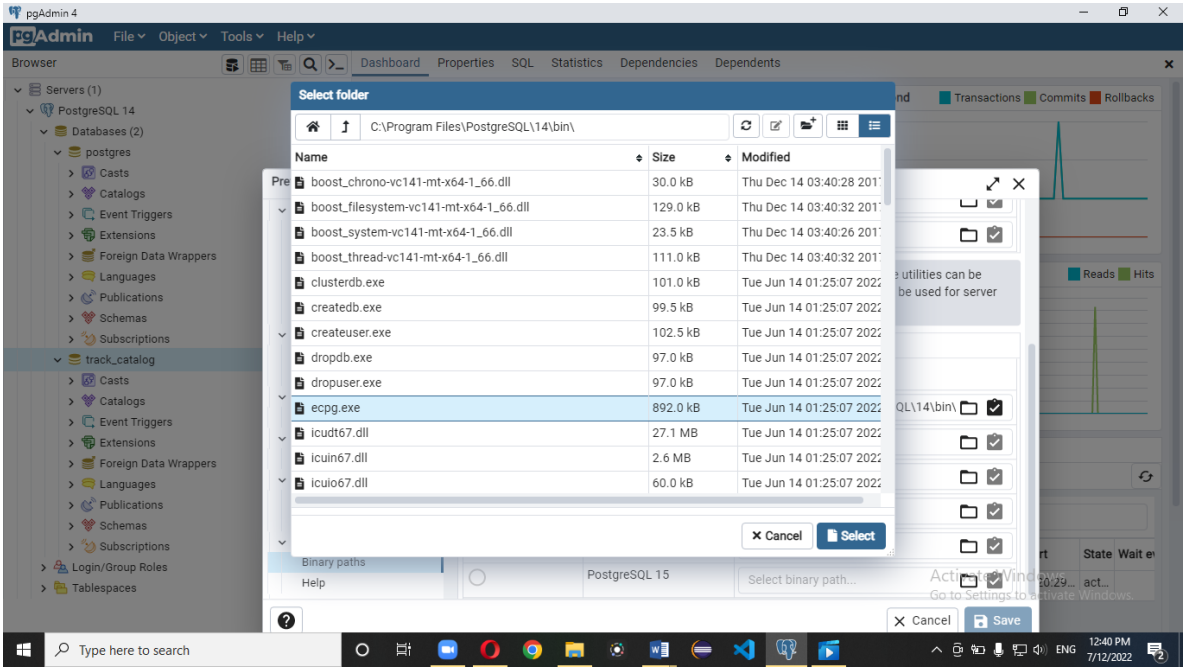
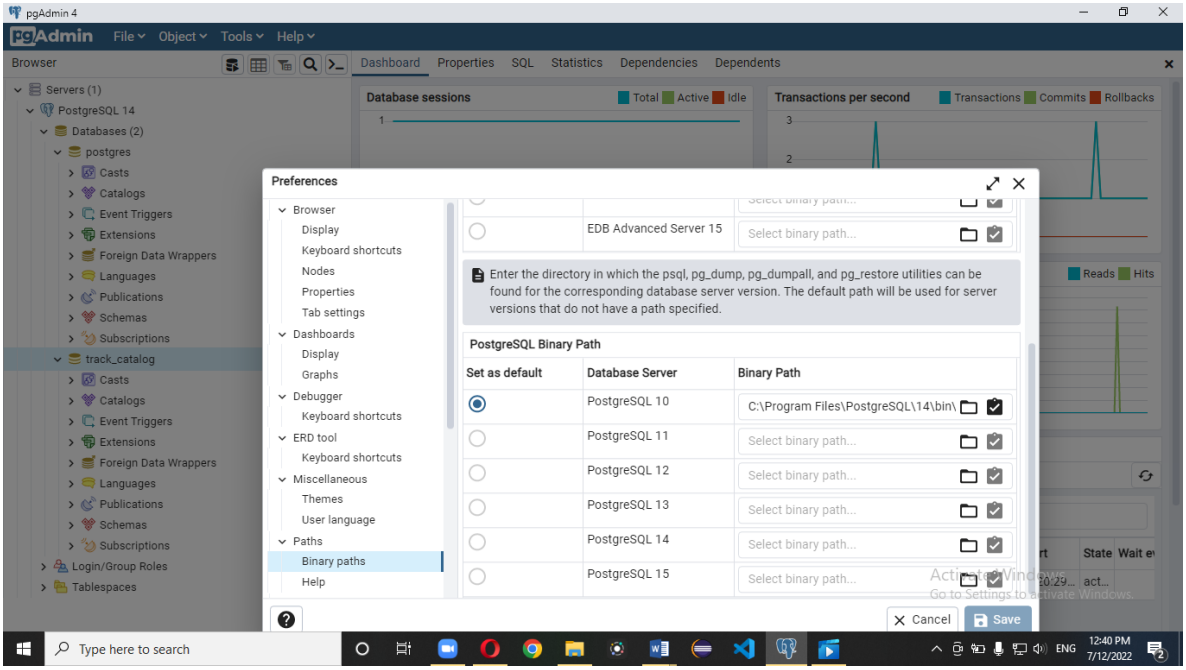
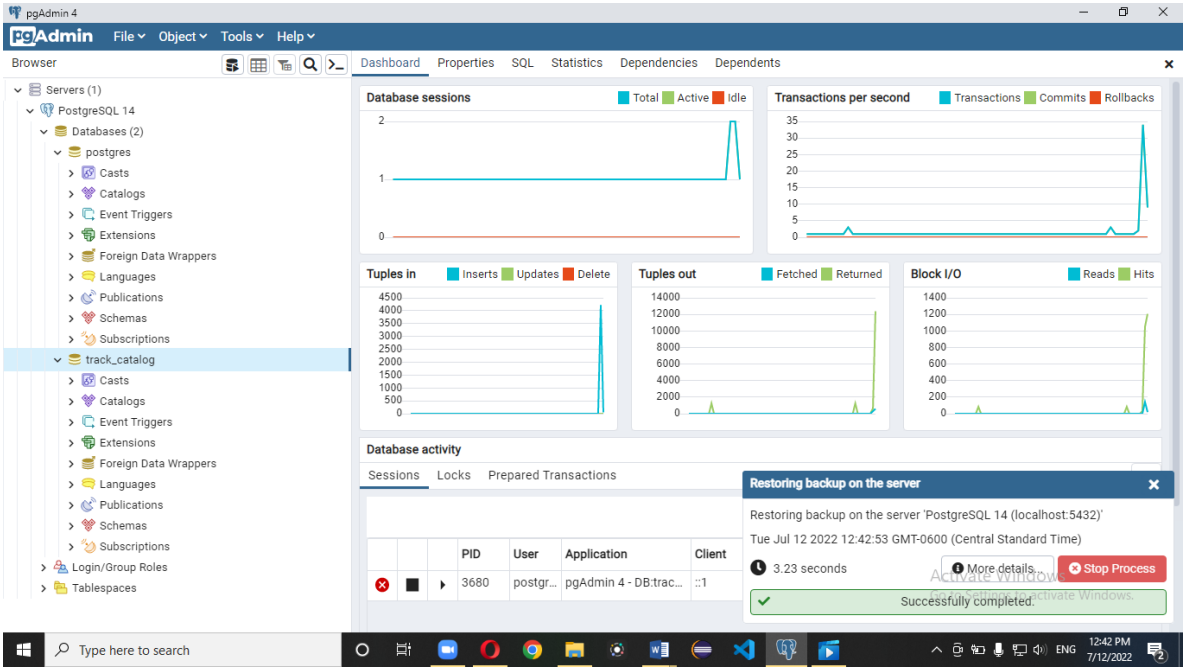
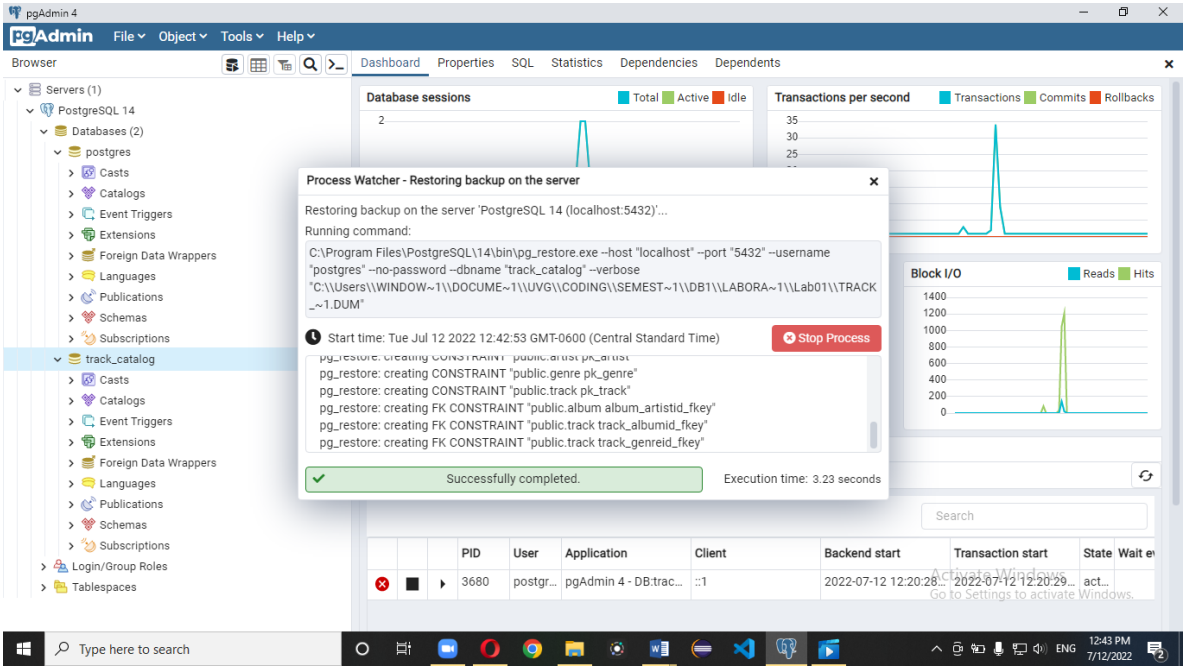


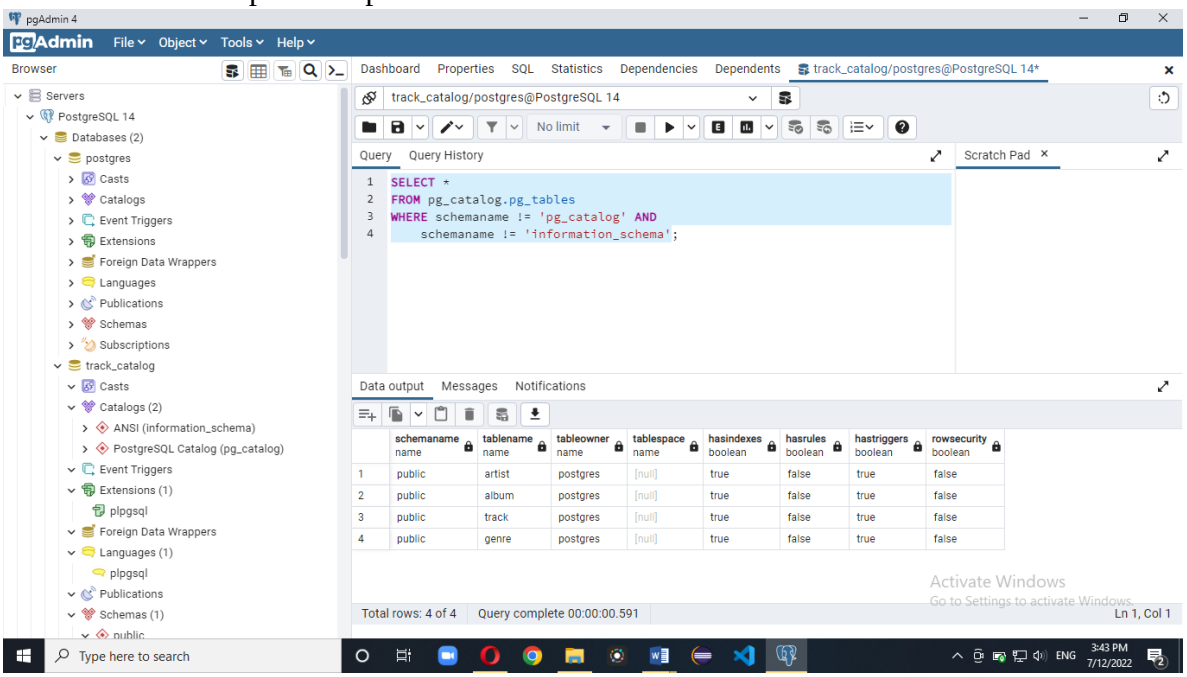


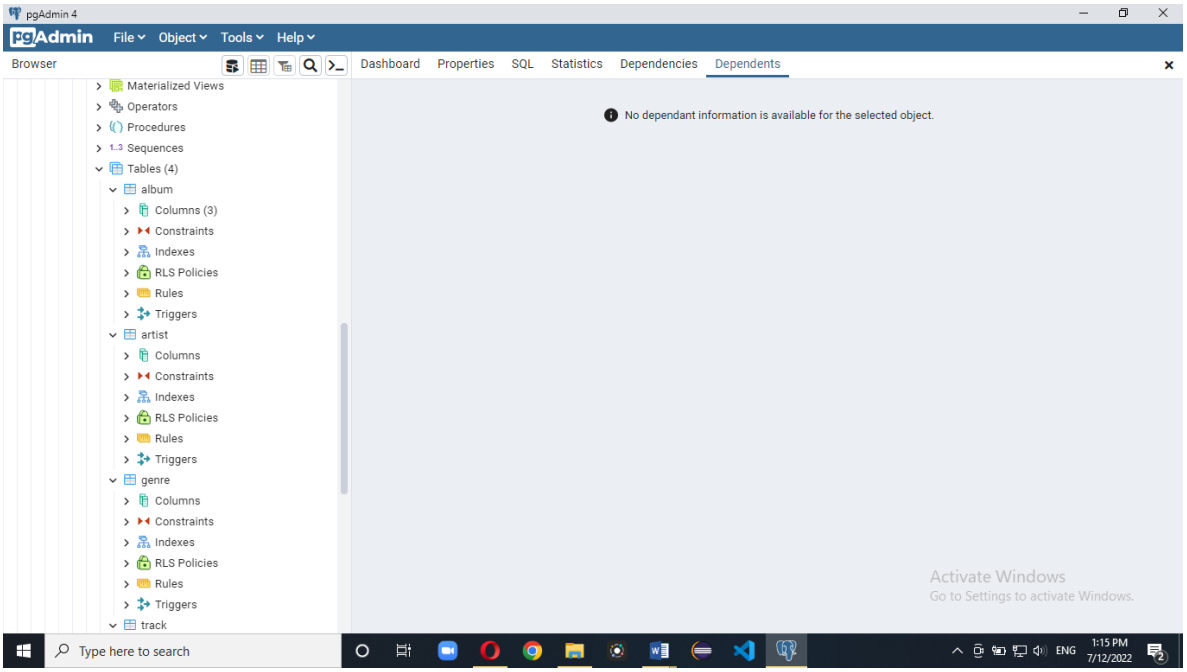

pgAdmin 4
File Object Tools Help
Browser
Dashboard Properties SQL Statistics Dependencies Dependents
Database sessions
Total Active Idle
Transactions per second
Transactions Commits Rollbacks
Tuples in
Inserts Updates Delete
Tuples out
Fetched Returned
Block I/O
Reads Hits
Database activity
Sessions Locks Prepared Transactions
Restoring backup on the server
Restoring backup on the server 'PostgreSQL 14 (localhost:5432)'
Tue Jul 12 2022 12:42:53 GMT-0600 (Central Standard Time)
3.23 seconds
More details
Stop Process
Successfully completed.
PID User Application Client
3680 postgr... pgAdmin 4 - DB:trac... ::1
Type here to search
12:42 PM
7/12/2022


pgAdmin 4
File Object Tools Help
Browser
Dashboard Properties SQL Statistics Dependencies Dependents
Process Watcher - Restoring backup on the server
Restoring backup on the server 'PostgreSQL 14 (localhost:5432)'...
Running command:
C:\Program Files\PostgreSQL\14\bin\pg_restore.exe --host "localhost" --port "5432" --username "postgres" --no-password --dbname "track_catalog" --verbose "C:\\Users\\WINDOW~1\\DOCUME~1\\UVG\\CODING\\SEMEST~1\\DB1\\LABORA~1\\Lab01\\TRACK_~1.DUM"
Start time: Tue Jul 12 2022 12:42:53 GMT-0600 (Central Standard Time)
Stop Process
pg_restore: creating CONSTRAINT "public.genre pk_genre"
pg_restore: creating CONSTRAINT "public.track pk_track"
pg_restore: creating FK CONSTRAINT "public.album album_artistid_fkey"
pg_restore: creating FK CONSTRAINT "public.track track_albumid_fkey"
pg_restore: creating FK CONSTRAINT "public.track track_genreid_fkey"
Successfully completed.
Execution time: 3.23 seconds
Block I/O
Reads Hits
Search
PID User Application Client Backend start Transaction start State
3680 postgr... pgAdmin 4 - DB:trac... ::1 2022-07-12 12:20:28... 2022-07-12 12:20:29... act...
Type here to search
12:43 PM
7/12/2022

2.3

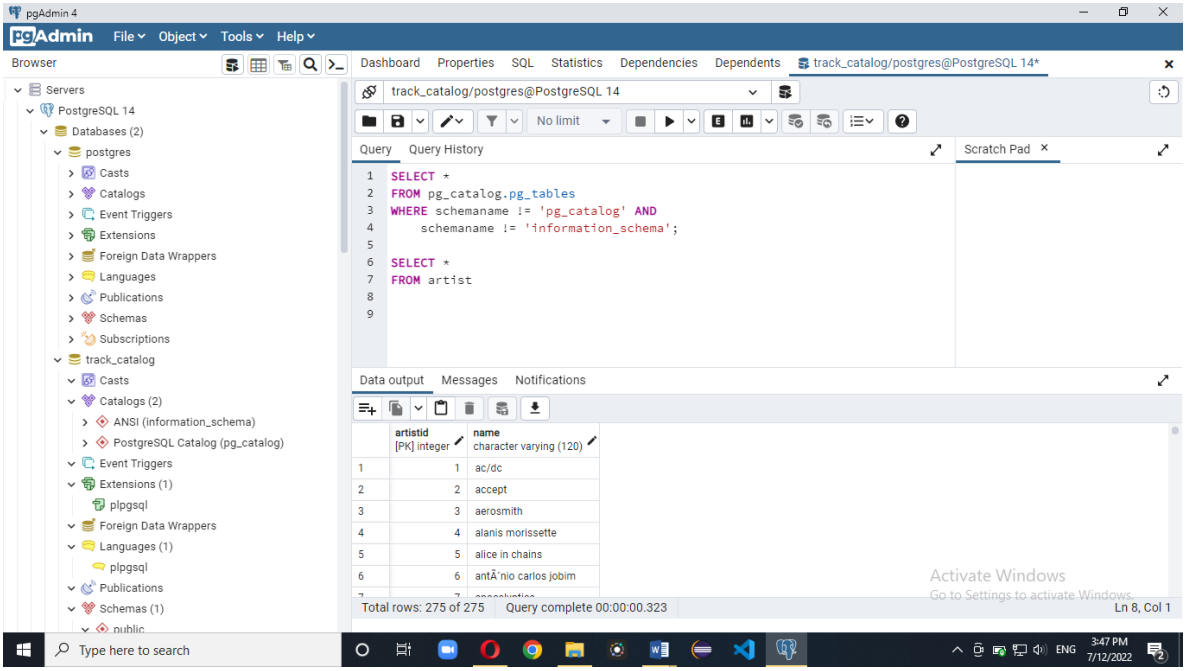
2.3.1 Las tablas disponibles para esta base de datos



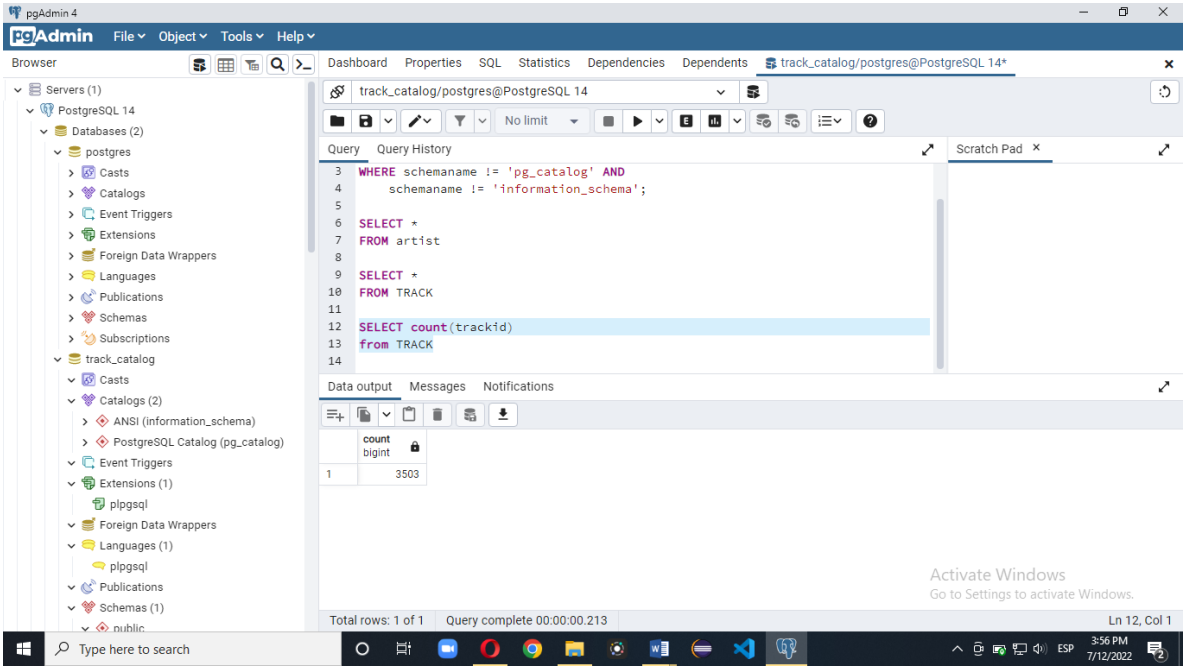


2.3.2 El esquema de la tabla artista es: Artista ID es de tipo entero, Nombre es de tipo Carácter Variante.

Diego Andrés Alonzo 20172 Guatemala 13-07-2022



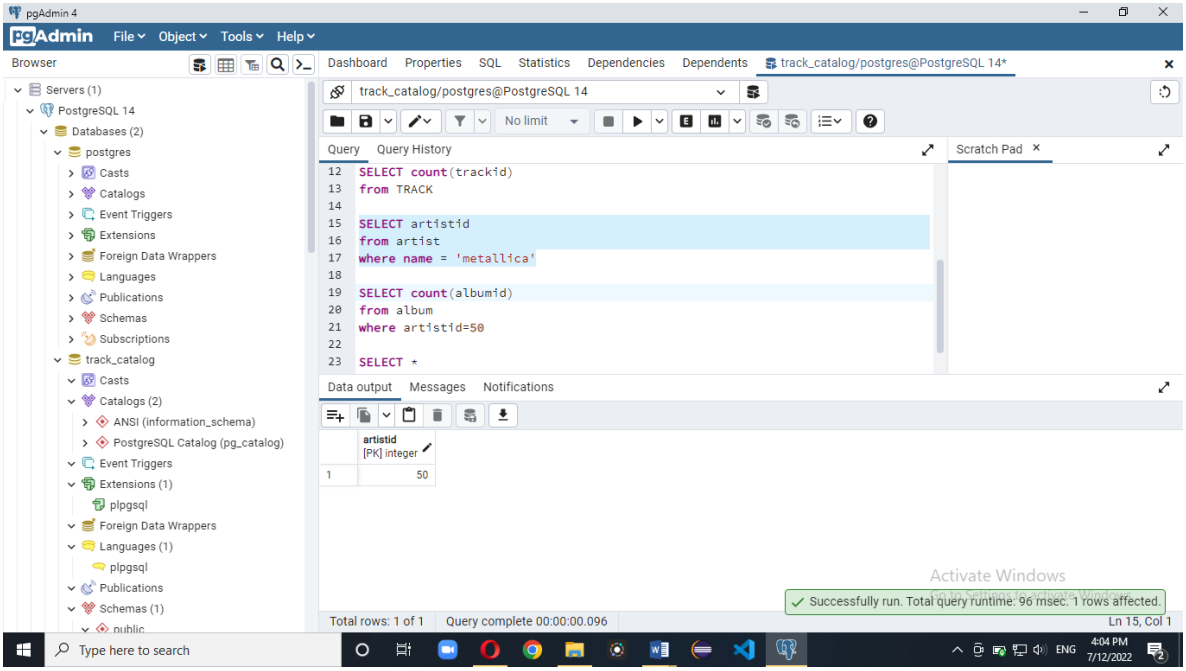
2.3.3 ¿Cuántas tracks hay registradas en la base de datos?

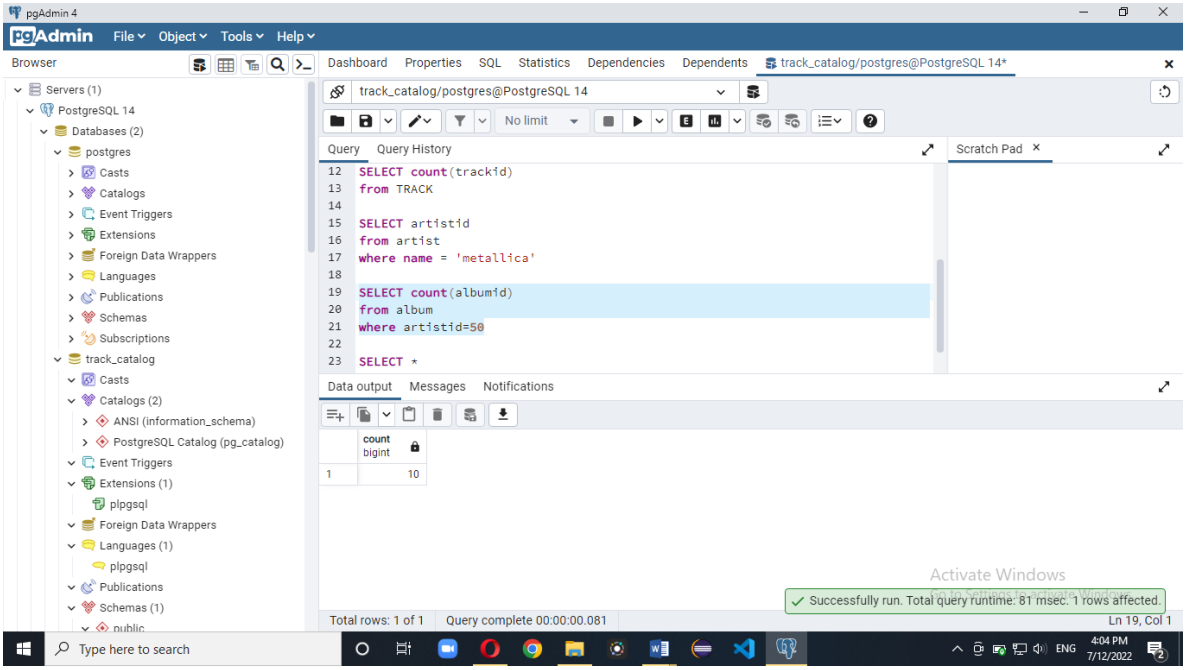


Hay 3503 tracks registradas.

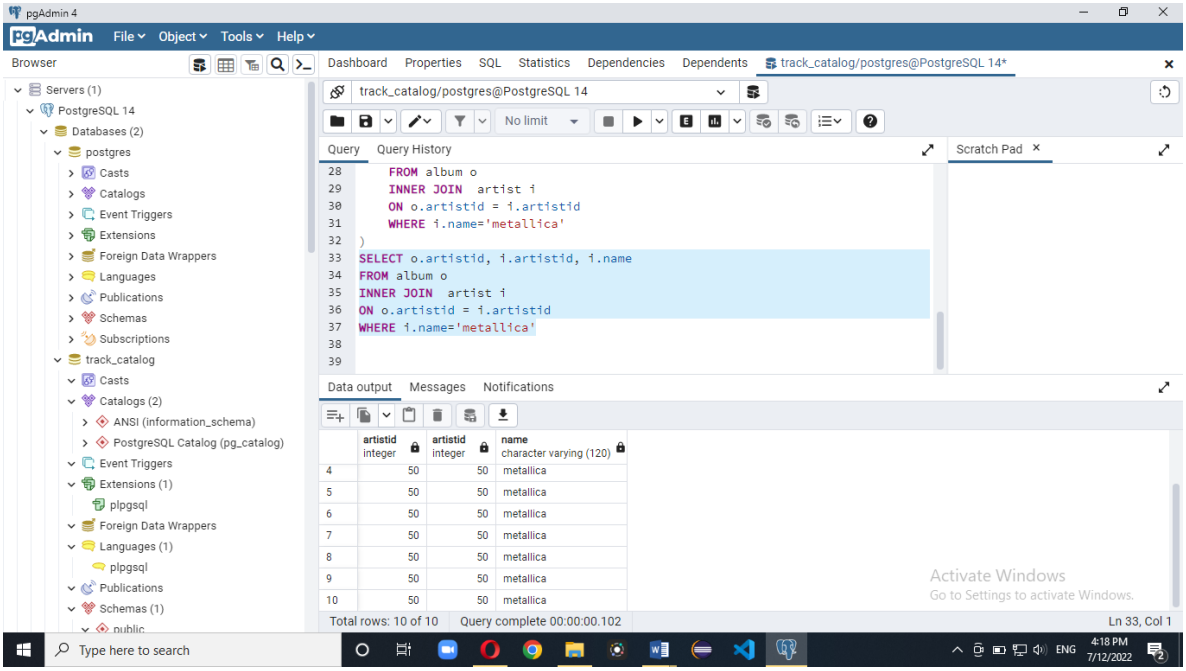
2.3.4 ¿Qué álbumes de la banda metallica se encuentran registrados en la base de datos?

Diego Andrés Alonzo 20172 Guatemala 13-07-2022

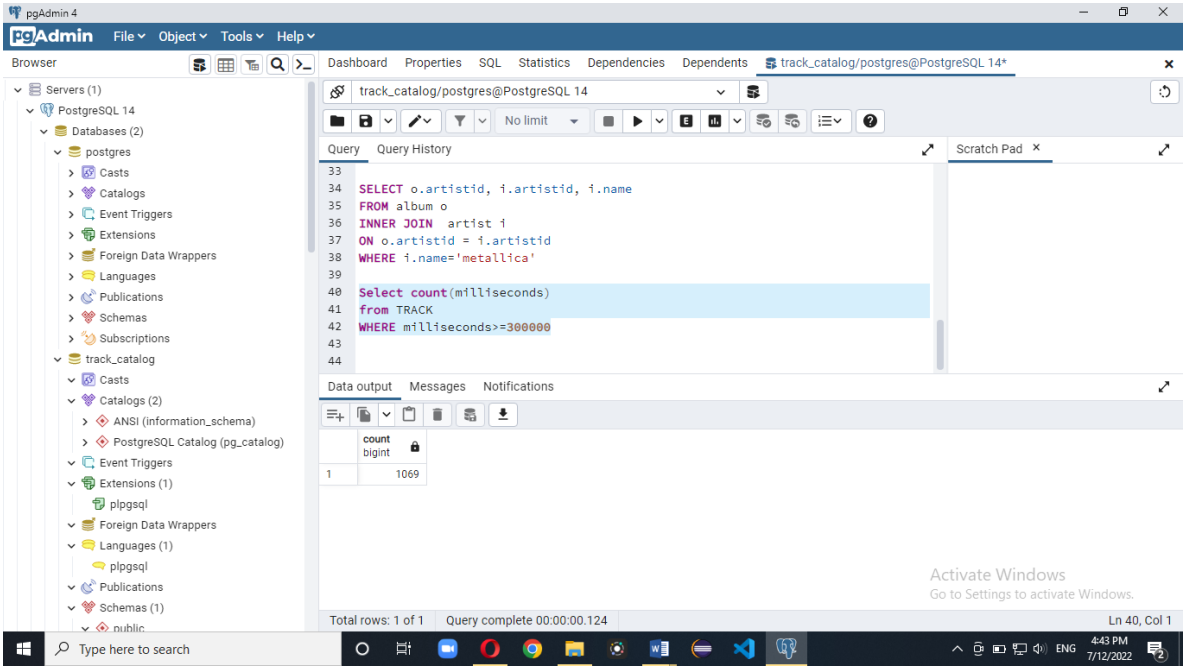




Diego Andrés Alonzo 20172 Guatemala 13-07-2022



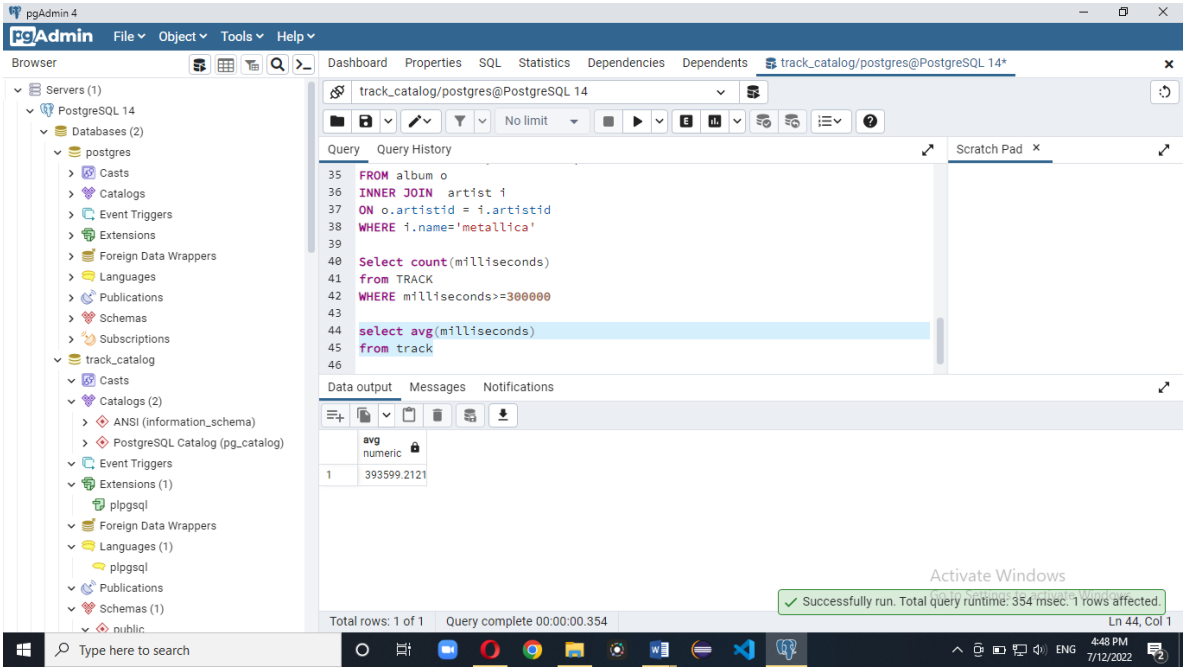
2.3.5 ¿Cuántas canciones duran igual o más de 5 minutos ¿



1069 canciones duran al menos 5 minutos.

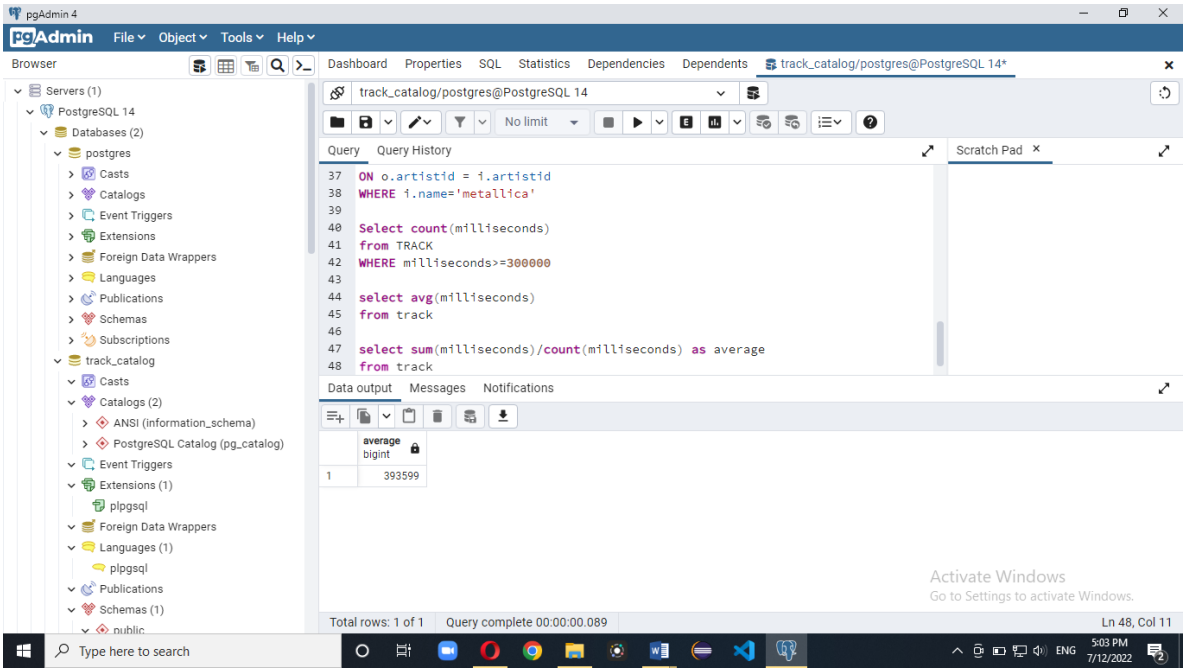
2.3.6 ¿Cuál es el promedio en milisegundos de las tracks?

Diego Andrés Alonzo 20172 Guatemala 13-07-2022



El promedio de las canciones en milisegundos es de 393599.2121.

2.3.7



El promedio de tiempo de canciones sin utilizar la función AVG es 393599 milisegundos.