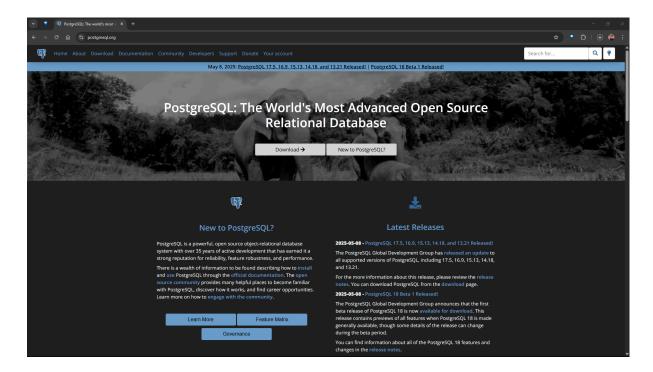
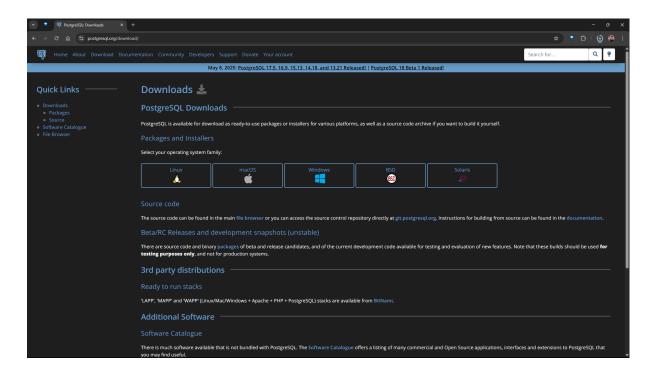
POSTGRES SETUP + BASICS

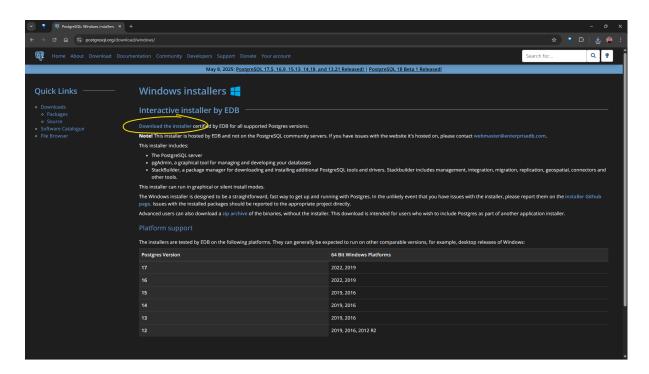
https://www.postgresgl.org/

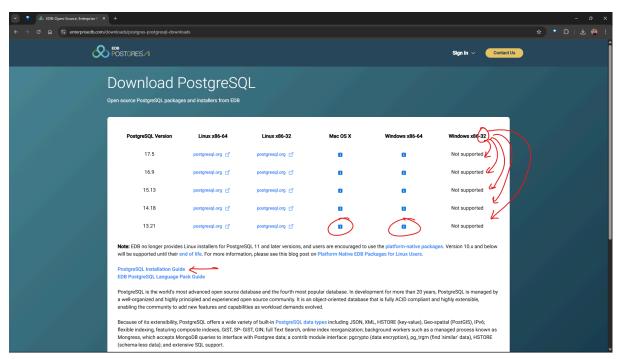


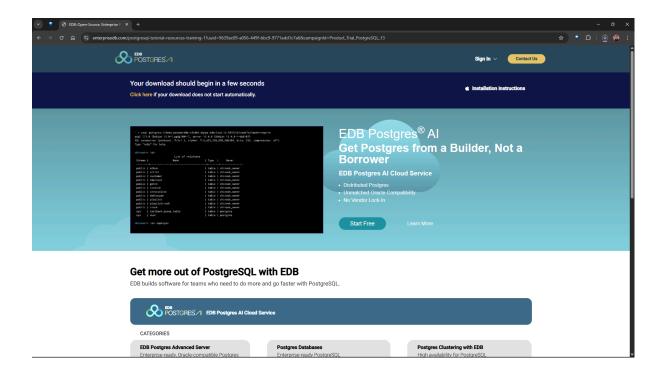
https://www.postgresql.org/download/



Windows: https://www.postgresql.org/download/windows/
Mac: https://www.postgresql.org/download/windows/

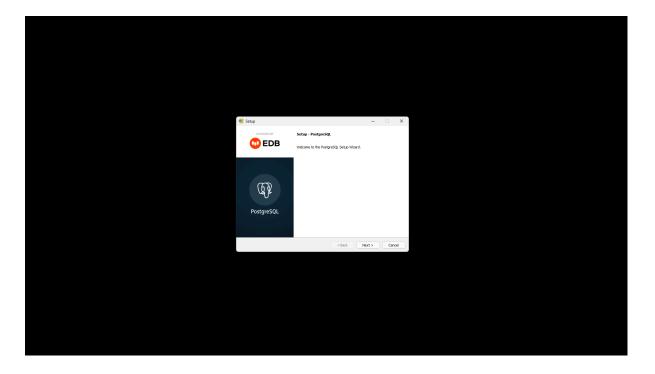


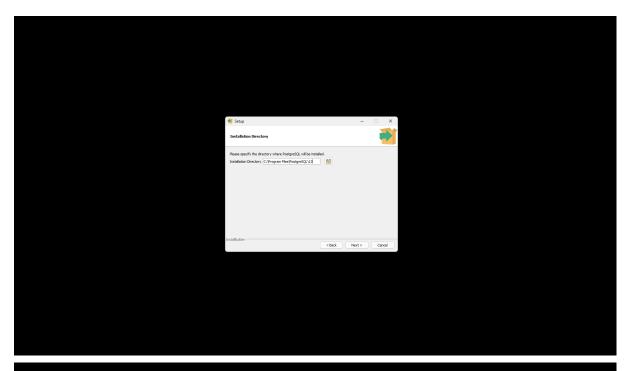


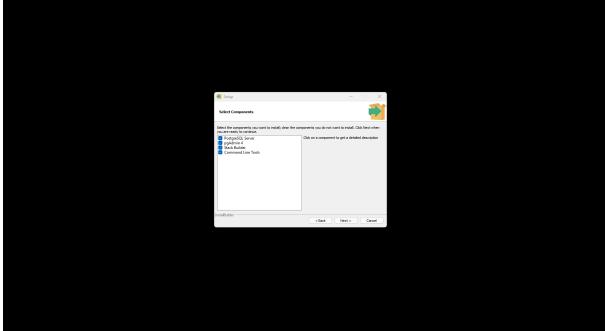


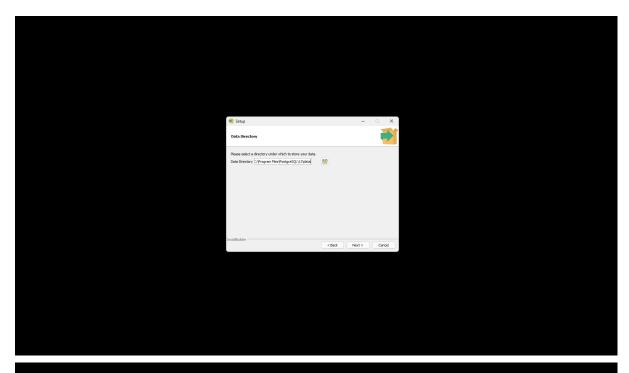
Official installation Guide:

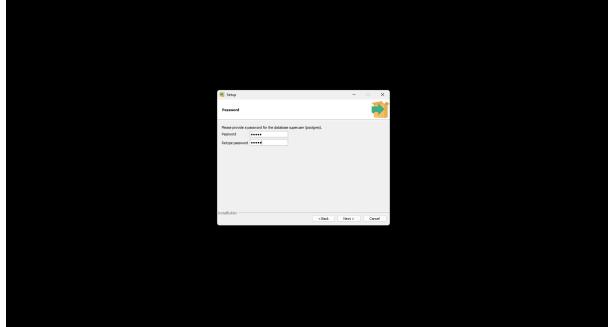
https://www.enterprisedb.com/docs/supported-open-source/postgresql/installing/windows/

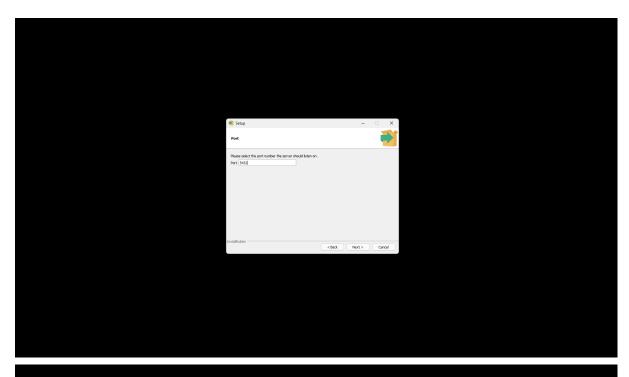


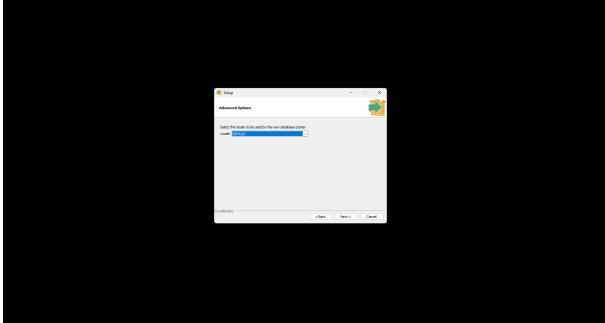


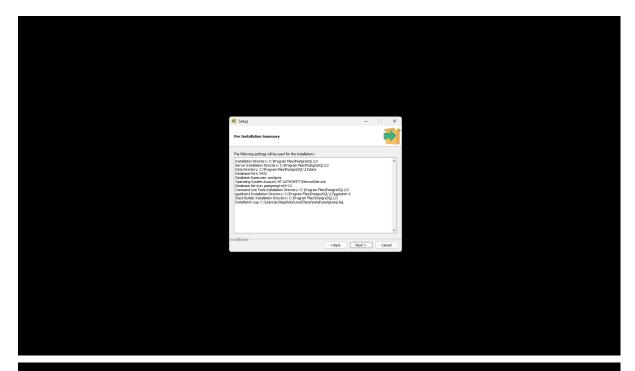


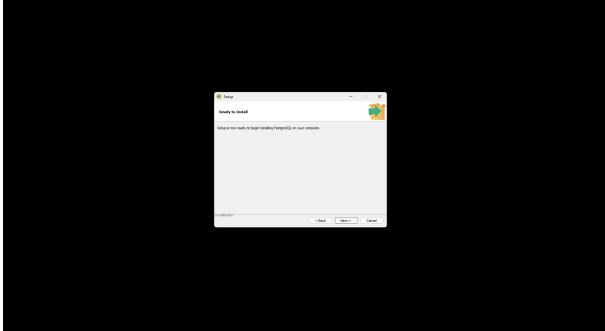


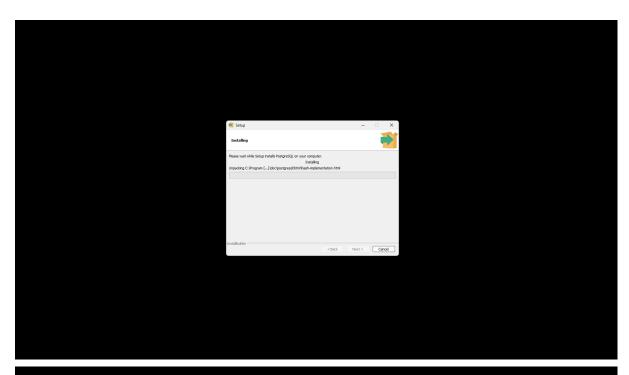


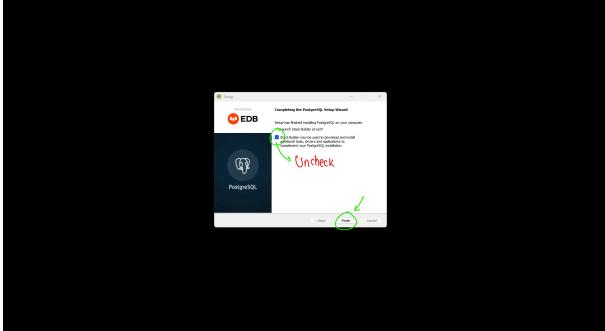






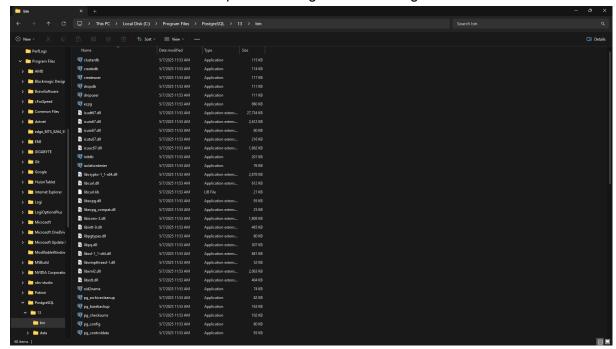






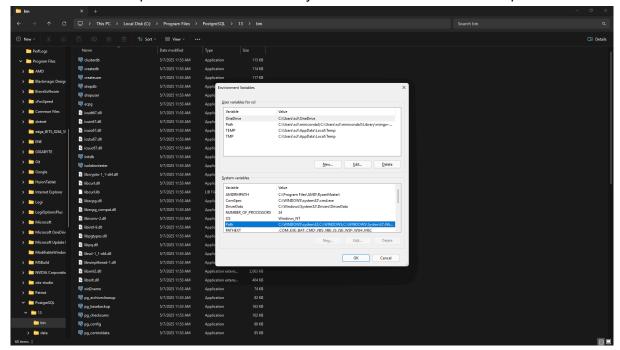
SET ENVIRONMENT VARIABLES

Go to installation path: C:\Program Files\PostgreSQL\13\bin

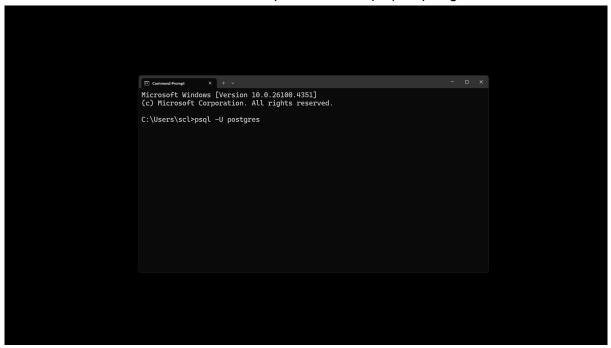


Copy path : C:\Program Files\PostgreSQL\13\bin

Add this path to User Variables / System variables > Path and set path



To test installation : Open terminal > psql -U postgres



Write the password you set before and press enter

```
Microsoft Windows [Version 10.0.26100.4351]
(c) Microsoft Orporation. All rights reserved.

C:\Users\scl-psql -U postgres
Password for user postgres:

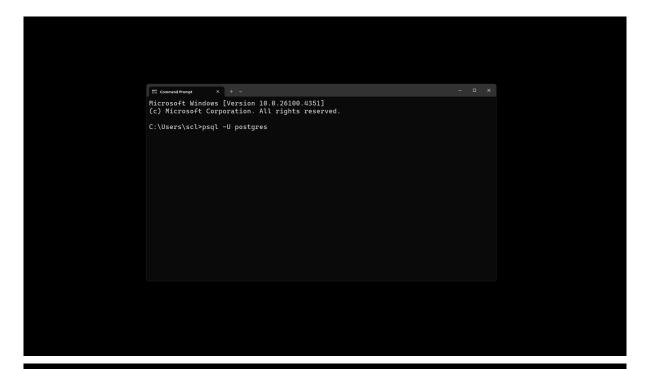
psql (13.21)
WARNING: Console code page (437) differs from Windows code page (1252)
Barbit characters might not work correctly. See psql reference page "Notes for Windows users" for details.

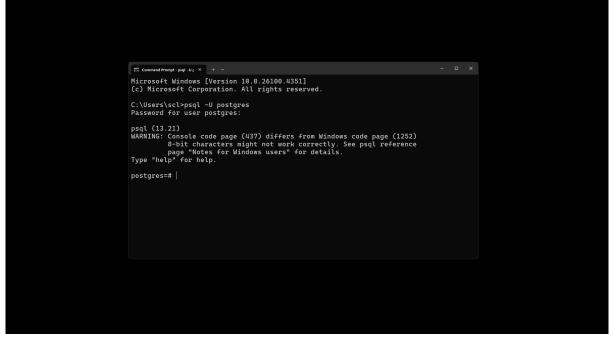
Type "help" for help.

postgres=#
```

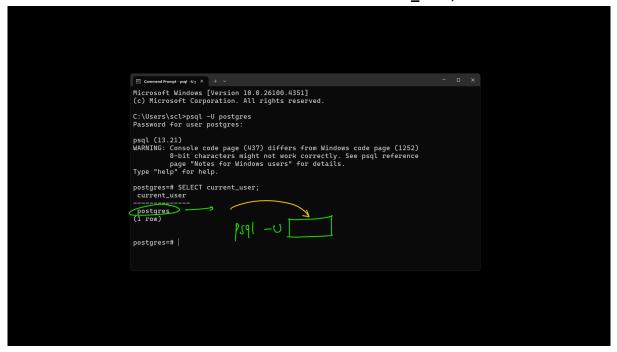
Installation Successful.

START BASIC

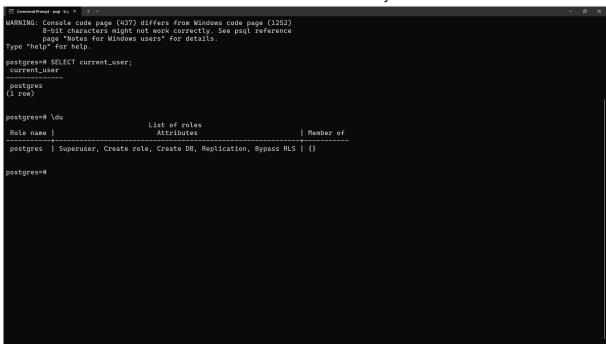




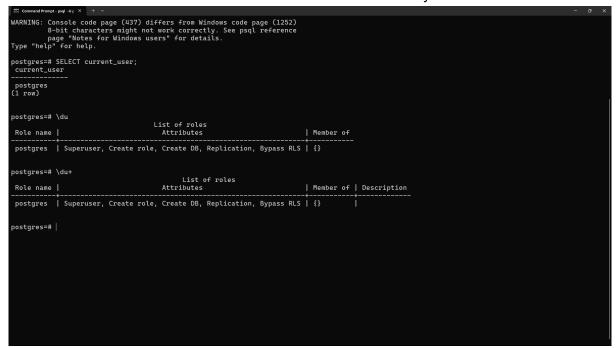
Check current user: SELECT current_user;



To list all user with roles in the db system: \du



To list all user with roles + more info in the db system: \du+



Check Tables in the Current Database : \dt
To list all tables, views, and sequences : \d
To list tables in all schemas : \dt *.*
How to Check Table Schema (Description of a Table) : \d
To quit : \q

Information about your current connection: \conninfo

Current connected database: \conninfo

```
C:\Users\sct\psq1 -U postpres

Assword for user postgres:

psq1 (13.21)

WARNING: Console code page (U37) 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=# \conninfo
You are connected to database "postgres" as user "postgres" on host "localhost" (address "::1") at port "5432".

current_database

postgres

[1 row]

postgres=# |
```

CREATING NEW USER, NEW DATABASE

Create new user: CREATE USER test WITH PASSWORD 'test123';

Create New database and make test as owner: CREATE DATABASE demo1 OWNER test;

```
C:\Users\scl>psql -U postgres
Password for user postgres:

psql (13.21)

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

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

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

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

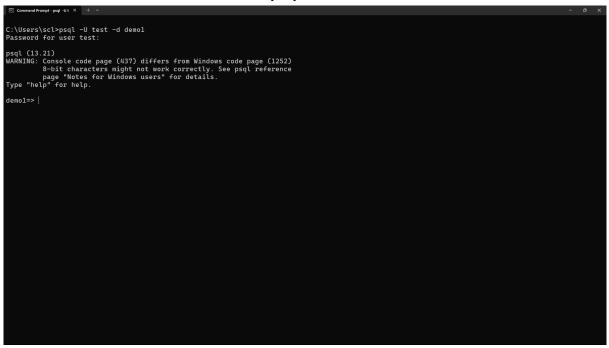
MARNING: Console code page (437) differs from Windows code page (1252)

MARNING: Console code page (4252)

MARNING: Console code page (1252)

MARNING: Console c
```

Verify user **test** can access **demo1** Command : **psql -U test -d demo1**



If you don't specify a database using the -d option, psq1 attempts to connect to a database that has the same name as the username you provided.

Download .sql file from here:

Github repo: https://github.com/lerocha/chinook-database

SQL dump file:

https://github.com/lerocha/chinook-database/releases/download/v1.4.5/Chinook_PostgreSql.sql

This will create a Database, Create Multilple Table

Step 1: \q

Step 2 : psql -U postgres

Step 3: update line 25 CREATE DATABASE chinook OWNER test;

Step 4 : Open .sql with vscode > Select utf-8 at right bottom and open with Western (Windows 1252), now select Western (Windows 1252) at bottom right and this time save with utf-8

Step 5 : \i C:/Users/scl/Downloads/Chinook_PostgreSql.sql

Step 6: psql -U test -d chinook

Step 7 (Optional): If database create on user postgres and we want user test to have all access then GRANT ALL PRIVILEGES ON DATABASE chinook TO test;

```
C:\Users\sclapsq - U test - d chinook
Password for user test:

psql (13.21)
WARNING: Console code page (U37) differs from Windows code page (1252)
Bebt characters might not work correctly. See psql reference
page "Notes for Windows users" for details.

Type "help" for help.

chinook=> \conninfo

You are connected to database "chinook" as user "test" on host "localhost" (address "::1") at port "5432".

chinook=> \conninfo

You for plations

Schema | Name | Type | Owner

public | album | table | postgres
public | customer | table | postgres
public | customer | table | postgres
public | genre | table | postgres
public | invoice | table | postgres
public | invoice | table | postgres
public | invoice | table | postgres
public | playlist | table | postgres
public | track | table | postgres
```

INFO OF TABLE (\dt)

```
Discrete the public of invoice_line | table | postgres |
public | invoice_line | table | postgres |
public | palylist | table | postgres |
public | playlist | table | postgres |
public | playlist_track | table | postgres |
public | track | table | postgres |
public | track | table | postgres |
public | track | table | postgres |
list of relations |
Schema | Name | Type | Owner |
public | customer | table | postgres |
list of relations |
Schema | Name | Type | Owner |
public | album | table | postgres |
list of relations |
Schema | Name | Type | Owner |
public | postgres |
list of relations |
Schema | Name | Type | Owner |
public | postgres |
list of relations |
Schema | Name | Type | Owner |
public | playlist |
list of relations |
Schema | Name | Type | Owner |
public | playlist | table | postgres |
list of relations |
Schema | Name | Type | Owner |
public | playlist | table | postgres |
list of relations |
Schema | Name | Type | Owner |
public | playlist | table | postgres |
list of relations |
Schema | Name | Type | Owner |
public | lemployee | table | postgres |
list of relations |
Schema | Name | Type | Owner |
public | lemployee | table | postgres |
list of relations |
Schema | Name | Type | Owner |
public | lemployee | table | postgres |
```

SCHEMA OF TABLE (\d)

```
(1 row)
chinook=> \dt employee
List of relations
Schema | Name | Type | Owner
public | employee | table | postgres
(1 row)
chinook=> \d employee
                                                   Table "public.employee"
Type | Collation | Nullable | Default
                        | integer
| character varying(20)
   mployee_id
.ast_name
 first_name
title
                             character varying(20)
character varying(30)
                            character varying(30)
integer
timestamp without time zone
timestamp without time zone
character varying(70)
character varying(40)
character varying(40)
 birth_date
hire_date
address
    stal_code
                             character varying(24) character varying(60)
       xes.
"employee_pkey" PRIMARY KEY, btree (employee_id)
"employee_reports_to_idx" btree (reports_to)
ign-key constraints:
"employee_reports_to_fkey" FOREIGN KEY (reports_to) REFERENCES employee(employee_id)
       renced by:
TABLE "customer" CONSTRAINT "customer_support_rep_id_fkey" FOREIGN KEY (support_rep_id) REFERENCES employee(employee_id)
TABLE "employee" CONSTRAINT "employee_reports_to_fkey" FOREIGN KEY (reports_to) REFERENCES employee(employee_id)
hinook=>
```

Permissions

P1 : GRANT ALL PRIVILEGES ON DATABASE chinook TO test; IT grants CONNECT, CREATE, TEMPORARY

P2 : GRANT ALL PRIVILEGES ON ALL TABLES IN SCHEMA public TO test; IT grants SELECT, INSERT, UPDATE, DELETE, TRUNCATE, REFERENCES, and TRIGGER

P3: GRANT ALL PRIVILEGES ON ALL SEQUENCES IN SCHEMA public TO test;

BASIC SQL COMMANDS
READ: SELECT * FROM Artist;

READ: SELECT * FROM Artist LIMIT 5;

READ from Specific Columns (1): SELECT Artist_ld, Name FROM Artist;

READ from Specific Columns (2): SELECT Title, Artist_Id FROM Album;

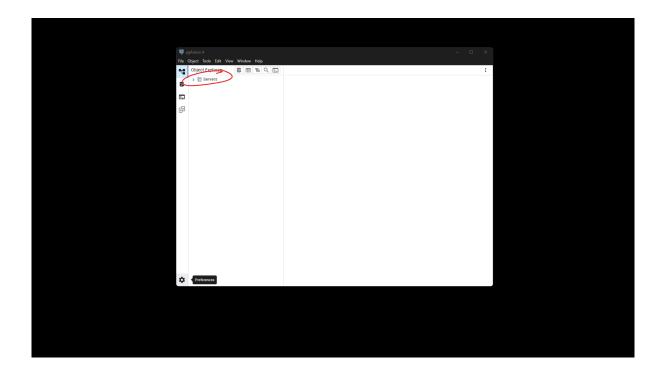
CONDITIONAL READ (WHERE clause) (1): SELECT * FROM Artist WHERE Name = 'Queen'; CONDITIONAL READ (WHERE clause) (2): SELECT Name, Milliseconds FROM Track WHERE

Milliseconds > 300000;
CONDITIONAL READ (WHERE clause) (3): SELECT First_Name, Last_Name, Country FROM Customer
WHERE Country = 'Canada' OR Country = 'USA';

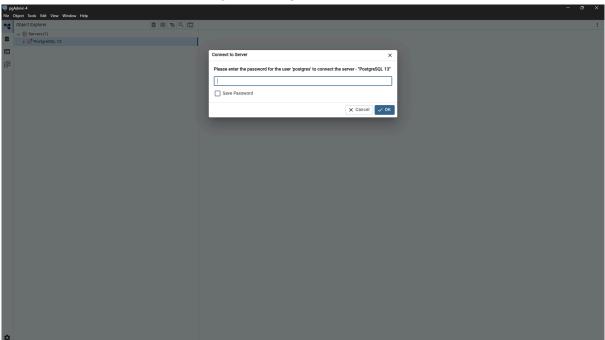


—----- WITH UI —-----pgAdmin 4

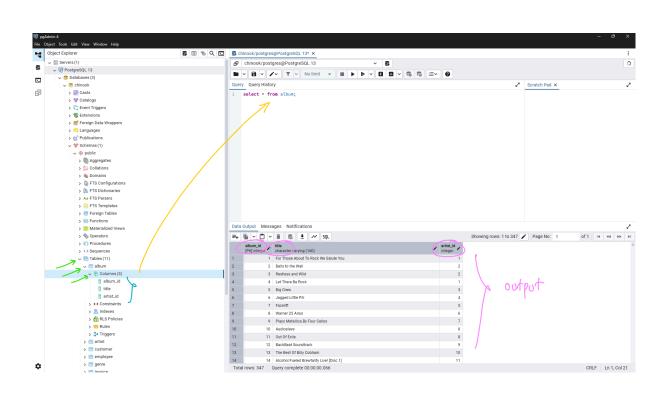




Enter your postgres user password







THANKYOU