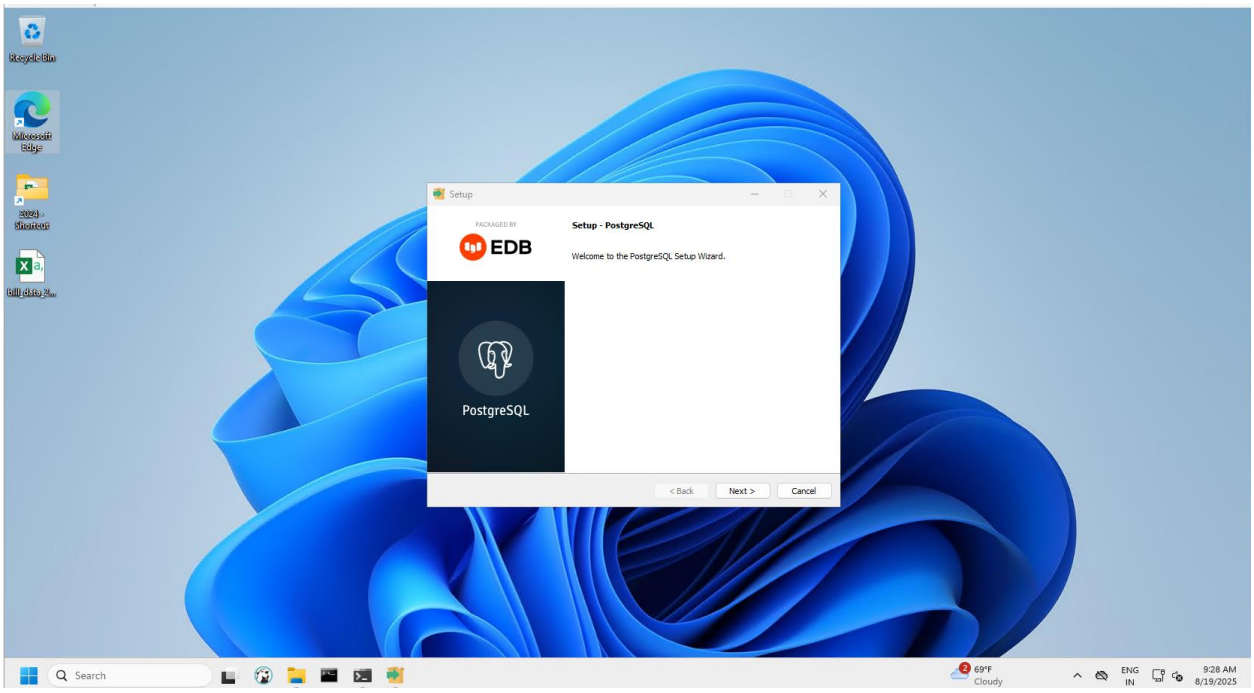
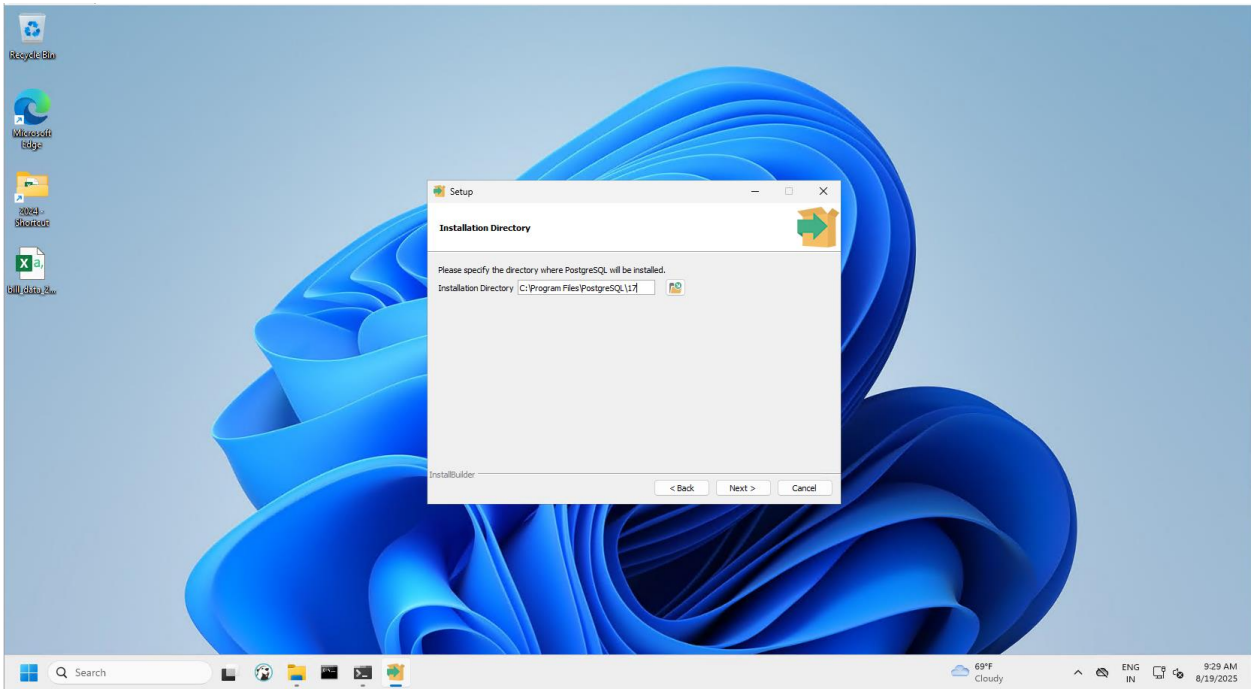
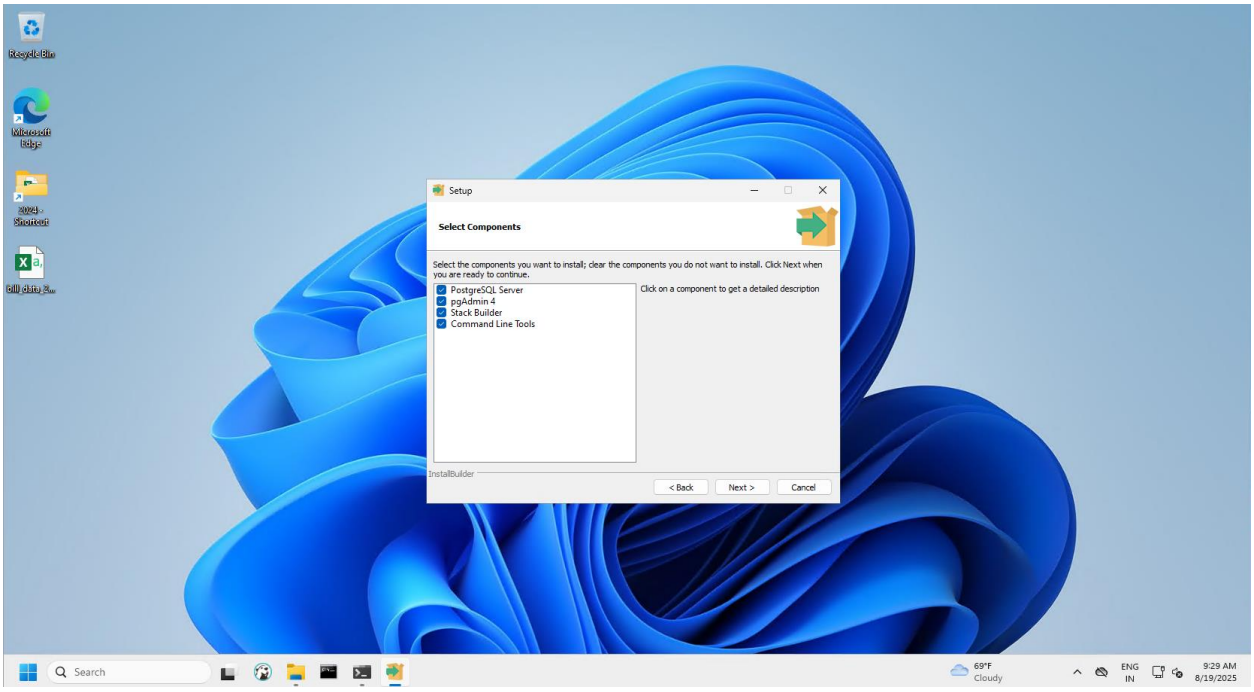
Module 12: Building Database Apps with PostgreSQL & Python

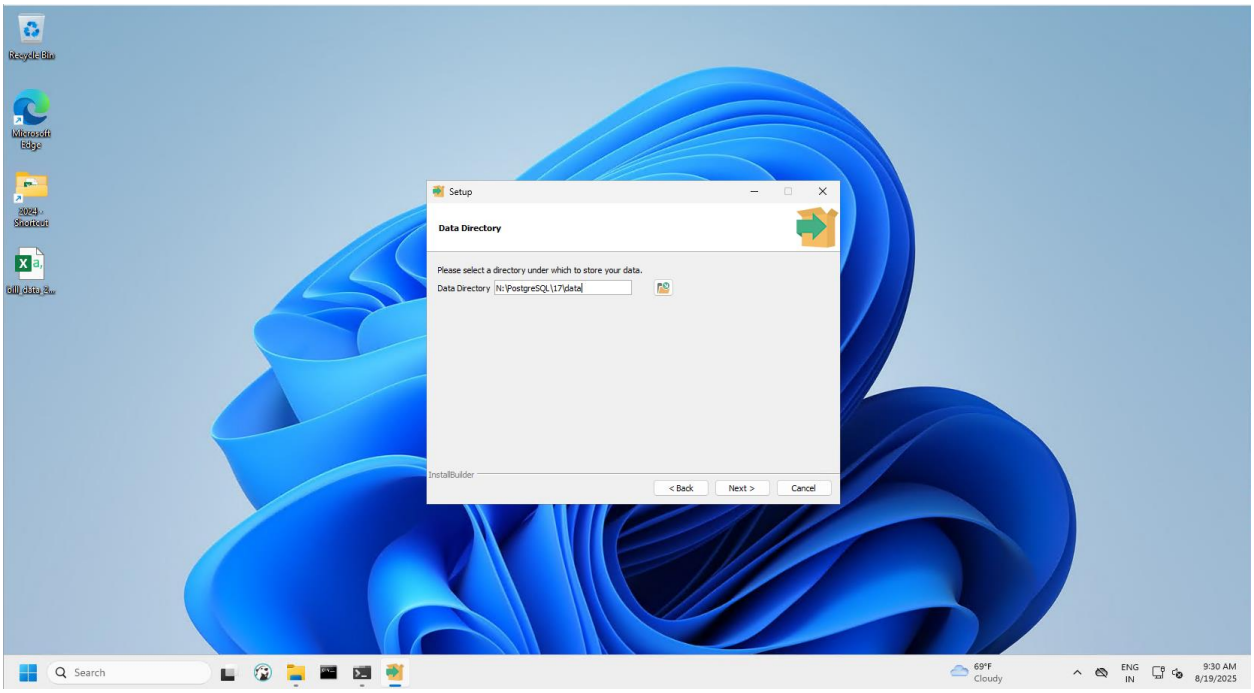
Contents

Installing PostgreSQL






Recycle Bin
Microsoft Edge
2023 - Shortcut
Bill data_Su...
Setup
Select Components
Select the components you want to install; clear the components you do not want to install. Click Next when you are ready to continue.
PostgreSQL Server
pgAdmin 4
Stack Builder
Command Line Tools
Click on a component to get a detailed description
InstallBuilder
< Back
Next >
Cancel
Search
69°F
Cloudy
ENG
IN
9:29 AM
8/19/2025


Recycle Bin
Microsoft Edge
2023 - Shortcut
Bill data_Su...
Setup
Data Directory
Please select a directory under which to store your data.
Data Directory N:\PostgreSQL\17\data
InstallBuilder
< Back
Next >
Cancel
Search
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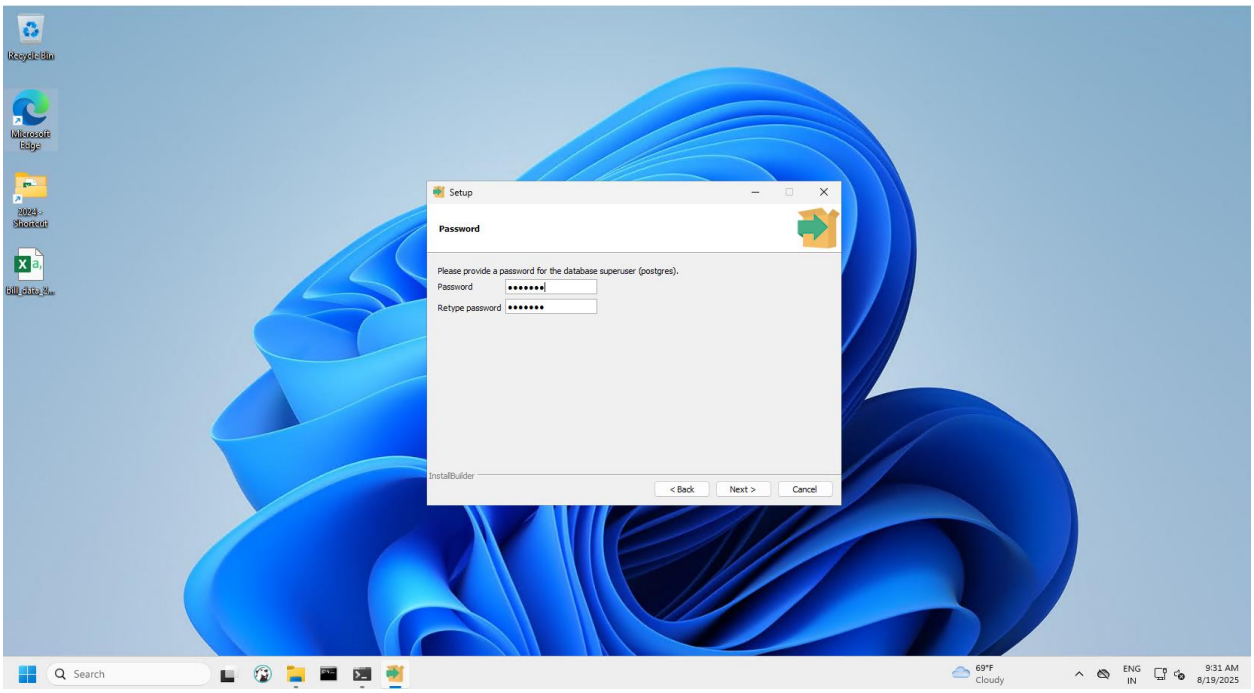
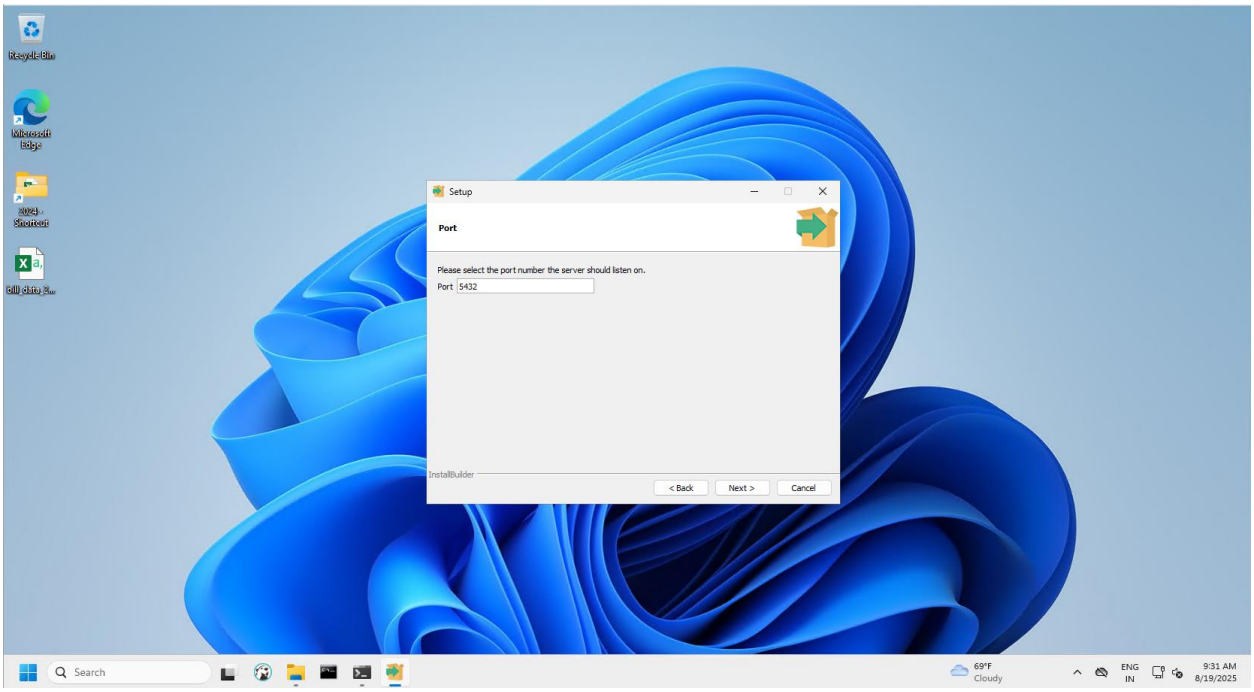

Recycle Bin
Microsoft Edge
2024 - Shortcut
Bill chitu a...
Setup
Password
Please provide a password for the database superuser (postgres).
Password
Retype password
InstallBuilder
< Back
Next >
Cancel
Search
69°F
Cloudy
ENG
IN
9:31 AM
8/19/2025


Recycle Bin
Microsoft Edge
2024 - Shortcut
Bill chitu a...
Setup
Port
Please select the port number the server should listen on.
Port
5432
InstallBuilder
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Next >
Cancel
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69°F
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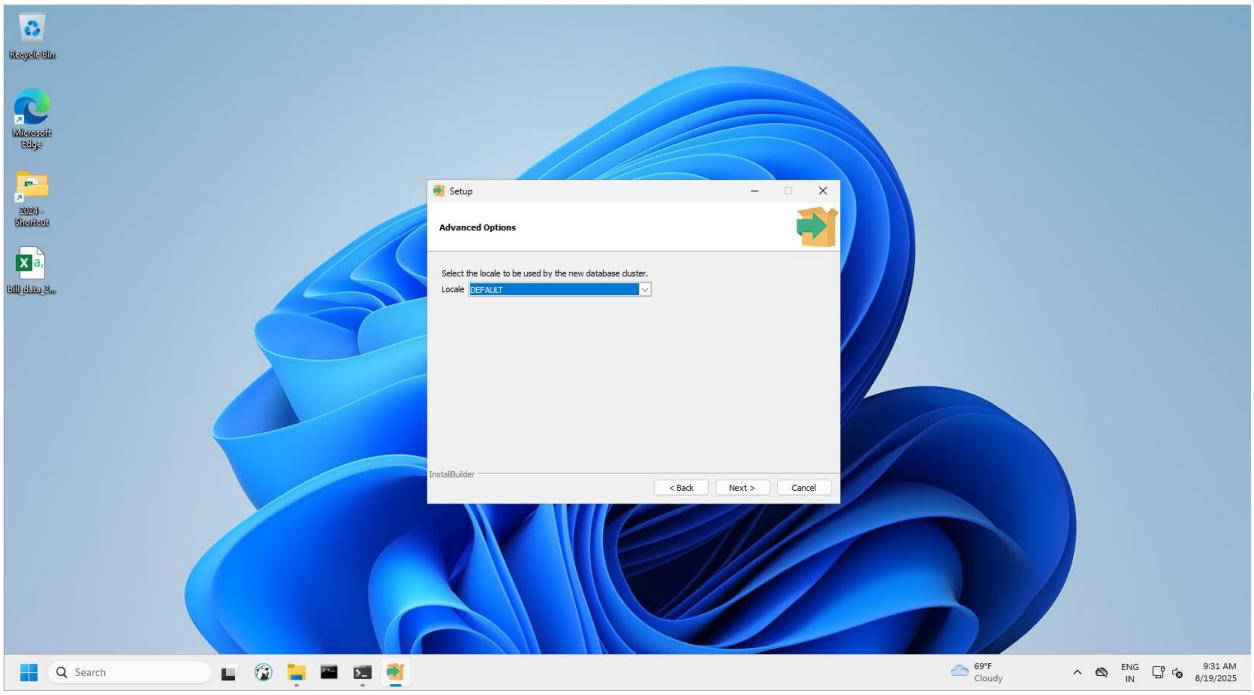
8/19/2025


Recycle Bin
Microsoft Edge
2023 - Shortcut
Bill data 2...
Setup
Advanced Options
Select the locale to be used by the new database cluster.
Locale DEFAULT
InstallBuilder
< Back
Next >
Cancel
Search
69°F
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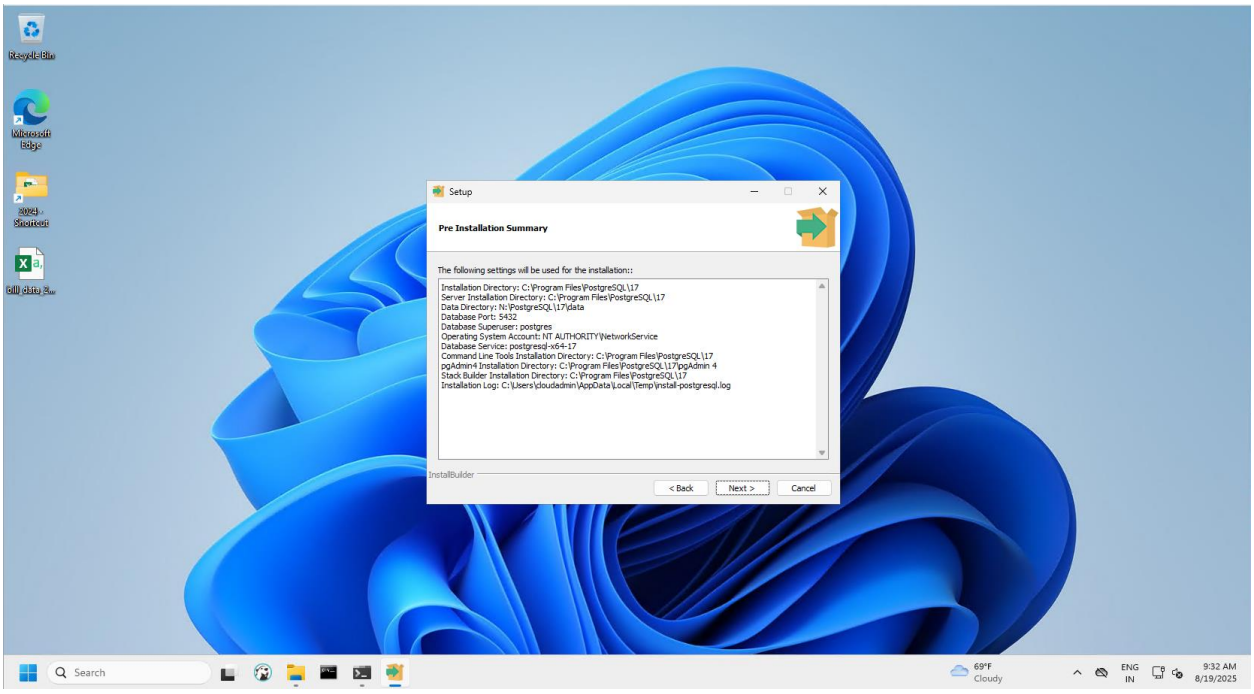
Recycle Bin
Microsoft Edge
2023 - Shortcut
Bill data 2...
Setup
Pre Installation Summary
The following settings will be used for the installation::
Installation Directory: C:\Program Files\PostgreSQL\17
Server Installation Directory: C:\Program Files\PostgreSQL\17
Data Directory: N:\PostgreSQL\17\data
Database Port: 5432
Database Superuser: postgres
Operating System Account: NT AUTHORITY\NetworkService
Database Service: postgresql-x64-17
Command Line Tools Installation Directory: C:\Program Files\PostgreSQL\17
pgAdmin4 Installation Directory: C:\Program Files\PostgreSQL\17\pgAdmin 4
Stack Builder Installation Directory: C:\Program Files\PostgreSQL\17
Installation Log: C:\Users\cloudadmin\AppData\Local\Temp\install-postgresql.log
InstallBuilder
< Back
Next >
Cancel
Search
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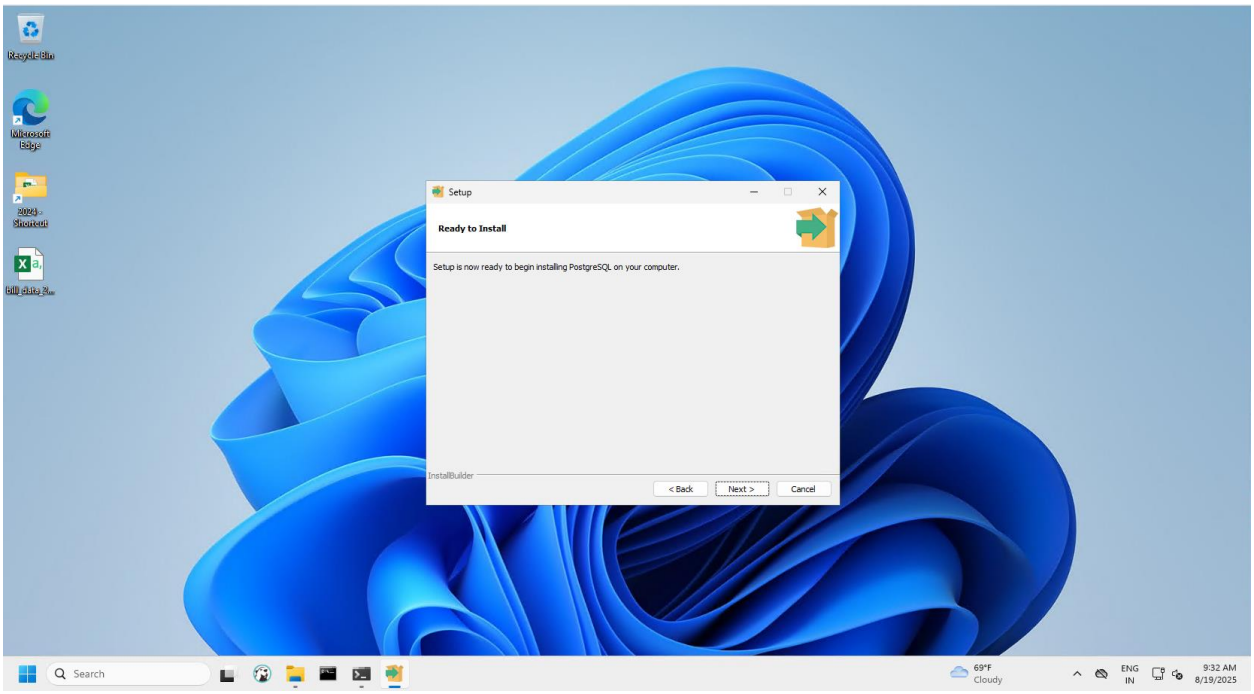
8/19/2025


Recycle Bin
Microsoft Edge
2024 - Shortcut
Bill data 2...
Setup
Ready to Install
Setup is now ready to begin installing PostgreSQL on your computer.
InstallBuilder
< Back
Next >
Cancel
Search
69°F
Cloudy
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IN
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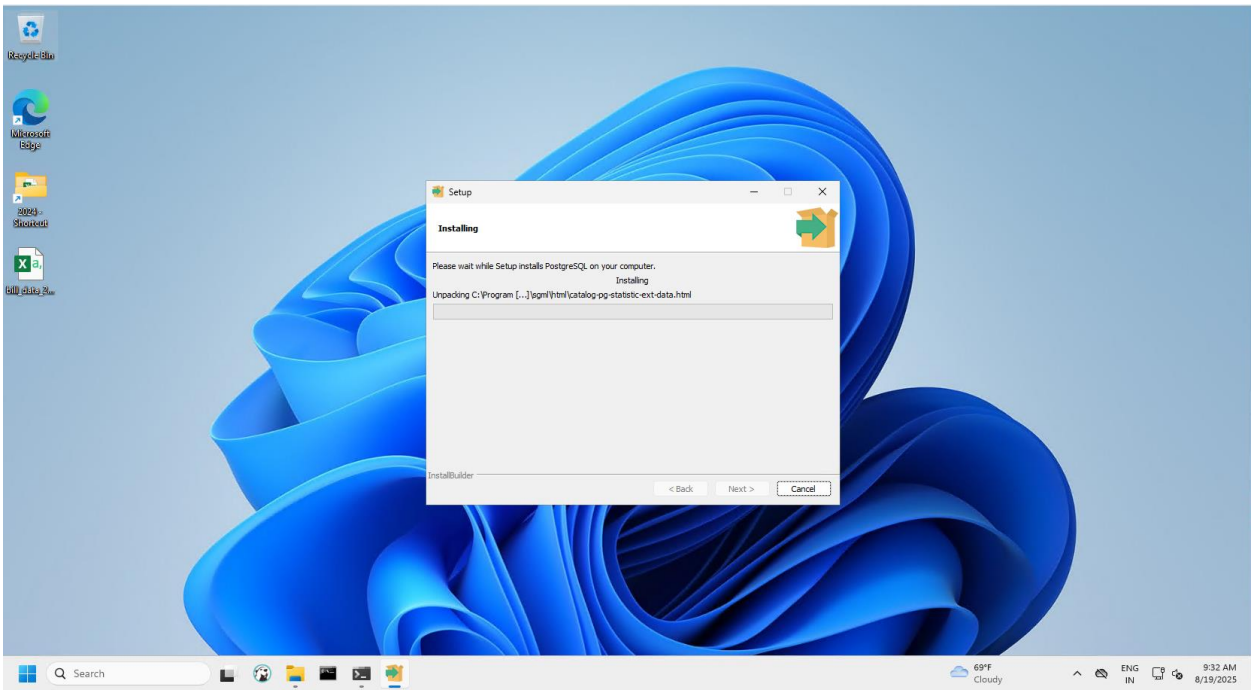
8/19/2025


Recycle Bin
Microsoft Edge
2024 - Shortcut
Bill data 2...
Setup
Installing
Please wait while Setup installs PostgreSQL on your computer.
Installing
Unpacking C:\Program [...]\sgml\html\catalog-pg-statistic-ext-data.html
InstallBuilder
< Back
Next >
Cancel
Search
69°F
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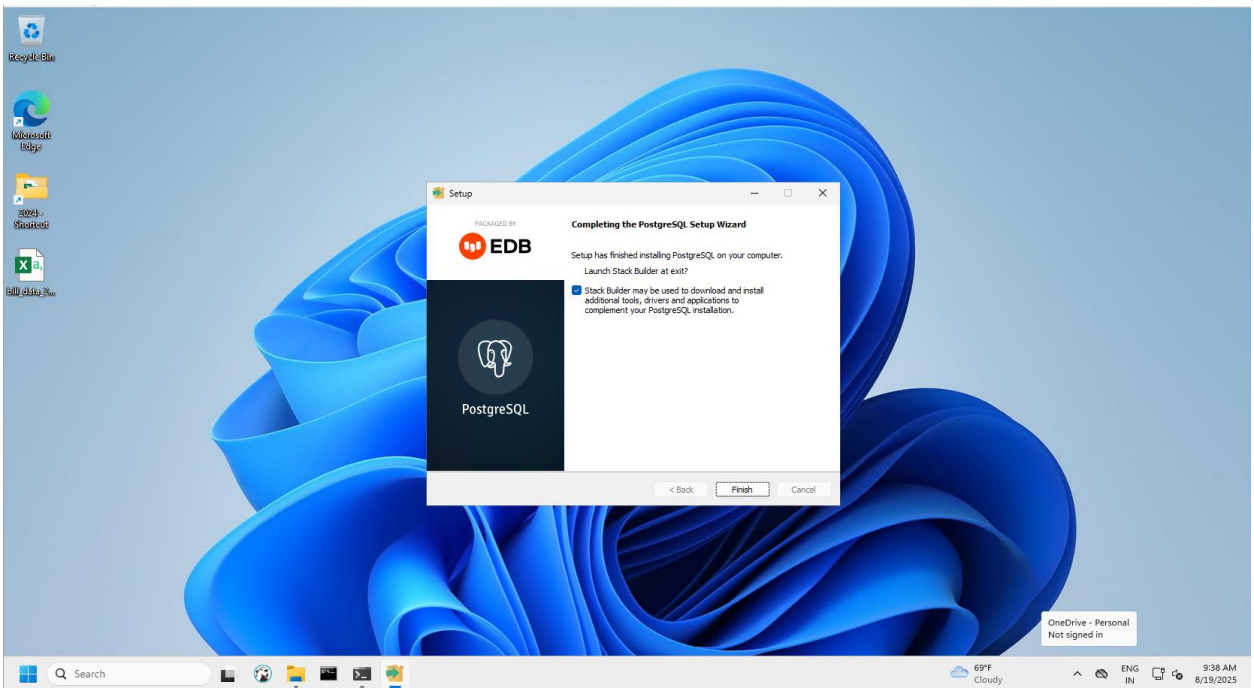
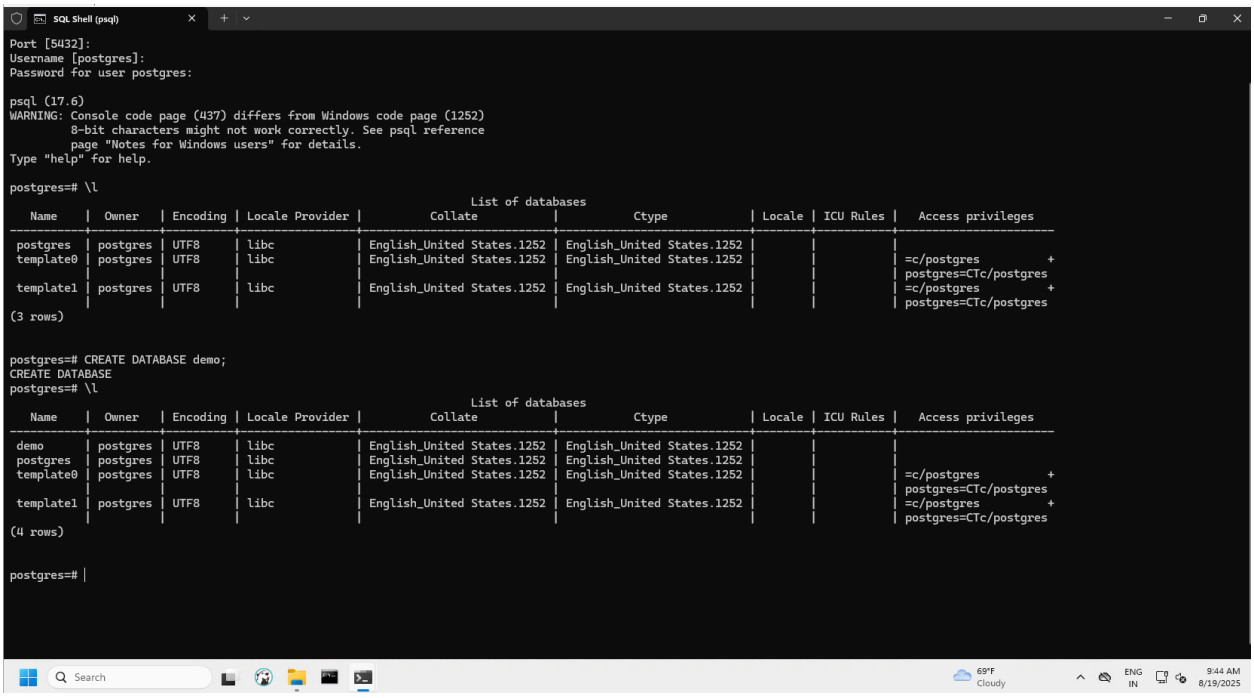
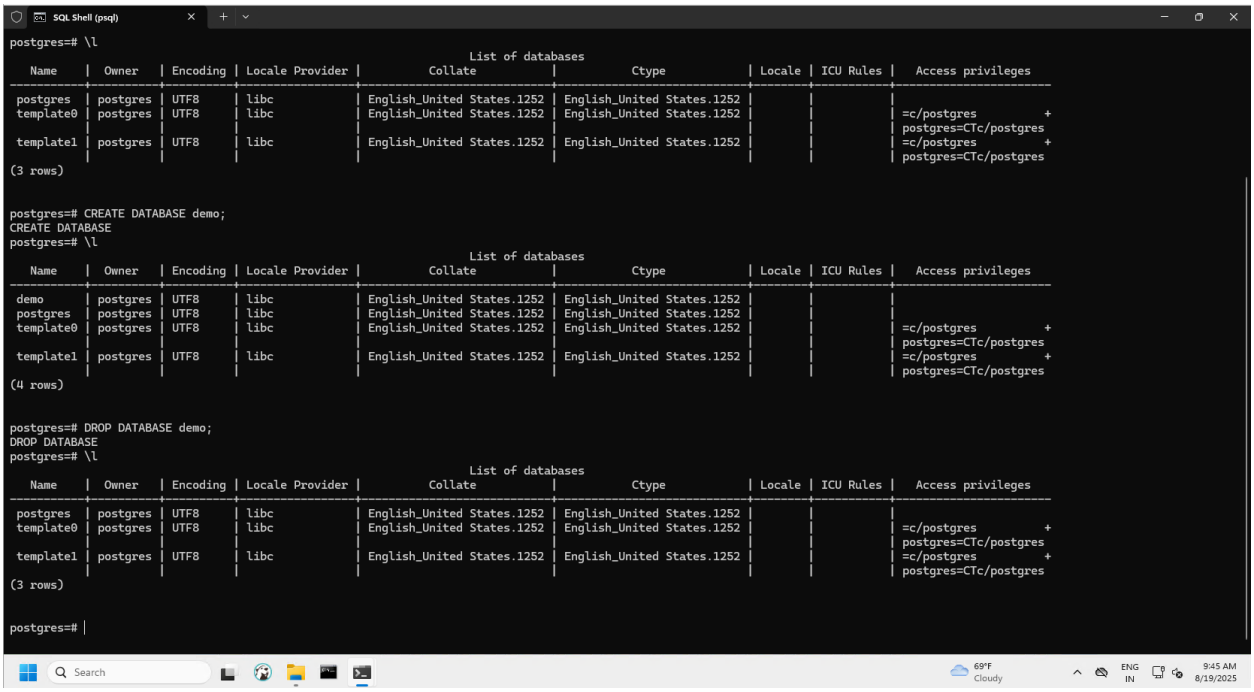
8/19/2025



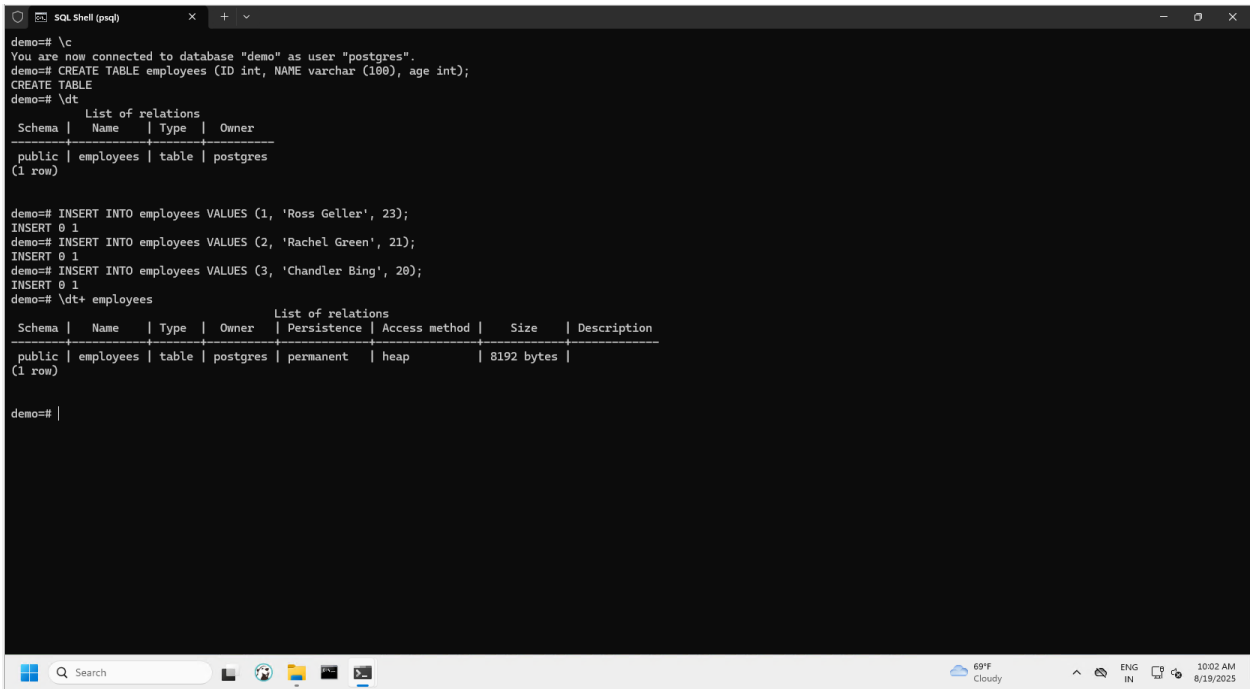
Creating a database



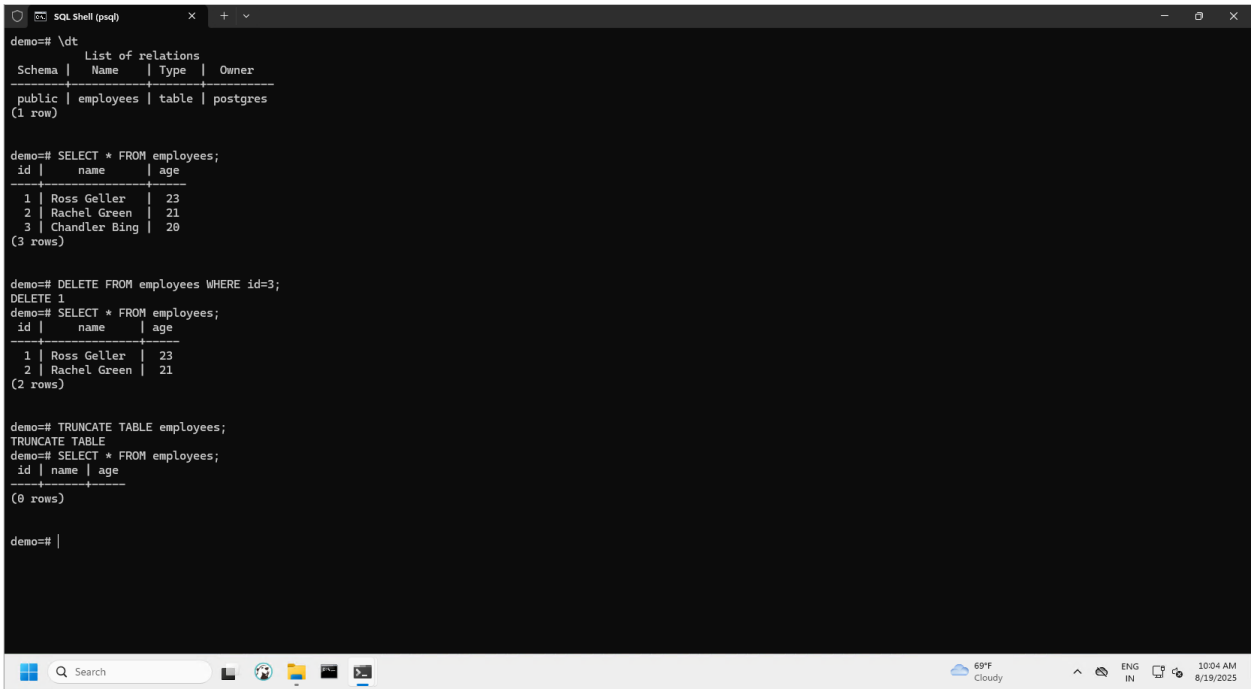
Deleting a database



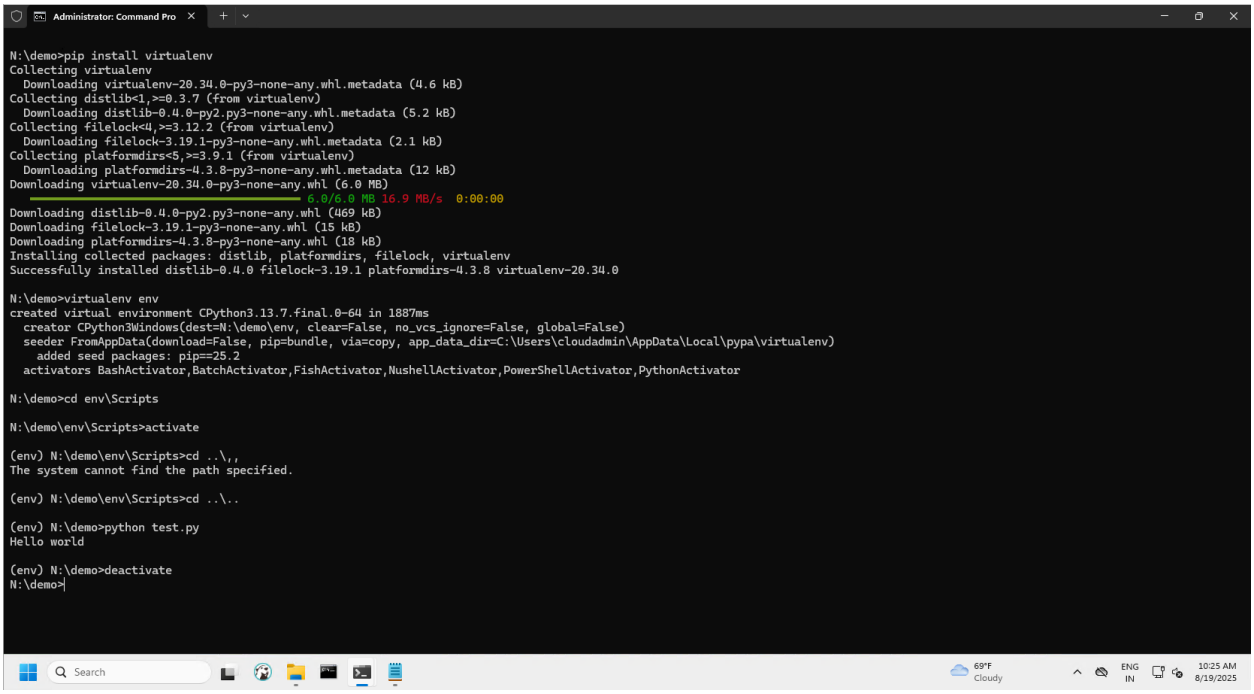
Creating a table and adding data



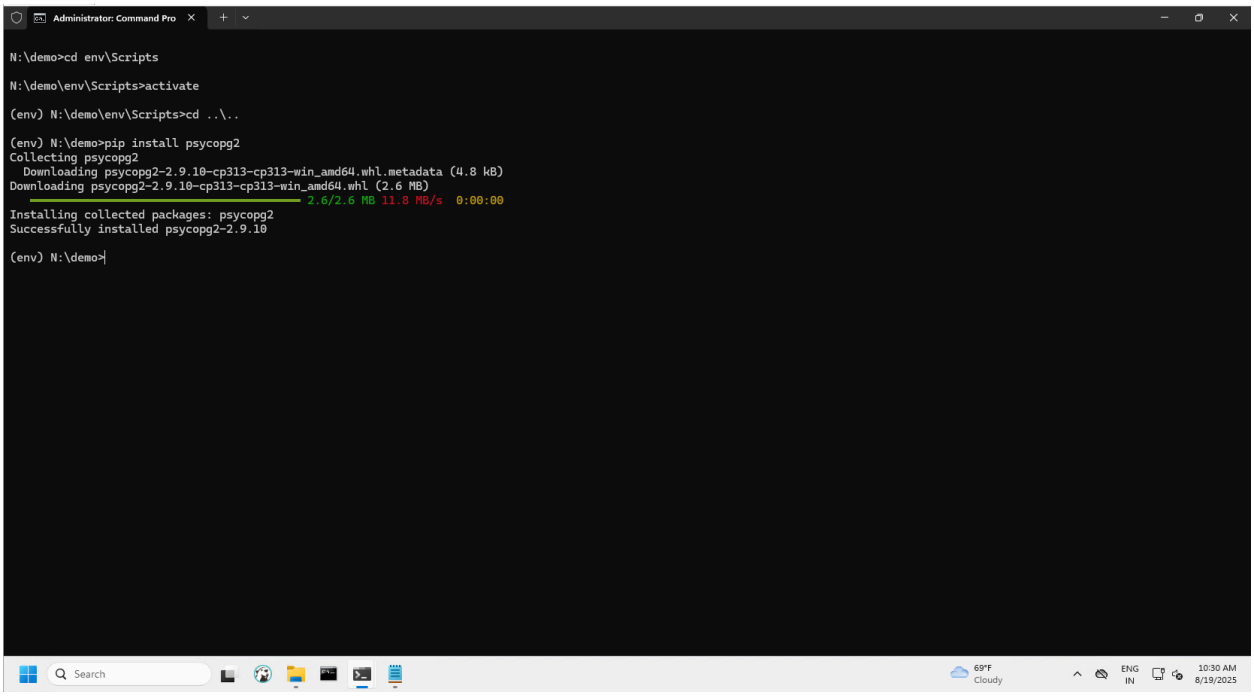
Retrieving data from the database and deleting the contents in the table



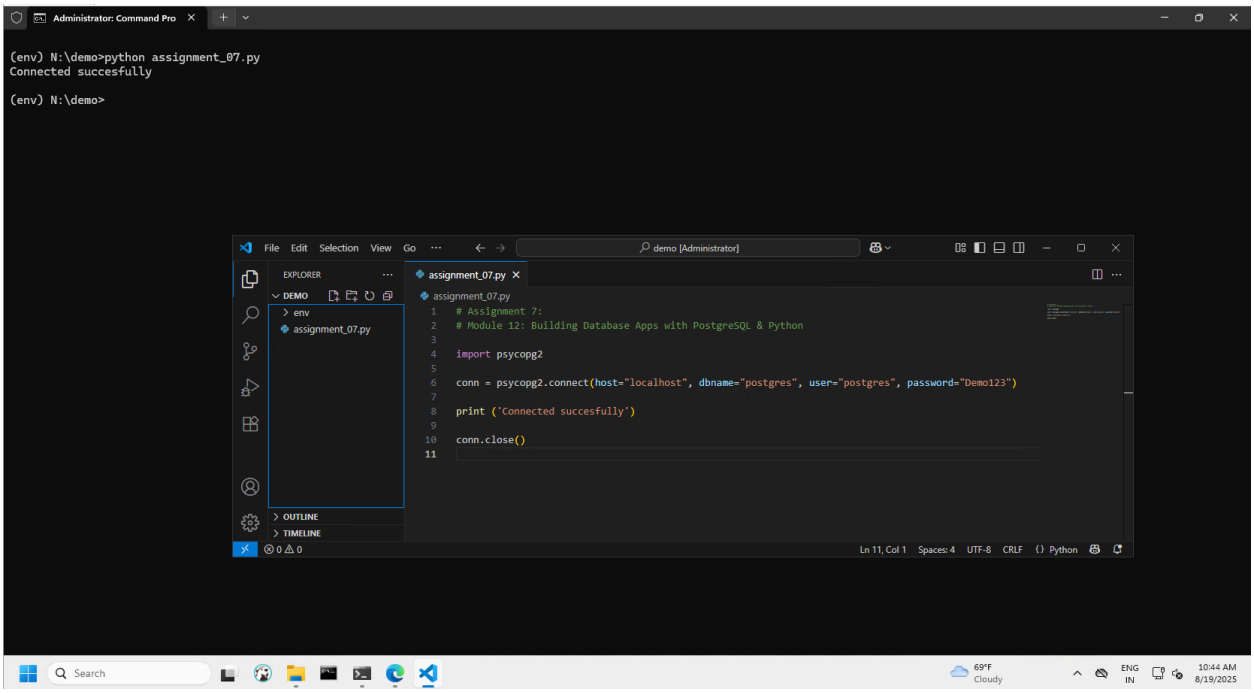
Setting up *virtualenv*



Installing *psycopg2*



Connecting to the database



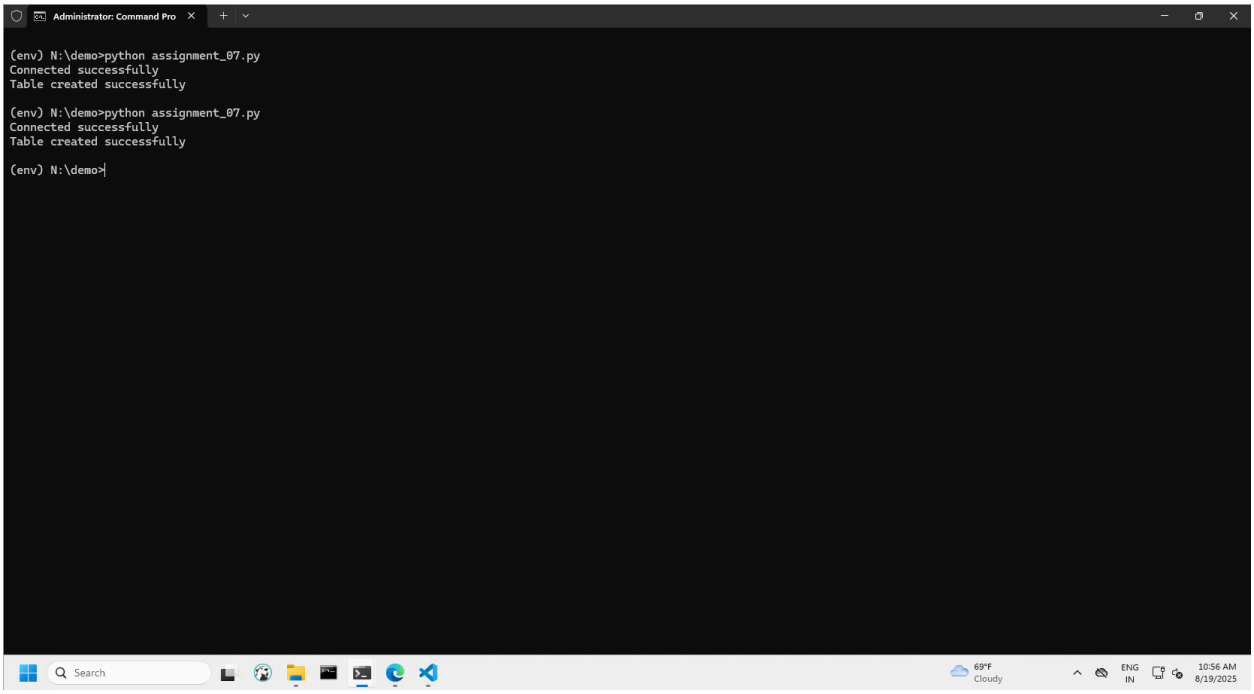
Creating table using Python

Python code

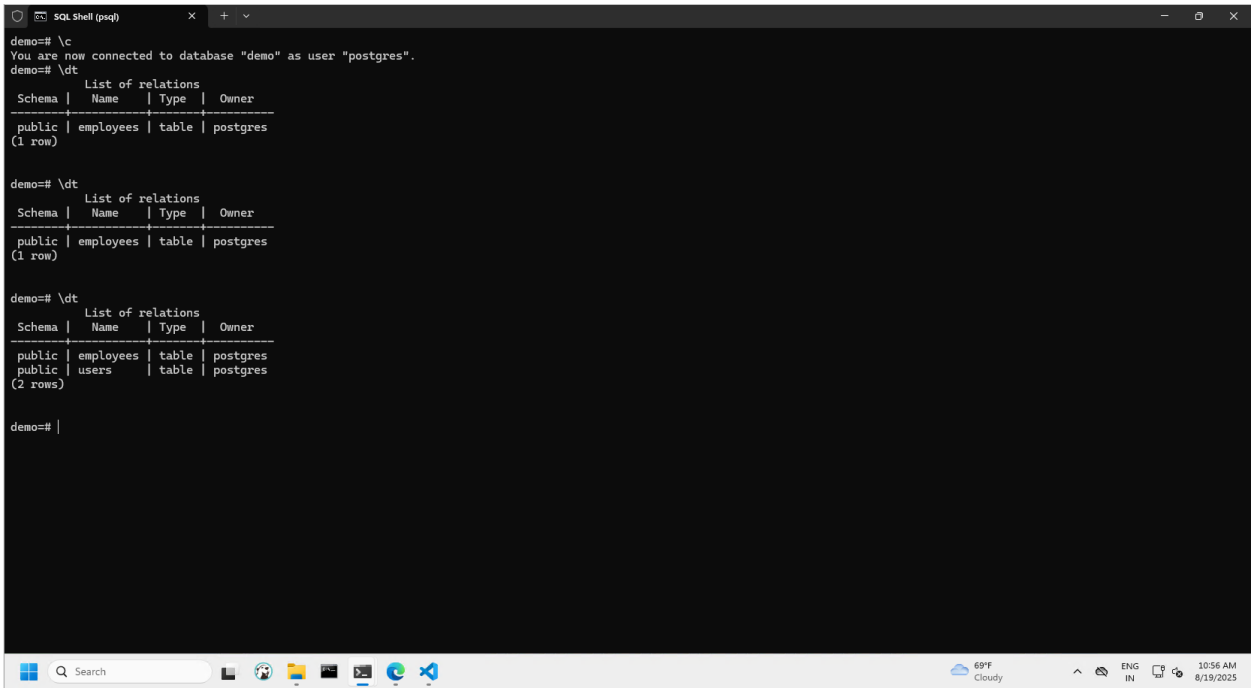
assignment_07.py

```python
# Assignment 7:
# Module 12: Building Database Apps with PostgreSQL & Python

import psycopg2

conn = psycopg2.connect(host="localhost", dbname="demo", user="postgres", password="Demo123", port="5432")
print ('Connected successfully')

cursor = conn.cursor()
cursor.execute('''CREATE TABLE users (ID int, NAME varchar (100), location varchar(100));''')

print ('Table created successfully')

conn.commit()
conn.close()

```

Python execution



Psql console



Inserting the data using Python, extracting the data from the database and adding the input from the user

Source code: **assignment_07.py**