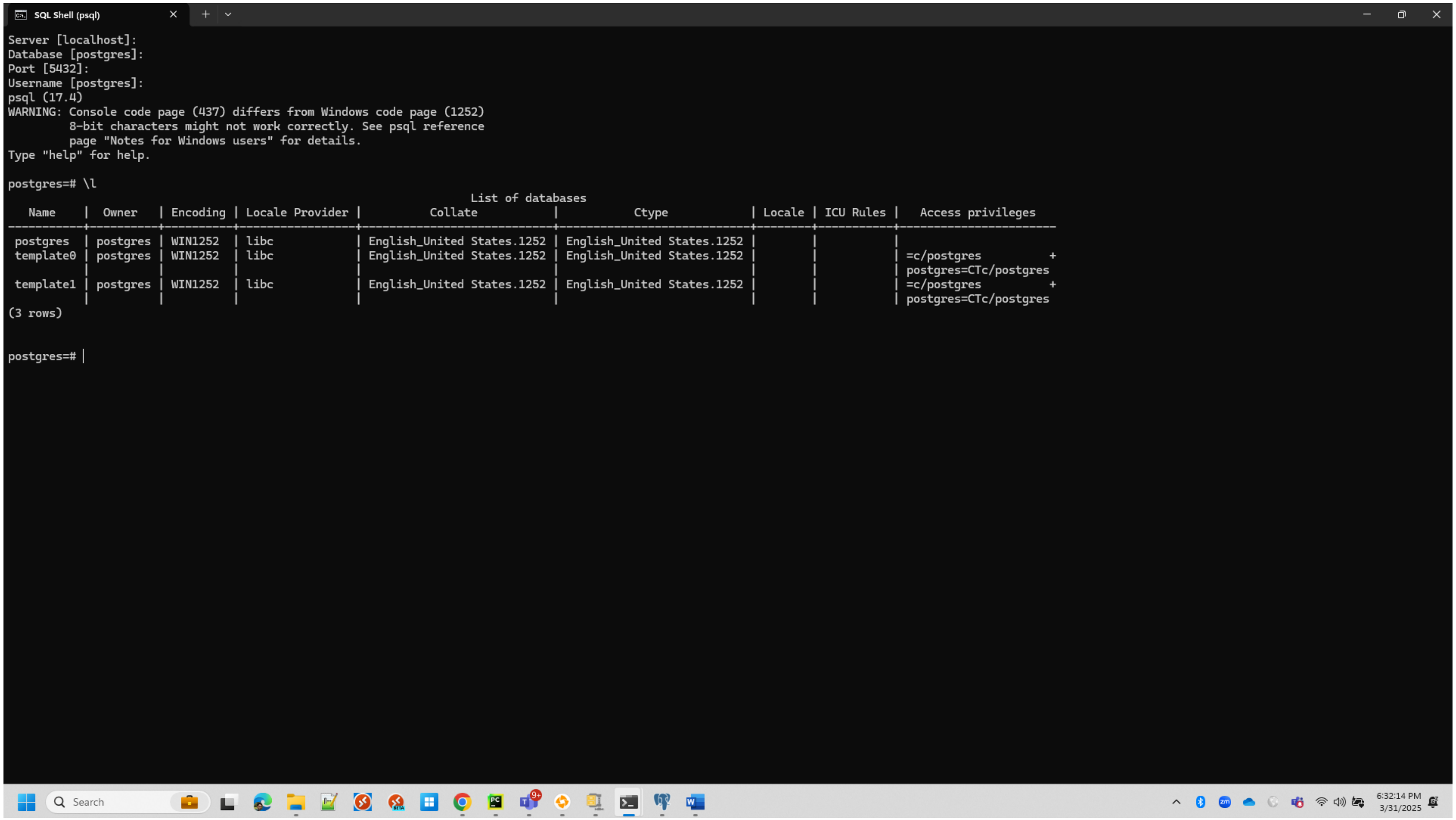
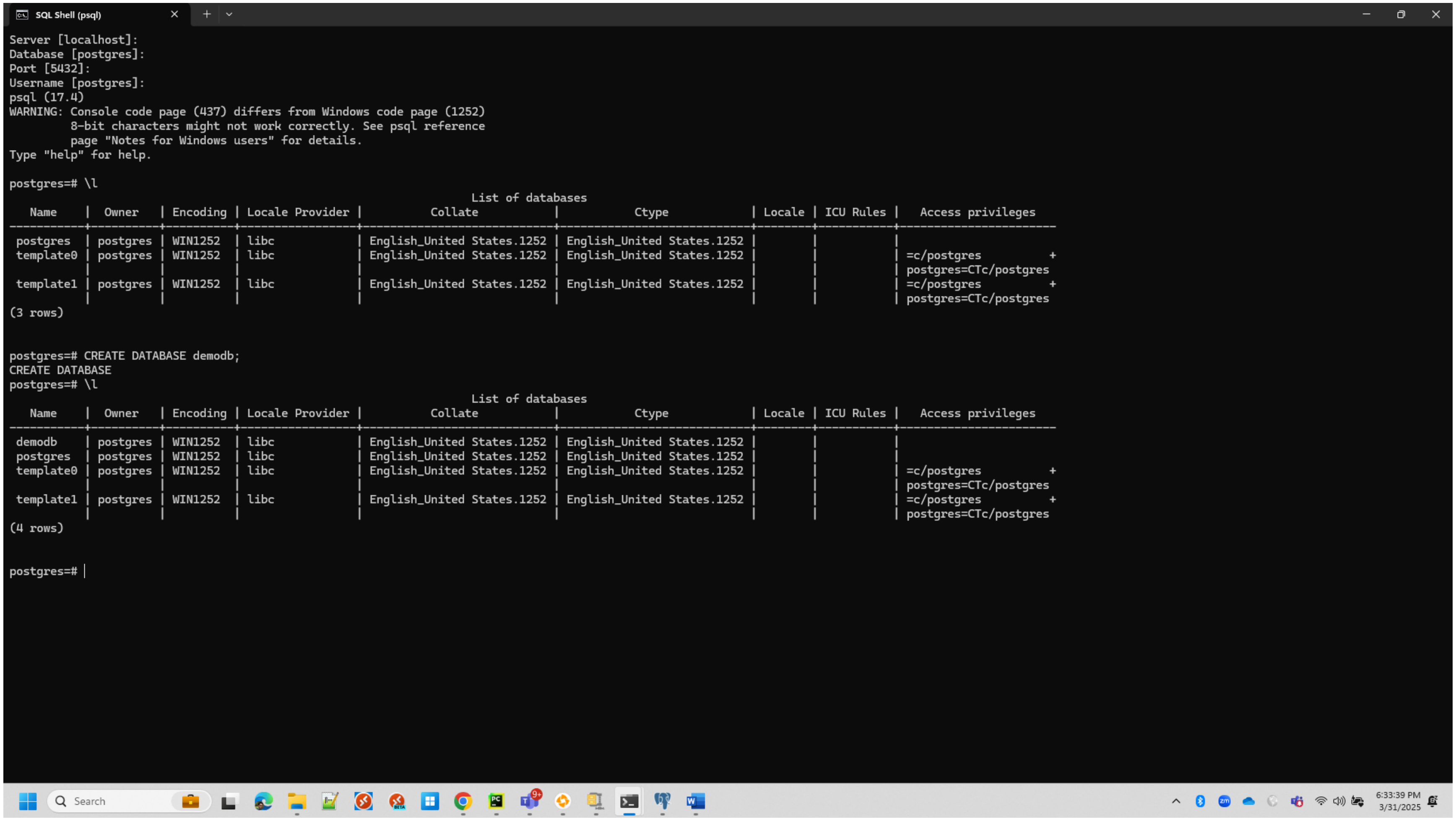
1- Find available databases using “\l” command



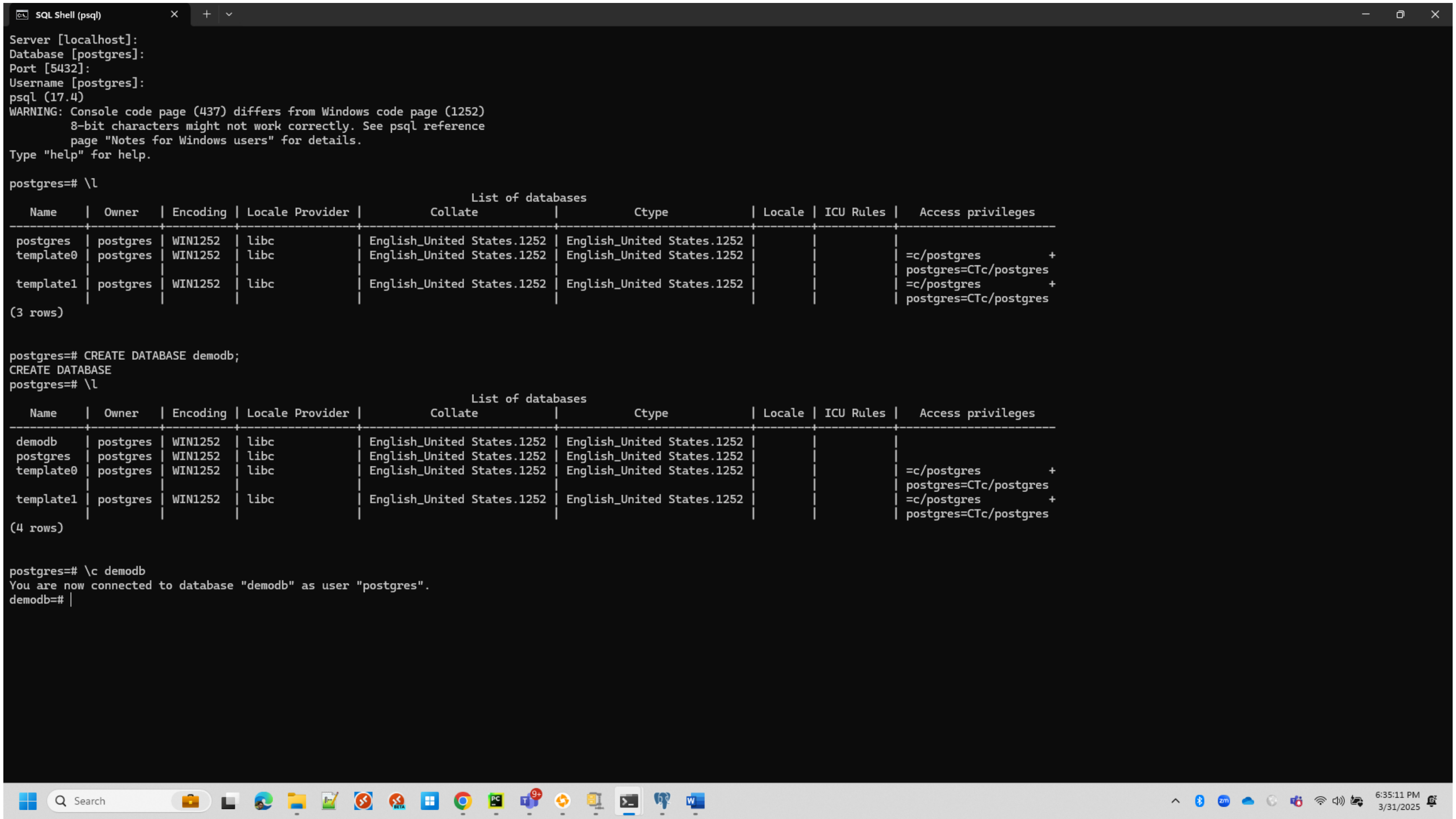
```
Server [localhost]:
Database [postgres]:
Port [5432]:
Username [postgres]:
psql (17.4)
WARNING: Console code page (437) differs from Windows code page (1252)
         8-bit characters might not work correctly. See psql reference
         page "Notes for Windows users" for details.
Type "help" for help.

postgres=# \l
                                                                    List of databases
   Name    |  Owner   | Encoding | Locale Provider |          Collate           |           Ctype            | Locale | ICU Rules |   Access privileges
-----------+----------+----------+-----------------+----------------------------+----------------------------+--------+-----------+-----------------------
 postgres  | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
 template0 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                            |                            |        |           | postgres=CTc/postgres
 template1 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                            |                            |        |           | postgres=CTc/postgres
(3 rows)


postgres=# |
```

2- Create new database using command "CREATE DATABASE demodb;"



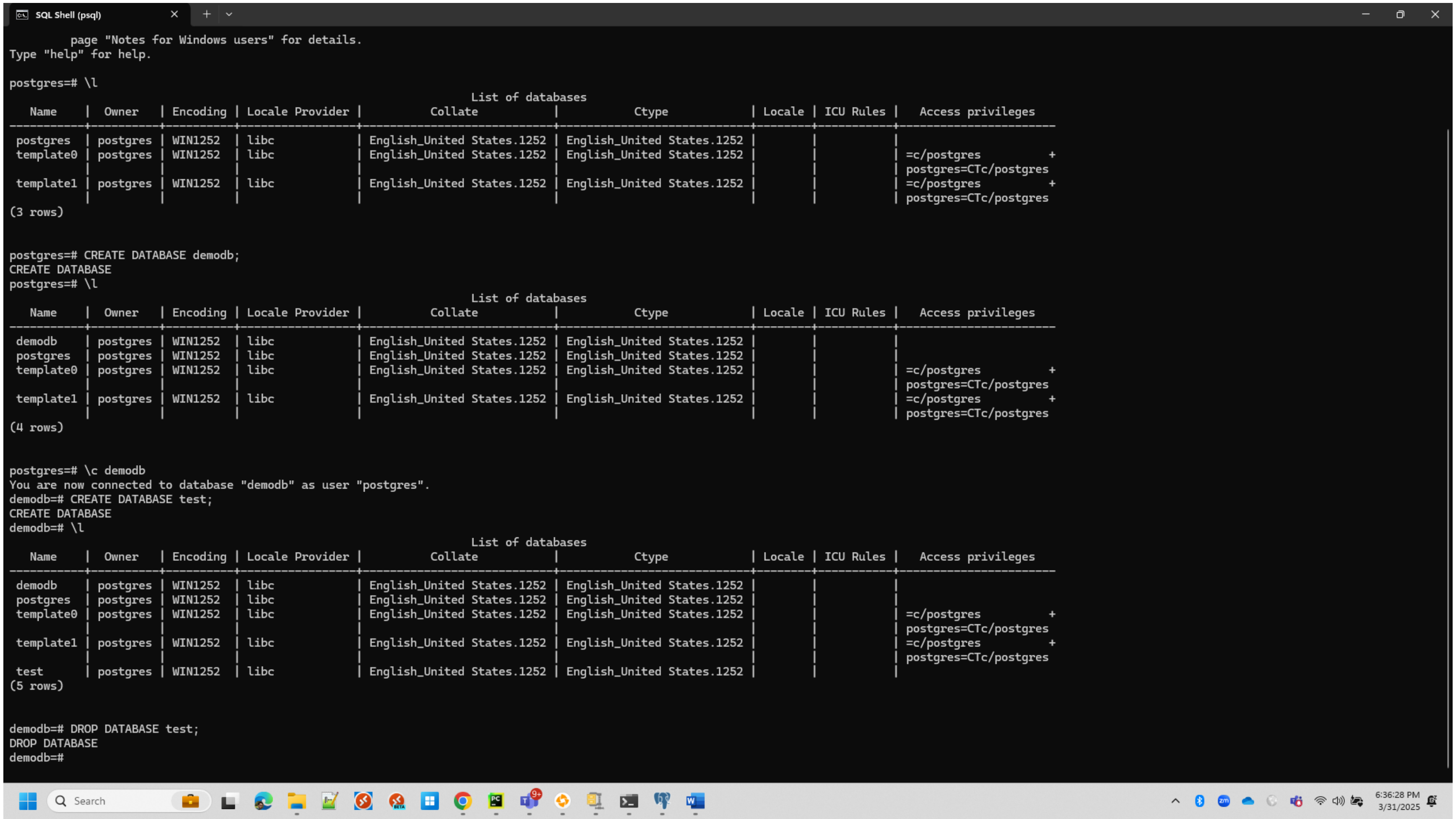
```
Server [localhost]:
Database [postgres]:
Port [5432]:
Username [postgres]:
psql (17.4)
WARNING: Console code page (437) differs from Windows code page (1252)
         8-bit characters might not work correctly. See psql reference
         page "Notes for Windows users" for details.
Type "help" for help.

postgres=# \l
                                                     List of databases
   Name    |  Owner   | Encoding | Locale Provider |          Collate           |           Ctype            | Locale | ICU Rules |   Access privileges
-----------+----------+----------+-----------------+----------------------------+----------------------------+--------+-----------+-----------------------
 postgres  | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
 template0 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                            |                            |        |           | postgres=CTc/postgres
 template1 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                            |                            |        |           | postgres=CTc/postgres
(3 rows)


postgres=# CREATE DATABASE demodb;
CREATE DATABASE
postgres=# \l
                                                     List of databases
   Name    |  Owner   | Encoding | Locale Provider |          Collate           |           Ctype            | Locale | ICU Rules |   Access privileges
-----------+----------+----------+-----------------+----------------------------+----------------------------+--------+-----------+-----------------------
 demodb    | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
 postgres  | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
 template0 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                            |                            |        |           | postgres=CTc/postgres
 template1 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                            |                            |        |           | postgres=CTc/postgres
(4 rows)


postgres=# |
```

3- Connect to the new database using command "\c demodb"



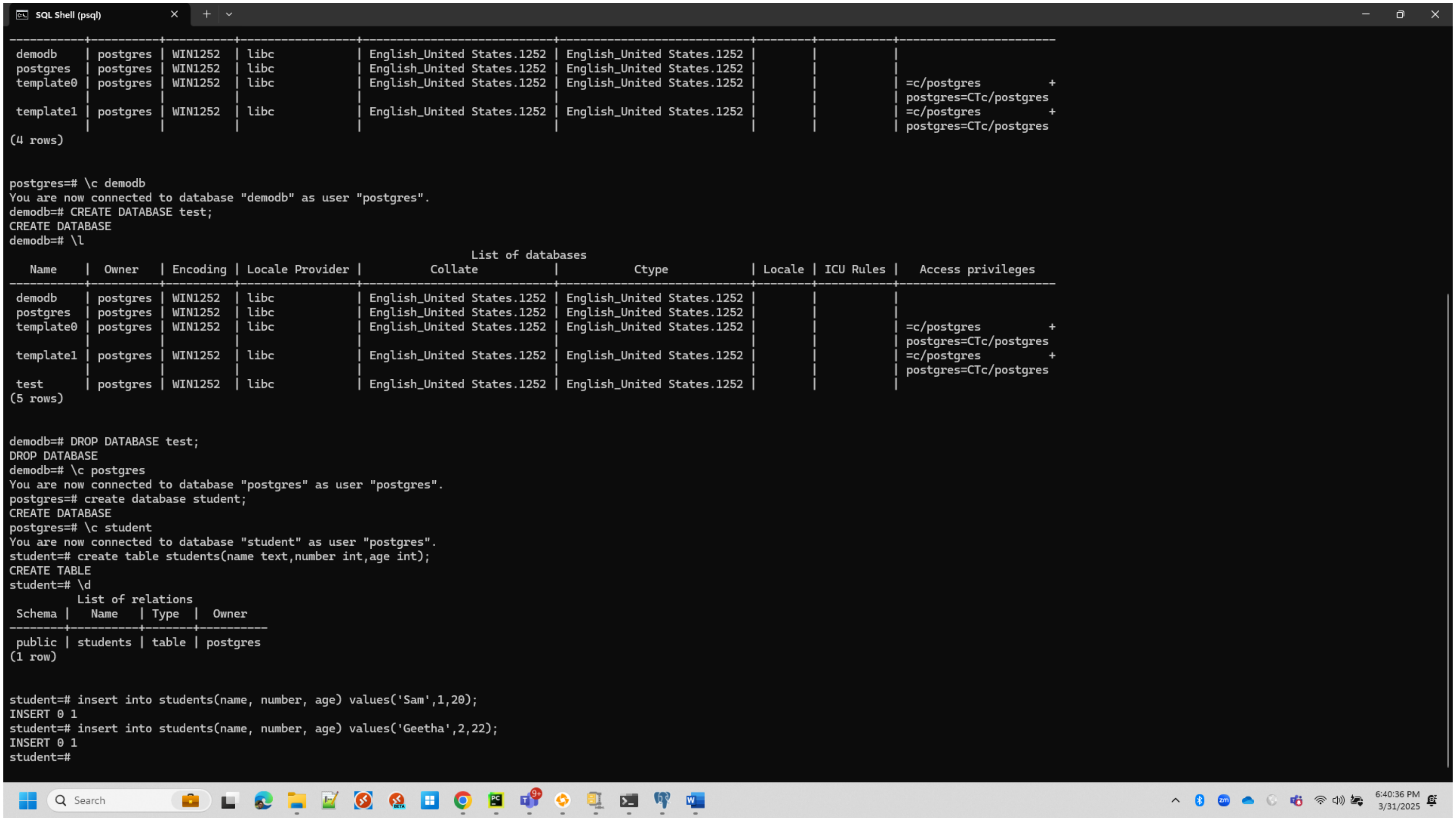
```
Server [localhost]:
Database [postgres]:
Port [5432]:
Username [postgres]:
psql (17.4)
WARNING: Console code page (437) differs from Windows code page (1252)
         8-bit characters might not work correctly. See psql reference
         page "Notes for Windows users" for details.
Type "help" for help.

postgres=# \l
                                                                 List of databases
   Name    |  Owner   | Encoding | Locale Provider |          Collate           |           Ctype            | Locale | ICU Rules |   Access privileges
-----------+----------+----------+-----------------+----------------------------+----------------------------+--------+-----------+-----------------------
 postgres  | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
 template0 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                            |                            |        |           | postgres=CTc/postgres
 template1 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                            |                            |        |           | postgres=CTc/postgres
(3 rows)


postgres=# CREATE DATABASE demodb;
CREATE DATABASE
postgres=# \l
                                                                 List of databases
   Name    |  Owner   | Encoding | Locale Provider |          Collate           |           Ctype            | Locale | ICU Rules |   Access privileges
-----------+----------+----------+-----------------+----------------------------+----------------------------+--------+-----------+-----------------------
 demodb    | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
 postgres  | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
 template0 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                            |                            |        |           | postgres=CTc/postgres
 template1 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                            |                            |        |           | postgres=CTc/postgres
(4 rows)


postgres=# \c demodb
You are now connected to database "demodb" as user "postgres".
demodb=#
```

4- Drop database using command “DROP DATABASE test”



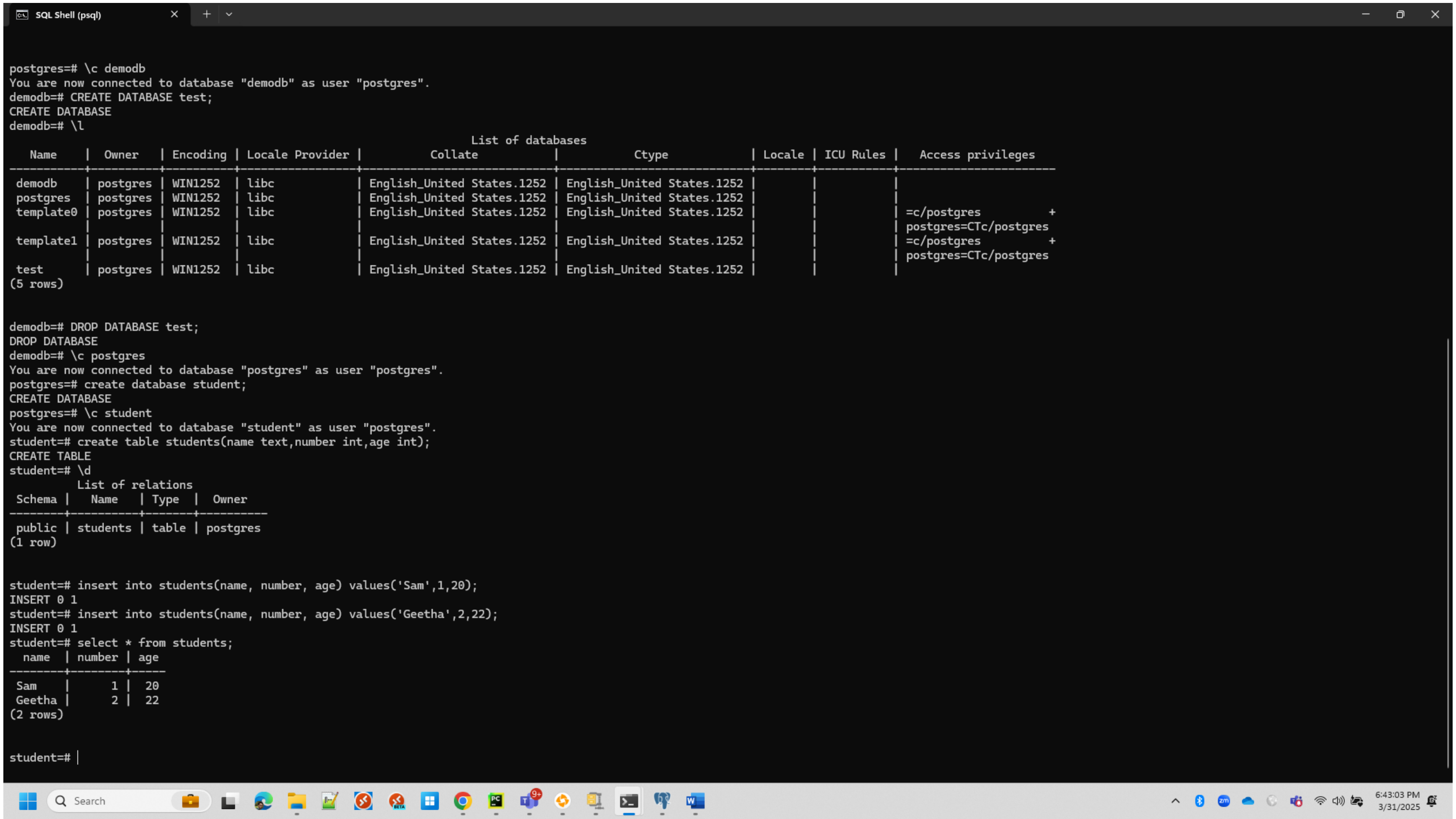
```
         page "Notes for Windows users" for details.
Type "help" for help.

postgres=# \l
                                                                   List of databases
   Name    |  Owner   | Encoding | Locale Provider |          Collate           |           Ctype            | Locale | ICU Rules |   Access privileges
-----------+----------+----------+-----------------+----------------------------+----------------------------+--------+-----------+-----------------------
 postgres  | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
 template0 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                            |                            |        |           | postgres=CTc/postgres
 template1 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                            |                            |        |           | postgres=CTc/postgres
(3 rows)


postgres=# CREATE DATABASE demodb;
CREATE DATABASE
postgres=# \l
                                                                   List of databases
   Name    |  Owner   | Encoding | Locale Provider |          Collate           |           Ctype            | Locale | ICU Rules |   Access privileges
-----------+----------+----------+-----------------+----------------------------+----------------------------+--------+-----------+-----------------------
 demodb    | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
 postgres  | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
 template0 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                            |                            |        |           | postgres=CTc/postgres
 template1 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                            |                            |        |           | postgres=CTc/postgres
(4 rows)


postgres=# \c demodb
You are now connected to database "demodb" as user "postgres".
demodb=# CREATE DATABASE test;
CREATE DATABASE
demodb=# \l
                                                                   List of databases
   Name    |  Owner   | Encoding | Locale Provider |          Collate           |           Ctype            | Locale | ICU Rules |   Access privileges
-----------+----------+----------+-----------------+----------------------------+----------------------------+--------+-----------+-----------------------
 demodb    | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
 postgres  | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
 template0 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                            |                            |        |           | postgres=CTc/postgres
 template1 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                            |                            |        |           | postgres=CTc/postgres
 test      | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
(5 rows)


demodb=# DROP DATABASE test;
DROP DATABASE
demodb=#
```

5- Creating table and adding data to it.
Command “CREATE TABLE students(name, number, age);
Command “INSERT INTO students(name. number, age) VALUES(‘Sam’,1,20);



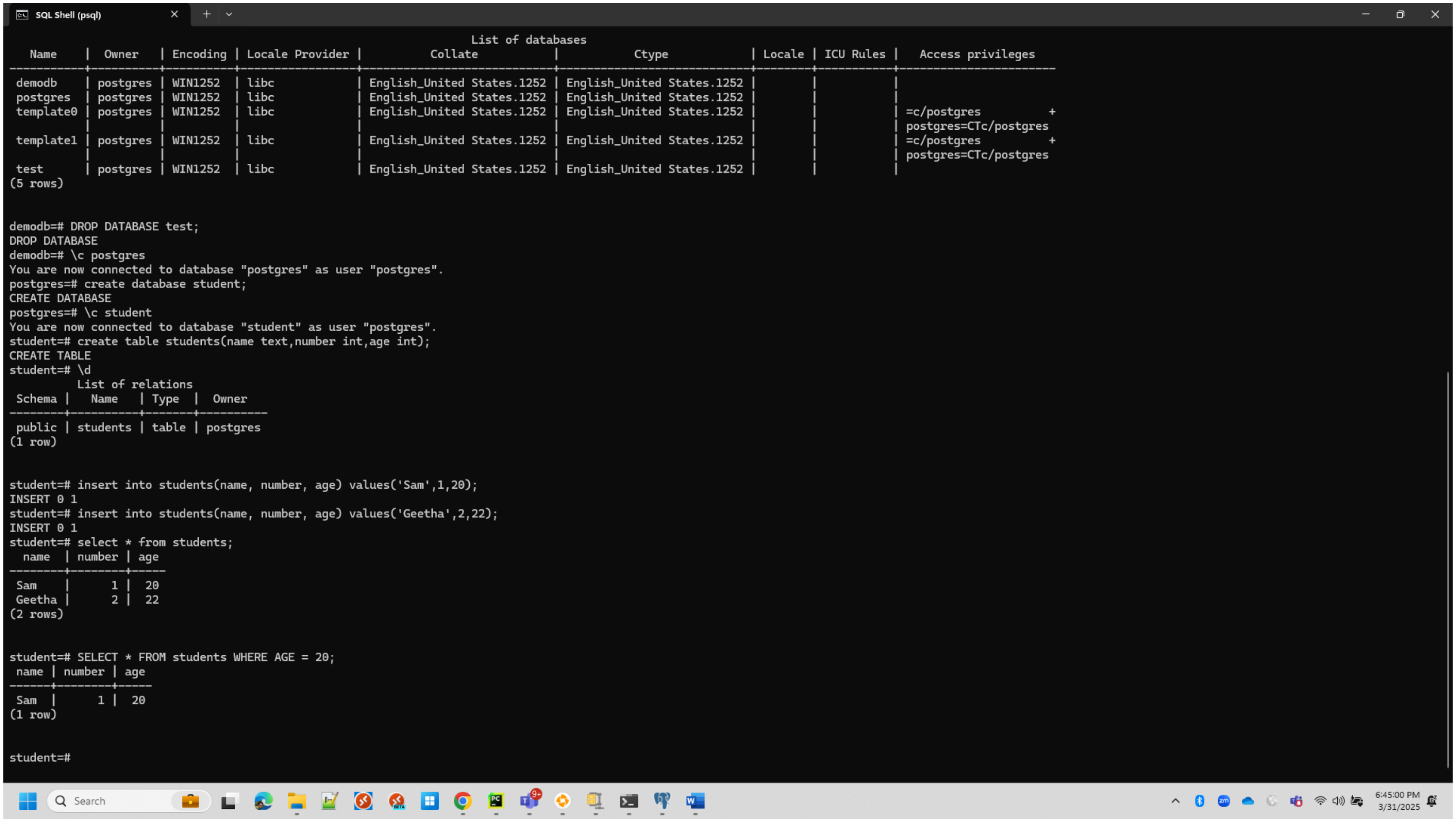
```
-----------+----------+----------+-----------------+-----------------------------+-----------------------------+--------+-----------+-----------------------
 demodb    | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
 postgres  | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
 template0 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                             |                             |        |           | postgres=CTc/postgres
 template1 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                             |                             |        |           | postgres=CTc/postgres
(4 rows)


postgres=# \c demodb
You are now connected to database "demodb" as user "postgres".
demodb=# CREATE DATABASE test;
CREATE DATABASE
demodb=# \l
                                                                 List of databases
   Name    |  Owner   | Encoding | Locale Provider |          Collate           |           Ctype            | Locale | ICU Rules |   Access privileges
-----------+----------+----------+-----------------+-----------------------------+-----------------------------+--------+-----------+-----------------------
 demodb    | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
 postgres  | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
 template0 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                             |                             |        |           | postgres=CTc/postgres
 template1 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                             |                             |        |           | postgres=CTc/postgres
 test      | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
(5 rows)


demodb=# DROP DATABASE test;
DROP DATABASE
demodb=# \c postgres
You are now connected to database "postgres" as user "postgres".
postgres=# create database student;
CREATE DATABASE
postgres=# \c student
You are now connected to database "student" as user "postgres".
student=# create table students(name text,number int,age int);
CREATE TABLE
student=# \d
          List of relations
 Schema |   Name   | Type  |  Owner
--------+----------+-------+----------
 public | students | table | postgres
(1 row)


student=# insert into students(name, number, age) values('Sam',1,20);
INSERT 0 1
student=# insert into students(name, number, age) values('Geetha',2,22);
INSERT 0 1
student=#
```

6- Select the data from table using command “SELECT * FROM students;”



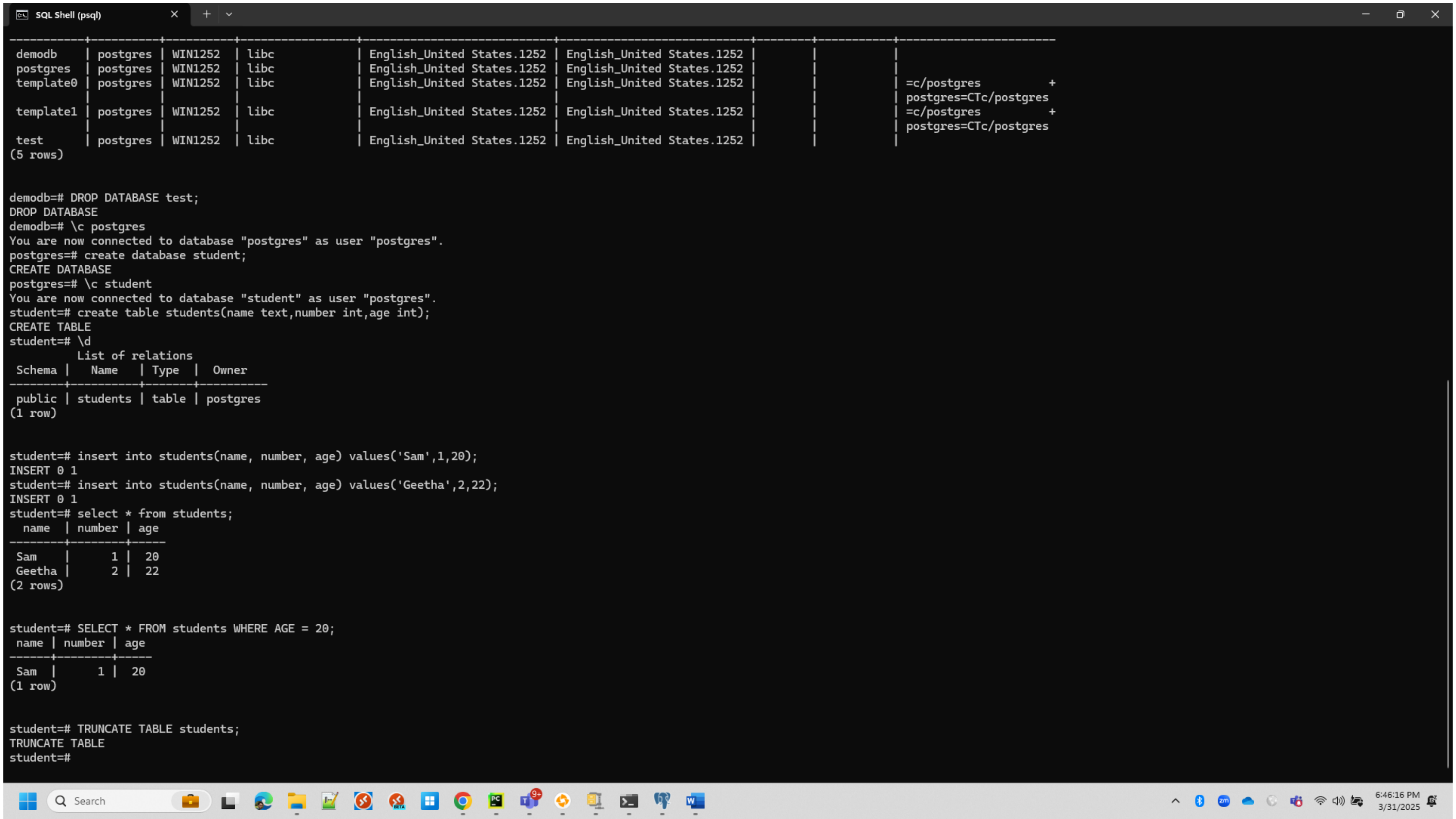
```
postgres=# \c demodb
You are now connected to database "demodb" as user "postgres".
demodb=# CREATE DATABASE test;
CREATE DATABASE
demodb=# \l
                                                            List of databases
   Name    |  Owner   | Encoding | Locale Provider |          Collate           |           Ctype            | Locale | ICU Rules |   Access privileges
-----------+----------+----------+-----------------+----------------------------+----------------------------+--------+-----------+-----------------------
 demodb    | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
 postgres  | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
 template0 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                            |                            |        |           | postgres=CTc/postgres
 template1 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                            |                            |        |           | postgres=CTc/postgres
 test      | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
(5 rows)


demodb=# DROP DATABASE test;
DROP DATABASE
demodb=# \c postgres
You are now connected to database "postgres" as user "postgres".
postgres=# create database student;
CREATE DATABASE
postgres=# \c student
You are now connected to database "student" as user "postgres".
student=# create table students(name text,number int,age int);
CREATE TABLE
student=# \d
          List of relations
 Schema |   Name   | Type  |  Owner
--------+----------+-------+----------
 public | students | table | postgres
(1 row)


student=# insert into students(name, number, age) values('Sam',1,20);
INSERT 0 1
student=# insert into students(name, number, age) values('Geetha',2,22);
INSERT 0 1
student=# select * from students;
  name  | number | age
--------+--------+-----
 Sam    |      1 |  20
 Geetha |      2 |  22
(2 rows)


student=# |
```

7- Select data based on column value using command “SELECT * FROM students WHERE AGE = 20;”



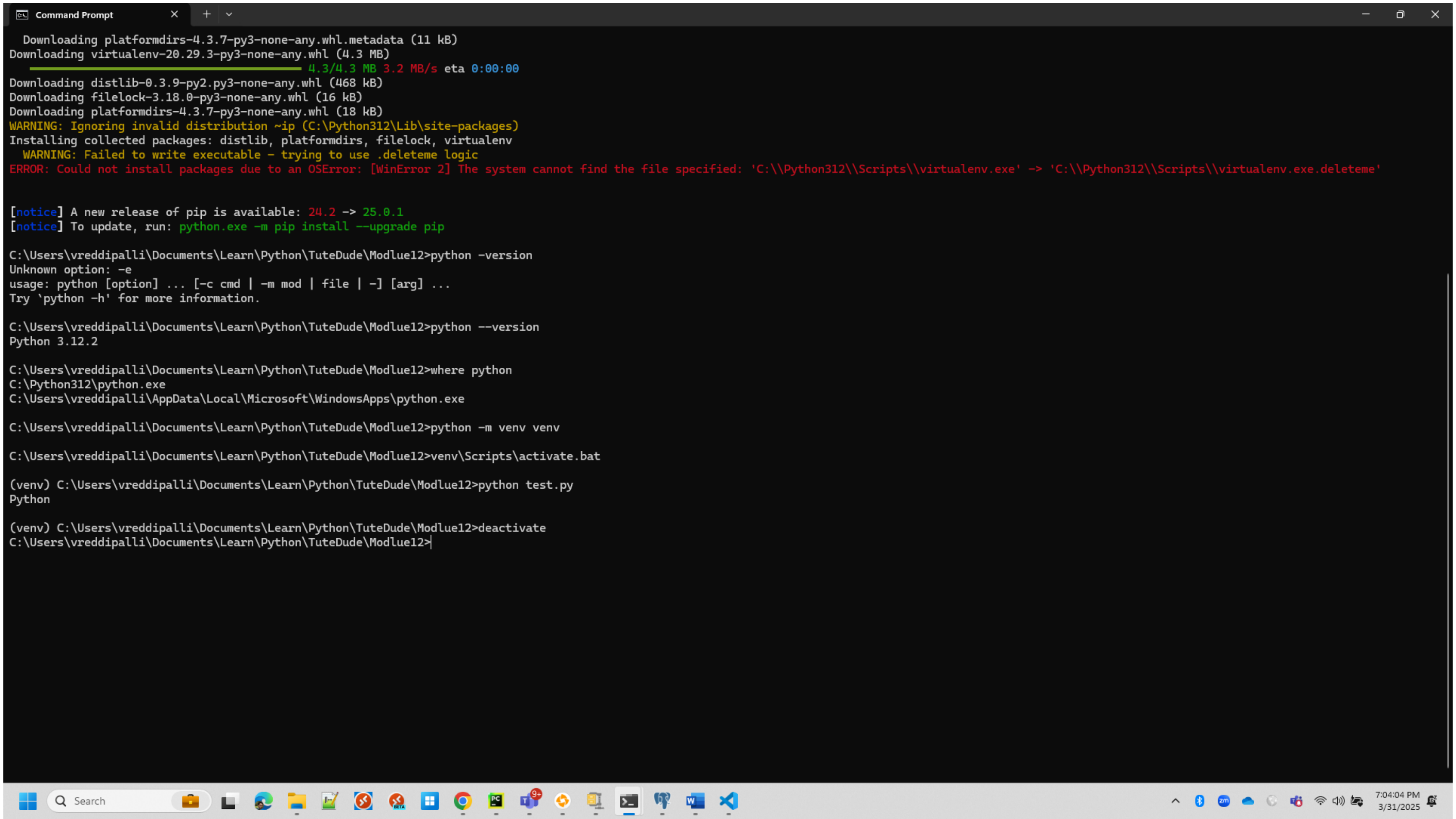
```
                                                                  List of databases
   Name    |  Owner   | Encoding | Locale Provider |          Collate           |           Ctype            | Locale | ICU Rules |   Access privileges
-----------+----------+----------+-----------------+----------------------------+----------------------------+--------+-----------+-----------------------
 demodb    | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
 postgres  | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
 template0 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                            |                            |        |           | postgres=CTc/postgres
 template1 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                            |                            |        |           | postgres=CTc/postgres
 test      | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
(5 rows)


demodb=# DROP DATABASE test;
DROP DATABASE
demodb=# \c postgres
You are now connected to database "postgres" as user "postgres".
postgres=# create database student;
CREATE DATABASE
postgres=# \c student
You are now connected to database "student" as user "postgres".
student=# create table students(name text,number int,age int);
CREATE TABLE
student=# \d
          List of relations
 Schema |   Name   | Type  |  Owner
--------+----------+-------+----------
 public | students | table | postgres
(1 row)


student=# insert into students(name, number, age) values('Sam',1,20);
INSERT 0 1
student=# insert into students(name, number, age) values('Geetha',2,22);
INSERT 0 1
student=# select * from students;
  name  | number | age
--------+--------+-----
 Sam    |      1 |  20
 Geetha |      2 |  22
(2 rows)


student=# SELECT * FROM students WHERE AGE = 20;
 name | number | age
------+--------+-----
 Sam  |      1 |  20
(1 row)


student=#
```

8- Delete the data inside the table using TRUNCATE TABLE command



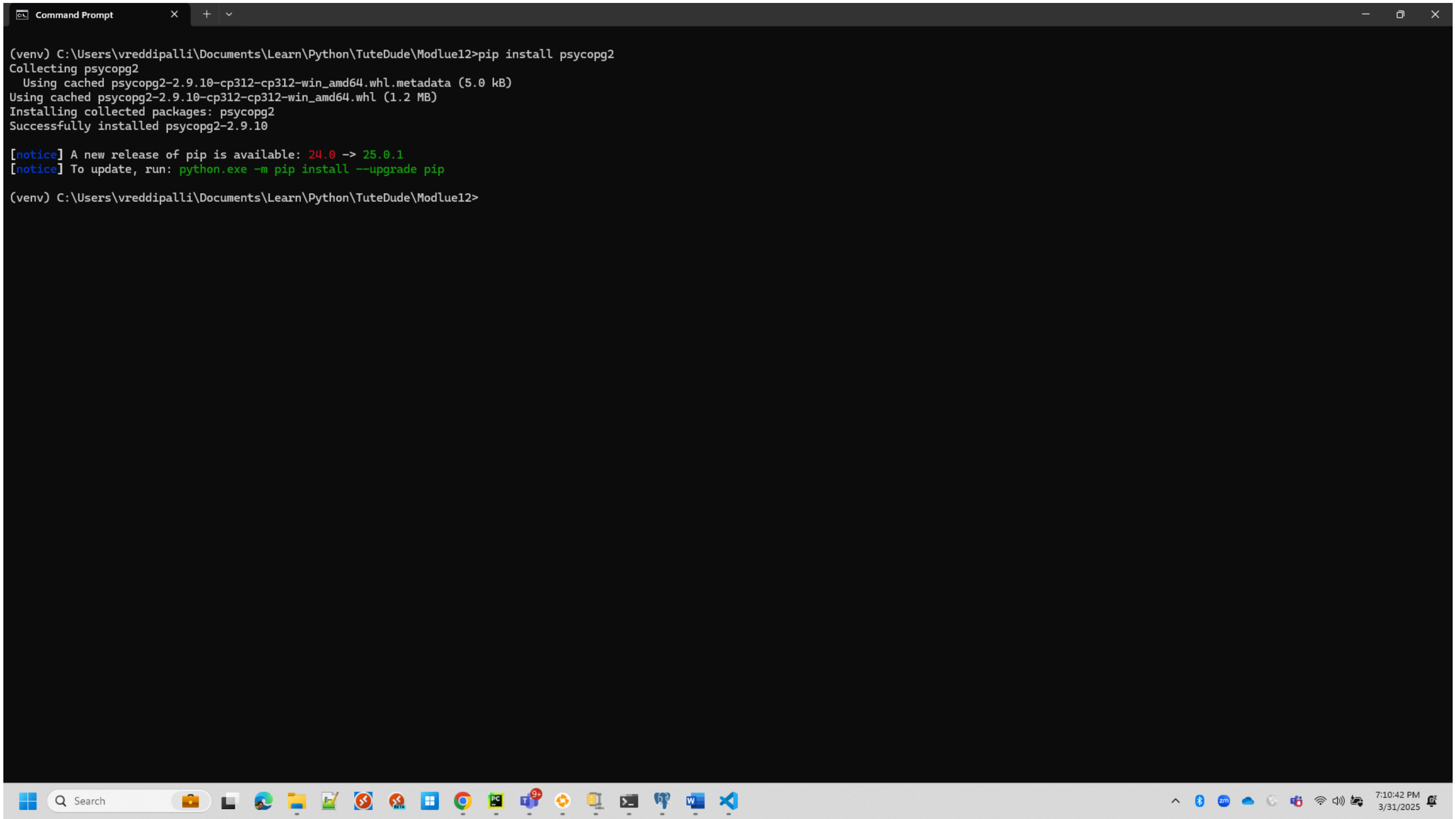
```
-----------+----------+----------+-----------------+----------------------------+----------------------------+--------+-----------+-----------------------
 demodb    | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
 postgres  | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
 template0 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                            |                            |        |           | postgres=CTc/postgres
 template1 | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           | =c/postgres          +
           |          |          |                 |                            |                            |        |           | postgres=CTc/postgres
 test      | postgres | WIN1252  | libc            | English_United States.1252 | English_United States.1252 |        |           |
(5 rows)


demodb=# DROP DATABASE test;
DROP DATABASE
demodb=# \c postgres
You are now connected to database "postgres" as user "postgres".
postgres=# create database student;
CREATE DATABASE
postgres=# \c student
You are now connected to database "student" as user "postgres".
student=# create table students(name text,number int,age int);
CREATE TABLE
student=# \d
          List of relations
 Schema |   Name   | Type  |  Owner
--------+----------+-------+----------
 public | students | table | postgres
(1 row)


student=# insert into students(name, number, age) values('Sam',1,20);
INSERT 0 1
student=# insert into students(name, number, age) values('Geetha',2,22);
INSERT 0 1
student=# select * from students;
  name  | number | age
--------+--------+-----
 Sam    |      1 |  20
 Geetha |      2 |  22
(2 rows)


student=# SELECT * FROM students WHERE AGE = 20;
 name | number | age
------+--------+-----
 Sam  |      1 |  20
(1 row)


student=# TRUNCATE TABLE students;
TRUNCATE TABLE
student=#
```

9- Create project folder and create a virtual environment using “python -m venv name”
And activate the virtual environment using ‘name\Scripts\activate.bat’



```
  Downloading platformdirs-4.3.7-py3-none-any.whl.metadata (11 kB)
Downloading virtualenv-20.29.3-py3-none-any.whl (4.3 MB)
   ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 4.3/4.3 MB 3.2 MB/s eta 0:00:00
Downloading distlib-0.3.9-py2.py3-none-any.whl (468 kB)
Downloading filelock-3.18.0-py3-none-any.whl (16 kB)
Downloading platformdirs-4.3.7-py3-none-any.whl (18 kB)
WARNING: Ignoring invalid distribution ~ip (C:\Python312\Lib\site-packages)
Installing collected packages: distlib, platformdirs, filelock, virtualenv
  WARNING: Failed to write executable - trying to use .deleteme logic
ERROR: Could not install packages due to an OSError: [WinError 2] The system cannot find the file specified: 'C:\\Python312\\Scripts\\virtualenv.exe' -> 'C:\\Python312\\Scripts\\virtualenv.exe.deleteme'


[notice] A new release of pip is available: 24.2 -> 25.0.1
[notice] To update, run: python.exe -m pip install --upgrade pip

C:\Users\vreddipalli\Documents\Learn\Python\TuteDude\Modlue12>python -version
Unknown option: -e
usage: python [option] ... [-c cmd | -m mod | file | -] [arg] ...
Try `python -h' for more information.

C:\Users\vreddipalli\Documents\Learn\Python\TuteDude\Modlue12>python --version
Python 3.12.2

C:\Users\vreddipalli\Documents\Learn\Python\TuteDude\Modlue12>where python
C:\Python312\python.exe
C:\Users\vreddipalli\AppData\Local\Microsoft\WindowsApps\python.exe

C:\Users\vreddipalli\Documents\Learn\Python\TuteDude\Modlue12>python -m venv venv

C:\Users\vreddipalli\Documents\Learn\Python\TuteDude\Modlue12>venv\Scripts\activate.bat

(venv) C:\Users\vreddipalli\Documents\Learn\Python\TuteDude\Modlue12>python test.py
Python

(venv) C:\Users\vreddipalli\Documents\Learn\Python\TuteDude\Modlue12>deactivate
C:\Users\vreddipalli\Documents\Learn\Python\TuteDude\Modlue12>
```

10- Install psycopg2 in the virtual environment using command “pip install psycopg2”

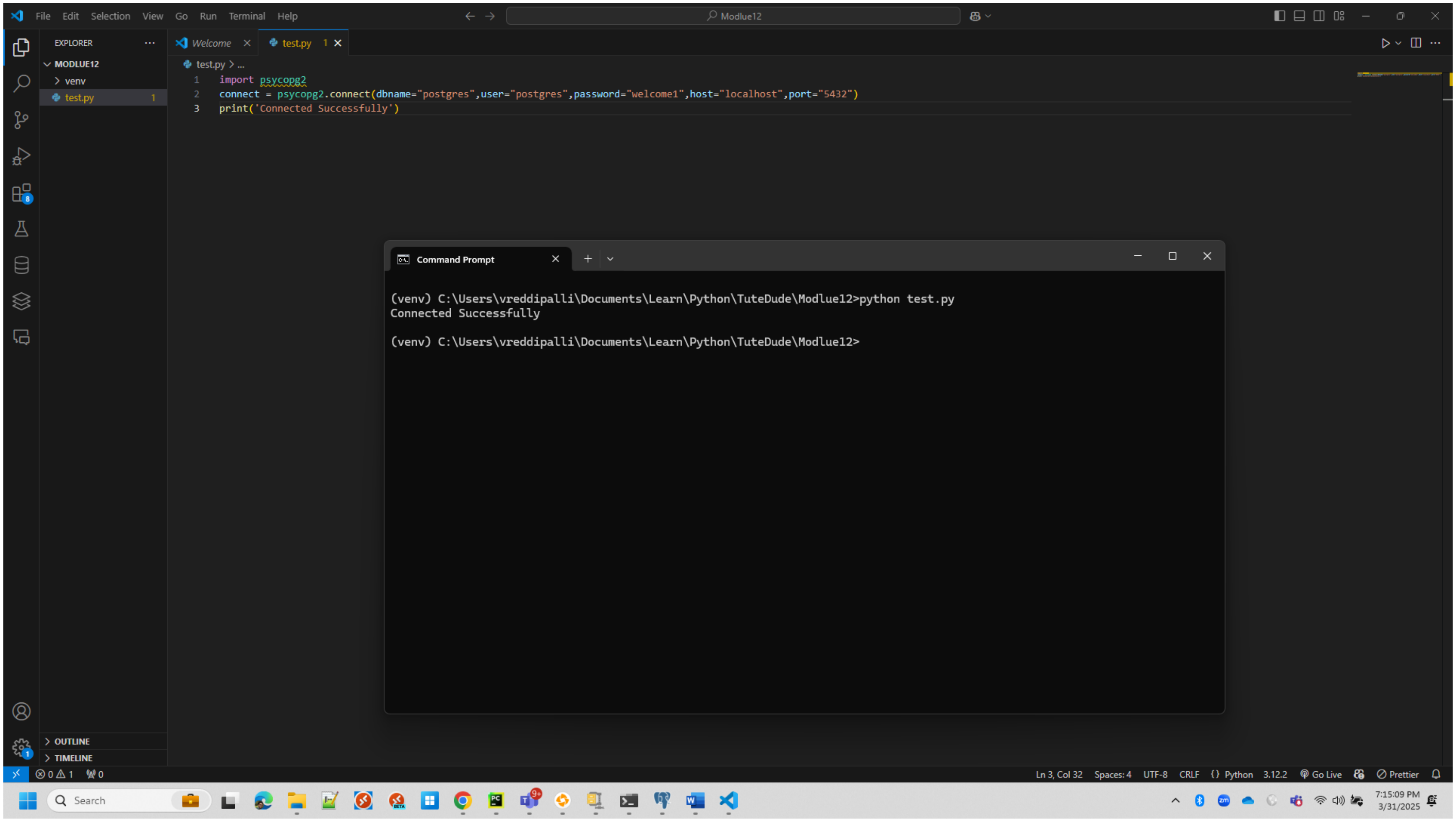


```
(venv) C:\Users\vreddipalli\Documents\Learn\Python\TuteDude\Modlue12>pip install psycopg2
Collecting psycopg2
  Using cached psycopg2-2.9.10-cp312-cp312-win_amd64.whl.metadata (5.0 kB)
Using cached psycopg2-2.9.10-cp312-cp312-win_amd64.whl (1.2 MB)
Installing collected packages: psycopg2
Successfully installed psycopg2-2.9.10

[notice] A new release of pip is available: 24.0 -> 25.0.1
[notice] To update, run: python.exe -m pip install --upgrade pip

(venv) C:\Users\vreddipalli\Documents\Learn\Python\TuteDude\Modlue12>
```

11- Connect to the database using psycopg2 in python.

```
import psycopg2
connect =
psycopg2.connect(dbname="postgres",user="postgres",password="welcome1",host="localhost",port="5432")
```

```
print('Connected Successfully')
```



```
import psycopg2
connect = psycopg2.connect(dbname="postgres",user="postgres",password="welcome1",host="localhost",port="5432")
print('Connected Successfully')
```

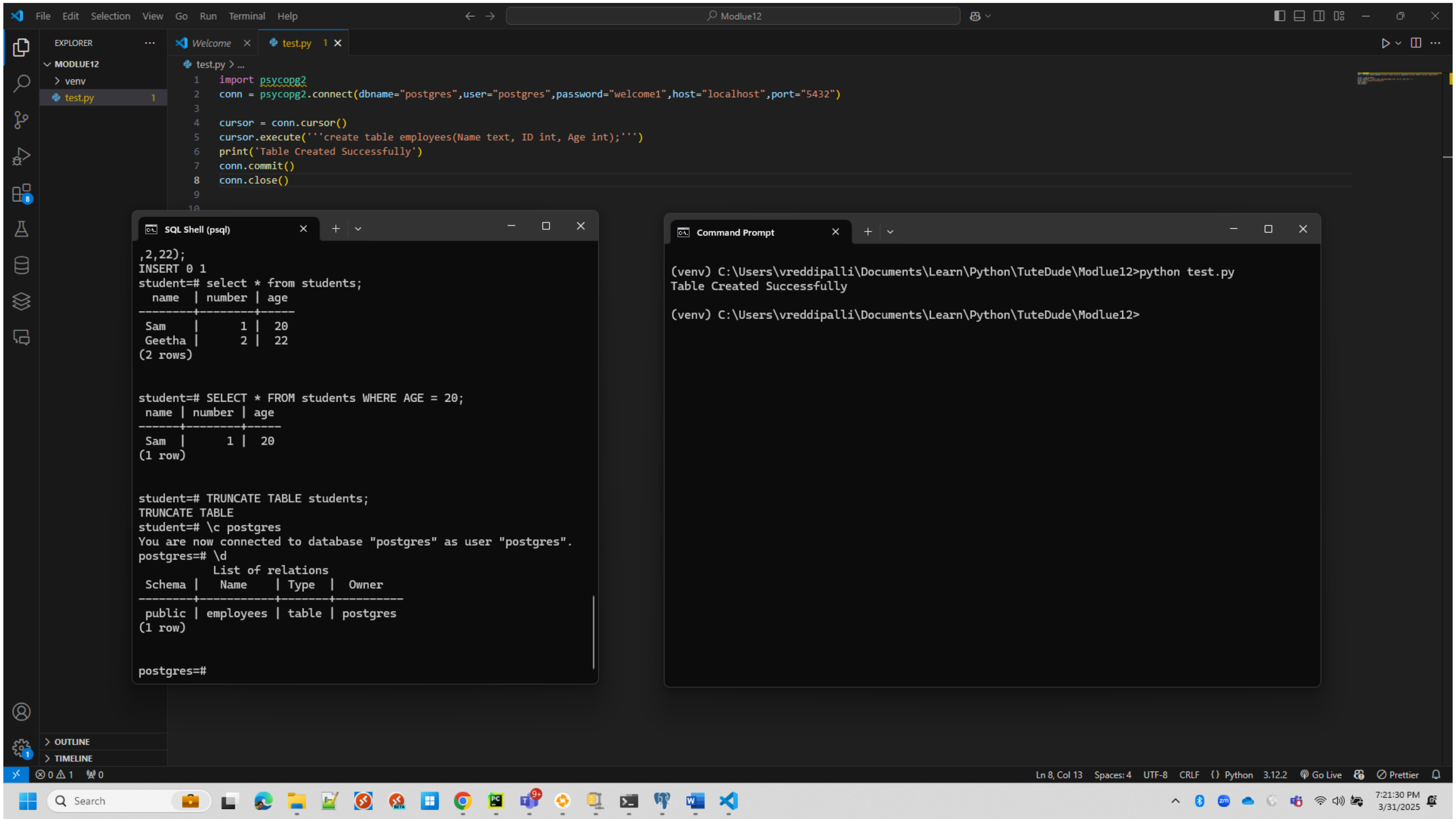
```
(venv) C:\Users\vreddipalli\Documents\Learn\Python\TuteDude\Modlue12>python test.py
Connected Successfully

(venv) C:\Users\vreddipalli\Documents\Learn\Python\TuteDude\Modlue12>
```

File Edit Selection View Go Run Terminal Help
Modlue12
EXPLORER
MODLUE12
venv
test.py
Welcome
test.py
Command Prompt
OUTLINE
TIMELINE
Ln 3, Col 32 Spaces: 4 UTF-8 CRLF Python 3.12.2 Go Live Prettier
Search
7:15:09 PM
3/31/2025

12- Create table in python

```
import psycopg2
```

```
conn =
psycopg2.connect(dbname="postgres",user="postgres",password="welcome1",host="localhost",port="5432")

cursor = conn.cursor()
cursor.execute('''create table employees(Name text, ID int, Age int);''')
print('Table Created Successfully')
conn.commit()
conn.close()
```



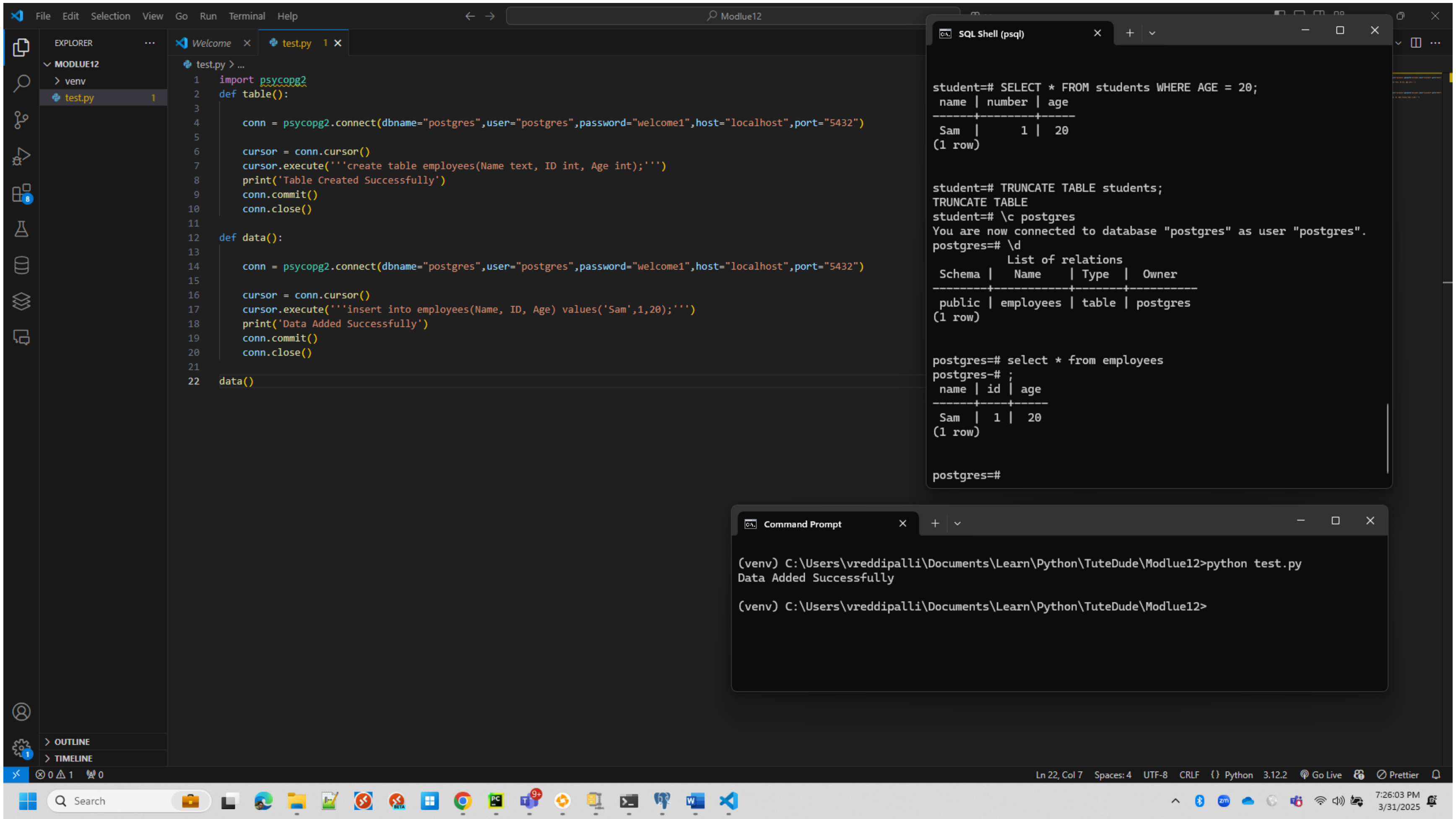
```python
import psycopg2
conn = psycopg2.connect(dbname="postgres",user="postgres",password="welcome1",host="localhost",port="5432")

cursor = conn.cursor()
cursor.execute('''create table employees(Name text, ID int, Age int);''')
print('Table Created Successfully')
conn.commit()
conn.close()
```

```
,2,22);
INSERT 0 1
student=# select * from students;
  name  | number | age
--------+--------+-----
 Sam    |      1 |  20
 Geetha |      2 |  22
(2 rows)


student=# SELECT * FROM students WHERE AGE = 20;
 name | number | age
------+--------+-----
 Sam  |      1 |  20
(1 row)


student=# TRUNCATE TABLE students;
TRUNCATE TABLE
student=# \c postgres
You are now connected to database "postgres" as user "postgres".
postgres=# \d
           List of relations
 Schema |   Name    | Type  |  Owner
--------+-----------+-------+----------
 public | employees | table | postgres
(1 row)


postgres=#
```

```
(venv) C:\Users\vreddipalli\Documents\Learn\Python\TuteDude\Modlue12>python test.py
Table Created Successfully

(venv) C:\Users\vreddipalli\Documents\Learn\Python\TuteDude\Modlue12>
```

13- Insert data into a table using python

```python
import psycopg2
def data():
    conn = 
psycopg2.connect(dbname="postgres",user="postgres",password="welcome1",host="localhost",port="5432")

    cursor = conn.cursor()
    cursor.execute('''insert into employees(Name, ID, Age) values('Sam',1,20);''')
    print('Data Added Successfully')
    conn.commit()
    conn.close()

data()
```



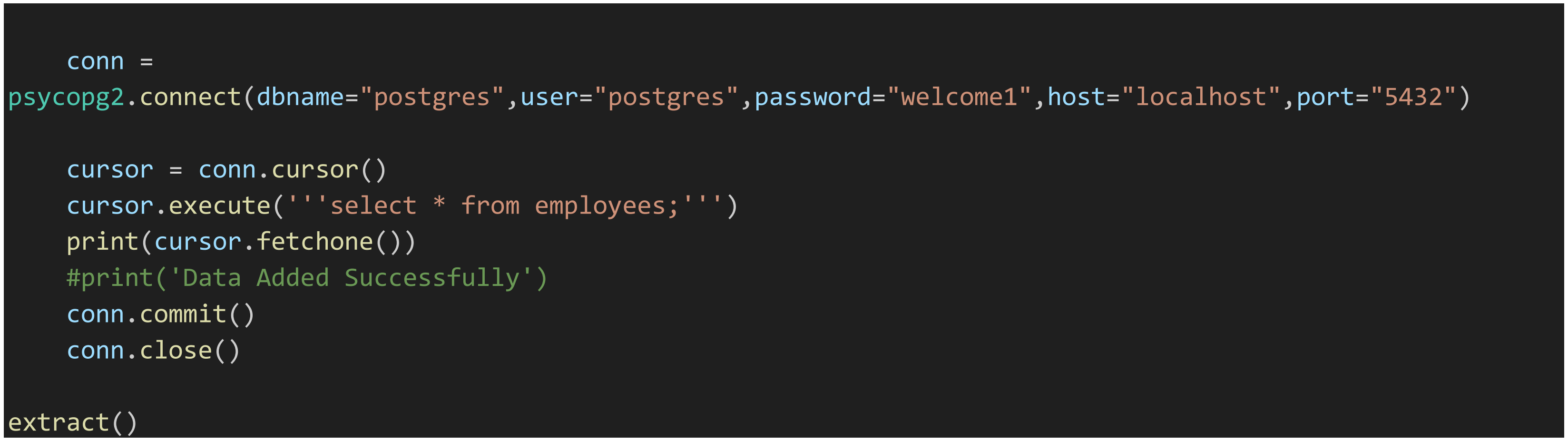
```python
import psycopg2
def table():

    conn = psycopg2.connect(dbname="postgres",user="postgres",password="welcome1",host="localhost",port="5432")

    cursor = conn.cursor()
    cursor.execute('''create table employees(Name text, ID int, Age int);''')
    print('Table Created Successfully')
    conn.commit()
    conn.close()

def data():

    conn = psycopg2.connect(dbname="postgres",user="postgres",password="welcome1",host="localhost",port="5432")

    cursor = conn.cursor()
    cursor.execute('''insert into employees(Name, ID, Age) values('Sam',1,20);''')
    print('Data Added Successfully')
    conn.commit()
    conn.close()

data()
```

```
student=# SELECT * FROM students WHERE AGE = 20;
 name | number | age
------+--------+-----
 Sam  |      1 |  20
(1 row)


student=# TRUNCATE TABLE students;
TRUNCATE TABLE
student=# \c postgres
You are now connected to database "postgres" as user "postgres".
postgres=# \d
           List of relations
 Schema |   Name    | Type  |  Owner
--------+-----------+-------+----------
 public | employees | table | postgres
(1 row)


postgres=# select * from employees
postgres-# ;
 name | id | age
------+----+-----
 Sam  |  1 |  20
(1 row)


postgres=#
```

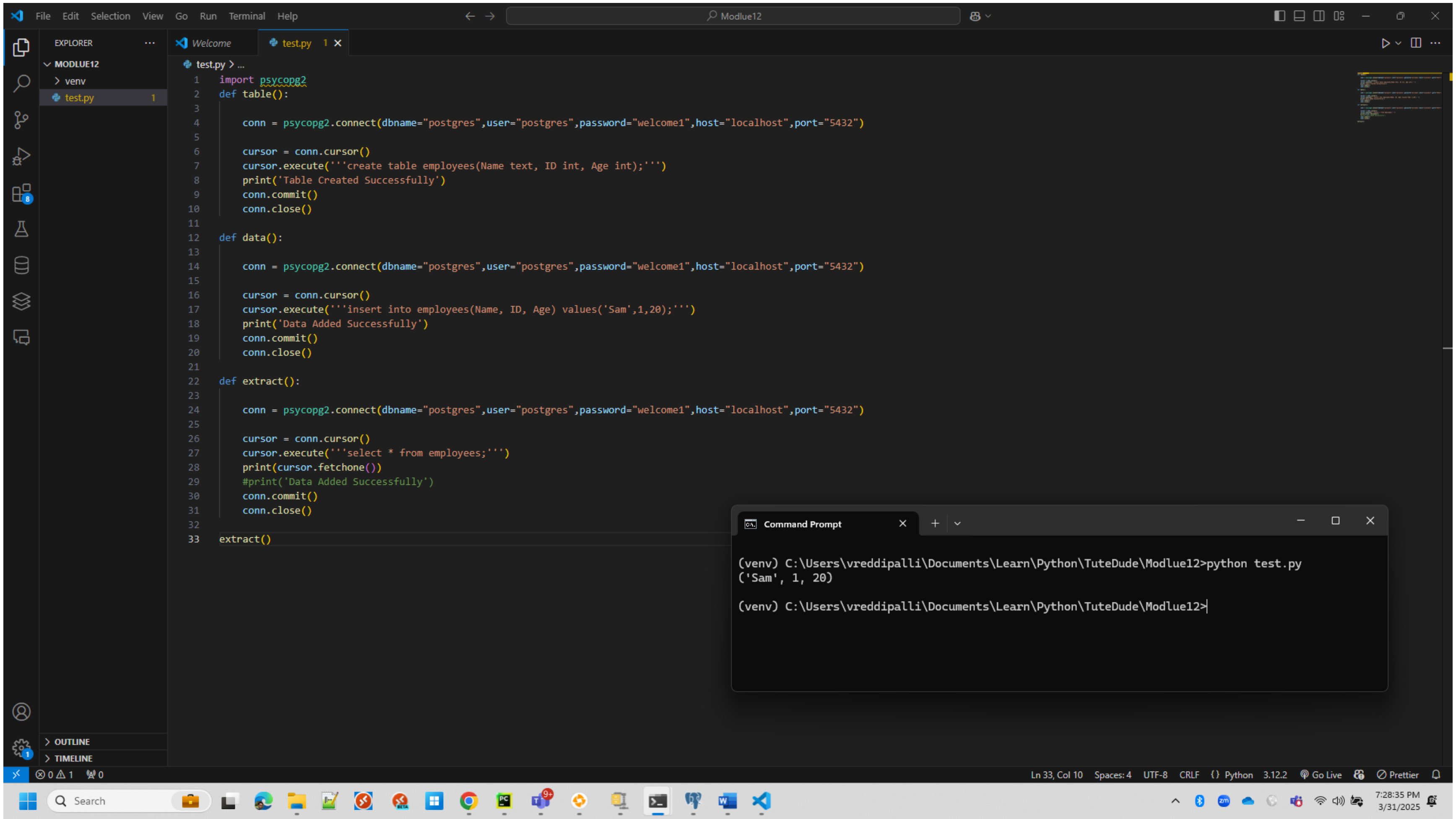
```
(venv) C:\Users\vreddipalli\Documents\Learn\Python\TuteDude\Modlue12>python test.py
Data Added Successfully

(venv) C:\Users\vreddipalli\Documents\Learn\Python\TuteDude\Modlue12>
```

14- Extract the data from the table using python.

```python
import psycopg2

def extract():
```



```
    conn = 
psycopg2.connect(dbname="postgres",user="postgres",password="welcome1",host="localhost",port="5432")

    cursor = conn.cursor()
    cursor.execute('''select * from employees;''')
    print(cursor.fetchone())
    #print('Data Added Successfully')
    conn.commit()
    conn.close()

extract()
```

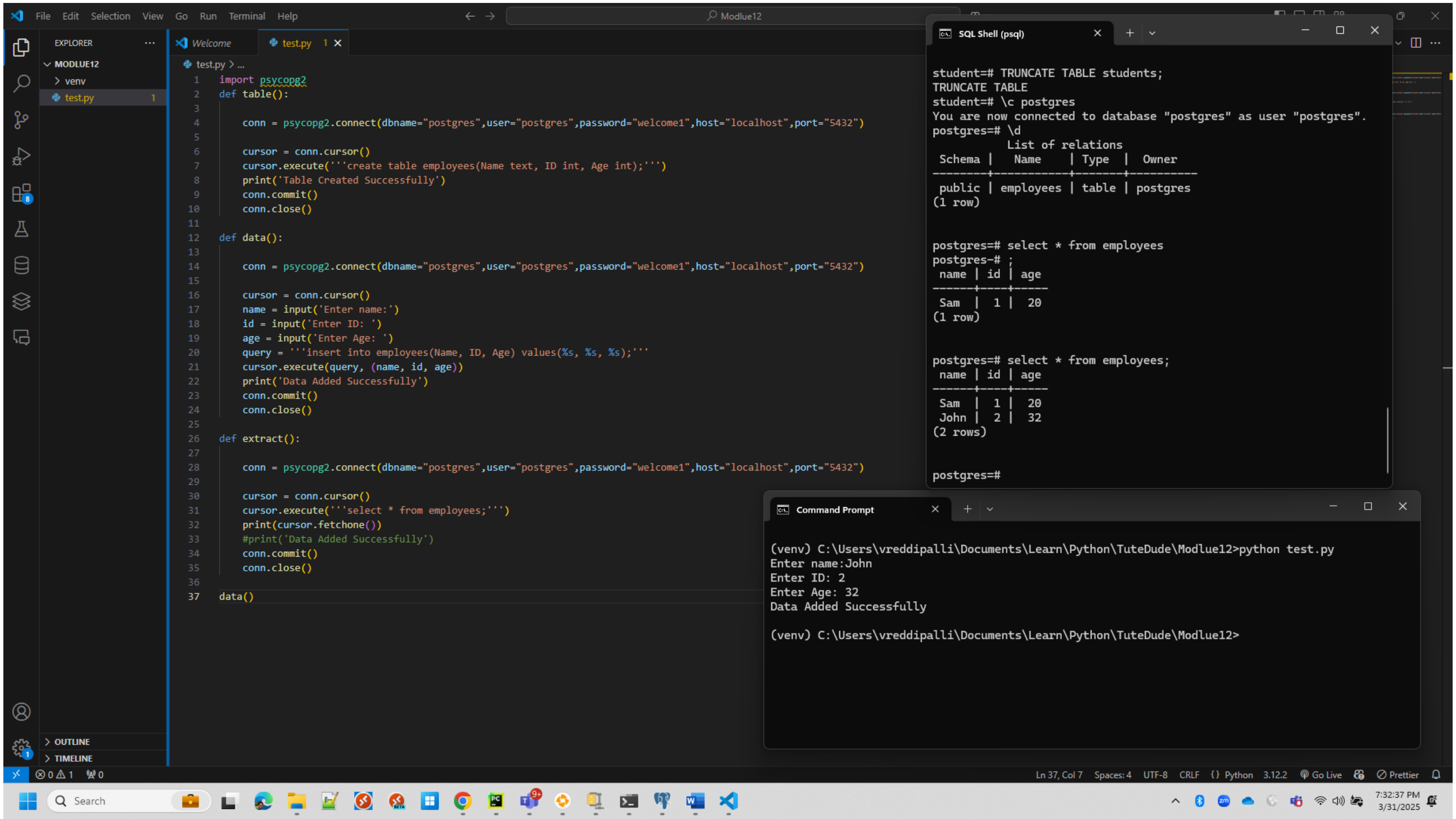


```python
import psycopg2
def table():

    conn = psycopg2.connect(dbname="postgres",user="postgres",password="welcome1",host="localhost",port="5432")

    cursor = conn.cursor()
    cursor.execute('''create table employees(Name text, ID int, Age int);''')
    print('Table Created Successfully')
    conn.commit()
    conn.close()

def data():

    conn = psycopg2.connect(dbname="postgres",user="postgres",password="welcome1",host="localhost",port="5432")

    cursor = conn.cursor()
    cursor.execute('''insert into employees(Name, ID, Age) values('Sam',1,20);''')
    print('Data Added Successfully')
    conn.commit()
    conn.close()

def extract():

    conn = psycopg2.connect(dbname="postgres",user="postgres",password="welcome1",host="localhost",port="5432")

    cursor = conn.cursor()
    cursor.execute('''select * from employees;''')
    print(cursor.fetchone())
    #print('Data Added Successfully')
    conn.commit()
    conn.close()

extract()
```

```
(venv) C:\Users\vreddipalli\Documents\Learn\Python\TuteDude\Modlue12>python test.py
('Sam', 1, 20)

(venv) C:\Users\vreddipalli\Documents\Learn\Python\TuteDude\Modlue12>
```

15- Insert into table using user input.

```python
import psycopg2
def data():
    conn =
psycopg2.connect(dbname="postgres",user="postgres",password="welcome1",host="localhost",port="5432")

    cursor = conn.cursor()
    name = input('Enter name:')
    id = input('Enter ID: ')
    age = input('Enter Age: ')
    query = '''insert into employees(Name, ID, Age) values(%s, %s, %s);'''
    cursor.execute(query, (name, id, age))
    print('Data Added Successfully')
    conn.commit()
    conn.close()


data()
```



```python
import psycopg2
def table():

    conn = psycopg2.connect(dbname="postgres",user="postgres",password="welcome1",host="localhost",port="5432")

    cursor = conn.cursor()
    cursor.execute('''create table employees(Name text, ID int, Age int);''')
    print('Table Created Successfully')
    conn.commit()
    conn.close()

def data():

    conn = psycopg2.connect(dbname="postgres",user="postgres",password="welcome1",host="localhost",port="5432")

    cursor = conn.cursor()
    name = input('Enter name:')
    id = input('Enter ID: ')
    age = input('Enter Age: ')
    query = '''insert into employees(Name, ID, Age) values(%s, %s, %s);'''
    cursor.execute(query, (name, id, age))
    print('Data Added Successfully')
    conn.commit()
    conn.close()

def extract():

    conn = psycopg2.connect(dbname="postgres",user="postgres",password="welcome1",host="localhost",port="5432")

    cursor = conn.cursor()
    cursor.execute('''select * from employees;''')
    print(cursor.fetchone())
    #print('Data Added Successfully')
    conn.commit()
    conn.close()

data()
```

```
student=# TRUNCATE TABLE students;
TRUNCATE TABLE
student=# \c postgres
You are now connected to database "postgres" as user "postgres".
postgres=# \d
           List of relations
 Schema |   Name    | Type  |  Owner
--------+-----------+-------+----------
 public | employees | table | postgres
(1 row)


postgres=# select * from employees
postgres-# ;
 name | id | age
------+----+-----
 Sam  |  1 |  20
(1 row)


postgres=# select * from employees;
 name | id | age
------+----+-----
 Sam  |  1 |  20
 John |  2 |  32
(2 rows)


postgres=#
```

```
(venv) C:\Users\vreddipalli\Documents\Learn\Python\TuteDude\Modlue12>python test.py
Enter name:John
Enter ID: 2
Enter Age: 32
Data Added Successfully

(venv) C:\Users\vreddipalli\Documents\Learn\Python\TuteDude\Modlue12>
```