```
postgres=# create database demodb;
CREATE DATABASE
postgres=# \l
                                                List of databases
   Name    |  Owner   | Encoding |      Collate       |       Ctype        |
   Access privileges
-----------+----------+----------+--------------------+--------------------+
-----------------------
 demodb    | postgres | UTF8     | English_India.1252 | English_India.1252 |

 postgres  | postgres | UTF8     | English_India.1252 | English_India.1252 |

 template0 | postgres | UTF8     | English_India.1252 | English_India.1252 |
 =c/postgres          +
           |          |          |                    |                    |
 postgres=CTc/postgres
 template1 | postgres | UTF8     | English_India.1252 | English_India.1252 |
 =c/postgres          +
           |          |          |                    |                    |
 postgres=CTc/postgres
(4 rows)
```

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

```
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 |      Collate       |       Ctype        |
   Access privileges
-----------+----------+----------+--------------------+--------------------+
-----------------------
 demodb    | postgres | UTF8     | English_India.1252 | English_India.1252 |

 postgres  | postgres | UTF8     | English_India.1252 | English_India.1252 |

 template0 | postgres | UTF8     | English_India.1252 | English_India.1252 |
 =c/postgres          +
           |          |          |                    |                    |
 postgres=CTc/postgres
 template1 | postgres | UTF8     | English_India.1252 | English_India.1252 |
 =c/postgres          +
           |          |          |                    |                    |
 postgres=CTc/postgres
 test      | postgres | UTF8     | English_India.1252 | English_India.1252 |

(5 rows)
```

```
demodb=# drop database test;
DROP DATABASE
demodb=# \l
                                      List of databases
   Name    |  Owner   | Encoding |      Collate       |       Ctype        |
   Access privileges
-----------+----------+----------+--------------------+--------------------+
----------------------
 demodb    | postgres | UTF8     | English_India.1252 | English_India.1252 |

 postgres  | postgres | UTF8     | English_India.1252 | English_India.1252 |

 template0 | postgres | UTF8     | English_India.1252 | English_India.1252 |
 =c/postgres          +
           |          |          |                    |                    |
 postgres=CTc/postgres
 template1 | postgres | UTF8     | English_India.1252 | English_India.1252 |
 =c/postgres          +
           |          |          |                    |                    |
 postgres=CTc/postgres
(4 rows)
```

```
demodb=# create database student;
CREATE DATABASE
demodb=# \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',12,20);
INSERT 0 1
student=# insert into students(name,number,age) values('Jake',22,20);
INSERT 0 1
student=#
```

```
student=# SELECT * FROM students;
 name | number | age
------+--------+-----
 Sam  |     12 |  20
 Jake |     22 |  20
(2 rows)
```

```
student=# SELECT name FROM students;
 name
------
 Sam
 Jake
(2 rows)
```

```
student=# SELECT * FROM students where number=12;
 name | number | age
------+--------+-----
 Sam  |     12 |  20
(1 row)
```

```
student=# SELECT * FROM students where age=20;
 name | number | age
------+--------+-----
 Sam  |     12 |  20
 Jake |     22 |  20
(2 rows)
```

```
student=# SELECT number FROM students where age=20;
 number
--------
     12
     22
(2 rows)
```

```
student=# SELECT number FROM students where name='Sam';
 number
--------
     12
(1 row)
```

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

```
student=# \d
          List of relations
 Schema |   Name   | Type  |  Owner
--------+----------+-------+----------
 public | students | table | postgres
(1 row)
```

```
student=# select * from students;
 name | number | age
------+--------+-----
(0 rows)
```

```
C:\Users\laksh>cd C:\Users\laksh\AppData\Roaming\Microsoft\Windows\Start Men
u\Programs\Visual Studio Code

C:\Users\laksh\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Visual
Studio Code>virtualenv env
created virtual environment CPython3.11.5.final.0-64 in 9961ms
  creator CPython3Windows(dest=C:\Users\laksh\AppData\Roaming\Microsoft\Wind
ows\Start Menu\Programs\Visual Studio Code\env, clear=False, no_vcs_ignore=F
alse, global=False)
  seeder FromAppData(download=False, pip=bundle, setuptools=bundle, via=copy
, app_data_dir=C:\Users\laksh\AppData\Local\pypa\virtualenv)
    added seed packages: pip==25.1.1, setuptools==80.3.1
  activators BashActivator,BatchActivator,FishActivator,NushellActivator,Pow
erShellActivator,PythonActivator

C:\Users\laksh\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Visual
Studio Code>cd env

C:\Users\laksh\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Visual
Studio Code\env>cd scripts

C:\Users\laksh\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Visual
Studio Code\env\Scripts>activate

(env) C:\Users\laksh\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\V
isual Studio Code\env\Scripts>cd..

(env) C:\Users\laksh\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\V
isual Studio Code\env>cd..

(env) C:\Users\laksh\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\V
isual Studio Code>
```

```
(env) C:\Users\laksh\OneDrive\Documents\Visual Studio 2022\Python>python postgres.py
Connected Successfully

(env) C:\Users\laksh\OneDrive\Documents\Visual Studio 2022\Python>
```

```
(env) C:\Users\laksh\OneDrive\Documents\Visual Studio 2022\Python>python pos
tgres.py
Table created successfully
```

```python
import psycopg2
conn = psycopg2.connect(dbname="postgres",user="postgres",password="root",host="localhost",port="5433")

cursor = conn.cursor()
cursor.execute('''create table employees(Name Text, ID int, Age int);''')
print('Table created successfully')

conn.commit()
conn.close()
```

```
postgres=# \d
           List of relations
 Schema |    Name     | Type  |  Owner
--------+-------------+-------+----------
 public | employees | table | postgres
(1 row)


postgres=# select * from employees;
 name | id | age
------+----+-----
(0 rows)
```

```
(env) C:\Users\laksh\OneDrive\Documents\Visual Studio 2022\Python>python pos
tgres.py
Data added successfully
```

```
postgres=# select * from employees;
 name | id | age
------+----+-----
 Sam  |  1 |  30
(1 row)
```

```python
def extract():
    conn = psycopg2.connect(dbname="postgres",user="postgres",password="root",host="localhost",port="5433")

    cursor = conn.cursor()
    cursor.execute('''select * from employees;''')
    show = cursor.fetchone()
    print(show[2])

    conn.commit()
    conn.close()

extract()
```

```python
def data():
    conn = psycopg2.connect(dbname="postgres",user="postgres",password="root",host="localhost",port="5433")

    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()
```

```
(env) C:\Users\laksh\OneDrive\Documents\Visual Studio 2022\Python>python pos
tgres.py
Enter name: John
Enter id: 02
Enter age: 35
Data added successfully
```

```
postgres=# select * from employees;
 name | id | age
------+----+-----
 Sam  |  1 |  30
 John |  2 |  35
(2 rows)
```