

```
SQL Shell (psql)
Server [localhost]:
Database [postgres]:
Port [5432]:
Username [postgres]:
Password for user postgres:

psql (18.1)
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
demodb	postgres	UTF8	libc	English_India.1252	English_India.1252			
postgres	postgres	UTF8	libc	English_India.1252	English_India.1252			
student	postgres	UTF8	libc	English_India.1252	English_India.1252			
studentdb	postgres	UTF8	libc	English_India.1252	English_India.1252			
template0	postgres	UTF8	libc	English_India.1252	English_India.1252			=c/postgres +
template1	postgres	UTF8	libc	English_India.1252	English_India.1252			postgres=Ctc/postgres +
								=c/postgres +
								postgres=Ctc/postgres

```
(6 rows)

postgres=# create database student_db;
ERROR: syntax error at or near "database"
LINE 1: create database student_db;
                  ^
postgres=# create database student_db;
CREATE DATABASE
postgres=# \l
      List of databases
```

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SQL Shell (psql)
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postgres	postgres	UTF8	libc	English_India.1252	English_India.1252			
student	postgres	UTF8	libc	English_India.1252	English_India.1252			
student_db	postgres	UTF8	libc	English_India.1252	English_India.1252			
studentdb	postgres	UTF8	libc	English_India.1252	English_India.1252			
template0	postgres	UTF8	libc	English_India.1252	English_India.1252			=c/postgres +
template1	postgres	UTF8	libc	English_India.1252	English_India.1252			postgres=Ctc/postgres +
								=c/postgres +
								postgres=Ctc/postgres

```
(7 rows)

postgres=# create database studentdb;
ERROR: database "studentdb" already exists
postgres=# \l
      List of databases

```

Name	Owner	Encoding	Locale Provider	Collate	Ctype	Locale	ICU Rules	Access privileges
demodb	postgres	UTF8	libc	English_India.1252	English_India.1252			
postgres	postgres	UTF8	libc	English_India.1252	English_India.1252			
student	postgres	UTF8	libc	English_India.1252	English_India.1252			
student_db	postgres	UTF8	libc	English_India.1252	English_India.1252			
studentdb	postgres	UTF8	libc	English_India.1252	English_India.1252			
template0	postgres	UTF8	libc	English_India.1252	English_India.1252			=c/postgres +
template1	postgres	UTF8	libc	English_India.1252	English_India.1252			postgres=Ctc/postgres +
								=c/postgres +
								postgres=Ctc/postgres

```
(7 rows)
```

```
SQL Shell (psql)
postgres=# drop database studentdb;
DROP DATABASE
postgres=# \l
      List of databases

```

Name	Owner	Encoding	Locale Provider	Collate	Ctype	Locale	ICU Rules	Access privileges
demodb	postgres	UTF8	libc	English_India.1252	English_India.1252			
postgres	postgres	UTF8	libc	English_India.1252	English_India.1252			
student	postgres	UTF8	libc	English_India.1252	English_India.1252			
student_db	postgres	UTF8	libc	English_India.1252	English_India.1252			
template0	postgres	UTF8	libc	English_India.1252	English_India.1252			=c/postgres +
template1	postgres	UTF8	libc	English_India.1252	English_India.1252			postgres=Ctc/postgres +
								=c/postgres +
								postgres=Ctc/postgres

```
(6 rows)

postgres=# \c student_db
You are now connected to database "student_db" as user "postgres".
student_db=# create table student(name text, num int, age int);
CREATE TABLE
student_db=# \d
      List of relations

```

Schema	Name	Type	Owner
public	student	table	postgres

```
(1 row)

student_db=# insert into students(name,no,age) values('suhani',12,21);
ERROR: relation "students" does not exist
LINE 1: insert into students(name,no,age) values('suhani',12,21);
                  ^
student_db=# insert into student(name,no,age) values('suhani',12,21);
```

```
SQL Shell (psql)
student_db=# insert into student(name,no,age) values('suhani',12,21);
ERROR: column "no" of relation "student" does not exist
LINE 1: insert into student(name,no,age) values('suhani',12,21);
                                ^
student_db=# insert into student(name,num,age) values('suhani',12,21);
INSERT 0 1
student_db=# insert into student(name,num,age) values('foram',11,20);
INSERT 0 1
student_db=# select * from student;
 name | num | age
-----+----+---
 suhani | 12  | 21
  foram | 11  | 20
(2 rows)

student_db=# select name from student;
 name
-----
 suhani
  foram
(2 rows)

student_db=# select * from student where age=21;
 name | num | age
-----+----+---
 suhani | 12  | 21
(1 row)

student_db=# truncate table student;
ERROR: syntax error at or near "truncate"
LINE 1: truncate table student;
              ^
```

```
SQL Shell (psql)
student_db=# select * from student where age=21;
 name | num | age
-----+----+---
 suhani | 12  | 21
(1 row)

student_db=# truncate table student;
ERROR: syntax error at or near "truncate"
LINE 1: truncate table student;
              ^
student_db=# truncate table student;
TRUNCATE TABLE
student_db=# \d
      List of relations
Schema | Name      | Type  | Owner
-----+-----+-----+-----
 public | student   | table | postgres
(1 row)

student_db=# select * from student;
 name | num | age
-----+----+---
(0 rows)

student_db=#
```

```
Command Prompt
Microsoft Windows [Version 10.0.26200.7171]
(c) Microsoft Corporation. All rights reserved.

C:\Users\pc>cd downloads
C:\Users\pc\Downloads>cd New folder(2)
The system cannot find the path specified.

C:\Users\pc\Downloads>cd C:\Users\pc\Downloads\New folder (2)

C:\Users\pc\Downloads\New folder (2)>pip install virtualenv
Requirement already satisfied: virtualenv in c:\users\pc\appdata\local\programs\python\python310\lib\site-packages (20.35.4)
Requirement already satisfied: typing-extensions<=4.13.2 in c:\users\pc\appdata\local\programs\python\python310\lib\site-packages (from virtualenv) (4.15.0)
Requirement already satisfied: distlib<1,>=0.3.7 in c:\users\pc\appdata\local\programs\python\python310\lib\site-packages (from virtualenv) (0.4.0)
Requirement already satisfied: platformdirs<5,>=3.9.1 in c:\users\pc\appdata\local\programs\python\python310\lib\site-packages (from virtualenv) (4.5.1)
Requirement already satisfied: filelock<4,>=3.12.2 in c:\users\pc\appdata\local\programs\python\python310\lib\site-packages (from virtualenv) (3.20.0)
WARNING: You are using pip version 21.2.3; however, version 25.3 is available.
You should consider upgrading via the 'C:\Users\pc\AppData\Local\Programs\Python\Python310\python.exe -m pip install --upgrade pip' command.

C:\Users\pc\Downloads\New folder (2)>virtualenv env
created virtual environment CPython3.10.0.final.0-64 in 1011ms
creator CPython3Windows(dest=C:\Users\pc\Downloads\New folder (2)\env, clear=False, no_vcs_ignore=False, global=False)
seeder FromAppData(download=False, pip=bundle, setuptools=bundle, via=copy, app_data_dir=C:\Users\pc\AppData\Local\pypa\virtualenv)
added seed packages: pip==25.3, setuptools==80.9.0
activators BashActivator,BatchActivator,FishActivator,NushellActivator,PowerShellActivator,PythonActivator

C:\Users\pc\Downloads\New folder (2)>cd env
C:\Users\pc\Downloads\New folder (2)\env>cd scripts
C:\Users\pc\Downloads\New folder (2)\env\Scripts>activate
```

```
Command Prompt

(env) C:\Users\pc\Downloads\New folder (2)\env>cd..

(env) C:\Users\pc\Downloads\New folder (2)>python test.py
File "C:\Users\pc\Downloads\New folder (2)\test.py", line 2
    connect = psycopg2.connect(dbname="postgres", user="postgres".password="Suhani2004@",host="localhost",port="5432")
                                                                    ^
SyntaxError: invalid syntax

(env) C:\Users\pc\Downloads\New folder (2)>python test.py
Traceback (most recent call last):
  File "C:\Users\pc\Downloads\New folder (2)\test.py", line 1, in <module>
    import psycopg2
ModuleNotFoundError: No module named 'psycopg2'

(env) C:\Users\pc\Downloads\New folder (2)>python test.py
Traceback (most recent call last):
  File "C:\Users\pc\Downloads\New folder (2)\test.py", line 1, in <module>
    import psycopg2
ModuleNotFoundError: No module named 'psycopg2'

(env) C:\Users\pc\Downloads\New folder (2)>cd env

(env) C:\Users\pc\Downloads\New folder (2)\env>cd scripts

(env) C:\Users\pc\Downloads\New folder (2)\env\Scripts>deactivate
C:\Users\pc\Downloads\New folder (2)\env\Scripts>activate

(env) C:\Users\pc\Downloads\New folder (2)\env\Scripts>cd..

(env) C:\Users\pc\Downloads\New folder (2)\env>cd..

(env) C:\Users\pc\Downloads\New folder (2)>python test.py
Traceback (most recent call last):
  File "C:\Users\pc\Downloads\New folder (2)\test.py", line 1, in <module>
```

```
Command Prompt

import psycopg2
ModuleNotFoundError: No module named 'psycopg2'

(env) C:\Users\pc\Downloads\New folder (2)>python test.py
Traceback (most recent call last):
  File "C:\Users\pc\Downloads\New folder (2)\test.py", line 1, in <module>
    import psycopg2 # type: ignore
ModuleNotFoundError: No module named 'psycopg2'

(env) C:\Users\pc\Downloads\New folder (2)>pip install psycopg2-binary
Collecting psycopg2-binary
  Downloading psycopg2_binary-2.9.11-cp310-cp310-win_amd64.whl.metadata (5.1 kB)
  Downloading psycopg2_binary-2.9.11-cp310-cp310-win_amd64.whl (2.7 MB)
    2.7/2.7 MB 4.1 MB/s 0:00:00
Installing collected packages: psycopg2-binary
Successfully installed psycopg2-binary-2.9.11

(env) C:\Users\pc\Downloads\New folder (2)>pip show psycopg2-binary
Name: psycopg2-binary
Version: 2.9.11
Summary: psycopg2 - Python-PostgreSQL Database Adapter
Home-page: https://psycopg.org/
Author: Federico Di Gregorio
Author-email: fog@initd.org
License: LGPL with exceptions
Location: c:\users\pc\downloads\new folder (2)\env\lib\site-packages
Requires:
Required-by:

(env) C:\Users\pc\Downloads\New folder (2)>python test.py
Connected successfully!

(env) C:\Users\pc\Downloads\New folder (2)>
```

## Test.py

```
test.py 1 • cv_1.py cv_2.py cv_3.py cv_4.py

C:\Users\pc> Downloads > New folder (2) > test.py > ...
1 import psycopg2
2 connect = psycopg2.connect(dbname="postgres",
3 user="postgres",
4 password="Suhani2004@",
5 host="localhost",
6 port="5432")
7
8 print("connected successfully")
```

```
(env) C:\Users\pc\Downloads\New folder (2)>python test.py
Connected successfully!

(env) C:\Users\pc\Downloads\New folder (2)>python test.py
Table created successfully!

(env) C:\Users\pc\Downloads\New folder (2)>|
```

```
py 1 test.py 1 X cv_1.py cv_2.py cv_3.py cv_4.py require
C: > Users > pc > Downloads > New folder (2) > test.py > ...
3 conn = psycopg2.connect(
4     dbname="postgres",
5     user="postgres",
6     password="Suhani2004@",
7     host="localhost",
8     port="5432"
9 )
10 cursor = conn.cursor()
11 cursor.execute('create table employees(Name text, ID int, Age int);')
12 print("Table created successfully!")
13 conn.commit()
14 conn.close()
15
```

```
SQL Shell (psql)
Server [localhost]:
Database [postgres]:
Port [5432]:
Username [postgres]:
Password for user postgres:

psql (18.1)
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=# \d
          List of relations
Schema | Name          | Type  | Owner
-----|-----|-----|-----
public | employees     | table | postgres
public | students      | table | postgres
public | students_id_seq | sequence | postgres
(3 rows)

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

postgres=# |
```