<https://chatgpt.com/c/69006a8c-ae88-8323-af0d-5df5472201ff>

mydb=# select version();

PostgreSQL 14.19 (Ubuntu 14.19-0ubuntu0.22.04.1) on x86\_64-pc-linux-gnu, compiled by gcc (Ubuntu 11.4.0-1ubuntu1~22.04.2) 11.4.0, 64-bit

(1 row)

-------------------------------------------------------------------------

postgres=# \q

postgres@DESKTOP-46GTUQO:~$ psql

psql (14.19 (Ubuntu 14.19-0ubuntu0.22.04.1))

Type "help" for help.

postgres=#

postgres=# \c mydb

You are now connected to database "mydb" as user "postgres".

mydb-# \dt

List of relations

Schema | Name | Type | Owner

--------+-------+-------+----------

public | users | table | postgres

(1 row)

mydb-#

---------------------------------------------------------------------

**1️⃣ Enter the PostgreSQL shell**

Simply type:

psql

Your prompt should change to something like:

postgres=#

**2️⃣ List databases**

Inside the psql shell:

\l

or

\list

**3️⃣ Exit PostgreSQL shell**

\q

✅ So, the correct sequence **from your current state**:

postgres@DESKTOP-46GTUQO:~$ psql

postgres=# \l

postgres=# \q

If you want, I can give you **ready-to-use commands** to create a database, a user, and set a password inside WSL PostgreSQL. It’s very quick. Do you want me to do that?

**You said:**

postgres=# \list List of databases Name | Owner | Encoding | Collate | Ctype | Access privileges -----------+----------+----------+---------+---------+----------------------- postgres | postgres | UTF8 | C.UTF-8 | C.UTF-8 | template0 | postgres | UTF8 | C.UTF-8 | C.UTF-8 | =c/postgres + | | | | | postgres=CTc/postgres template1 | postgres | UTF8 | C.UTF-8 | C.UTF-8 | =c/postgres + | | | | | postgres=CTc/postgres (3 rows)

**ChatGPT said:**

Perfect! ✅ Your PostgreSQL is installed and running correctly inside WSL.

From your \list output, you can see the **default databases**:

| **Name** | **Owner** | **Notes** |
| --- | --- | --- |
| postgres | postgres | Default administrative database |
| template0 | postgres | System template, don’t modify |
| template1 | postgres | System template, default for new DBs |

**Next steps you can do:**

**1️⃣ Create a new database**

CREATE DATABASE mydb;

**2️⃣ Create a new user with a password**

CREATE USER myuser WITH ENCRYPTED PASSWORD 'mypassword';

**3️⃣ Grant privileges on the database**

GRANT ALL PRIVILEGES ON DATABASE mydb TO myuser;

**4️⃣ Connect to the new database**

\c mydb

💡 **Tip:**  
You can now manage PostgreSQL entirely from WSL using psql, or connect via tools like **pgAdmin** or your apps using:

Host: localhost

Port: 5432

Database: mydb

User: myuser

Password: mypassword

If you want, I can give you a **one-line setup** that creates a database, a user, and grants privileges automatically — ready to use in WSL.

Do you want me to do that?

Host: localhost

Port: 5432

Database: mydb

User: myuser

Password: Muhsina

muhsina@DESKTOP-46GTUQO:/mnt/c/WINDOWS/system32$ sudo service postgresql status

● postgresql.service - PostgreSQL RDBMS

Loaded: loaded (/lib/systemd/system/postgresql.service; enabled; vendor preset: enabled)

Active: active (exited) since Tue 2025-10-28 13:18:40 +06; 1min 0s ago

Process: 2719 ExecStart=/bin/true (code=exited, status=0/SUCCESS)

Main PID: 2719 (code=exited, status=0/SUCCESS)

Oct 28 13:18:40 DESKTOP-46GTUQO systemd[1]: Starting PostgreSQL RDBMS...

Oct 28 13:18:40 DESKTOP-46GTUQO systemd[1]: Finished PostgreSQL RDBMS.

muhsina@DESKTOP-46GTUQO:/mnt/c/WINDOWS/system32$ sudo service postgresql start

muhsina@DESKTOP-46GTUQO:/mnt/c/WINDOWS/system32$ sudo -i -u postgres

psql

Welcome to Ubuntu 22.04.5 LTS (GNU/Linux 5.15.167.4-microsoft-standard-WSL2 x86\_64)

\* Documentation: https://help.ubuntu.com

\* Management: https://landscape.canonical.com

\* Support: https://ubuntu.com/pro

System information as of Tue Oct 28 13:21:38 +06 2025

System load: 0.03 Processes: 42

Usage of /: 0.3% of 1006.85GB Users logged in: 1

Memory usage: 7% IPv4 address for eth0: 172.30.209.57

Swap usage: 0%

\* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s

just raised the bar for easy, resilient and secure K8s cluster deployment.

https://ubuntu.com/engage/secure-kubernetes-at-the-edge

This message is shown once a day. To disable it please create the

/var/lib/postgresql/.hushlogin file.

postgres@DESKTOP-46GTUQO:~$ \l

l: command not found

postgres@DESKTOP-46GTUQO:~$ sudo -i -u postgres

postgres is not in the sudoers file. This incident will be reported.

postgres@DESKTOP-46GTUQO:~$ psql

psql (14.19 (Ubuntu 14.19-0ubuntu0.22.04.1))

Type "help" for help.

postgres=# \list

List of databases

Name | Owner | Encoding | Collate | Ctype | Access privileges

-----------+----------+----------+---------+---------+-----------------------

postgres | postgres | UTF8 | C.UTF-8 | C.UTF-8 |

template0 | postgres | UTF8 | C.UTF-8 | C.UTF-8 | =c/postgres +

| | | | | postgres=CTc/postgres

template1 | postgres | UTF8 | C.UTF-8 | C.UTF-8 | =c/postgres +

| | | | | postgres=CTc/postgres

(3 rows)

postgres=# --version

postgres=# CREATE DATABASE mydb;

CREATE DATABASE

postgres=# CREATE USER myuser WITH ENCRYPTED PASSWORD 'muhsina';

CREATE ROLE

postgres=# GRANT ALL PRIVILEGES ON DATABASE mydb TO myuser;

GRANT

postgres=# \d

Did not find any relations.

postgres=# \c mydb

You are now connected to database "mydb" as user "postgres".

mydb=# \c mydb

You are now connected to database "mydb" as user "postgres".

mydb=# CREATE TABLE users (

id SERIAL PRIMARY KEY,

name VARCHAR(50),

email VARCHAR(100)

);

CREATE TABLE

mydb=# \dt

List of relations

Schema | Name | Type | Owner

--------+-------+-------+----------

public | users | table | postgres

(1 row)

mydb=# INSERT INTO users (name, email) VALUES

('Muhsina', 'muhsina.akter@gmail.com'),

('Ali', 'ali@example.com');

INSERT 0 2

mydb=# SELECT \* FROM users;

id | name | email

----+---------+-------------------------

1 | Muhsina | muhsina.akter@gmail.com

2 | Ali | ali@example.com

(2 rows)

mydb=# postgres –version

muhsina@DESKTOP-46GTUQO:/mnt/c/WINDOWS/system32$ cd /d

-bash: cd: /d: No such file or directory

muhsina@DESKTOP-46GTUQO:/mnt/c/WINDOWS/system32$ ..cd

..cd: command not found

muhsina@DESKTOP-46GTUQO:/mnt/c/WINDOWS/system32$ sudo apt update -o Acquire::ForceIPv4=true

[sudo] password for muhsina:

Hit:1 http://archive.ubuntu.com/ubuntu jammy InRelease

Hit:2 http://archive.ubuntu.com/ubuntu jammy-updates InRelease

Hit:3 http://security.ubuntu.com/ubuntu jammy-security InRelease

Hit:4 http://archive.ubuntu.com/ubuntu jammy-backports InRelease

Hit:5 https://repo.mongodb.org/apt/ubuntu jammy/mongodb-org/7.0 InRelease

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

muhsina@DESKTOP-46GTUQO:/mnt/c/WINDOWS/system32$ sudo apt install postgresql postgresql-contrib -o Acquire::ForceIPv4=true

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

The following additional packages will be installed:

libcommon-sense-perl libjson-perl libjson-xs-perl libllvm14 libpq5 libtypes-serialiser-perl libxslt1.1 postgresql-14

postgresql-client-14 postgresql-client-common postgresql-common ssl-cert sysstat

Suggested packages:

postgresql-doc postgresql-doc-14 isag

The following NEW packages will be installed:

libcommon-sense-perl libjson-perl libjson-xs-perl libllvm14 libpq5 libtypes-serialiser-perl libxslt1.1 postgresql postgresql-14

postgresql-client-14 postgresql-client-common postgresql-common postgresql-contrib ssl-cert sysstat

0 upgraded, 15 newly installed, 0 to remove and 8 not upgraded.

Need to get 24.4 MB/42.7 MB of archives.

After this operation, 162 MB of additional disk space will be used.

Do you want to continue? [Y/n] y

Get:1 http://archive.ubuntu.com/ubuntu jammy/main amd64 libcommon-sense-perl amd64 3.75-2build1 [21.1 kB]

Get:2 http://archive.ubuntu.com/ubuntu jammy/main amd64 libjson-perl all 4.04000-1 [81.8 kB]

Get:3 http://archive.ubuntu.com/ubuntu jammy/main amd64 libtypes-serialiser-perl all 1.01-1 [11.6 kB]

Get:4 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libjson-xs-perl amd64 4.040-0ubuntu0.22.04.1 [87.0 kB]

Get:5 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libllvm14 amd64 1:14.0.0-1ubuntu1.1 [24.0 MB]

Get:6 http://archive.ubuntu.com/ubuntu jammy/main amd64 postgresql-client-common all 238 [29.6 kB]

Get:7 http://archive.ubuntu.com/ubuntu jammy/main amd64 ssl-cert all 1.1.2 [17.4 kB]

Get:8 http://archive.ubuntu.com/ubuntu jammy/main amd64 postgresql-common all 238 [169 kB]

Get:9 http://archive.ubuntu.com/ubuntu jammy/main amd64 postgresql all 14+238 [3288 B]

Get:10 http://archive.ubuntu.com/ubuntu jammy/main amd64 postgresql-contrib all 14+238 [3292 B]

Fetched 24.4 MB in 47s (519 kB/s)

Preconfiguring packages ...

Selecting previously unselected package libcommon-sense-perl:amd64.

(Reading database ... 42670 files and directories currently installed.)

Preparing to unpack .../00-libcommon-sense-perl\_3.75-2build1\_amd64.deb ...

Unpacking libcommon-sense-perl:amd64 (3.75-2build1) ...

Selecting previously unselected package libjson-perl.

Preparing to unpack .../01-libjson-perl\_4.04000-1\_all.deb ...

Unpacking libjson-perl (4.04000-1) ...

Selecting previously unselected package libtypes-serialiser-perl.

Preparing to unpack .../02-libtypes-serialiser-perl\_1.01-1\_all.deb ...

Unpacking libtypes-serialiser-perl (1.01-1) ...

Selecting previously unselected package libjson-xs-perl.

Preparing to unpack .../03-libjson-xs-perl\_4.040-0ubuntu0.22.04.1\_amd64.deb ...

Unpacking libjson-xs-perl (4.040-0ubuntu0.22.04.1) ...

Selecting previously unselected package libllvm14:amd64.

Preparing to unpack .../04-libllvm14\_1%3a14.0.0-1ubuntu1.1\_amd64.deb ...

Unpacking libllvm14:amd64 (1:14.0.0-1ubuntu1.1) ...

Selecting previously unselected package libpq5:amd64.

Preparing to unpack .../05-libpq5\_14.19-0ubuntu0.22.04.1\_amd64.deb ...

Unpacking libpq5:amd64 (14.19-0ubuntu0.22.04.1) ...

Selecting previously unselected package libxslt1.1:amd64.

Preparing to unpack .../06-libxslt1.1\_1.1.34-4ubuntu0.22.04.4\_amd64.deb ...

Unpacking libxslt1.1:amd64 (1.1.34-4ubuntu0.22.04.4) ...

Selecting previously unselected package postgresql-client-common.

Preparing to unpack .../07-postgresql-client-common\_238\_all.deb ...

Unpacking postgresql-client-common (238) ...

Selecting previously unselected package postgresql-client-14.

Preparing to unpack .../08-postgresql-client-14\_14.19-0ubuntu0.22.04.1\_amd64.deb ...

Unpacking postgresql-client-14 (14.19-0ubuntu0.22.04.1) ...

Selecting previously unselected package ssl-cert.

Preparing to unpack .../09-ssl-cert\_1.1.2\_all.deb ...

Unpacking ssl-cert (1.1.2) ...

Selecting previously unselected package postgresql-common.

Preparing to unpack .../10-postgresql-common\_238\_all.deb ...

Adding 'diversion of /usr/bin/pg\_config to /usr/bin/pg\_config.libpq-dev by postgresql-common'

Unpacking postgresql-common (238) ...

Selecting previously unselected package postgresql-14.

Preparing to unpack .../11-postgresql-14\_14.19-0ubuntu0.22.04.1\_amd64.deb ...

Unpacking postgresql-14 (14.19-0ubuntu0.22.04.1) ...

Selecting previously unselected package postgresql.

Preparing to unpack .../12-postgresql\_14+238\_all.deb ...

Unpacking postgresql (14+238) ...

Selecting previously unselected package postgresql-contrib.

Preparing to unpack .../13-postgresql-contrib\_14+238\_all.deb ...

Unpacking postgresql-contrib (14+238) ...

Selecting previously unselected package sysstat.

Preparing to unpack .../14-sysstat\_12.5.2-2ubuntu0.2\_amd64.deb ...

Unpacking sysstat (12.5.2-2ubuntu0.2) ...

Setting up postgresql-client-common (238) ...

Setting up libpq5:amd64 (14.19-0ubuntu0.22.04.1) ...

Setting up libcommon-sense-perl:amd64 (3.75-2build1) ...

Setting up postgresql-client-14 (14.19-0ubuntu0.22.04.1) ...

update-alternatives: using /usr/share/postgresql/14/man/man1/psql.1.gz to provide /usr/share/man/man1/psql.1.gz (psql.1.gz) in auto mode

Setting up ssl-cert (1.1.2) ...

Setting up libllvm14:amd64 (1:14.0.0-1ubuntu1.1) ...

Setting up libtypes-serialiser-perl (1.01-1) ...

Setting up libjson-perl (4.04000-1) ...

Setting up libxslt1.1:amd64 (1.1.34-4ubuntu0.22.04.4) ...

Setting up sysstat (12.5.2-2ubuntu0.2) ...

Creating config file /etc/default/sysstat with new version

update-alternatives: using /usr/bin/sar.sysstat to provide /usr/bin/sar (sar) in auto mode

Created symlink /etc/systemd/system/sysstat.service.wants/sysstat-collect.timer → /lib/systemd/system/sysstat-collect.timer.

Created symlink /etc/systemd/system/sysstat.service.wants/sysstat-summary.timer → /lib/systemd/system/sysstat-summary.timer.

Created symlink /etc/systemd/system/multi-user.target.wants/sysstat.service → /lib/systemd/system/sysstat.service.

Setting up libjson-xs-perl (4.040-0ubuntu0.22.04.1) ...

Setting up postgresql-common (238) ...

Adding user postgres to group ssl-cert

Creating config file /etc/postgresql-common/createcluster.conf with new version

Building PostgreSQL dictionaries from installed myspell/hunspell packages...

Removing obsolete dictionary files:

Created symlink /etc/systemd/system/multi-user.target.wants/postgresql.service → /lib/systemd/system/postgresql.service.

Setting up postgresql-14 (14.19-0ubuntu0.22.04.1) ...

Creating new PostgreSQL cluster 14/main ...

/usr/lib/postgresql/14/bin/initdb -D /var/lib/postgresql/14/main --auth-local peer --auth-host scram-sha-256 --no-instructions

The files belonging to this database system will be owned by user "postgres".

This user must also own the server process.

The database cluster will be initialized with locale "C.UTF-8".

The default database encoding has accordingly been set to "UTF8".

The default text search configuration will be set to "english".

Data page checksums are disabled.

fixing permissions on existing directory /var/lib/postgresql/14/main ... ok

creating subdirectories ... ok

selecting dynamic shared memory implementation ... posix

selecting default max\_connections ... 100

selecting default shared\_buffers ... 128MB

selecting default time zone ... Asia/Dhaka

creating configuration files ... ok

running bootstrap script ... ok

performing post-bootstrap initialization ... ok

syncing data to disk ... ok

update-alternatives: using /usr/share/postgresql/14/man/man1/postmaster.1.gz to provide /usr/share/man/man1/postmaster.1.gz (postmaster.1.gz) in auto mode

Setting up postgresql-contrib (14+238) ...

Setting up postgresql (14+238) ...

Processing triggers for man-db (2.10.2-1) ...

Processing triggers for libc-bin (2.35-0ubuntu3.11) ...

muhsina@DESKTOP-46GTUQO:/mnt/c/WINDOWS/system32$ sudo service postgresql status

● postgresql.service - PostgreSQL RDBMS

Loaded: loaded (/lib/systemd/system/postgresql.service; enabled; vendor preset: enabled)

Active: active (exited) since Tue 2025-10-28 13:18:40 +06; 1min 0s ago

Process: 2719 ExecStart=/bin/true (code=exited, status=0/SUCCESS)

Main PID: 2719 (code=exited, status=0/SUCCESS)

Oct 28 13:18:40 DESKTOP-46GTUQO systemd[1]: Starting PostgreSQL RDBMS...

Oct 28 13:18:40 DESKTOP-46GTUQO systemd[1]: Finished PostgreSQL RDBMS.

muhsina@DESKTOP-46GTUQO:/mnt/c/WINDOWS/system32$ sudo service postgresql start

muhsina@DESKTOP-46GTUQO:/mnt/c/WINDOWS/system32$ sudo -i -u postgres

psql

Welcome to Ubuntu 22.04.5 LTS (GNU/Linux 5.15.167.4-microsoft-standard-WSL2 x86\_64)

\* Documentation: https://help.ubuntu.com

\* Management: https://landscape.canonical.com

\* Support: https://ubuntu.com/pro

System information as of Tue Oct 28 13:21:38 +06 2025

System load: 0.03 Processes: 42

Usage of /: 0.3% of 1006.85GB Users logged in: 1

Memory usage: 7% IPv4 address for eth0: 172.30.209.57

Swap usage: 0%

\* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s

just raised the bar for easy, resilient and secure K8s cluster deployment.

https://ubuntu.com/engage/secure-kubernetes-at-the-edge

This message is shown once a day. To disable it please create the

/var/lib/postgresql/.hushlogin file.

postgres@DESKTOP-46GTUQO:~$ \l

l: command not found

postgres@DESKTOP-46GTUQO:~$ sudo -i -u postgres

postgres is not in the sudoers file. This incident will be reported.

postgres@DESKTOP-46GTUQO:~$ psql

psql (14.19 (Ubuntu 14.19-0ubuntu0.22.04.1))

Type "help" for help.

postgres=# \list

List of databases

Name | Owner | Encoding | Collate | Ctype | Access privileges

-----------+----------+----------+---------+---------+-----------------------

postgres | postgres | UTF8 | C.UTF-8 | C.UTF-8 |

template0 | postgres | UTF8 | C.UTF-8 | C.UTF-8 | =c/postgres +

| | | | | postgres=CTc/postgres

template1 | postgres | UTF8 | C.UTF-8 | C.UTF-8 | =c/postgres +

| | | | | postgres=CTc/postgres

(3 rows)

postgres=# --version

postgres=# CREATE DATABASE mydb;

CREATE DATABASE

postgres=# CREATE USER myuser WITH ENCRYPTED PASSWORD 'muhsina';

CREATE ROLE

postgres=# GRANT ALL PRIVILEGES ON DATABASE mydb TO myuser;

GRANT

postgres=# \d

Did not find any relations.

postgres=# \c mydb

You are now connected to database "mydb" as user "postgres".

mydb=# \c mydb

You are now connected to database "mydb" as user "postgres".

mydb=# CREATE TABLE users (

id SERIAL PRIMARY KEY,

name VARCHAR(50),

email VARCHAR(100)

);

CREATE TABLE

mydb=# \dt

List of relations

Schema | Name | Type | Owner

--------+-------+-------+----------

public | users | table | postgres

(1 row)

mydb=# INSERT INTO users (name, email) VALUES

('Muhsina', 'muhsina.akter@gmail.com'),

('Ali', 'ali@example.com');

INSERT 0 2

mydb=# SELECT \* FROM users;

id | name | email

----+---------+-------------------------

1 | Muhsina | muhsina.akter@gmail.com

2 | Ali | ali@example.com

(2 rows)

mydb=# postgres --version

mydb-# SELECT version();

ERROR: syntax error at or near "postgres"

LINE 1: postgres

^

mydb=# select version();

version

------------------------------------------------------------------------------------------------------------------------------------------

PostgreSQL 14.19 (Ubuntu 14.19-0ubuntu0.22.04.1) on x86\_64-pc-linux-gnu, compiled by gcc (Ubuntu 11.4.0-1ubuntu1~22.04.2) 11.4.0, 64-bit

(1 row)

mydb=#

<https://chatgpt.com/c/690066a0-2c84-8321-9cd9-49b838d4b552>

Perfect! Here’s a **ready-to-run WSL PostgreSQL setup script**. This will:

* Update WSL packages
* Install PostgreSQL and contrib tools
* Start the PostgreSQL service
* Create a default user and database

You can copy this and run it directly in your WSL terminal.

#!/bin/bash

# ---------------------------

# PostgreSQL Setup Script for WSL (Ubuntu/Debian)

# ---------------------------

# 1. Update system packages

echo "Updating packages..."

sudo apt update -y

sudo apt upgrade -y

# 2. Install PostgreSQL

echo "Installing PostgreSQL..."

sudo apt install postgresql postgresql-contrib -y

# 3. Start PostgreSQL service

echo "Starting PostgreSQL service..."

sudo service postgresql start

# 4. Check status

sudo service postgresql status

# 5. Switch to postgres user

echo "Creating default PostgreSQL user and database..."

sudo -i -u postgres bash << EOF

# Set default user and database

DEFAULT\_USER="myuser"

DEFAULT\_DB="mydb"

# Create user (if not exists)

psql -tc "SELECT 1 FROM pg\_roles WHERE rolname = '$DEFAULT\_USER'" | grep -q 1 || createuser --interactive --pwprompt $DEFAULT\_USER

# Create database (if not exists)

psql -tc "SELECT 1 FROM pg\_database WHERE datname = '$DEFAULT\_DB'" | grep -q 1 || createdb -O $DEFAULT\_USER $DEFAULT\_DB

echo "User '$DEFAULT\_USER' and database '$DEFAULT\_DB' are ready."

EOF

# 6. Finish

echo "PostgreSQL setup completed. Connect with:"

echo "psql -U myuser -d mydb"

**How to use**

1. Save this as setup\_postgres.sh in WSL.
2. Make it executable:

chmod +x setup\_postgres.sh

1. Run it:

./setup\_postgres.sh

✅ After running, you can connect:

psql -U myuser -d mydb

* The script will ask for a password when creating the user.
* The database will be owned by that user.

If you want, I can also provide a **version that auto-sets a password without prompting** and configures PostgreSQL to allow Windows-side connections for tools like **pgAdmin**.