

# POSTGRESQL

- *Postgres is a Database in which we store so many different things.*

## 1. To enter PostgreSQL, we need to write the following steps-:

```
adityasaini_025@DESKTOP-LETFFFQ: ~$ sudo service postgresql start
* Starting PostgreSQL 12 database server
adityasaini_025@DESKTOP-LETFFFQ: ~$ service postgresql status
12/main (port 5433): online
adityasaini_025@DESKTOP-LETFFFQ: ~$ psql -U postgres
psql: error: FATAL: Peer authentication failed for user "postgres"
adityasaini_025@DESKTOP-LETFFFQ: ~$ sudo su postgres
postgres@DESKTOP-LETFFFQ:/home/adityasaini_025$ psql -U postgres
psql (12.8 (Ubuntu 12.8-0ubuntu0.20.04.1))
Type "help" for help.

postgres=#
```

## 2. To create a new user, we must write the following commands-:

**CREATE USER devsnest(username) WITH PASSWORD 'password';**

3. To create the database, we must write the following command-:

**CREATE DATABASE devs(database name);**

4. To grant the different types of privileges we must write the following command-:

**GRANT ALL PRIVILAGES ON DATABASE devs to devsnest;**

5. To enter the database created by you, write command-:

**\c devsnest(database name)**

6. To see the list of databases, write **\l**.

7. To delete the database, write command, **DROP DATABASE devnsest**

```
adityasaini_025@DESKTOP-LETFFQ2: ~
Type "help" for help.

postgres=# \c devs
FATAL: database "devs" does not exist
Previous connection kept
postgres=# \c devsnest
You are now connected to database "devsnest" as user "postgres".
devsnest=# \d
Did not find any relations.
devsnest=# /d
devsnest=# \d
Did not find any relations.
devsnest=# \l

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

devsnest=# DROP DATABASE devsnest_
```

8. To create & delete a table in PostgreSQL-:

```

adityasaini_025@DESKTOP-LETFFFQ: ~
postgres@DESKTOP-LETFFFQ:/home/adityasaini_025$ psql -U postgres
psql (12.8 (Ubuntu 12.8-0ubuntu0.20.04.1))
Type "help" for help.

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

postgres=# \c devsnest
You are now connected to database "devsnest" as user "postgres".
devsnest=# CREATE TABLE company(
devsnest(# NAME CHAR[50],
devsnest(# AGE INT,
devsnest(# ADDRESS TEXT,
devsnest(# ID INT NOT NULL
devsnest(# );
CREATE TABLE
devsnest=# \d
               List of relations
 Schema | Name    | Type  | Owner
-----+-----+-----+-----
 public | company | table | postgres
(1 row)

devsnest=# \d company
               Table "public.company"
 Column |      Type      | Collation | Nullable | Default
-----+-----+-----+-----+-----
 name   | character(1)[] |           |          |
 age    | integer         |           |          |
 address | text            |           |          |
 id     | integer         |           | not null |

devsnest=# DROP TABLE company;
DROP TABLE
devsnest=# \d
Did not find any relations.
devsnest=#

```