OS: Ubuntu on Mac(arm chip) virtual machine
C version=11.4.0
Postgres's version=14.9
Steps involved in install postgresSQL:
Downloaded and unzipped the postgresSql source code
Excited following commands:
Cd postgresql
./configure
make
make check(all 211 test cases passed)
make install
sudo adduser postgres(adding a user)
mkdir /usr/local/pgsql/data(creating directory to store the data)
chown postgres /usr/local/pgsql/data (giving database access to postgres user)
su - postgres(logging into postgres user)
/usr/local/pgsql/bin/initdb -D /usr/local/pgsql/data(initializing database)
/usr/local/pgsql/bin/pg_ctl -D /usr/local/pgsql/data -l logfile start(starting the database)
/usr/local/pgsql/bin/createdb test(creating a test database)
/usr/local/pgsql/bin/psql test(using test database)
Test scripts:
CREATE TABLE department (id serial PRIMARY KEY, name varchar(50) NOT NULL, manager_id int NOT NULL); INSERT INTO department (name, manager_id) VALUES ('Sales', 1), ('Marketing', 2), ('Engineering', 3), ('Finance', 4), ('Human Resources', 5);

CREATE TABLE students (id serial PRIMARY KEY, name varchar(255) NOT NULL, email varchar(255) NOT NULL, gpa numeric(2,1)); INSERT INTO students (name, email, gpa) VALUES ('John Doe', 'johndoe@example.com', 3.8), ('Jane Doe', 'janedoe@example.com', 3.9), ('Ashley Smith', 'ashleysmith@example.com', 3.7), ('Michael Brown', 'michaelbrown@example.com', 3.6), ('Maria Garcia', 'mariagarcia@example.com', 3.5);

```
Use \q to quit.
test-# \q
postgres@ubuntu:~$ gcc --version
gcc (Ubuntu 11.4.0-1ubuntu1~22.04) 11.4.0
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warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

postgres@ubuntu:~$ /usr/local/pgsql/bin/pg_ctl -D /usr/local/pgsql/data -l logfile start
pg_ctl: another server might be running; trying to start server anyway
waiting for server to start.... stopped waiting
pg_ctl: could not start server
Examine the log output.
postgres@ubuntu:~$ /usr/local/pgsql/bin/psql test
psql (14.9)
Type "help" for help.

test=# \dt
           List of relations
 Schema |    Name    | Type  |  Owner
--------+------------+-------+----------
 public | department | table | postgres
 public | students   | table | postgres
(2 rows)

test=# select * from department;
 id |      name       | manager_id
----+-----------------+------------
  1 | Sales           |          1
  2 | Marketing       |          2
  3 | Engineering     |          3
  4 | Finance         |          4
  5 | Human Resources |          5
(5 rows)

test=# select * from students;
 id |    name     | age |    address
----+-------------+-----+----------------
  1 | John Doe    |  18 | 123 Main Street
  2 | Jane Doe    |  19 | 456 Elm Street
  3 | Peter Parker |  20 | 789 Oak Street
(3 rows)

test=#
```