

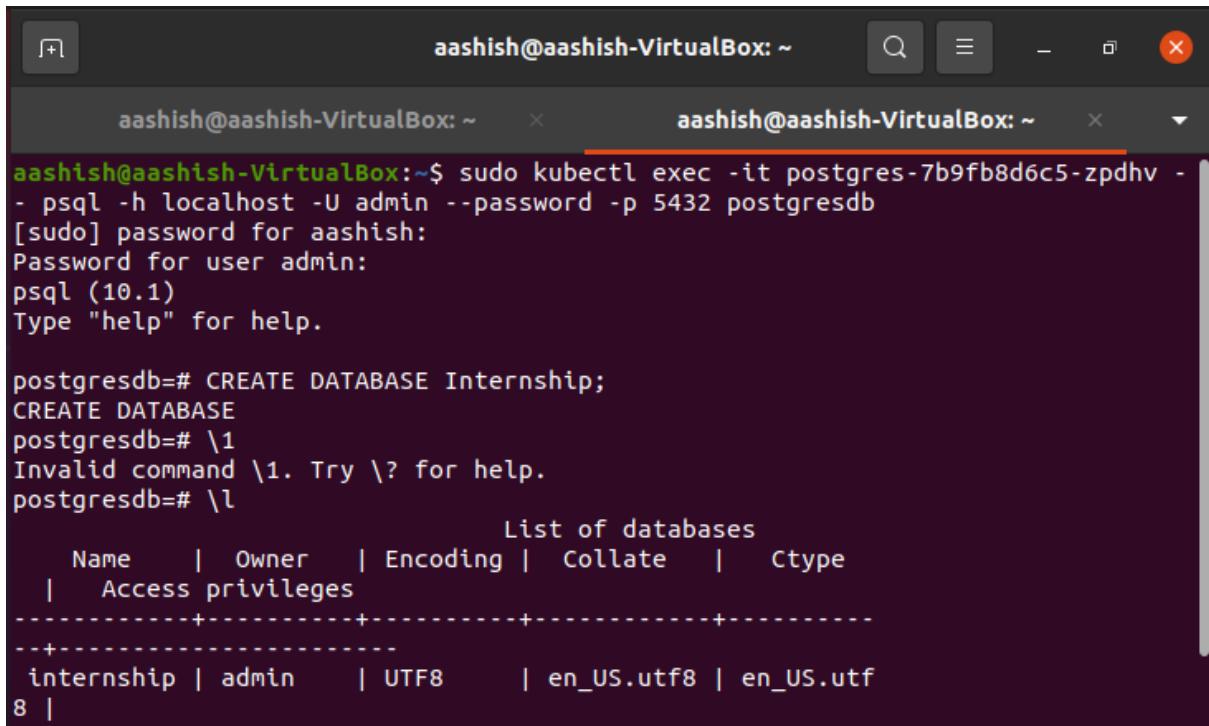
4.

Create a database(internship) and a few tables in the database.

Answer:

First of all, we connect to the Postgres database using postgres client using the following command as follows;

```
- sudo kubectl exec -it postgres-7b9fb8d6c5-zpdhv -- psql -h localhost -U admin  
--password -p 5432 postgresdb
```



The screenshot shows a terminal window with two tabs, both labeled "aashish@aashish-VirtualBox: ~". The bottom tab is active and displays the following command and its output:

```
aashish@aashish-VirtualBox:~$ sudo kubectl exec -it postgres-7b9fb8d6c5-zpdhv -  
- psql -h localhost -U admin --password -p 5432 postgresdb  
[sudo] password for aashish:  
Password for user admin:  
psql (10.1)  
Type "help" for help.  
  
postgresdb=# CREATE DATABASE Internship;  
CREATE DATABASE  
postgresdb=# \l  
Invalid command \l. Try \? for help.  
postgresdb=# \l  
          List of databases  
   Name    |  Owner   | Encoding | Collate  |  Ctype  
   | Access privileges  
-----+-----+-----+-----+-----  
-----+-----+-----+-----+-----  
internship | admin    | UTF8      | en_US.utf8 | en_US.utf  
8 |
```

Since, we are connected to the Postgres database. Now, we create a database named internship using following SQL as follows;

```
- CREATE DATABASE internship;
```

To check the created database, we use following SQL;

```
- \l
```

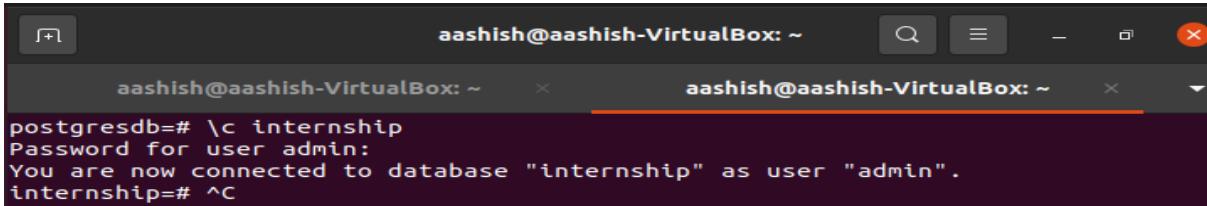
where; \l lists all the databases.

Now, inorder to create tables in the database, we need to connect to the database.

For that, we use following SQL;

```
- \c internship
```

where; \c change the database.



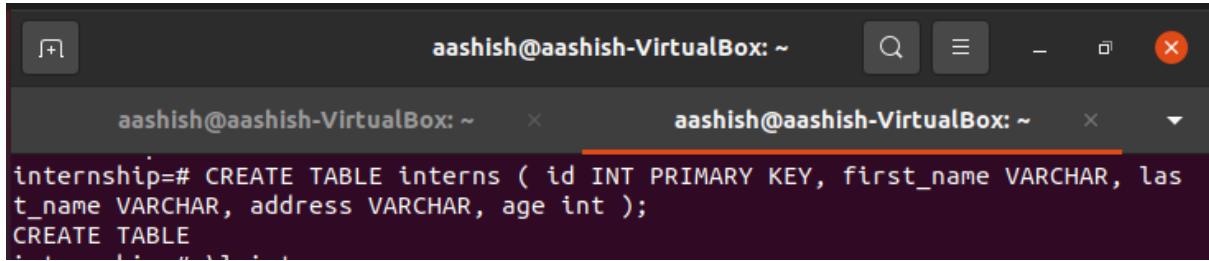
The screenshot shows a terminal window with two tabs, both labeled "aashish@aashish-VirtualBox: ~". The bottom tab is active and displays the following command and its output:

```
postgresdb=# \c internship  
Password for user admin:  
You are now connected to database "internship" as user "admin".  
internship=# ^C
```

We are connected to the internship database so, to create table in the database, we use following SQL;

- **CREATE TABLE interns(**

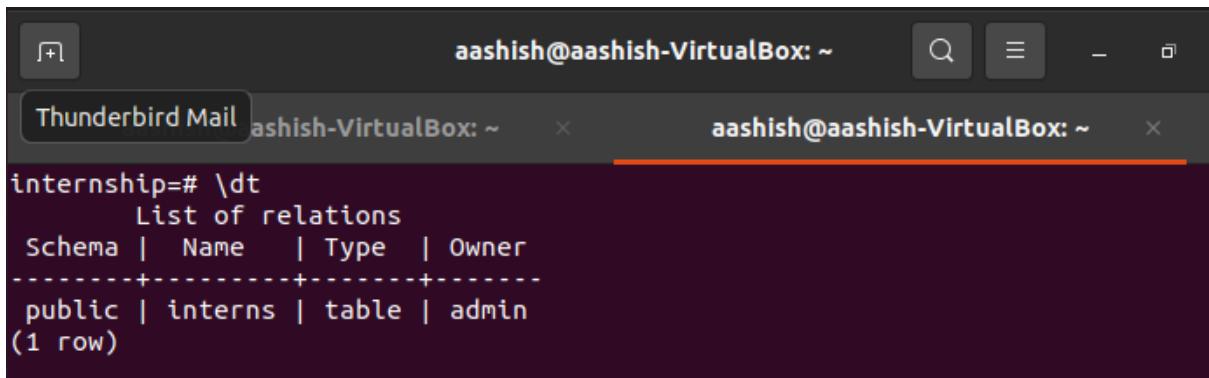
```
    id INT PRIMARY KEY,  
    first_name VARCHAR,  
    last_name VARCHAR,  
    address VARCHAR,  
    age INT  
);
```



```
aashish@aashish-VirtualBox: ~  
internship=# CREATE TABLE interns ( id INT PRIMARY KEY, first_name VARCHAR, last_name VARCHAR, address VARCHAR, age int );  
CREATE TABLE
```

To verify the table created in the internship database, we use following SQL;

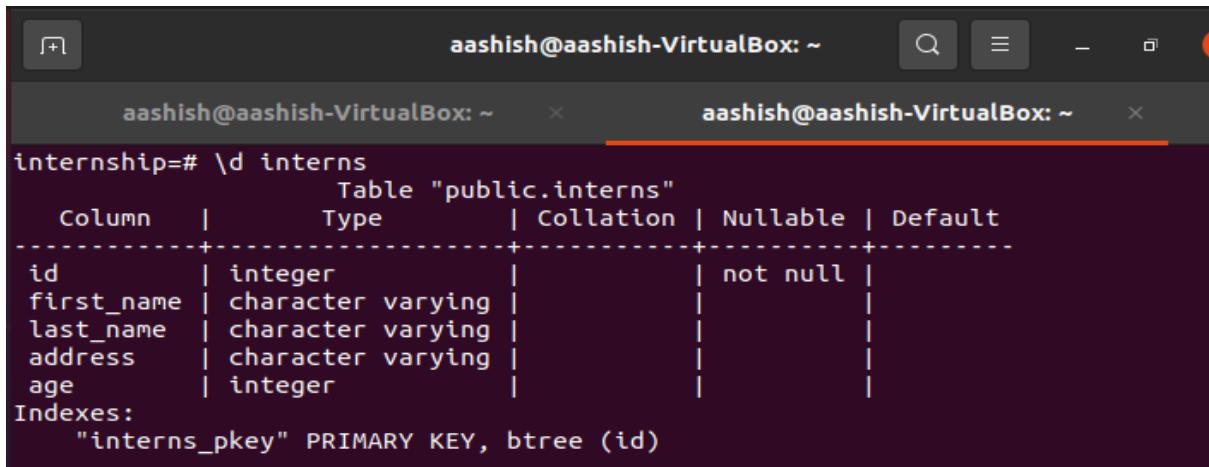
- **\dt**



```
aashish@aashish-VirtualBox: ~  
internship=# \dt  
      List of relations  
 Schema |   Name   | Type  | Owner  
-----+-----+-----+-----  
 public | interns | table | admin  
(1 row)
```

To check the schema of the interns table, we use following SQL;

- **\d interns**



```
aashish@aashish-VirtualBox: ~  
internship=# \d interns  
Table "public.interns"  
 Column |      Type       | Collation | Nullable | Default  
-----+-----+-----+-----+-----  
 id    | integer        |           | not null |  
 first_name | character varying |           |           |  
 last_name  | character varying |           |           |  
 address   | character varying |           |           |  
 age     | integer        |           |           |  
Indexes:  
 "interns_pkey" PRIMARY KEY, btree (id)
```