

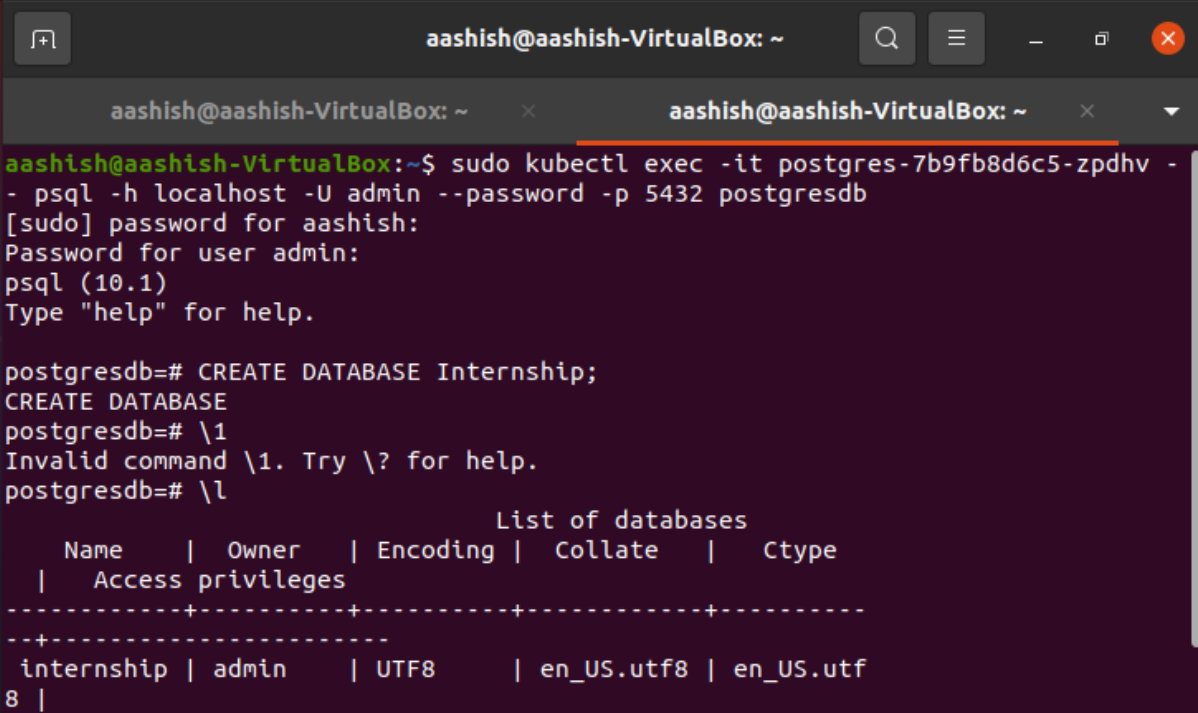
4.

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
```



```
aashish@aashish-VirtualBox: ~  
aashish@aashish-VirtualBox: ~  
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=# \1  
Invalid command \1. Try \? for help.  
postgresdb=# \l  
  
List of databases  
Name | Owner | Encoding | Collate | Ctype  
| Access privileges  
-----+-----+-----+-----+-----  
internship | admin | UTF8 | en_US.utf8 | en_US.utf8  
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
```

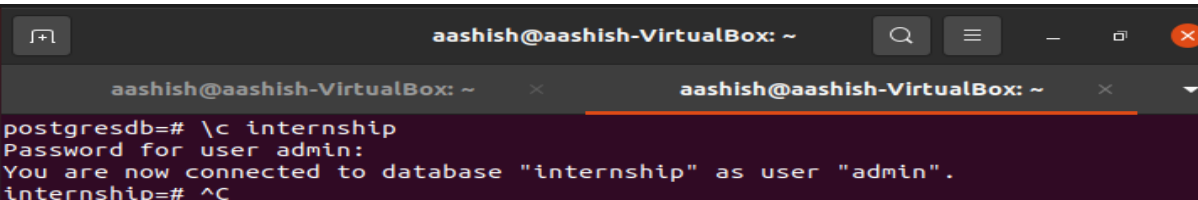
where; \l lists all the databases.

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

For that, we use following SQL;

```
- \c internship
```

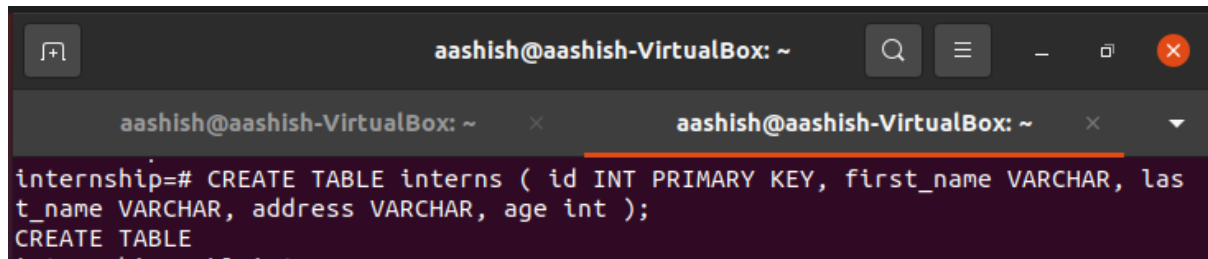
where; \c change the database.



```
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;

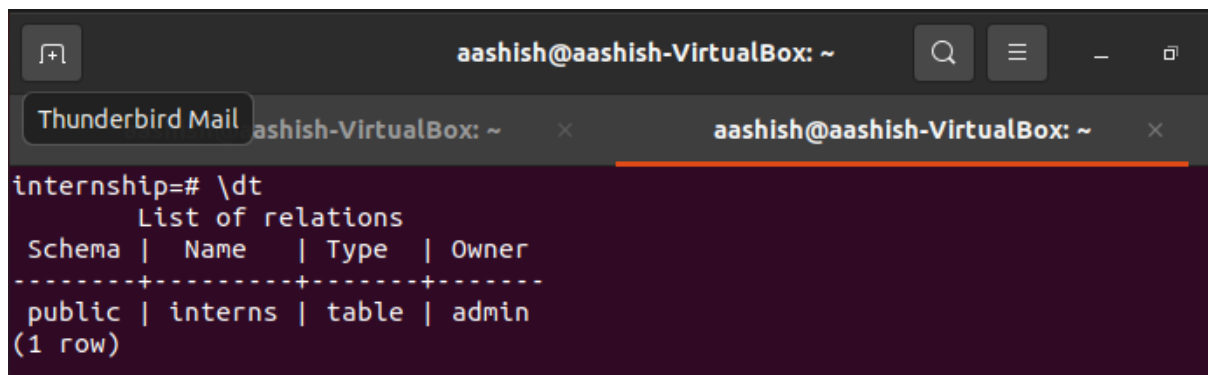
```
- CREATE TABLE interns(  
    id INT PRIMARY KEY,  
    first_name VARCHAR,  
    last_name VARCHAR,  
    address VARCHAR,  
    age INT  
);
```



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

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

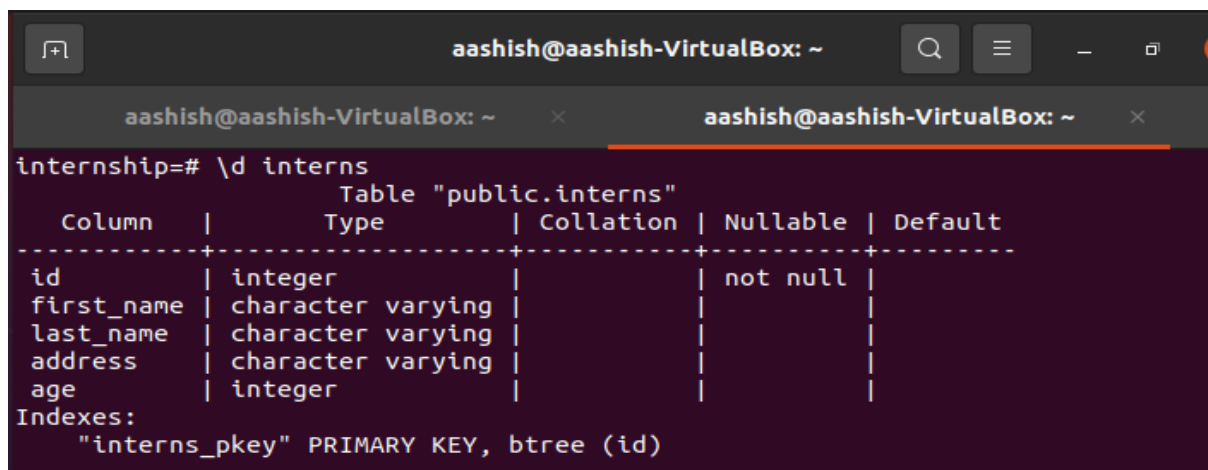
```
- \dt
```



```
aashish@aashish-VirtualBox: ~  
Thunderbird Mail aashish-VirtualBox: ~  
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: ~  
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)
```