

```
*****
****create a database 'abc'. connect to the database.create hr and
sales schema in the
database. create emp and dept table in hr schema.create product and
product_detail table in sales schema.
create role hr_role and sales_role.create users hr1,hr2,sales1,sales2.
grant all power of hr schema to hr_role and sales schhema to sales_role.
```

```
postgres=# create database abc;
CREATE DATABASE
postgres=# select current_user,current_database();
 current_user | current_database
-----+-----
 postgres     | postgres
(1 row)
```

```
postgres=# \c abc
You are now connected to database "abc" as user "postgres".
abc=# ----check existing schemas--;
abc=# \dn
List of schemas
Name | Owner
-----+-----
 public | postgres
(1 row)
```

```
abc=# create schema hr;
CREATE SCHEMA
abc=# create schema sales;
CREATE SCHEMA
abc=# ----now create table in hr schema(emp,dept)----;
abc=# show search_path;
 search_path
-----
 "$user", public
(1 row)
```

```
abc=# set search_path='hr';
SET
abc=# show search_path;
 search_path
-----
 hr
(1 row)
```

```
abc=# create table emp(id int primary key,name text);
CREATE TABLE
abc=# create table dept(did int,dname text);
CREATE TABLE
```

```

abc=# \d
      List of relations
 Schema | Name | Type | Owner
-----+-----+-----+-----
 hr     | dept | table | postgres
 hr     | emp  | table | postgres
(2 rows)

```

```

abc=# set search_path='sales';
SET
abc=# show search_path;
 search_path
-----
 sales
(1 row)

```

```

abc=#
abc=# create table product(pid int,pname text);
CREATE TABLE
abc=# create table product_detail(pid int,cate text);
CREATE TABLE
abc=# \d

```

```

      List of relations
 Schema | Name | Type | Owner
-----+-----+-----+-----
 sales | product | table | postgres
 sales | product_detail | table | postgres
(2 rows)

```

```

abc=# set search_path="$user", public;
SET
abc=# \d
Did not find any relations.
abc=# show search_path;
 search_path
-----
 "$user", public
(1 row)

```

```

abc=# create role hr_role;
CREATE ROLE
abc=# create role sales_role;
CREATE ROLE
abc=# create user hr1 password 'hr1';
CREATE ROLE
abc=# create user hr2 password 'hr2';
CREATE ROLE
abc=# create user sales1 password 'sales1';
CREATE ROLE
abc=# create user sales2 password 'sales2';
CREATE ROLE

```

```

abc=# \du

```

List of roles

Role name	Member of	Attributes
dev1	{developer}	
dev2	{developer}	
developer		Cannot login
hr1	{}	
hr2	{}	
hr_role		Cannot login
postgres		Superuser, Create role, Create DB, Replication, Bypass RLS
sales1	{}	
sales2	{}	
sales_role		Cannot login

```

abc=#
abc=# ---now grant all power of hr schema to hr_role and power of sales
schema to sales_role---;
abc=# alter schema hr owner to hr_role;
ALTER SCHEMA
abc=# alter schema sales owner to sales_role;
ALTER SCHEMA
abc=#
*****
*****

```