

```

*****create database test.connect to the database.create a schema
hr.create table t in hr schema. add some records to table.
create role r1.grant select on table t to the role r1.create user user1.grant r1 to
user1.
connect to the test database as user1. select the data from the table t.

```

```

-bash-4.2$ psql
Password for user postgres:
psql (12.8)
Type "help" for help.

```

```

postgres=#
postgres=# \l

```

List of databases					
Name	Owner	Encoding	Collate	Ctype	Access privileges
abc	postgres	UTF8	en_US.UTF-8	en_US.UTF-8	
postgres	postgres	UTF8	en_US.UTF-8	en_US.UTF-8	
prod	db1	UTF8	en_US.UTF-8	en_US.UTF-8	=T/db1
template0	postgres	UTF8	en_US.UTF-8	en_US.UTF-8	db1=CTc/db1 =c/postgres
postgres=CTc/postgres					
template1	postgres	UTF8	en_US.UTF-8	en_US.UTF-8	=c/postgres
postgres=CTc/postgres					

(5 rows)

```

postgres=# create database test;
CREATE DATABASE
postgres=# \c test
You are now connected to database "test" as user "postgres".
test=# create schema hr;
CREATE SCHEMA
test=# set search_path='hr';
SET

```

```

test=# create table t(id int);
CREATE TABLE
test=# insert into t values(1);
INSERT 0 1
test=# create role r1;
CREATE ROLE
test=# grant select on t to r1;
GRANT
test=# create user user1 password 'user1';
CREATE ROLE
test=# grant r1 to user1;
GRANT ROLE
test=# \q
-bash-4.2$ psql -U user1 -d test
Password for user user1:
psql (12.8)

```

Type "help" for help.

```
test=> show search_path;
      search_path
```

```
-----
"$user", public
(1 row)
```

```
test=> \d
Did not find any relations.
test=>
test=> set search_path='hr';
SET
```

```
test=> \d
Did not find any relations.
test=> select * from t;
ERROR:  relation "t" does not exist
LINE 1: select * from t;
                        ^
```

```
test=> select current_schema;
      current_schema
```

```
-----
(1 row)
```

*****if you are not owner of the schema and you still have privilege on that schema table "you can't use the privilege". So a additional permission is required on the schema*****

```
test=>
test=>
test=>
test=> \q
-bash-4.2$ psql -d test
Password for user postgres:
psql (12.8)
Type "help" for help.
```

```
test=# grant usage on schema hr to user1;
GRANT
test=#
test=# \q
-bash-4.2$ psql -U user1 -d test
Password for user user1:
psql (12.8)
Type "help" for help.
```

```
test=> set search_path='hr';
SET
test=> \d
      List of relations
 Schema | Name | Type  | Owner
-----+-----+-----+-----
 hr     | t    | table | postgres
(1 row)
```

```
test=> select * from t;
 id
----
  1
```

(1 row)

```
test=> select current_schema;  
current_schema
```

hr

(1 row)

```
test=>
```