Database granular data access

How to log in

I have exposed a postgres db for you to integrate with to conect to it you will need this comand

psql -h 77.33.207.161 -p 5432 -U limited_user -d postgres

-h is the host ip

-p is the port the the db is running on

-U is the user

-d is the datebase

The password is yourpassword

If you want to connect as the db admin repalce limited_user with postgres and the password is mysecretpassword

If you type \dt you will see all my tables like this

If you cant run psql you need to download it

How to download psql

For windows go to this link:

https://www.postgresql.org/download/windows/

For mac you can simply use the command:

brew install postgresql

For either of the 2 when you are done installing you should be able to type:

psql –verson

The data/allowed querys

If you want a list of the tables you can use the command \dt

```
postgres=# \dt
            List of relations
 Schema |  Name    | Type  |  Owner
--------+----------+-------+----------
 public | guests   | table | postgres
 public | items    | table | postgres
 public | persons  | table | postgres
 public | secrets  | table | postgres
(4 rows)
```

When it come to limited_user it have the following rights

Table	read	Write(INSERT, UPDATE, DELETE)	Allowed querys
guests	yes	no	SELECT * FROM guests_limited;
items	yes	yes	SELECT * FROM items;
persons	yes	no	SELECT * FROM person_limited;
secertes	no	no	SELECT * FROM secrets; (Access Dinited)

You can use SELECT and then the rows that the limited_user can see if you want, i have just set up some costume VIEW's (the last collum in the table above) to make it easy for the user to get the data that they need.

Why use the VIEW's?

The view are set up in a way so that the limited_user only get the data that it is allowed to see fx on the persons table there is a row called person_number that limited_user are not allowed

to see, so i made the VIEW like this:
CREATE VIEW person_limited AS

SELECT id, first_name, middle_name, last_name, email

FROM person;

So insted of needing to type SELECT id, first_name, middle_name, last_name, email FROM persons;

You can simply use the custom View.

As for the guests table it is made a bit different, because for that table the limited_user can see all the date except if the guest's status is vip, and there the View looks like this
CREATE VIEW guests_limited AS

SELECT id, name, status

FROM guests

WHERE status <> 'vip';