Databases (Key: 1644)
Create a role and a user

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Contents

1 Homework: Create a role and a user.

Try to create a role and a user with the following conditions in Postgres:

- Create a user, with a connection limit, password and 1 month validity.

- Create a role, assign read, update and delete permissions on a table named *"student"*.

- Assign said role to the user from the previous step.

1.1 Create a user, with a connection limit, password and 1 month validity.

```
1    -- Create the user "student_user" with limited connections, password and time
     -life of 1 month
2    CREATE USER student_user
3    WITH PASSWORD 'SecurePass123'
4    CONNECTION LIMIT 5
5    VALID UNTIL CURRENT_DATE + INTERVAL '1 month';
```
Listing 1: "PostgreSQL Role & Permission commands"

1.2 Create a role, assign read, update and delete permissions on a table named *"student"*.

```
1    -- Create the role with reading perms., updating and removing the table ''
     student"
2    CREATE ROLE student_role;
3
4    -- Granting specific perms. to the role in the table ''student"
5    GRANT SELECT, UPDATE, DELETE ON student TO student_role;
```
Listing 2: "PostgreSQL Role & Permission commands"

1.3 Assign said role to the user from the previous step.

```
1    -- Asigning the role to the previously created user (''student_user'')
2    GRANT student_role TO student_user;
```
Listing 3: "PostgreSQL Role & Permission commands"

2 References

[1] Ramez Elmasri, Shamkant B. Navathe. Fundamentals of Database Systems (GlobalEdition). Pearson 2017

[2] De Miguel Martínez, Adoración, Piattini, Mario, Esperanza, Marcos Diseño de bases de datos relacionales. México, Alfaomega, 2000.

[3] Kriegel, Alex; Trukhnov. SQL Bible, second edition, Willey 2008.

[4] Alan Beaulieu, Learning SQL: Generate, Manipulate, and Retrieve Data, O'Reilly, 3rd. Edition - 2020.

[5] Joan Casteel, Oracle 12c: SQL. Cengage Learning, Sep 11, 2015.

[6] IEEE, "Guide to Software Requirements Specifications," IEEE Std 830-1984. `https://chumpolm.files.wordpress.com/2018/09/ieee-std-830-1984.pdf`