



Utilizando PostgreSQL

Discentes

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Criando o banco de dados

Para realizar essa instrução, utilizei o comando:

```
create database db_igor;
```

```
C:\ProgramData\Microsoft\Win... x + -
Server [localhost]:
Database [postgres]:
Port [5432]:
Username [postgres]: rocha
Password for user rocha:
psql (14.2)
WARNING: Console code page (437) differs from Windows code page (1252)
8-bit characters might not work correctly. See psql reference
page "Notes for Windows users" for details.
Type "help" for help.

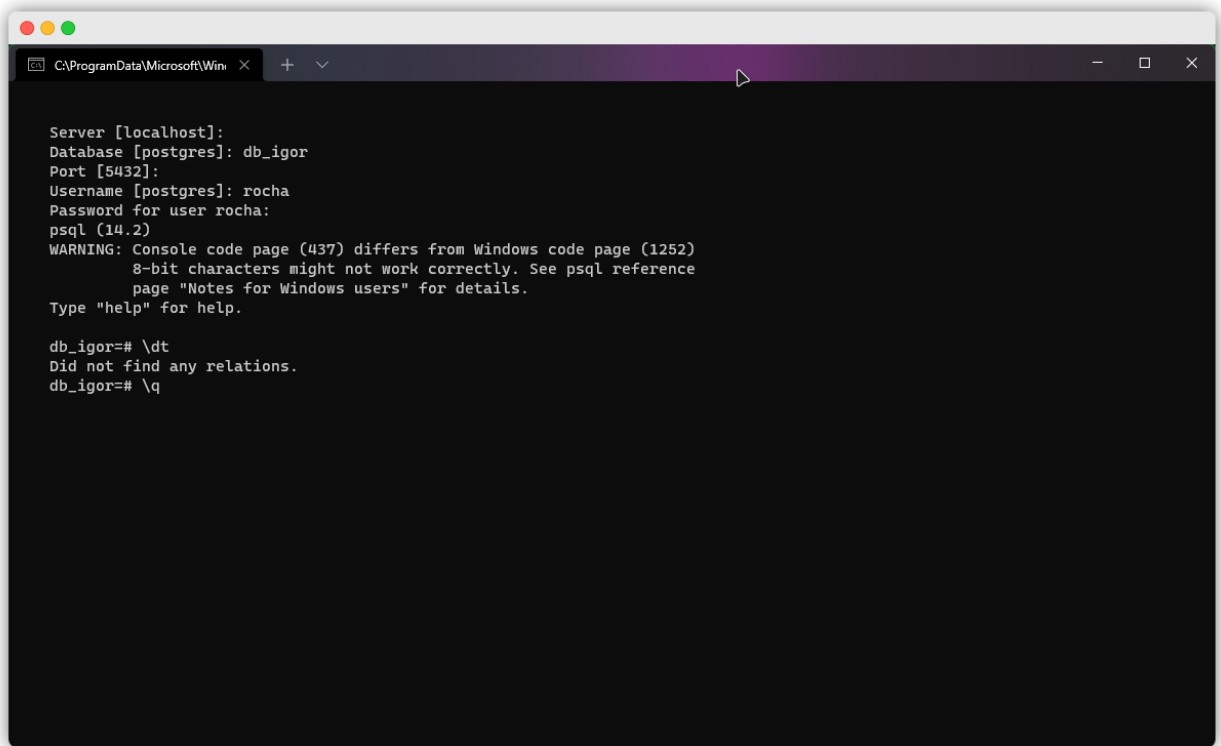
postgres=# create database db_igor;
CREATE DATABASE
postgres=# \l

      List of databases
  Name | Owner | Encoding | Collate | Ctype | Access privileges
-----+-----+-----+-----+-----+-----
 db_igor | rocha | UTF8 | English_United States.1252 | English_United States.1252 |
 postgres | postgres | UTF8 | English_United States.1252 | English_United States.1252 |
 template0 | postgres | UTF8 | English_United States.1252 | English_United States.1252 | =c/postgres +
 | | | | | postgres=CTc/postgres
 template1 | postgres | UTF8 | English_United States.1252 | English_United States.1252 | =c/postgres +
 | | | | | postgres=CTc/postgres
(4 rows)

postgres=#
```

Entrando no banco

Foi necessário fechar o terminal SQL para abrir novamente e selecionar o DB diferente.



```
C:\ProgramData\Microsoft\Win  x + v
Server [localhost]:
Database [postgres]: db_igor
Port [5432]:
Username [postgres]: rocha
Password for user rocha:
psql (14.2)
WARNING: Console code page (437) differs from Windows code page (1252)
         8-bit characters might not work correctly. See psql reference
         page "Notes for Windows users" for details.
Type "help" for help.

db_igor=# \dt
Did not find any relations.
db_igor=# \q
```

Manipulando tabelas

Criando tabelas

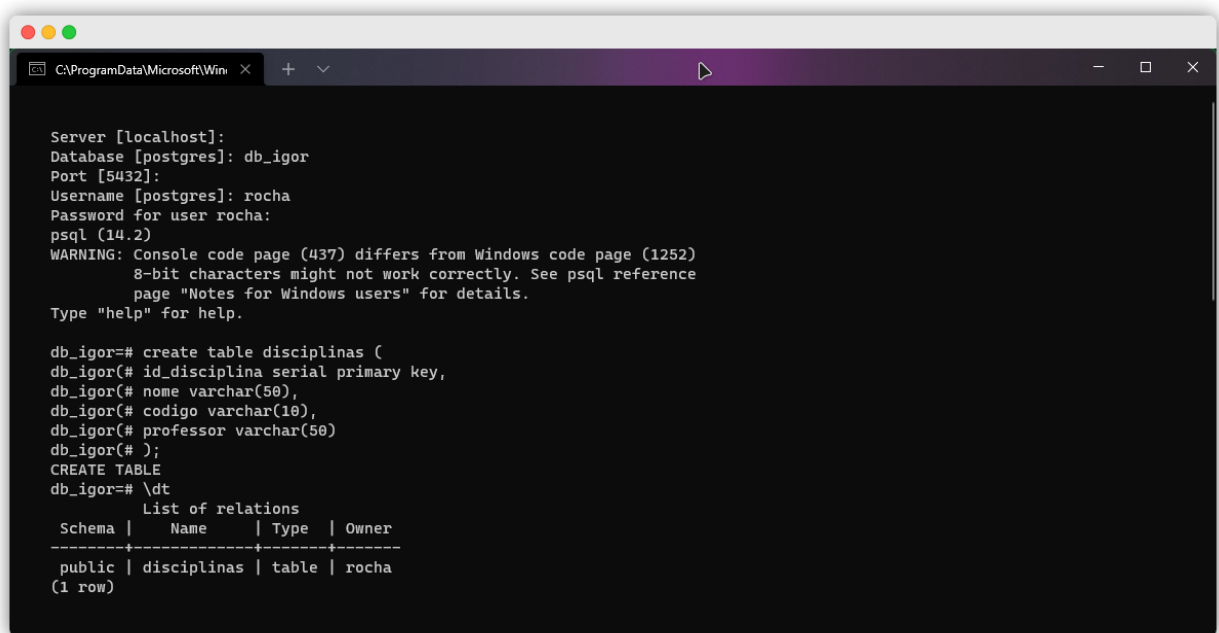
Foi criado uma tabela de disciplinas, com os campos:

id_disciplina,

nome,

código,

professor.



```
Server [localhost]:
Database [postgres]: db_igor
Port [5432]:
Username [postgres]: rocha
Password for user rocha:
psql (14.2)
WARNING: Console code page (437) differs from Windows code page (1252)
8-bit characters might not work correctly. See psql reference
page "Notes for Windows users" for details.
Type "help" for help.

db_igor=# create table disciplinas (
db_igor(# id_disciplina serial primary key,
db_igor(# nome varchar(50),
db_igor(# codigo varchar(10),
db_igor(# professor varchar(50)
db_igor(# );
CREATE TABLE
db_igor=# \dt
          List of relations
 Schema |   Name   | Type  | Owner
-----+-----+-----+-----
 public | disciplinas | table | rocha
(1 row)
```

Inserindo valores na tabela

Foi inserido na tabela as disciplinas de Banco de Dados 1 e Computação Gráfica.

```
C:\ProgramData\Microsoft\Win  x + v

db_igor=# insert into disciplinas (nome,codigo,professor) values ('Banco de Dados 1','CET090','Marcelo Ossamu Honda');
INSERT 0 1
db_igor=# insert into disciplinas (nome,codigo,professor) values ('Computação Gráfica','CET080','Marcelo Ossamu Honda');
INSERT 0 1
db_igor=# \dt
          List of relations
 Schema |      Name      | Type | Owner
-----+-----+-----+-----
 public | disciplinas    | table | rocha
(1 row)

db_igor=# select * from disciplinas;
 id_disciplina |      nome      | codigo | professor
-----+-----+-----+-----
          1 | Banco de Dados 1 | CET090 | Marcelo Ossamu Honda
          2 | Computação Gráfica | CET080 | Marcelo Ossamu Honda
```

Atualizando dados da tabela

Nesse teste, fiz a alteração do nome do professor da matéria de Banco de Dados 1, buscando pelo id da disciplina.

```
C:\ProgramData\Microsoft\Win  x + v

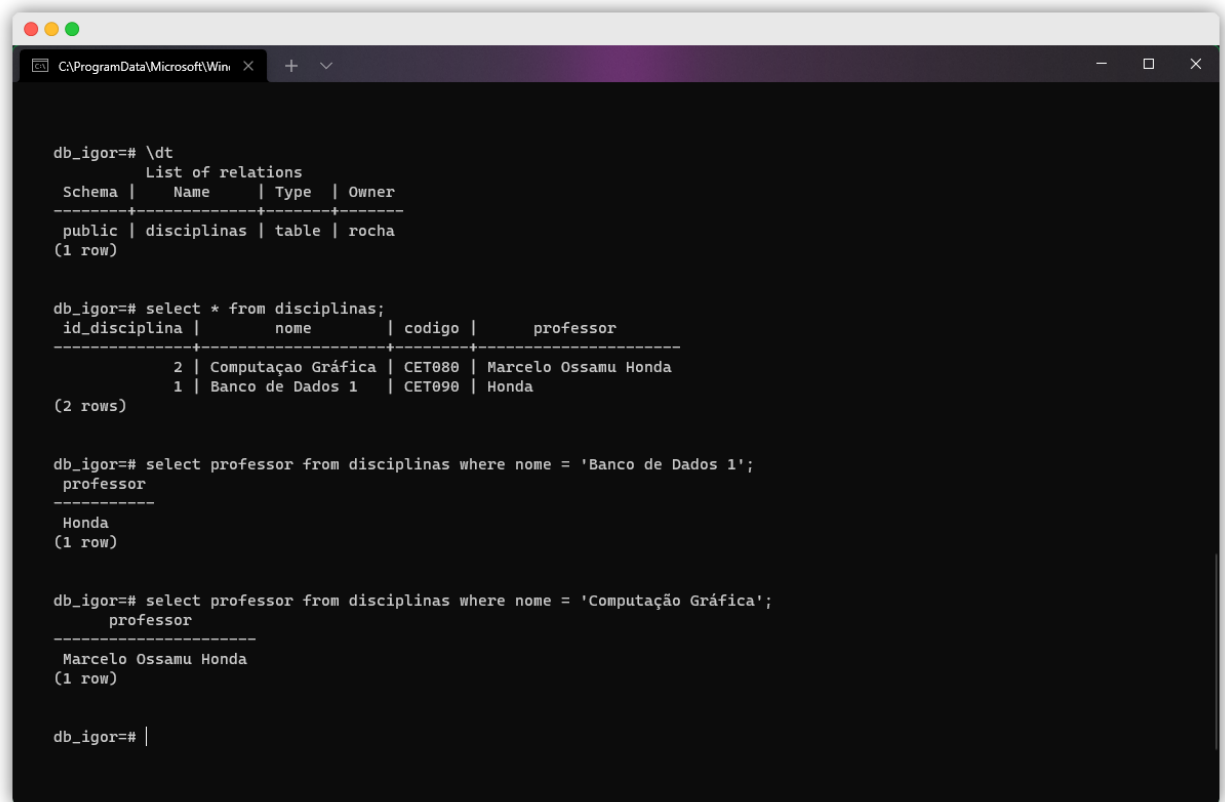
db_igor=# select * from disciplinas;
 id_disciplina |      nome      | codigo | professor
-----+-----+-----+-----
          1 | Banco de Dados 1 | CET090 | Marcelo Ossamu Honda
          2 | Computação Gráfica | CET080 | Marcelo Ossamu Honda
(2 rows)

db_igor=# update disciplinas
db_igor=# set professor = 'Honda'
db_igor=# where id_disciplina = 1;
UPDATE 1
db_igor=# select * from disciplinas;
 id_disciplina |      nome      | codigo | professor
-----+-----+-----+-----
          2 | Computação Gráfica | CET080 | Marcelo Ossamu Honda
          1 | Banco de Dados 1 | CET090 | Honda
(2 rows)

db_igor=# |
```

Buscando dados na tabela

Nesse teste, busquei pelo professor da disciplina que tem nome 'Banco de Dados 1' e depois busquei pela disciplina 'Computação Gráfica'.



```
db_igor=# \dt
          List of relations
 Schema | Name      | Type  | Owner
-----+-----+-----+-----
 public | disciplinas | table | rocha
(1 row)

db_igor=# select * from disciplinas;
 id_disciplina | nome           | codigo | professor
-----+-----+-----+-----
          2 | Computação Gráfica | CET080 | Marcelo Ossamu Honda
          1 | Banco de Dados 1  | CET090 | Honda
(2 rows)

db_igor=# select professor from disciplinas where nome = 'Banco de Dados 1';
 professor
-----
 Honda
(1 row)

db_igor=# select professor from disciplinas where nome = 'Computação Gráfica';
 professor
-----
 Marcelo Ossamu Honda
(1 row)

db_igor=# |
```