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**ITS 180 WEEK 2 ASSIGNMENT 1 PRACTICAL EXERCISES (CHAPTER 4)**

**DIRECTIONS:**

You will be creating the “bpsimple” database that is mentioned in your textbook. I have posted the \*.sql files that contain all of the SQL code to create all of the tables and the data to populate those tables. Follow the Steps below carefully in creating and manipulating the database. Once you have completed creating and populating the database, you will be asked to type in SQL statements to manipulate the database.

**IMPORTANT NOTES:**

1. Before starting these Exercises, you must successfully complete the installation process of the latest version of PostgreSQL (version 13.2).
2. The \*.sql files you need to download are found in the Lesson 3 Supplemental Material link in NEO.
3. You must place these \*.sql files in the scripts folder found in your computer’s C: drive at the following location:

C:\Program Files\PostgreSQL\13\scripts

1. Start the SQL shell (psql).
2. You will be asked to logon to the PostgreSQL server by going through the following:

Server [localhost]: (press ENTER)

Database [postgres]: (press ENTER)

Port [5432]: (press ENTER)

Username [postgres]: (press ENTER)

Password for user postgres: (this is the password that you created during the installation process)

1. What is the output?

A warning

1. What does the command prompt look like?

Texto

Descrição gerada automaticamente

1. At the prompt, enter the following line:

create user User1;

1. What is the output?

postgres=# create user User1;

CREATE ROLE

postgres=#

1. At the prompt, enter the following line:

create database bpsimple;

1. What is the output?

postgres=# create database bpsimple;

CREATE DATABASE

postgres=#

1. At the prompt, enter the following command:

\l

1. What is the output?

Tela de computador com texto preto sobre fundo branco

Descrição gerada automaticamente

1. Describe the function of this command.

It lists all local databases

1. At the prompt, enter the following command:

\c bpsimple;

1. What is the output?

postgres=# \c bpsimple;

You are now connected to database "bpsimple" as user "postgres".

bpsimple=#

13b. At the prompt, enter the following command:

\i create\_tables-bpsimple.sql;

1. At the prompt, enter the following command:

\dt

1. What is the output?

Texto

Descrição gerada automaticamente

1. Describe the function of this command.

this will show all the tables in the database

1. At the prompt, enter the following command:

\i pop-all-tables.sql;

1. What is the output?

Texto

Descrição gerada automaticamente

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The next set of exercises give you the opportunity to enter SQL statements to retrieve and data in the database. Provide the output after each statement execution.

1. At the prompt, enter the following statement:

select \* from item;

1. What is the output?

Texto

Descrição gerada automaticamente

1. At the prompt, enter the following statement:

select town, lname from customer;

Texto

Descrição gerada automaticamente

1. At the prompt, enter the following statement:

select town, lname as "Last Name" from customer;

Texto

Descrição gerada automaticamente

1. At the prompt, enter the following statement:

select town, lname as "Last Name" from customer order by town;

Texto

Descrição gerada automaticamente

1. At the prompt, enter the following statement:

SELECT town, lname AS "Last Name" FROM customer ORDER BY town DESC, lname ASC;

Texto

Descrição gerada automaticamente

1. At the prompt, enter the following statement:

select town from customer order by town;

Texto

Descrição gerada automaticamente

1. At the prompt, enter the following statement:

select distinct town from customer;

Texto

Descrição gerada automaticamente

1. At the prompt, enter the following statement:

select distinct town, fname from customer;

Texto

Descrição gerada automaticamente

1. At the prompt, enter the following statement:

select description, cost\_price from item;

Texto

Descrição gerada automaticamente

1. At the prompt, enter the following statement:

select description, cost\_price \* 100 from item;

Texto

Descrição gerada automaticamente

1. At the prompt, enter the following statement:

select title, fname, lname, town FROM customer WHERE title <> 'Mr' AND (town = 'Bingham' OR town = 'Nicetown');

Tela de computador com fundo preto

Descrição gerada automaticamente

1. At the prompt, enter the following statement:

select customer\_id, town, lname from customer where customer\_id between 5 and 9;

Tela de computador com texto preto sobre fundo branco

Descrição gerada automaticamente

1. At the prompt, enter the following statement:

select fname, lname from customer where fname like '\_a%';

Texto

Descrição gerada automaticamente

1. At the prompt, enter the following statement:

select customer\_id, town from customer limit 5;

Texto

Descrição gerada automaticamente

1. At the prompt, enter the following statement:

select \* from orderinfo where date\_part('month',date\_placed) = 9;

Texto

Descrição gerada automaticamente

1. At the prompt, enter the following statement:

select customer.fname, orderinfo.date\_placed from customer, orderinfo where customer.customer\_id = 8 and customer.customer\_id = orderinfo.customer\_id;

Tela de computador com texto preto sobre fundo branco

Descrição gerada automaticamente

1. At the prompt, enter the following statement:

select description, cost\_price, barcode\_ean from item, barcode where barcode.item\_id = item.item\_id order by cost\_price;

Texto

Descrição gerada automaticamente

1. You will be entering multiple steps to generate this output. For each prompt (i.e. “bpsimple=#” as shown below), enter the statements as is and press ENTER.

bpsimple=# select customer.fname, customer.lname, orderinfo.date\_placed,

bpsimple-# item.description, orderline.quantity

bpsimple-# from customer, orderinfo, orderline, item

bpsimple-# where

bpsimple-# customer.customer\_id = orderinfo.customer\_id and

bpsimple-# orderinfo.orderinfo\_id = orderline.orderinfo\_id and

bpsimple-# orderline.item\_id = item.item\_id and

bpsimple-# customer.fname = 'Ann' and

bpsimple-# customer.lname = 'Stones';

Texto

Descrição gerada automaticamente