

PASO A PASO DE LA PRACTICA DE CONSOLIDACIÓN EN CAPTURAS DE PANTALLA

José Rivera.

Creación de la base de datos y tablas Customer, staff y actor:

```
Terminal - jose@debian12: ~
Archivo Editar Ver Terminal Pestañas Ayuda
jose@debian12:~$ export PGUSER=postgres
jose@debian12:~$ psql
Contraseña para usuario postgres:
psql (17.0 (Debian 17.0-1.pgdg120+1))
Digite «help» para obtener ayuda.

postgres=# CREATE DATABASE dvdrental;
CREATE DATABASE
postgres=# \c dvdrental
Ahora está conectado a la base de datos «dvdrental» con el usuario «postgres».
dvdrental=# CREATE TABLE customer (
    customer_id SERIAL PRIMARY KEY,
    store_id INTEGER NOT NULL,
    first_name VARCHAR(45) NOT NULL,
    last_name VARCHAR(45) NOT NULL,
    email VARCHAR(80),
    address_id INTEGER NOT NULL,
    activebool boolean DEFAULT true NOT NULL,
    create_update DATE DEFAULT now(),
    last_update DATE DEFAULT now(),
    active integer
);
CREATE TABLE
dvdrental=#
```

```
Terminal - jose@debian12: ~
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dvdrental=# CREATE TABLE staff (
    staff_id SERIAL PRIMARY KEY,
    first_name VARCHAR(45) NOT NULL,
    last_name VARCHAR(45) NOT NULL,
    address_id INTEGER NOT NULL,
    email VARCHAR(50),
    store_id INTEGER NOT NULL,
    active BOOLEAN DEFAULT true NOT NULL,
    username VARCHAR(16) NOT NULL,
    password VARCHAR(40),
    last_update DATE DEFAULT now()
);
CREATE TABLE
dvdrental=# CREATE TABLE store (
    store_id SERIAL PRIMARY KEY,
    manager_staff_id INTEGER NOT NULL,
    address_id INTEGER NOT NULL,
    last_update DATE DEFAULT now()
);
CREATE TABLE
dvdrental=# ALTER TABLE customer ADD CONSTRAINT customer_address_id_fk FOREIGN KEY (address_id) REFERENCES address(address_id);
ALTER TABLE
dvdrental=#
```

Listado de las tablas creadas en la base de datos 'dvdrental':

```
Terminal - jose@debian12: ~
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dvdrental=# \dt
      Listado de relaciones
Esquema |  Nombre  | Tipo | Dueño
-----+-----+-----+-----
public  | actor    | tabla | postgres
public  | address  | tabla | postgres
public  | category | tabla | postgres
public  | city     | tabla | postgres
public  | country  | tabla | postgres
public  | customer | tabla | postgres
public  | film     | tabla | postgres
public  | film_actor | tabla | postgres
public  | film_category | tabla | postgres
public  | inventory | tabla | postgres
public  | language | tabla | postgres
public  | payment  | tabla | postgres
public  | rental   | tabla | postgres
public  | staff    | tabla | postgres
public  | store    | tabla | postgres
(15 filas)

dvdrental=#
```

Construye las siguientes consultas:

- Aquellas usadas para insertar, modificar y eliminar un Customer, Staff y Actor.

Consultas en tabla Customer:

```
Terminal - jose@debian12: ~
Archivo  Editar  Ver  Terminal  Pestañas  Ayuda
dvdrental=# INSERT INTO customer (store_id,first_name,last_name,email,address_id,activebool,create_update,last_update,active) VALUES (2,'Jose','Guerra','jose.rivera@sakilacustomer.org',10,'True','2024-02-11','2024-02-11',1);
INSERT 0 1
dvdrental=# SELECT customer_id FROM customer WHERE first_name LIKE 'Jose';
 customer_id
-----
              7
(1 fila)

dvdrental=# UPDATE customer SET last_name='Rivera' WHERE customer_id=7;
UPDATE 1
dvdrental=# SELECT customer_id,first_name,last_name,email FROM customer WHERE customer_id=7;
 customer_id | first_name | last_name | email
-----+-----+-----+-----
              7 | Jose      | Rivera   | jose.rivera@sakilacustomer.org
(1 fila)

dvdrental=# DELETE FROM customer WHERE customer_id=7;
DELETE 1
dvdrental=#
```

Consultas en tabla Staff:

```
Terminal - jose@debian12: ~
Archivo Editar Ver Terminal Pestañas Ayuda

dvdrental=# INSERT INTO staff (first_name,last_name,address_id,email,store_id,active,username,password,last_update) VALUES ('Jose','Rivera',1,'Jose.Rivera@sakilastaff.com',1,'True','Mike','1234','2024-11-02');
INSERT 0 1
dvdrental=# SELECT staff_id FROM staff WHERE last_name LIKE '%Rivera%';
 staff_id
-----
         5
(1 fila)

dvdrental=# SELECT staff_id, first_name, last_name FROM staff WHERE last_name LIKE '%Rivera%';
 staff_id | first_name | last_name
-----+-----+-----
         5 | Jose      | Rivera
(1 fila)

dvdrental=# UPDATE staff SET username='jose' WHERE staff_id=5;
UPDATE 1
dvdrental=# SELECT staff_id, first_name, last_name, username FROM staff WHERE last_name LIKE '%Rivera%';
 staff_id | first_name | last_name | username
-----+-----+-----+-----
         5 | Jose      | Rivera   | jose
(1 fila)

dvdrental=# DELETE FROM staff WHERE staff_id=5;
DELETE 1
dvdrental=#
```

Consultas en tabla actor:

```
Terminal - jose@debian12: ~
Archivo  Editar  Ver  Terminal  Pestañas  Ayuda
dvdrental=# INSERT INTO actor (first_name,last_name,last_update) VALUES ('Johnny','Lollobrigida','
2013-05-26');
INSERT 0 1
dvdrental=# UPDATE actor SET first_name='Jose',last_name='Rivera' WHERE last_name LIKE '%Lollobrig
ida';
UPDATE 1
dvdrental=# SELECT * FROM actor;
 actor_id | first_name | last_name | last_update
-----+-----+-----+-----
        1 | Penelope  | Guinness | 2013-05-26
        2 | Nick      | Wahlberg | 2013-05-26
        3 | Ed        | Chase   | 2013-05-26
        4 | Jennifer  | Davis    | 2013-05-26
        5 | Jose      | Rivera   | 2013-05-26
(5 filas)
dvdrental=# DELETE FROM actor WHERE actor_id=5;
DELETE 1
dvdrental=#
```

- Listar todas las “rental” con los datos del “customer” dado un año y mes.

```
Terminal - jose@debian12: ~
Archivo  Editar  Ver  Terminal  Pestañas  Ayuda
dvdrental=#
dvdrental=# SELECT rental.rental_id, rental.rental_date, rental.customer_id, customer.first_name,
customer.last_name FROM rental LEFT JOIN customer ON rental.customer_id = customer.customer_id
WHERE rental_date BETWEEN '2005-06-01' AND '2005-06-30' ORDER BY rental_id DESC;
rental_id | rental_date | customer_id | first_name | last_name
-----+-----+-----+-----+-----
      112 | 2005-06-25 |           2 | Patricia  | Johnson
      111 | 2005-06-25 |           2 | Patricia  | Johnson
      110 | 2005-06-25 |           2 | Patricia  | Johnson
      109 | 2005-06-25 |           3 | Linda     | Williams
      108 | 2005-06-24 |           2 | Patricia  | Johnson
      107 | 2005-06-24 |           1 | Mary      | Smith
      106 | 2005-06-24 |           1 | Mary      | Smith
      105 | 2005-06-24 |           1 | Mary      | Smith
      104 | 2005-06-24 |           1 | Mary      | Smith
      103 | 2005-06-24 |           1 | Mary      | Smith
(10 filas)
dvdrental=#
```

- Listar Número, Fecha (payment_date) y Total (amount) de todas las “payment”.

```
Terminal - jose@debian12: ~
Archivo  Editar  Ver  Terminal  Pestañas  Ayuda
dvdrental=# SELECT payment_id AS número ,payment_date AS fecha, amount AS total FROM payment ORDER BY amount DESC LIMIT 10;
número | fecha      | total
-----+-----+-----
17517  | 2007-07-20 | 8.99
18517  | 2007-07-20 | 8.99
17507  | 2007-12-20 | 7.99
17503  | 2007-02-15 | 7.99
17516  | 2007-07-18 | 6.99
17513  | 2007-08-16 | 6.99
18516  | 2007-07-18 | 6.99
17510  | 2007-10-20 | 5.99
17509  | 2007-10-17 | 5.99
17508  | 2007-11-21 | 5.99
(10 filas)
dvdrental=#
```

```
Terminal - jose@debian12: ~
Archivo  Editar  Ver  Terminal  Pestañas  Ayuda
dvdrental=# SELECT SUM(amount) AS total from payment;
total
-----
192.53
(1 fila)
dvdrental=#
```

- Listar todas las “film” del año 2006 que contengan un (rental_rate) mayor a 4.0.

```
Terminal - jose@debian12: ~
Archivo Editar Ver Terminal Pestañas Ayuda
dvdrental=# SELECT film_id, title, release_year, rental_rate FROM film;
film_id | title | release_year | rental_rate
-----+-----+-----+-----
1 | Academy Dinosaur | 2006 | 0.99
2 | Ace Goldfinger | 2006 | 4.99
3 | Army Flintstones | 2006 | 0.99
4 | Beethoven Exorcist | 2007 | 0.99
5 | Cleopatra Devil | 2006 | 0.99
6 | Chocolate Duck | 2008 | 2.99
7 | Brooklyn Desert | 2010 | 4.99
8 | Braveheart Human | 2006 | 2.99
9 | Bucket Brotherhood | 2010 | 4.99
10 | American Circus | 2006 | 4.99
(10 filas)

dvdrental=# SELECT film_id, title, release_year, rental_rate FROM film WHERE release_year='2006'
and rental_rate > 4.00;
film_id | title | release_year | rental_rate
-----+-----+-----+-----
2 | Ace Goldfinger | 2006 | 4.99
10 | American Circus | 2006 | 4.99
(2 filas)

dvdrental=#
```