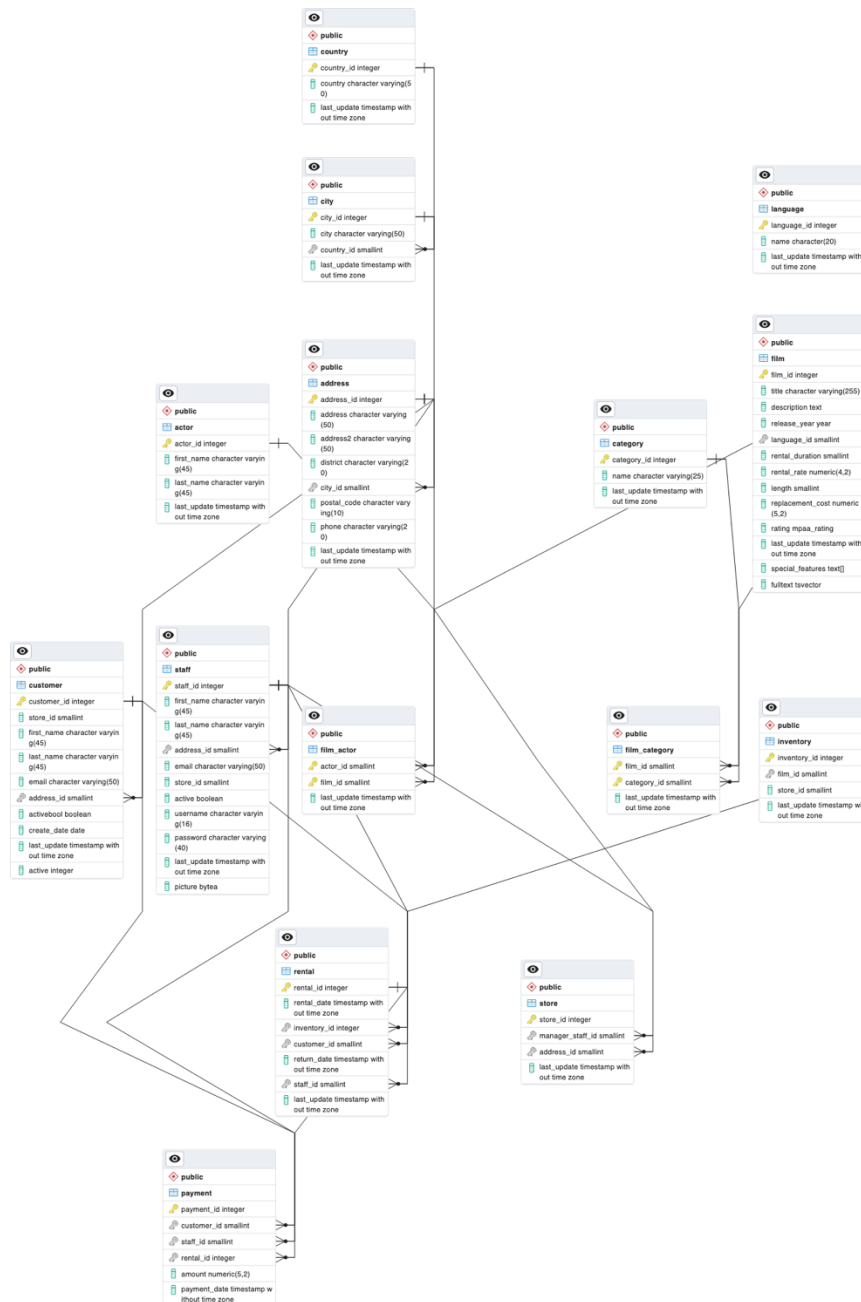


1, 2 y 3 Modelo Cargado



4. Construye las siguientes consultas:

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

-- Insertar un nuevo Customer

```
INSERT INTO customer (store_id, first_name, last_name, email, address_id, active,
create_date)
VALUES (1, 'John', 'Doe', 'john.doe@example.com', 5, 1, CURRENT_TIMESTAMP);
```

```
-- Modificar un Customer existente (asumiendo que el customer_id es 1)
UPDATE customer
SET first_name = 'Jane', last_name = 'Doe', email = 'jane.doe@example.com'
WHERE customer_id = 1;
```

```
-- Eliminar un Customer (asumiendo que el customer_id es 1)
DELETE FROM customer
WHERE customer_id = 1;
```

```
-- Insertar un nuevo Staff
INSERT INTO staff (first_name, last_name, address_id, email, store_id, active, username,
password)
VALUES ('Mike', 'Smith', 3, 'mike.smith@example.com', 2, 1, 'mike', 'password');
```

```
-- Modificar un Staff existente (asumiendo que el staff_id es 1)
UPDATE staff
SET first_name = 'Michael', last_name = 'Smith', email = 'michael.smith@example.com'
WHERE staff_id = 1;
```

```
-- Eliminar un Staff (asumiendo que el staff_id es 1)
DELETE FROM staff
WHERE staff_id = 1;
```

```
-- Insertar un nuevo Actor
INSERT INTO actor (first_name, last_name)
VALUES ('Bruce', 'Willis');
```

```
-- Modificar un Actor existente (asumiendo que el actor_id es 1)
UPDATE actor
SET first_name = 'Bruce', last_name = 'Lee'
WHERE actor_id = 1;
```

```
-- Eliminar un Actor (asumiendo que el actor_id es 1)
DELETE FROM actor
WHERE actor_id = 1;
```

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

```
-- Listar todas las rentals para un año y mes específicos (por ejemplo, para marzo de 2006)
```

```

SELECT rental.*, customer.*
FROM rental
JOIN customer ON rental.customer_id = customer.customer_id
WHERE EXTRACT(YEAR FROM rental.rental_date) = 2006
AND EXTRACT(MONTH FROM rental.rental_date) = 3;

```

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

```

-- Listar todos los payments
SELECT payment_id AS Numero, payment_date AS Fecha, amount AS Total
FROM payment;

```

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

```

-- Listar todas las películas del año 2006 con rental_rate mayor a 4.0
SELECT *
FROM film
WHERE release_year = 2006
AND rental_rate > 4.0;

```

5. Realiza un Diccionario de datos que contenga el nombre de las tablas y columnas, si éstas pueden ser nulas, y su tipo de dato correspondiente.

Los campos marcados como "not null" son obligatorios y no pueden contener valores nulos, mientras que aquellos marcados como "nullable" pueden contener valores nulos.

Country Table

```

country_id: INTEGER, not null
country: VARCHAR(50), not null
last_update: TIMESTAMP WITH TIME ZONE, not null

```

```

city_id: INTEGER, not null
city: VARCHAR(50), not null
country_id: SMALLINT, not null
last_update: TIMESTAMP WITH TIME ZONE, not null

```

Address Table

```

address_id: INTEGER, not null
address: VARCHAR(50), not null
address2: VARCHAR(50), nullable
district: VARCHAR(20), not null
city_id: SMALLINT, not null

```

postal_code: VARCHAR(10), nullable
phone: VARCHAR(20), not null
last_update: TIMESTAMP WITH TIME ZONE, not null
Customer Table

customer_id: INTEGER, not null
store_id: SMALLINT, not null
first_name: VARCHAR(45), not null
last_name: VARCHAR(45), not null
email: VARCHAR(50), nullable
address_id: SMALLINT, not null
activebool: BOOLEAN, not null
create_date: DATE, not null
last_update: TIMESTAMP WITH TIME ZONE, nullable
active: INTEGER, nullable
Film Table

film_id: INTEGER, not null
title: VARCHAR(255), not null
description: TEXT, nullable
release_year: YEAR, nullable
language_id: SMALLINT, not null
rental_duration: SMALLINT, not null
rental_rate: NUMERIC(4,2), not null
length: SMALLINT, nullable
replacement_cost: NUMERIC(5,2), not null
rating: MPAA RATING, nullable
last_update: TIMESTAMP WITH TIME ZONE, not null
special_features: TEXT[], nullable
fulltext: TSVECTOR, not null
Payment Table

payment_id: INTEGER, not null
customer_id: SMALLINT, not null
staff_id: SMALLINT, not null
rental_id: INTEGER, not null
amount: NUMERIC(5,2), not null
payment_date: TIMESTAMP WITH TIME ZONE, not null
Rental Table

rental_id: INTEGER, not null
rental_date: TIMESTAMP WITH TIME ZONE, not null
inventory_id: INTEGER, not null
customer_id: SMALLINT, not null

return_date: TIMESTAMP WITH TIME ZONE, nullable
staff_id: SMALLINT, not null
last_update: TIMESTAMP WITH TIME ZONE, not null
Actor Table

actor_id: INTEGER, not null
first_name: VARCHAR(45), not null
last_name: VARCHAR(45), not null
last_update: TIMESTAMP WITH TIME ZONE, not null
Staff Table

staff_id: INTEGER, not null
first_name: VARCHAR(45), not null
last_name: VARCHAR(45), not null
address_id: SMALLINT, not null
email: VARCHAR(50), nullable
store_id: SMALLINT, not null
active: BOOLEAN, not null
username: VARCHAR(16), not null
password: VARCHAR(40), nullable
last_update: TIMESTAMP WITH TIME ZONE, not null
picture: BYTEA, nullable
Store Table

store_id: INTEGER, not null
manager_staff_id: SMALLINT, not null
address_id: SMALLINT, not null
last_update: TIMESTAMP WITH TIME ZONE, not null
Film_Actor Table

actor_id: SMALLINT, not null
film_id: SMALLINT, not null
last_update: TIMESTAMP WITH TIME ZONE, not null
Film_Category Table

film_id: SMALLINT, not null
category_id: SMALLINT, not null
last_update: TIMESTAMP WITH TIME ZONE, not null
Inventory Table

inventory_id: INTEGER, not null
film_id: SMALLINT, not null
store_id: SMALLINT, not null
last_update: TIMESTAMP WITH TIME ZONE, not null