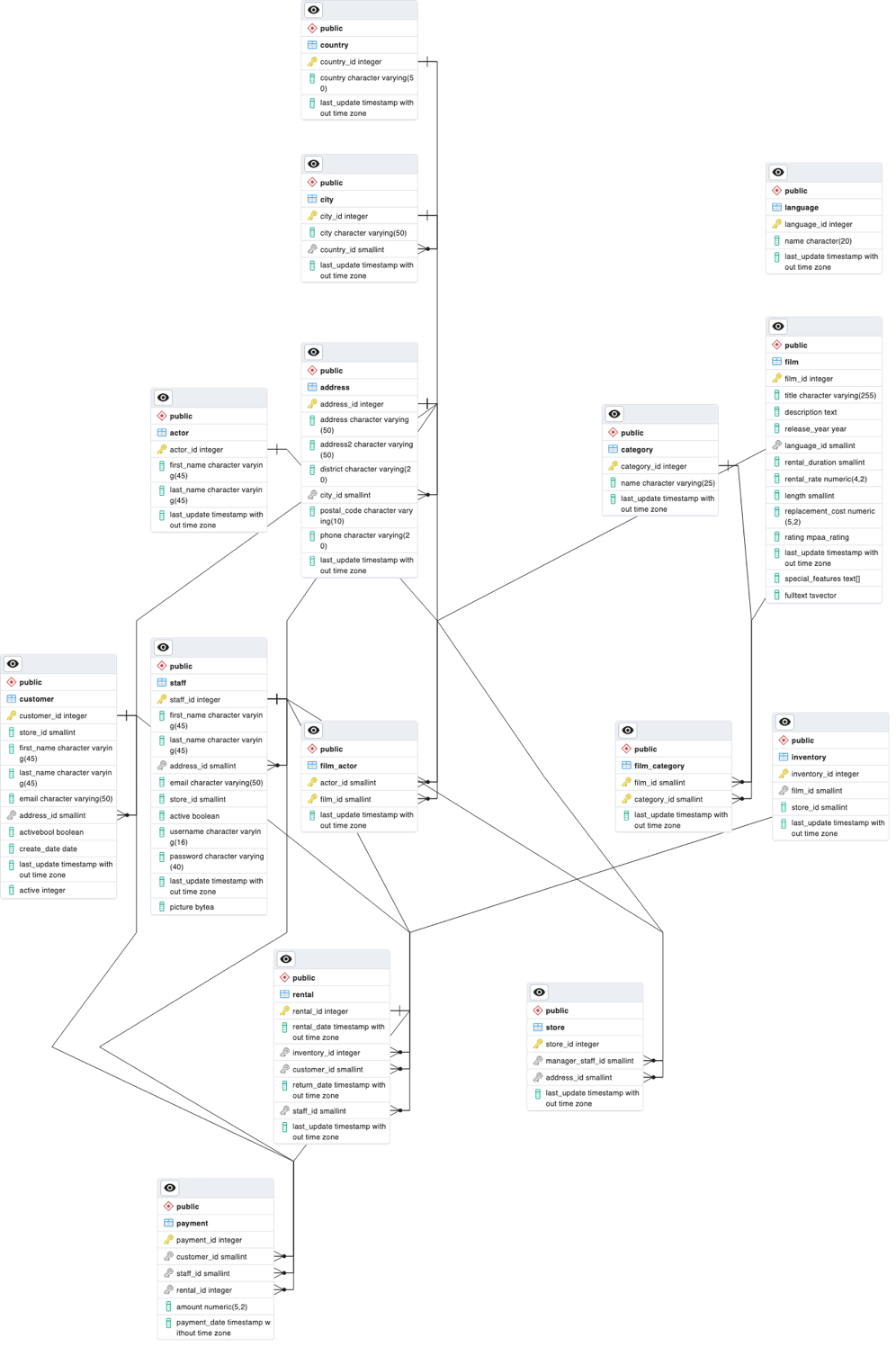
**1, 2 y 3 Modelo Cargado**



**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 Table

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