

8. Construya un disparador que guarde en una nueva tabla creada por usted la fecha de cuando se insertó un nuevo registro en la tabla film.

Primero creamos la tabla log para inserciones. Esta tabla nos va a almacenar la film_id y insertion_date:

```
CREATE TABLE film_insertion_log (  
    film_id INT PRIMARY KEY,  
    insertion_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP  
);
```

```
alquilerdvd=#  
alquilerdvd=# CREATE TABLE film_insertion_log (  
    film_id INT PRIMARY KEY,  
    insertion_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP  
);  
CREATE TABLE  
alquilerdvd=#
```

Luego, creamos la función del disparador (trigger). Esta será la función que se ejecute cada vez que se almacene un registro en la tabla film, almacenando film_id e insertion_date en la tabla film_insertion_log:

```
CREATE OR REPLACE FUNCTION log_film_insertion()  
RETURNS TRIGGER AS $$  
BEGIN  
    INSERT INTO film_insertion_log (film_id, insertion_date)  
    VALUES (NEW.film_id, CURRENT_TIMESTAMP);  
    RETURN NEW;  
END;  
$$ LANGUAGE plpgsql;
```

```
CREATE TABLE  
alquilerdvd=# CREATE OR REPLACE FUNCTION log_film_insertion()  
RETURNS TRIGGER AS $$  
BEGIN  
    INSERT INTO film_insertion_log (film_id, insertion_date)  
    VALUES (NEW.film_id, CURRENT_TIMESTAMP);  
    RETURN NEW;  
END;  
$$ LANGUAGE plpgsql;  
CREATE FUNCTION  
alquilerdvd=#
```

Por último, creamos el disparador (trigger), para que se ejecute la función del disparador en cada inserción en film:

```
CREATE TRIGGER after_film_insert
AFTER INSERT ON film
FOR EACH ROW
EXECUTE FUNCTION log_film_insertion();
```

```
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AFTER INSERT ON film
FOR EACH ROW
EXECUTE FUNCTION log_film_insertion();
CREATE TRIGGER
alquilerdvd=#
```

Para comprobar que el disparador (trigger) funciona, insertamos un elemento en la tabla film:

```
INSERT INTO film (title, description, release_year, language_id, rental_duration, rental_rate,
length, replacement_cost, rating)
VALUES ('Test Movie', 'A movie for testing triggers.', 2024, 1, 5, 2.99, 120, 20.99, 'G');
```

Y comprobamos si se ha actualizado film_insertion_log:

```
SELECT * FROM film_insertion_log;
```

```
alquilerdvd=# INSERT INTO film (title, description, release_year, language_id, rental_duration, rental_rate, length, replacement_cost, rating)
VALUES ('Test Movie', 'A movie for testing triggers.', 2024, 1, 5, 2.99, 120, 20.99, 'G');
INSERT 0 1
alquilerdvd=# select * from film_insertion_log;
 film_id | insertion_date
-----+-----
    1001 | 2024-11-12 19:08:18.096621
(1 row)

alquilerdvd=#
```