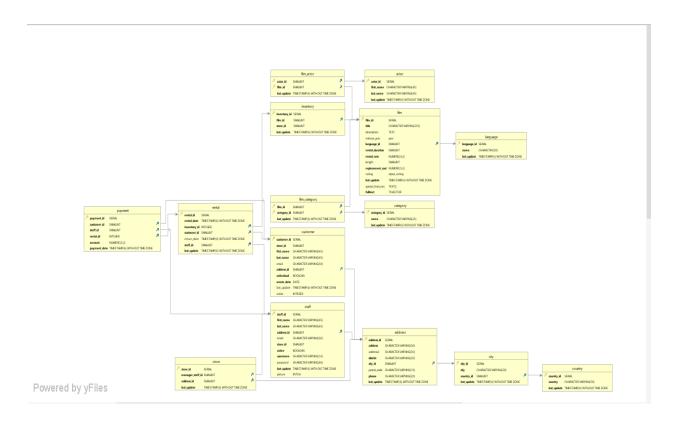


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Entity Relationship Diagram



2. Fact Table

2.1. Rental

Columns	Data Type	Description	Key	Links To	Links From
rental_id	SERIAL	Primary key assigned to individual row of rental table	Primary Key		payment
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of rental			
inventory_id	INTEGER	Primary key assigned to individual row of inventory table	Foreign Key	inventory	
customer_id	SMALLINT	Primary key assigned to individual row of customer table	Foreign Key	customer	
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of rental return			
staff_id	SMALLINT	Primary key assigned to individual row of staff table	Foreign Key	staff	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update			

3. Dimension Tables

3.1. Actor

Columns	Data Type	Description	Key	Links To	Links From
actor_id		Primary key assigned to individual row of actor table	Primary Key		film_actor
first_name	CHARACTER VARYING(45)	First name of actor			
last_name	CHARACTER VARYING(45)	Last name of actor			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update			

3 2 Address

Columns	Data Type	Description	Key	Links To	Links From
address_id	SERIAL	Primary key assigned to individual row of address table	Primary Key		customer, staff, store
address	CHARACTER VARYING(50)	First line of address			
address2	CHARACTER VARYING(50)	Second line of address			
district	CHARACTER VARYING(20)	District			
city_id	SMALLINT	Primary key assigned to individual row of city table	Foreign Key	city	
postal_code	CHARACTER VARYING(10)	Postal code			
phone	CHARACTER VARYING(20)	Phone number			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update			

3.3. Category

Columns	Data Type	Description	Key	Links To	Links From
category_id	SERIAL	Primary key assigned to individual row of category table	Primary Key		film_categor y
name	CHARACTER VARYING(25)	Category name/Genre			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update			

3.4. City

Columns	Data Type	Description	Key	Links To	Links From
city_id		Primary key assigned to individual row of city table	Primary Key		address
city	CHARACTER VARYING(50)	City			
country_id	SMALLINT	Primary key assigned to	Foreign	country	

		individual row of country table	Key	
	TIMESTAMP(6) WITHOUT TIME			
last_update	ZONE	Date of last update		

3.5. Country

Columns	Data Type	Description	Key	Links To	Links From
country_id	SERIAL	Primary key assigned to individual row of country table	Primary Key		city
country	CHARACTER VARYING(50)	Country			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update			

3.6. Customer

Columns	Data Type	Description	Key	Links To	Links From
customer_id	SERIAL	Primary key assigned to individual row of customer table	Primary Key		rental, payment
store_id	SMALLINT	Primary key assigned to individual row of store table			
first_name	CHARACTER VARYING(45)	First name of customer			
last_name	CHARACTER VARYING(45)	Last name of customer			
email	CHARACTER VARYING(50)	email address of customer			
address_id	SMALLINT	Primary key assigned to individual row of address table	Foreign Key	address	
activebool	BOOLEAN	Stating whether customer is active or not			
create_date	DATE	Date customer created account			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update			
active	INTEGER	Number stating whether customer is active or not?			

3.7. Film

Columns	Data Type	Description	Key	Links To	Links From
film_id	SERIAL	Primary key assigned to individual row of film table	Primary Key		film_actor, inventory, film_category
title	CHARACTER VARYING(255)	Film title			
description	TEXT	Film description			
release_year	year	Year of film release			
language_id	SMALLINT	Primary key assigned to individual row of language table	Foreign Key	language	
rental_durati on	SMALLINT	Number of days a film can be rented for			
rental_rate	NUMERIC(4,2)	cost of rental			
length	SMALLINT	length of film			
replacement _cost	NUMERIC(5,2)	cost of replacing film			
rating	mpaa_rating	US MPA rating of film			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update			
special_featu res	TEXT	DVD special features			
fulltext	TSVECTOR	Keywords assigned to film			

3.8 Film Actor

Columns	Data Type	Description	Key	Links To	Links From
actor_id	SMALLINT	Primary key assigned to individual row of actor table	Primary Key Combine d	actor	
film_id	SMALLINT	Primary key assigned to individual row of film table	Primary Key Combine d	film	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update			

3.9. Film Category

Columns	Data Type	Description	Key	Links To	Links From
			Primary		
		Primary key assigned to	Key Combine		
film_id	SMALLINT	individual row of film table	d	film	
			Primary		
			Key		
		Primary key assigned to	Combine		
category_id	SMALLINT	individual row of category table	d	category	
	TIMESTAMP(6) WITHOUT TIME				
last_update	ZONE	Date of last update			

3.10. Inventory

Columns	Data Type	Description	Key	Links To	Links From
inventory_id	SERIAL	Primary key assigned to individual row of inventory table	Primary Key		rental
film_id	SMALLINT	Primary key assigned to individual row of film table	Foreign Key	film	
store_id	SMALLINT	Primary key assigned to individual row of store table			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update			

3.11. Language

Columns	Data Type	Description	Key	Links To	Links From
language_id		, , ,	Primary Key		language
name	CHARACTER VARYING(20)	Language name			
	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update			

3.12. Payment

Columns	Data Type	Description	Key	Links To	Links From
payment_id	SERIAL	Primary key assigned to individual row of payment table	Primary Key		
customer_id	SMALLINT	Primary key assigned to individual row of customer table	Foreign Key	customer	
staff_id	SMALLINT	Primary key assigned to individual row of staff table	Foreign Key	staff	
rental_id	SMALLINT	Primary key assigned to individual row of rental table	Foreign Key	rental	
amount	NUMERIC(5,2)	Payment amount			
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of payment			

3.13. Staff

Columns	Data Type	Description	Key	Links To	Links From
staff_id	SERIAL	Primary key assigned to individual row of staff table	Primary Key		rental, payment, store
first_name	CHARACTER VARYING(45)	First name of staff member			
last_name	CHARACTER VARYING(45)	Last name of staff member			
address_id	SMALLINT	Primary key assigned to individual row of address table	Foreign Key	address	
email	CHARACTER VARYING(50)	email address of staff member			
store_id	SMALLINT	Primary key assigned to individual row of store table	Foreign Key		
active	Boolean	Whether staff member is active or not			
username	CHARACTER VARYING(16)	Username of staff member			
password	CHARACTER VARYING(40)	Password of staff member			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update			

picture	BYTEA	Picture of staff member		

3.14. Store

Columns	Data Type	Description	Key	Links To	Links From
store_id	SERIAL	Primary key assigned to individual row of store table	Primary Key		
manager_staff _id	SMALLINT	Primary key assigned to individual row of staff table	Foreign Key	staff	
address_id	SMALLINT	Primary key assigned to individual row of address table	Foreign Key	address	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update			