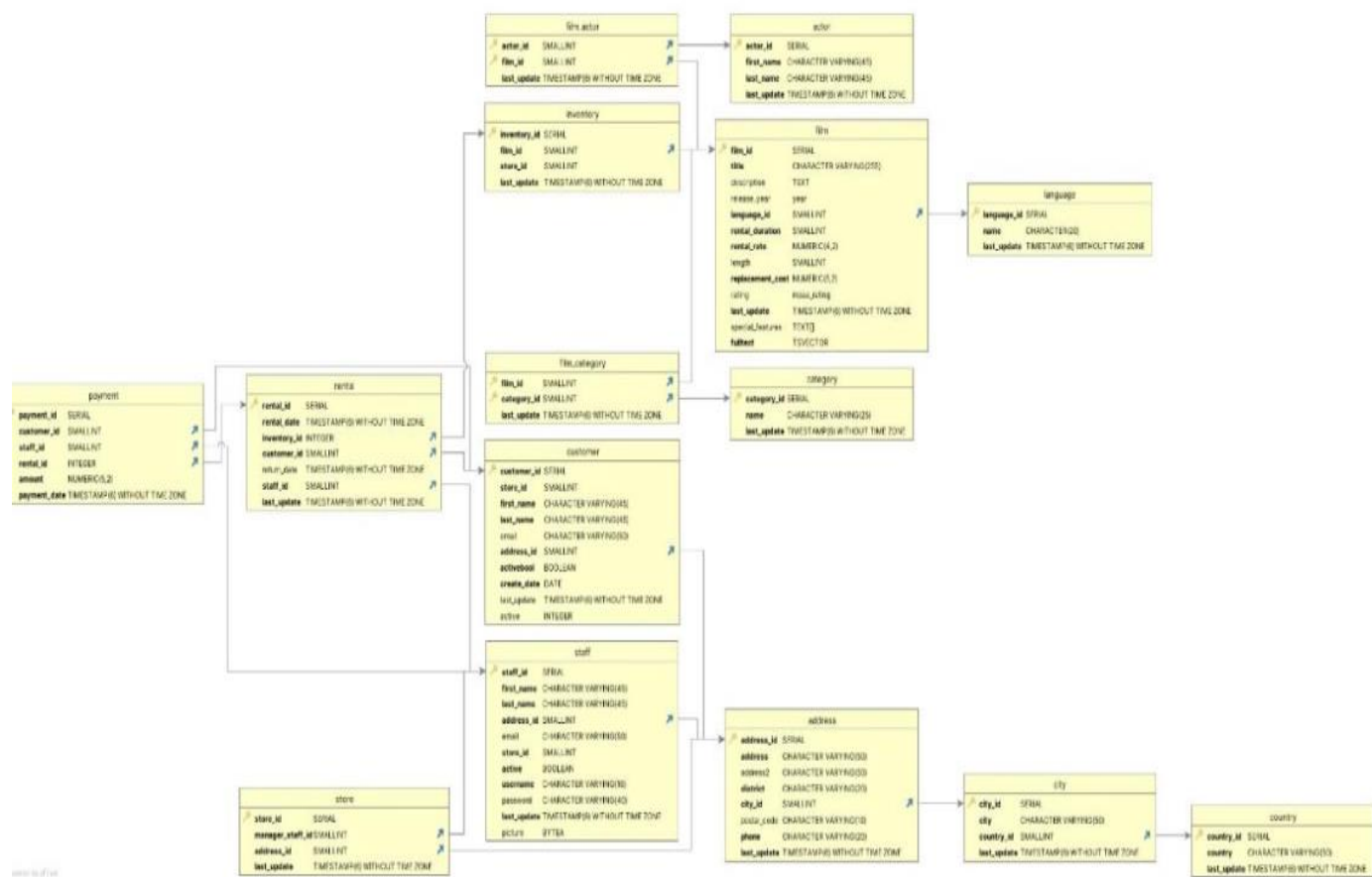




## Table of Contents

1. Entity Relationship Diagram (ERD).....	3
2. Tables .....	4
2.1 Fact Table: .....	4
Payment .....	4
2.2 Dimension Table: .....	5
Rental.....	5
Film_actor .....	5
Inventory .....	5
Film_category .....	6
Customer .....	6
Staff.....	7
Store .....	7
Actor .....	8
Film .....	8
Category .....	9
Address .....	9
Language.....	9
City .....	10
Country .....	10

## 1. Entity Relationship Diagram (ERD)



## 2. Tables







**Primary Key**



**Foreign Key**

### 2.1 Fact Table:

Payment





	Columns	Data Type	Description
	payment_id	SERIAL	Unique number for each payment
	customer_id	SMALLINT	Unique number for each customer
	staff_id	SMALLINT	Unique number for each staff
	rental_id	INTEGER	Unique number for each rental
	amount	NUMERIC(5,2)	Amount of each payment
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of each payment

Links to

Table	Join
Rental	payment.rental_id = rental.rental_id
Customer	payment.customer_id = customer.customer_id
Staff	payment.staff_id = staff.staff_id

## 2.2 Dimension Table:

### Rental

	Columns	Data Type	Description
	rental_id	SERIAL	Unique number for each rental
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of each rental
	inventory_id	INTEGER	Unique number for each inventory
	customer_id	SMALLINT	Unique number for each customer
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date when movie being returned
	staff_id	SMALLINT	Unique number for each staff
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table



#### Links to

Table	Join
inventory	rental.inventory_id=inventory.inventory_id
Customer	rental.customer_id=customer.customer_id
Staff	rental.staff_id=staff.staff_id

#### Links from

Table	Join
Payment	payment.rental_id = rental.rental_id



### Film\_actor

	Columns	Data Type	Description
	actor_id	SMALLINT	Unique number for each actor
	film_id	SMALLINT	Unique number for each film
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table

#### Links to

Table	Join
Actor	film_actor.actor_id = actor.actor_id
Film	film_actor.film_id = film.film_id

### Inventory

	Columns	Data Type	Description
	inventory_id	SERIAL	Unique number for each inventory
	film_id	SMALLINT	Unique number for each film
	store_id	SMALLINT	Unique number for each store
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table



## Links to

Table	Join
Film	Inventory.film_id = film.film_id

## Links from

Table	Join
Rental	rental.inventory_id = inventory.inventory_id


## Film\_category


	Columns	Data Type	Description
	film_id	SMALLINT	Unique number for each film
	category_id	SMALLINT	Unique number for each category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table

## Links to

Table	Join
Category	film_category.category_id = category.category_id
Film	film_category.film_id = film.film_id

## Customer

	Columns	Data Type	Description
	customer_id	SERIAL	Unique number for each customer
	store_id	SMALLINT	Unique number for each store

	first_name	CHARACTER VARYING(45)	First name of the customer
	last_name	CHARACTER VARYING(45)	Last name of the customer
	email	CHARACTER VARYING(50)	Email address of the customer
	address_id	SMALLINT	Address of the customer
	activebool	BOOLEAN	Active: True or False
	create_date	DATE	Data of account creation
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table
	active	INTEGER	Active status: 0 or 1



## Links to

Table	Join
Address	customer.address_id = address.address_id

## Links from

Table	Join
Rental	rental.customer_id = customer.customer_id
payment	payment.customer_id = customer.customer_id

## Staff

	Columns	Data Type	Description
	staff_id	SERIAL	Unique number for each staff
	first_name	CHARACTER VARYING(45)	First name of staff
	last_name	CHARACTER VARYING(45)	Last name of staff
	address_id	SMALLINT	Address of staff
	email	CHARACTER VARYING(50)	Email address of staff
	store_id	SMALLINT	Unique number for each store
	active	BOOLEAN	Active: True or False
	username	CHARACTER VARYING(16)	Unique username of staff account
	password	CHARACTER VARYING(40)	Unique password of staff account
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table
	picture	BYTEA	Picture of staff




## Links to

Table	Join
Address	staff.address_id = address.address_id

## Links from

Table	Join
Rental	rental.staff_id = staff.staff_id
Store	store.address_id = staff.address_id
payment	payment.staff_id = staff.staff_id


## Store

	store_id	SERIAL	Unique number for each store
	manager_staff_id	SMALLINT	Unique number for manager staff
	address_id	SMALLINT	Address of the store
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table

## Links to

Table	Join
Address	store.address_id = address.address_id
Staff	store.staff_id = staff.staff_id



## Actor

	Columns	Data Type	Description
	actor_id	SERIAL	Unique number for each actor
	first_name	CHARACTER VARYING(45)	First name of the actor
	last_name	CHARACTER VARYING(45)	Last name of the actor
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table

## Links from

Table	Join
Film_actor	film_actor.actor_id = actor.actor_id

## Film

	Columns	Data Type	Description
	film_id	SERIAL	Unique number for each film
	title	CHARACTER VARYING(255)	Title of the film
	description	TEXT	The description of the film
	release_year	year	Release year of the film
	language_id	SMALLINT	Language of the film
	rental_duration	SMALLINT	Duration of the rental
	rental_rate	NUMERIC(4,2)	Rating of the rental
	length	SMALLINT	Length of the film
	replacement_cost	NUMERIC(5,2)	Cost of the replacement
	rating	mpaa_rating	Rating of the film
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table
	special_features	TEXT[]	Description of the special features of the film
	fulltext	TSVECTOR	Full text of description optimized for text search

## Links to


Table	Join
Language	film.language_id = language.language_id

## Links from

Table	Join
Film_actor	film_actor.film_id = film.film_id
Film_category	film_category.film_id = film.film_id
Inventory	inventory.film_id = film.film_id





## Category

	Columns	Data Type	Description
	category_id	SERIAL	Unique number for each category
	name	CHARACTER VARYING(25)	Name of the category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table

## Links from

Table	Join
Film_category	film_actor.category_id = category.category_id

## Address

	Columns	Data Type	Description
	address_id	SERIAL	Unique number for each address
	address	CHARACTER VARYING(50)	Detailed address
	address2	CHARACTER VARYING(50)	Complementary address
	distinct	CHARACTER VARYING(20)	Name of distinct
	city_id	SMALLINT	Unique number for each city
	postal_code	CHARACTER VARYING(10)	Postal code of the address
	phone	CHARACTER VARYING(20)	Phone number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table


## Links to

Table	Join
City	address.city_id = city.city_id

## Links from

Table	Join
Store	store.address_id = address.address_id
Staff	staff.address_id = address.address_id
Customer	customer.address_id = address.address_id



## Language

	Columns	Data Type	Description
	language_id	SERIAL	Unique number for each language
	name	CHARACTER VARYING(20)	Name of language
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table

## Links from

Table	Join
Film	film.language_id = language.language_id

## City

	Columns	Data Type	Description
	city_id	SERIAL	Unique number for each city
	city	CHARACTER VARYING(50)	Name of the city
	country_id	SMALLINT	Unique number for each country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table


## Links to

Table	Join
Country	city.country_id = country.country_id

## Links from

Table	Join
Address	address.city_id = city.city_id

## Country

	Columns	Data Type	Description
	country_id	SERIAL	Unique number for each country
	country	CHARACTER VARYING(50)	Name of country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table

## Links from

Table	Join
City	city.country_id = country.country_id