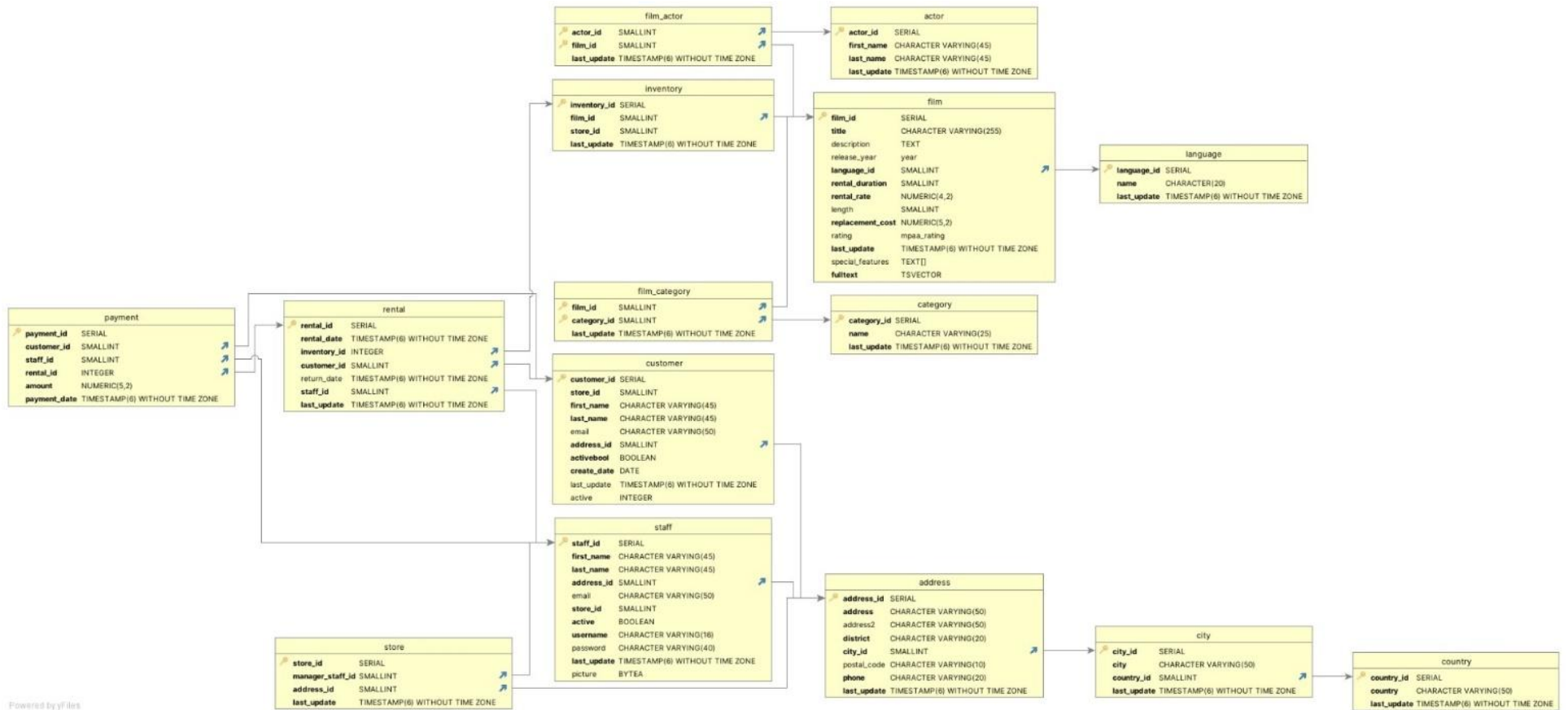


## Contents

Rockbuster ERD .....	2
Fact tables .....	3
Payment .....	3
Rental .....	3
Dimension Tables .....	4
Film_actor .....	4
Film_category.....	4
Customer.....	5
Staff .....	5
Address.....	6
Film.....	7
Store.....	8
Actor.....	8
Category.....	8
Inventory .....	9
Language .....	9
City .....	9
Country.....	10

# Rockbuster ERD



## Fact tables

### Payment

Name	Data Type	Description
Payment_id	SERIAL	Primary key auto increment
Customer_id	SMALLINT	Foreign key referencing customer table
Staff_id	SMALLINT	Foreign key referencing staff table
Rental_id	INTERGER	Foreign key referencing rental table
ammount	NUMERIC(5,2)	Amount the payment was for
Payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date entry was last updated

- Links To

Table	Join	Description
rental	Payment.rental_id=rental.rental_id	FK constraint that references rental.rental_id
staff	Payment.staff_id=staff.staff_id	FK constraint that references staff.staff_id
customer	Payment.customer_id=customer.customer_id	FK constraint that references customer.customer_id

- Unique Keys

Column	Name/Description
Payment_id	Payment_id

### Rental

Name	Data Type	Description
Rental_id	SERIAL	Primary key auto increment
Rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date movie was rented
Inventory_id	INTEGER	Foreign key referencing inventory table
Customer_id	SMALLINT	Foreign key referencing customer table
Return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date movie was returned
Staff_id	SMALLINT	Foreign key referencing staff table
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date entry was last updated

- Links To

Table	Join	Description
inventory	Rental.inventory_id=inventory.inventory_id	FK constraint that references rental.inventory_id
staff	Rental.staff_id=Staff.staff_id	FK constraint that references staff.staff_id
customer	Rental.customer_id=customer.customer_id	FK constraint that references customer.customer_id

- Links From

Table	Join	Description
payment	Rental.rental_id=payment.rental_id	FK constraint that references payment.rental_id

- Unique Keys

Column	Name/description
Rental_id	Rental_id

## Dimension Tables

### Film\_actor

Name	Data Type	Description
Actor_id	SMALLINT/SERIAL	Primary key auto increment
Film_id	SMALLINT	Foreign key referencing film table
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date entry was last updated

- Links To

Table	Join	Description
Actor	Film_actor.actor_id=actor.actor_id	FK constraint that references actor.actor_id
film	Film_actor.film_id=film.film_id	FK constraint that references film.film_id

- Unique Keys

Column	Name/description
Actor_id	Rental_id
Film_id	Film_id

### Film\_category

Name	Data Type	Description
Film_id	SMALLINT/SERIAL	Primary key auto increment
Category_id	SMALLINT	Foreign key referencing category table
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date entry was last updated

- Links To

Table	Join	Description
Film	Film_category.film_id=film.film_id	FK constraint that references film.film_id
category	Film_category.category_id=film.category_id	FK constraint that references category.category_id

- Unique Keys

Column	Name/description
Film_id	Film_id
Category_id	Category_id

## Customer

Name	Data Type	Description
Customer_id	SERIAL	Primary key auto increment
Store_id	SMALLINT	Foreign key referencing store table
First_name	CHARACTER VARYING(45)	Customer's first name
Last_name	CHARACTER VARYING(45)	Customer's last name
Email	CHARACTER VARYING(50)	Customer's email address
Address_id	SMALLINT	Foreign key referencing address table
Activebool	BOOLEAN	Is the customer still active
Create_date	DATE	Date customer info was entered
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date entry was last updated
active	INTEGER	

- Links To

Table	Join	Description
address	Customer.address_id=address.address_id	FK constraint that references address.address_id

- Links From

Table	Join	Description
Payment	Payment.customer_id=customer.customer_id	FK constraint that references payment.customer_id
rental	Rental.customer_id=customer.customer_id	FK constraint that references rental.customer_id

- Unique Keys

Column	Name/description
Address_id	Address_id

## Staff

Name	Data Type	Description
Staff_id	SERIAL	Primary key auto increment
First_name	CHARACTER VARYING(45)	Staff first name
Last_name	CHARACTER VARYING(45)	Staff last name
Address_id	SMALLINT	Foreign key referencing address table
Email	CHARACTER VARYING(50)	Staff email
Store_id	SMALLINT	Foreign key referencing store table

Activebool	BOOLEAN	Records if the staff member is active
Username	CHARACTER VARYING(16)	Staff login username
Password	CHARACTER VARYING(40)	Staff login password
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date entry was last updated
Picture	BYTEA	Photo of staff member

- Links To

Table	Join	Description
address	Staff.address_id=address.address_id	FK constraint that references address.address_id

- Links From

Table	Join	Description
Store	Staff.staff_id=store.staff_id	FK constraint that references store.staff_id
Rental	Staff.staff_id=rental.staff_id	FK constraint that references rental.staff_id
payment	Staff.staff_id=payment.staff_id	FK constraint that references payment.staff_id

- Unique Keys

Column	Name/description
Staff_id	Staff_id

## Address

Name	Data Type	Description
Address_id	SERIAL	Primary key auto increment
Address	CHARACTER VARYING(50)	First line of address
Address2	CHARACTER VARYING(50)	Second line of address
District	CHARACTER VARYING(20)	State of district of the country the address is in
City_id	SMALLINT	Foreign key referencing city table
Postal_code	CHARACTER VARYING(10)	Zip code for address
Phone	CHARACTER VARYING(20)	Phone number associated with address
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date entry was last updated

- Links To

Table	Join	Description
City	Address.city_id=city.city_id	FK constraint that references city.city_id

- Links From

Table	Join	Description
Customer	Address.address_id=customer.address_id	FK constraint that references customer.address_id

Store	Address.address_id=store.address_id	FK constraint that references store.address_id
staff	Staff.address_id=staff.address_id	FK constraint that references staff.address_id

- Unique Keys

Column	Name/description
Address_id	Address_id

## Film

Name	Data Type	Description
Film_id	SERIAL	Primary key auto increment
Title	CHARACTER VARYING(255)	Film title
Description	TEXT	Description of the film
Release_year	YEAR	Year the film was released
Language_id	SMALLINT	Foreign key referencing language table
Rental_duration	SMALLINT	Number of days the film can be rented
Rental_rate	NUMERIC(4,2)	Cost to rent the film
length	SMALLINT	Length of the film
Replacement_cost	NUMERIC(5,2)	Cost to replace the film
Rating	VARCHAR(255)	MPAA rating
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date entry was last updated
Special_features	TEXT[]	List of special features included with the film
fulltext	TSVECTOR	List of key words to use while searching films

- Links To

Table	Join	Description
Language	Film.language_id=language.language_id	FK constraint that references language.language_id

- Links From

Table	Join	Description
Film_actor	Film.film_id=film_actor.film_id	FK constraint that references film_actor.film_id
Film_category	Film.film_id=film_category.film_id	FK constraint that references film_category.film_id
inventory	Film.film_id=inventory.film_id	FK constraint that references inventory.film_id

- Unique Keys

Column	Name/description
Film_id	Film_id

## Store

Name	Data Type	Description
Store_id	SERIAL	Primary key auto increment
Staff_manager_id	SMALLINT	Foreign key referencing staff table
Address_id	SMALLINT	Foreign key referencing address table
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date entry was last updated

- Links To

Table	Join	Description
Staff	Store.staff_id=staff.staff_id	FK constraint that references staff.staff_id
address	Store.address_id=address.address_id	FK constraint that references address.address_id

- Unique Keys

Column	Name/description
Store_id	Store_id

## Actor

Name	Data Type	Description
Actor_id	SERIAL	Primary key auto increment
First_name	CHARACTER VARYING(45)	Actor first name
Last_name	CHARACTER VARYING(45)	Actor last name
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date entry was last updated

- Links From

Table	Join	Description
Film_actor	Actor.actor_id=film_actor.actor_id	FK constraint that references film_actor.actor_id

- Unique Keys

Column	Name/description
Actor_id	Actor_id

## Category

Name	Data Type	Description
Category_id	SERIAL	Primary key auto increment
Name	CHARACTER VARYING(25)	Category name
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date entry was last updated

- Links From

Table	Join	Description
Film_category	Category.category_id=film_category.category_id	FK constraint that references film_category.category_id



- Unique Keys

Column	Name/description
Category_id	Category_id

## Inventory

Name	Data Type	Description
Inventory_id	SERIAL	Primary key auto increment
Film_id	SMALLINT	Foreign key referencing film table
Store_id	SMALLINT	Foreign key referencing store table
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date entry was last updated

- Links To

Table	Join	Description
Film	Inventory.film_id=film.film_id	FK constraint that references film.film_id

- Links From

Table	Join	Description
Rental	Inventory.inventory_id=rental.inventory_id	FK constraint that references rental.inventory_id

- Unique Keys

Column	Name/description
Inventory_id	Inventory_id

## Language

Name	Data Type	Description
language_id	SERIAL	Primary key auto increment
Name	CHARACTER VARYING(20)	Name of language
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date entry was last updated

- Links From

Table	Join	Description
Film	Language.language_id=film.language_id	FK constraint that references film.language_id

- Unique Keys

Column	Name/description
Language_id	Language_id

## City

Name	Data Type	Description
City_id	Serial	Primary key auto increment
City	CHARACTER VARYING(50)	Name of city

Country_id	SMALLINT	Foreign key referencing country table
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date entry was last updated

- Links To

Table	Join	Description
Country	City.country_id=country.country_id	FK constraint that references country.country_id

- Links From

Table	Join	Description
address	City.city_id=address.city_id	FK constraint that references address.city_id

- Unique Keys

Column	Name/description
City_id	City_id

## Country

Name	Data Type	Description
Country_id	SERIAL	Primary key auto increment
Country	CHARACTER VARYING(50)	Name of the city
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date entry was last updated

- Links From

Table	Join	Description
City	Country.country_id=city.country_id	FK constraint that references city.country_id

- Unique Keys

Column	Name/description
Country_id	Country_id