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Rockbuster Films

Data Dictionary

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CAREERFOUNDRY

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LEGEND

🔑 Primary Key

🔑 Foreign Key

🔑 Combined Key

1. ROCKBUSTER DATABASE

The Rockbuster database supports standard online transaction processing scenarios for a fictitious movie rental company (Rockbuster Films). Scenarios include Rentals, Payments, Product Management, Contact Management, and Human Resources.
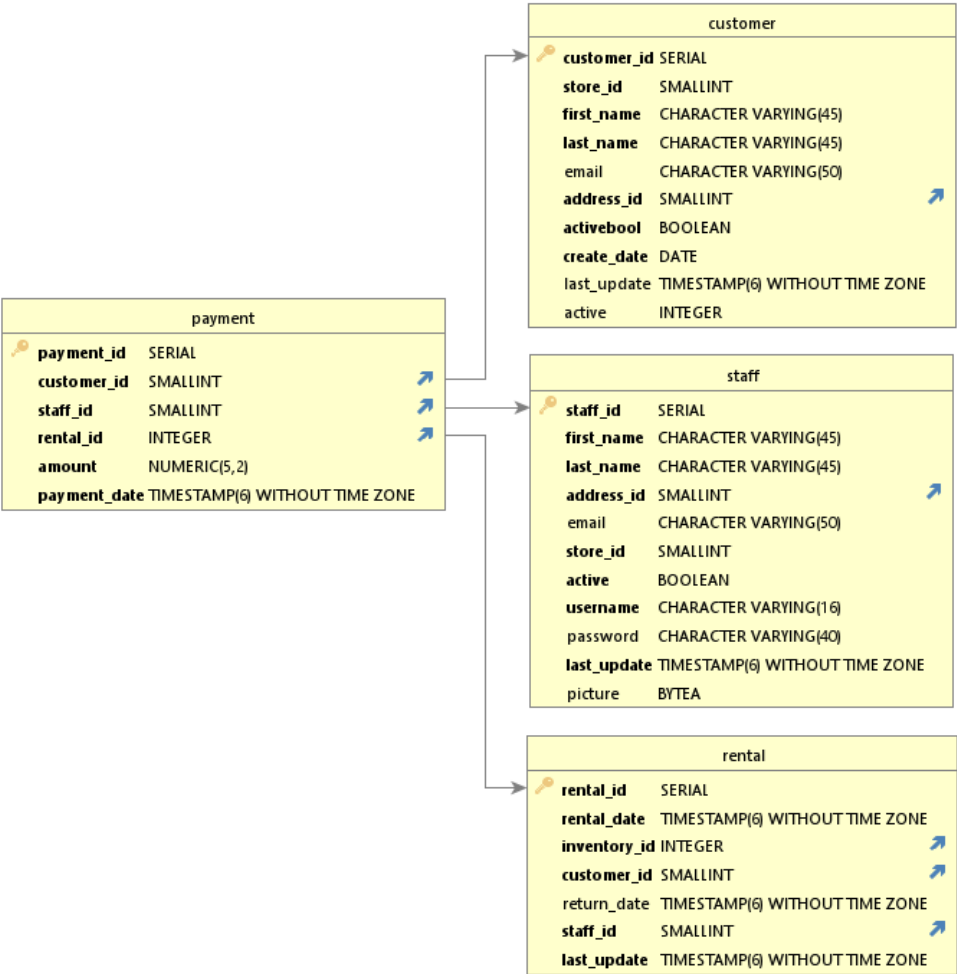
2. ENTITY RELATIONSHIP DIAGRAM (ERD)
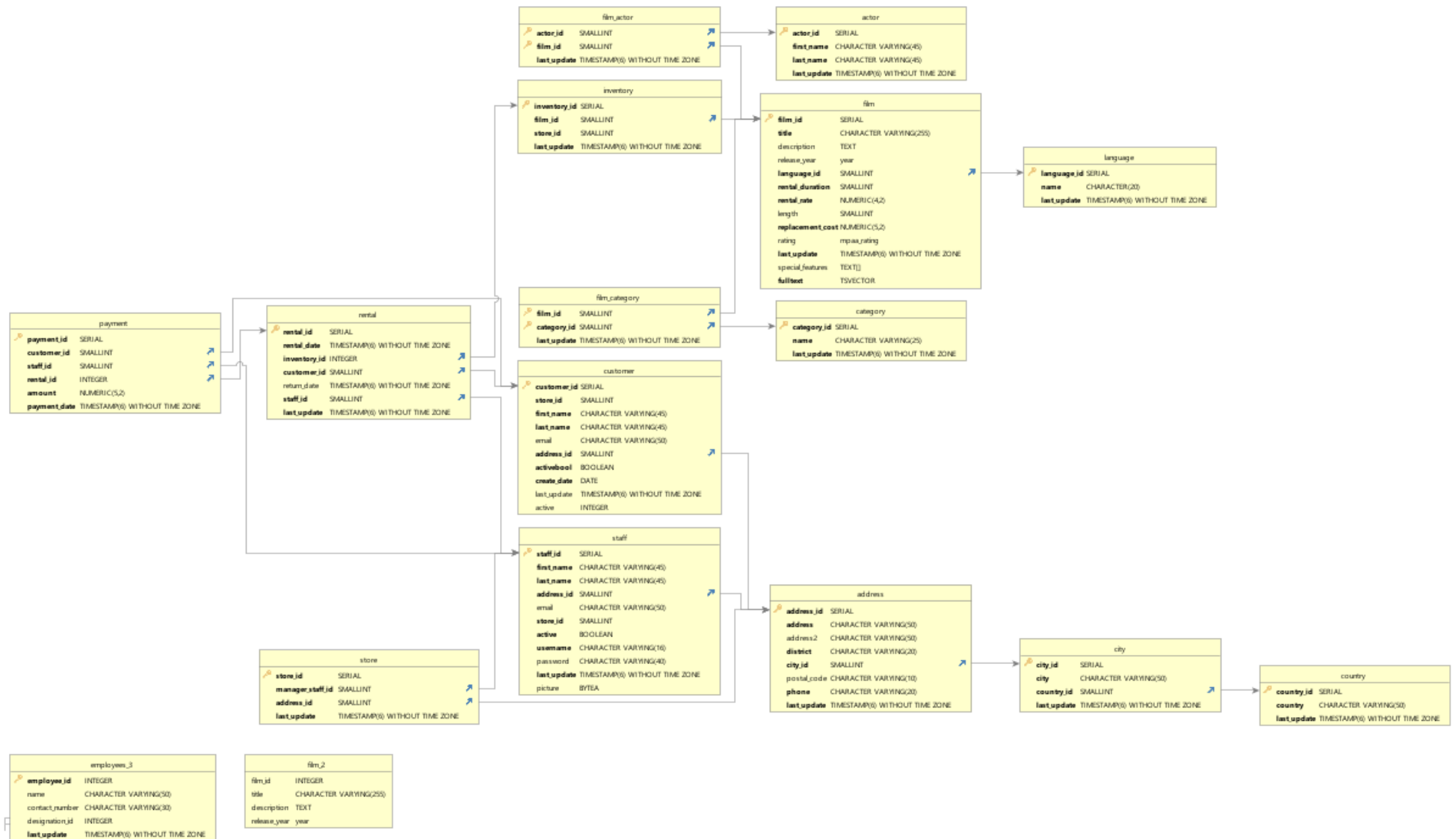
3. TABLES

## 3.1. Fact Tables:

3.1.1. payment

COLUMNS

NAME	DATA TYPE	DESCRIPTION
🔑 payment_id	serial (integer)	The number or code of the transaction (like an invoice number) – to identify each unique payment transaction.
🔑 customer_id	small integer	The code or number of the customer – to identify each unique customer in the system.
🔑 staff_id	small integer	The unique identifier (code/number) of the staff member who completed the transaction (who helped the customer with their payment).
🔑 rental_id	integer	The number or code of the rental transaction (like an order number) – to identify each unique rental transaction.
amount	numeric	The amount that was paid.
payment_date	timestamp	The date when the payment was made.

LINKS TO

TABLE	JOIN
customer	**payment**.customer_id = customer.customer_id
staff	**payment**.staff_id – staff.staff_id
rental	**payment**.rental_id = rental.rental_id

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3.1.2. film_actor
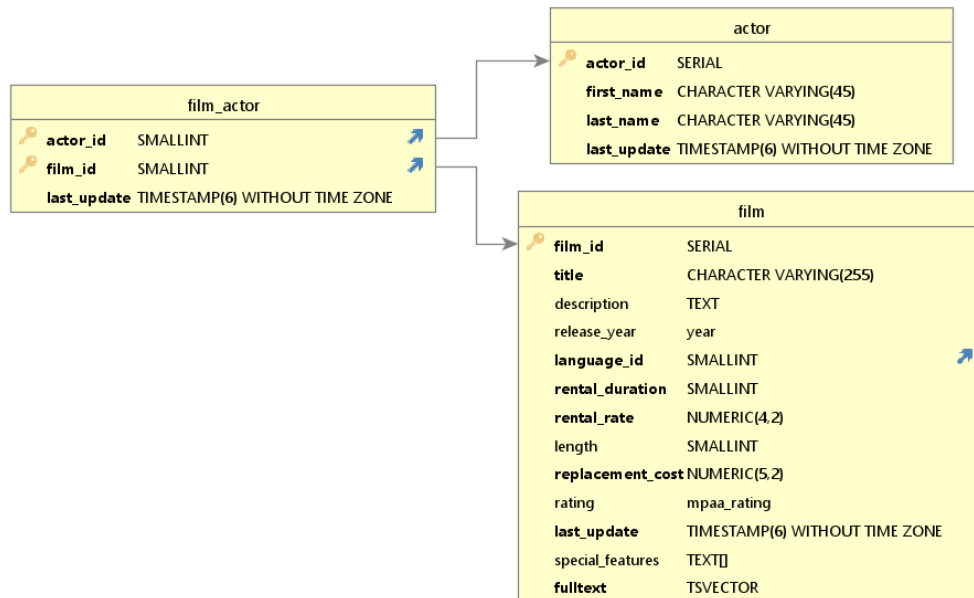
COLUMNS

NAME	DATA TYPE	DESCRIPTION
🔑 actor_id	small integer	The unique identifier (code/number) of the actor/actress.
🔑 film_id	small integer	The unique identifier (code/number) of each film.
last_update	timestamp	The last time the information/data was updated.

LINKS TO

TABLE	JOIN
actor	**film_actor**.actor_id = actor.actor_id
film	**film_actor**.film_id = film.film_id

3.1.3. film_category
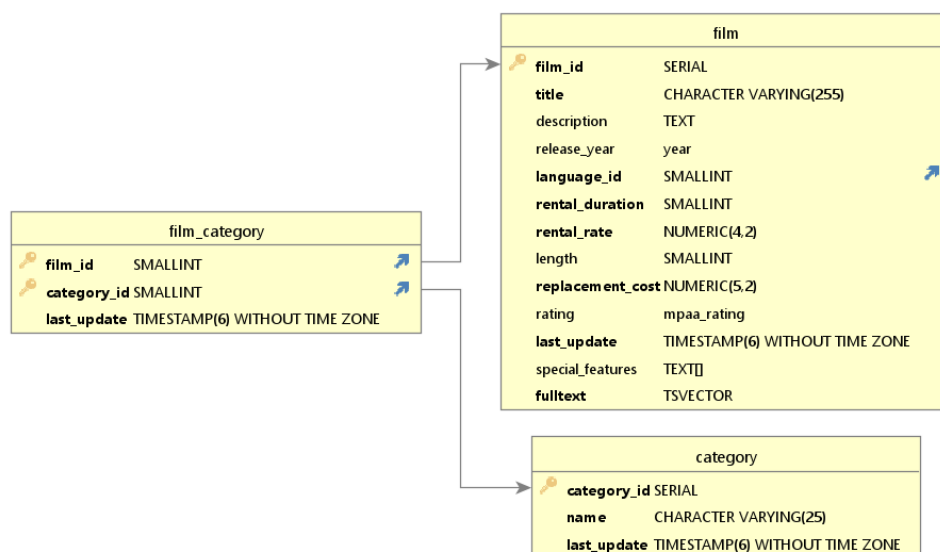
NAME	DATA TYPE	DESCRIPTION
🔑 film_id	small integer	The unique identifier (code/number) of each film.
🔑 category_id	small integer	The unique identifier (code/number) of each category.
last_update	timestamp	The last time the information/data was updated.

LINKS TO

TABLE	JOIN
film	**film_category**.film_id = film.film_id
category	**film_category**.category_id = category.category_id

3.1.4. *store*
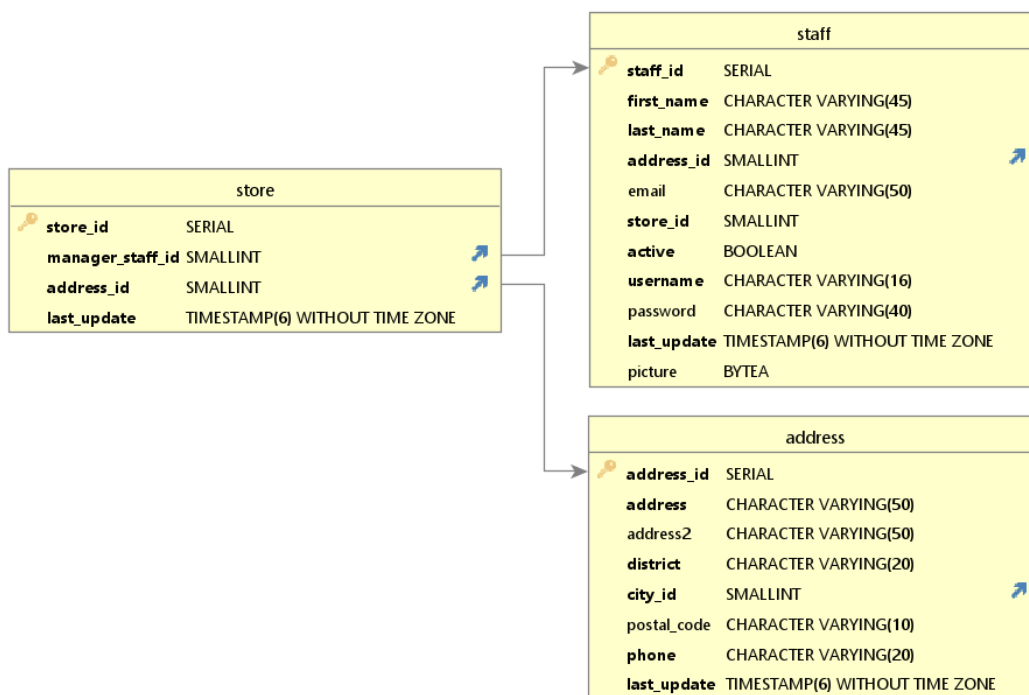
COLUMNS

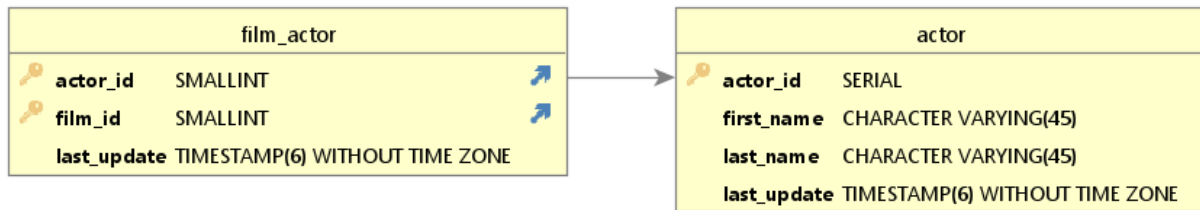| COLUMNS	DATA TYPE	DESCRIPTION
🔑 store_id	serial (integer)	The unique identifier (code/number) of each store.
🔑 manager_staff_id	small integer	The unique identifier (code/number) of each staff manager.
🔑 address_id	small integer	The unique identifier (code/number) of each address.
last_update	timestamp	The last time the information/data was updated.

LINKS TO

TABLE	JOIN
staff	**store**.store_id = staff.store_id / store.manager_staff_id = staff.staff_id
address	**store**.address_id = address.address_id

3.2. DIMENSION TABLES:

3.2.1. actor

COLUMNS

NAME	DATA TYPE	DESCRIPTION
🔑 actor_id	serial (integer)	The unique identifier (code/number) of the actor/actress.
first_name	character varying	First name of the actor/actress.
last_name	character varying	Last name of the actor/actress.
last_update	timestamp	The last time the information/data was updated.

LINKS FROM

TABLE	JOIN
film.actor	**actor**.actor_id = film_actor.actor_id

3.2.2. address
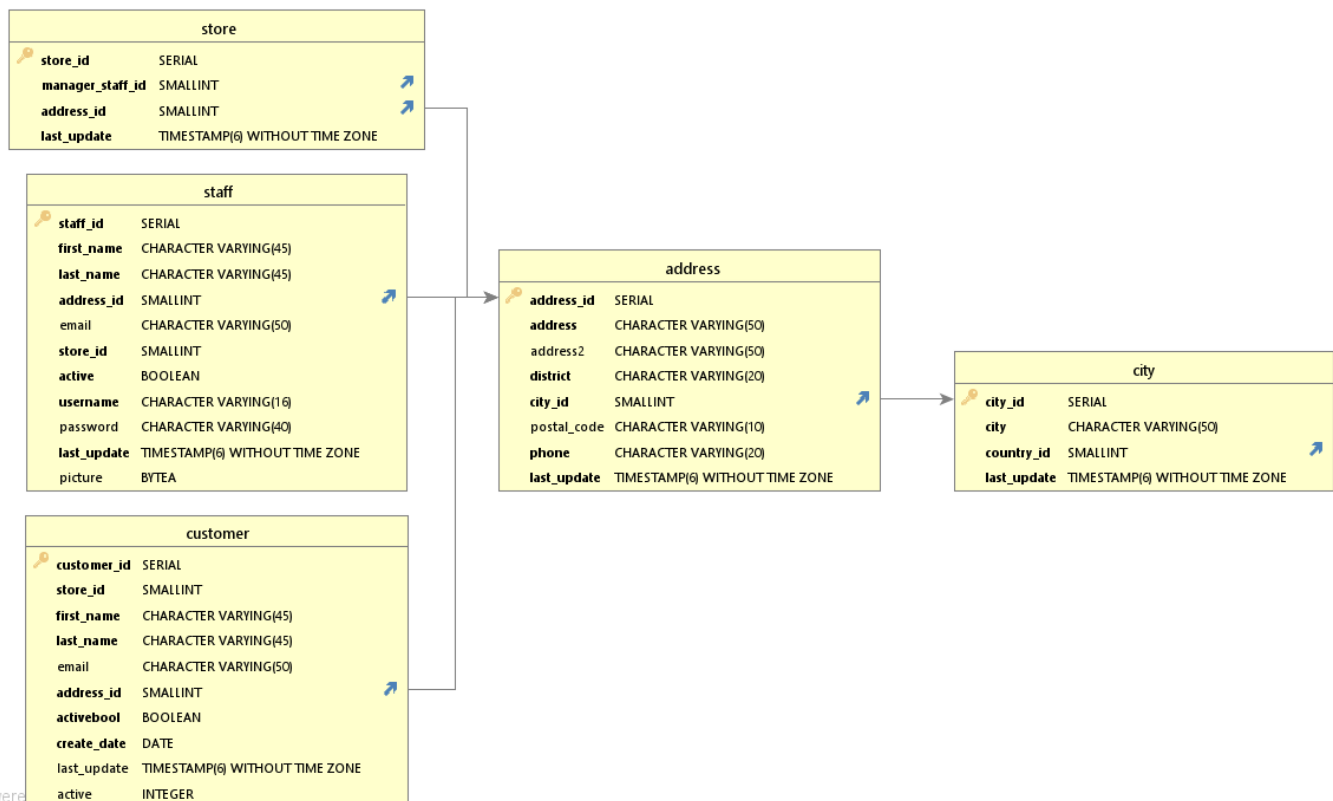
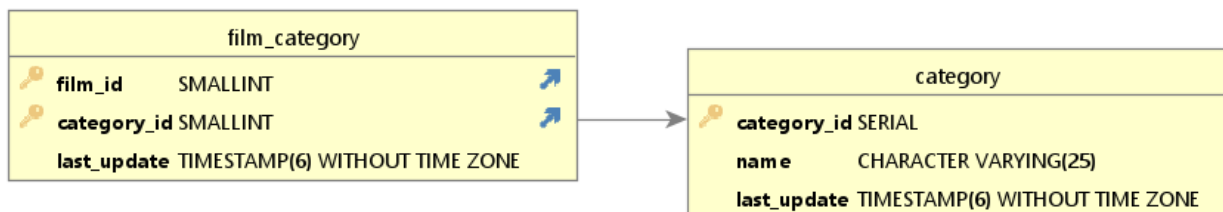| NAME	DATA TYPE	DESCRIPTION
🔑 **c**address_id	serial (integer)	The unique identifier (code/number) of each specific address.
address	character varying	The street name and number of the address.
address2	character varying	Any additional information regarding the address (like a building name or apartment number)
district	character varying	The state or district in which the street address is located.
🔑 city_id	small integer	The unique identifier (code/number) of each city.
postal_code	character varying	The postal code or zip code that is associated with each address.
phone	character varying	The phone number that is associated with the address.
last_update	timestamp	The last time the information/data was updated.

LINKS TO

TABLE	JOIN
city	**address**.city_id = city.city_id

LINKS FROM

TABLE	JOIN
store	**address**.address_id = store.address_id
staff	**address**.address_id = staff.address_id
customer	**address**.address_id = customer.address_id

3.2.3. category

COLUMNS

NAME	DATA TYPE	DESCRIPTION
🔑 category_id	serial (integer)	The unique identifier (code/number) of each category.
name	character varying	The name of the category (e.g., action, comedy, etc.).
last_update	timestamp	The last time the information/data was updated.

TABLE	JOIN
film_category	**category**.category_id = film_category.category_id

3.2.4. city
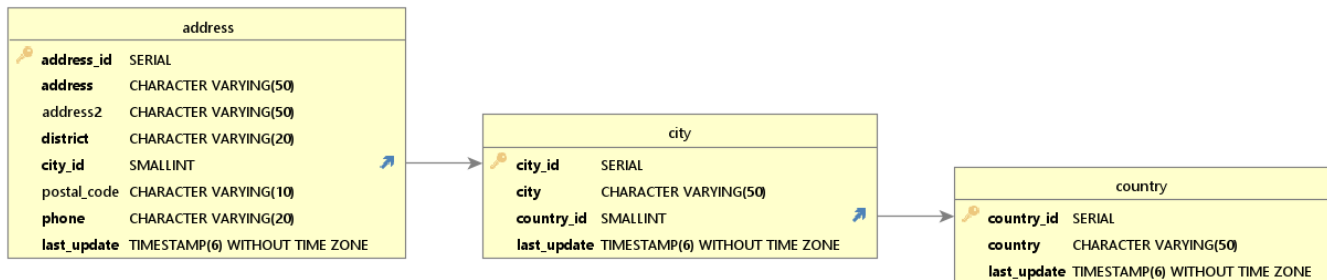
COLUMNS

NAME	DATA TYPE	DESCRIPTION
🔑 city_id	serial (integer)	The unique identifier (code/number) of each city.
city	character varying	The name of the city (e.g., Abu Dhabi, Boksburg etc.).
🔑 country_id	small integer	The unique identifier (code/number) of each country.
last_update	timestamp	The last time the information/data was updated.

LINKS TO
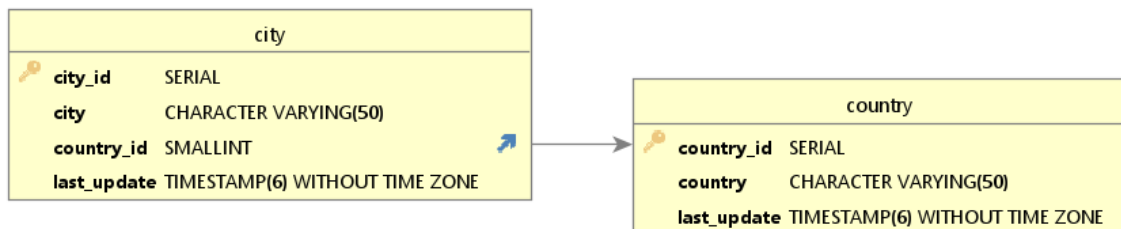
TABLE	JOIN
country	**city**.country_id = country.country_id

LINKS FROM

TABLE	JOIN
address	**city**.city_id = address.city_id

3.2.5. country

COLUMNS

NAME	DATA TYPE	DESCRIPTION
🔑 country_id	serial (integer)	The unique identifier (code/number) of each country.
country	character varying	The name of the country (e.g., South Africa, Azerbaijan, etc.).
last_update	timestamp	The last time the information/data was updated.

TABLE	JOIN
city	**country**.country_id = city.city_id

3.2.6. customer
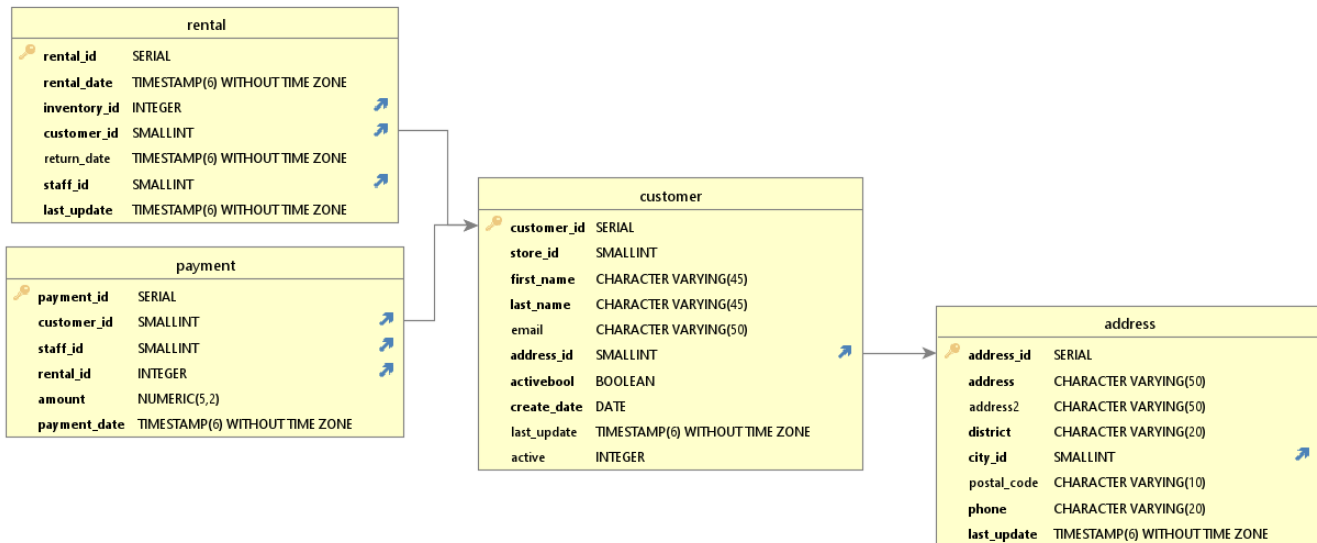
COLUMNS

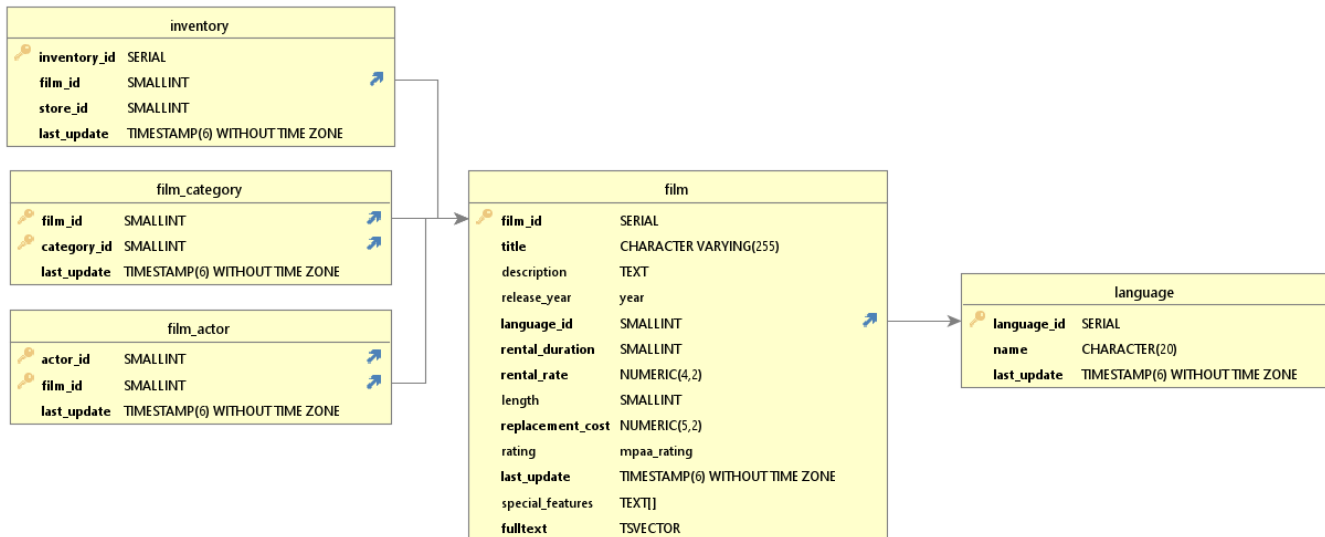| NAME	DATA TYPE	DESCRIPTION
🔑 customer_id	serial (integer)	The unique identifier (code/number) of each customer.
store_id	small integer	The unique identifier (code/number) of each store.
first_name	character varying	First name of the customer.
last_name	character varying	Last name of the customer.
email	character varying	The email address of the customer.
🔑 address_id	small integer	The unique identifier (code/number) of each specific address.
activebool	boolean	Indicator whether the customer is an active customer or not, or if the account has been activated.
create_date	date	The date when the customer account was created.
last_update	timestamp	The last time the information/data was updated.
active	integer	Indicator whether the customer is an active customer or not.

LINKS TO

TABLE	JOIN
address	**customer**.address_id = address.address_id

LINKS FROM

TABLE	JOIN
rental	**customer**.customer_id = rental.customer_id
payment	**customer**.customer_id = payment.customer_id

3.2.7. film

COLUMNS

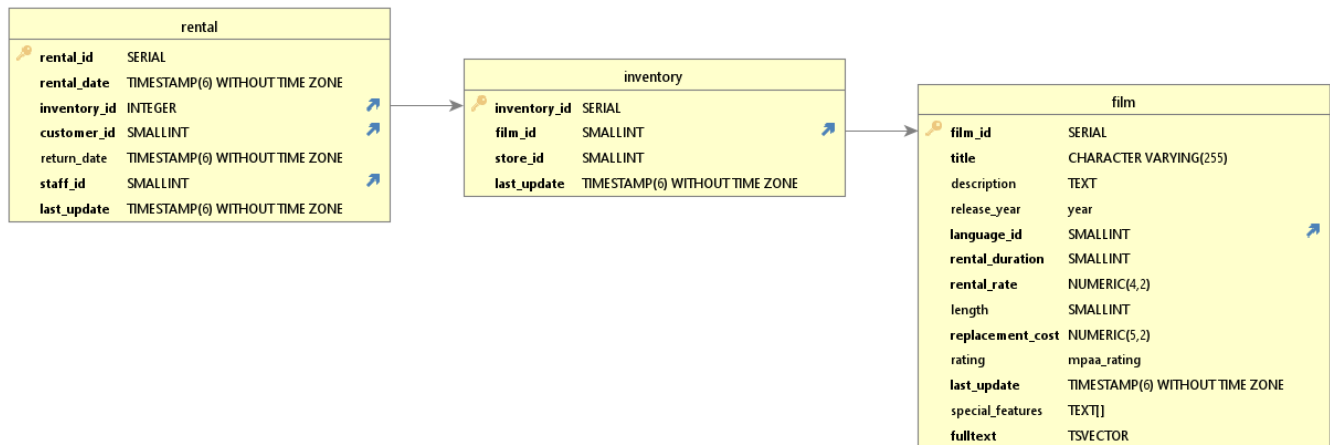| NAME	DATA TYPE	DESCRIPTION
🔑 film_id	serial (integer)	The unique identifier (code/number) of each film.
title	character varying	The title of the film.
description	text	A description of the film.
release_year	year	The year in which the film was released.
🔑 language_id	small integer	The unique identifier (code/number) of each language.
rental_duration	small integer	The duration of the rental period (how long the film was rented).
rental_rate	numeric	The rate (price) of the rental (for how much the film was rented).
length	small integer	The length of the film.
replacement_cost	numeric	The cost of replacing the film (or rental rights of the film).
rating	mpaa_rating	The rating of the film.
last_update	timestamp	The last time the information/data was updated.
special_features	text[]	Any special features of the film, such as trailers or "deleted scenes".
fulltext	tsvector	Key words associated with the film.

LINKS TO

TABLE	JOIN
language	**film.**language_id = language.language_id

LINKS FROM

TABLE	JOIN
inventory	**film.**film_id = inventory.film_id
film_category	**film.**film_id = film_category.film_id
film_actor	**film.**film_id = film_actor.film_id

3.2.8. inventory

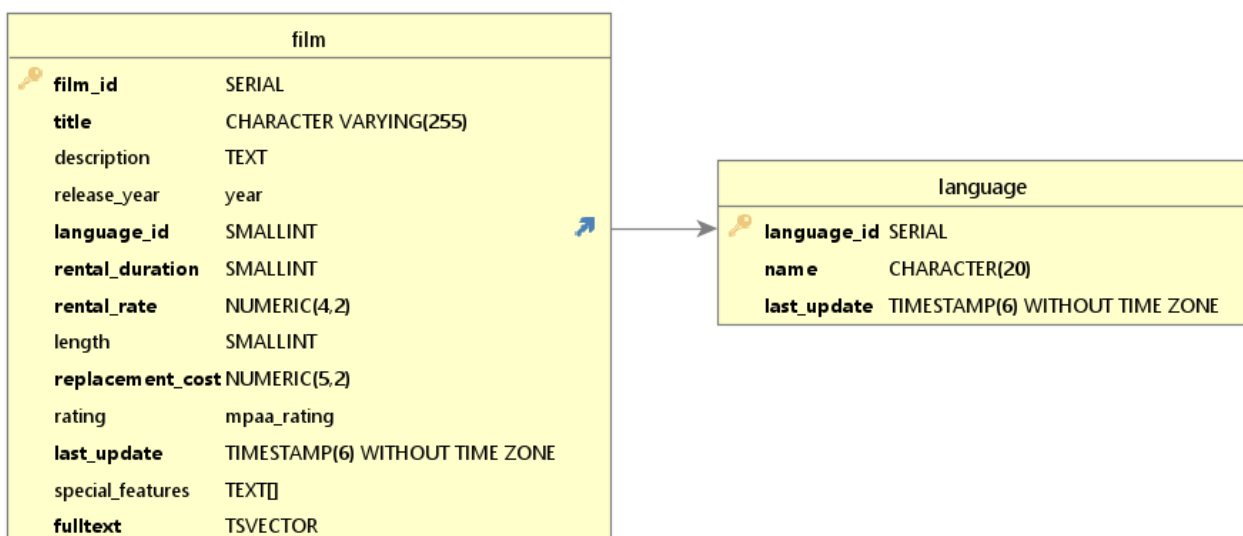| NAME	DATA TYPE	DESCRIPTION
🔑 inventory_id	serial (integer)	The unique identifier (code/number) of each inventory item.
🔑 film_id	small integer	The unique identifier (code/number) of each film.
store_id	small integer	The unique identifier (code/number) of each store.
last_update	timestamp	The last time the information/data was updated.

LINKS TO

TABLE	JOIN
film	**inventory**.film_id = film.film_id

LINKS FROM

TABLE	JOIN
rental	**inventory**.inventory_id = rental.inventory_id

3.2.9. language

NAME	DATA TYPE	DESCRIPTION
🔑 language_id	serial (integer)	The unique identifier (code/number) of each language.
name	character	The name of the language (e.g., Italian, English, etc.).
last_update	timestamp	The last time the information/data was updated.

Links From

TABLE	JOIN
film	**language**.language_id = film.language_id

3.2.10. rental
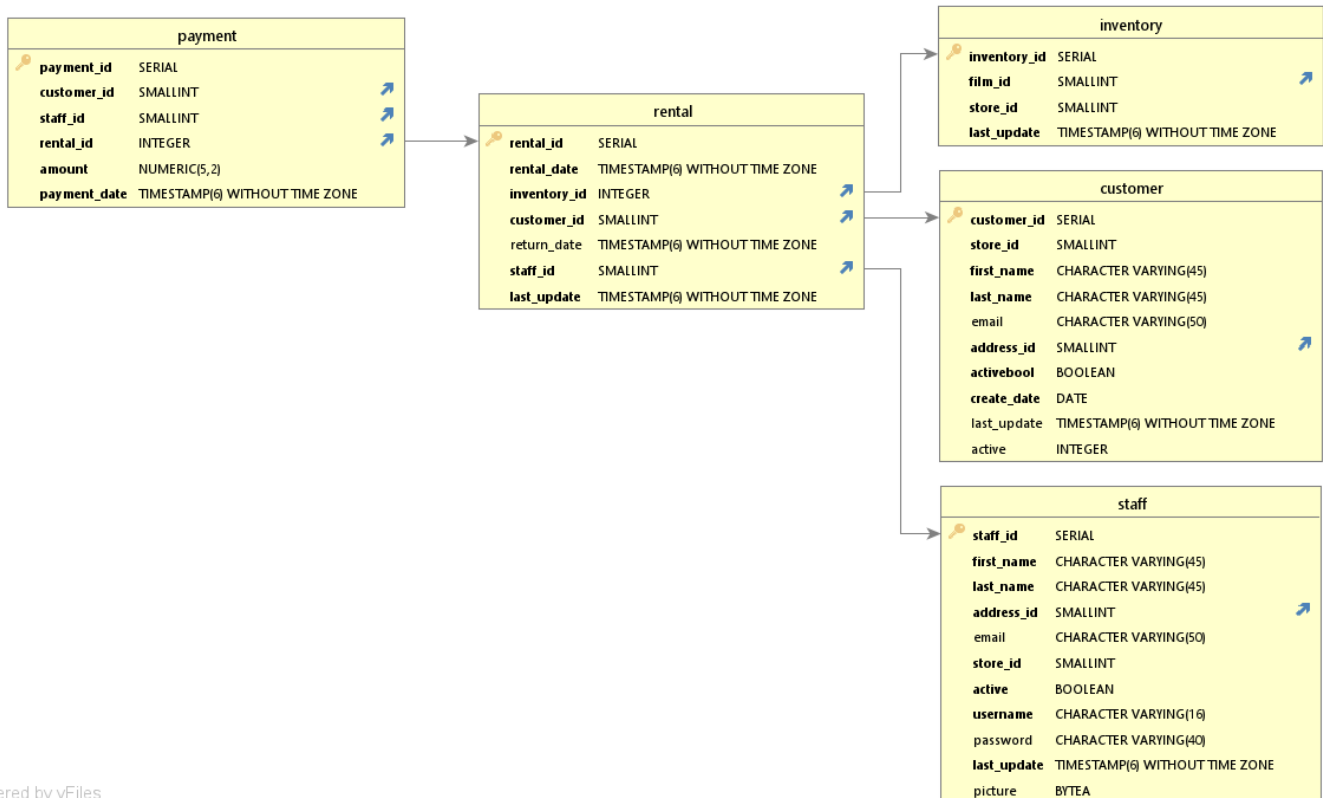
Columns

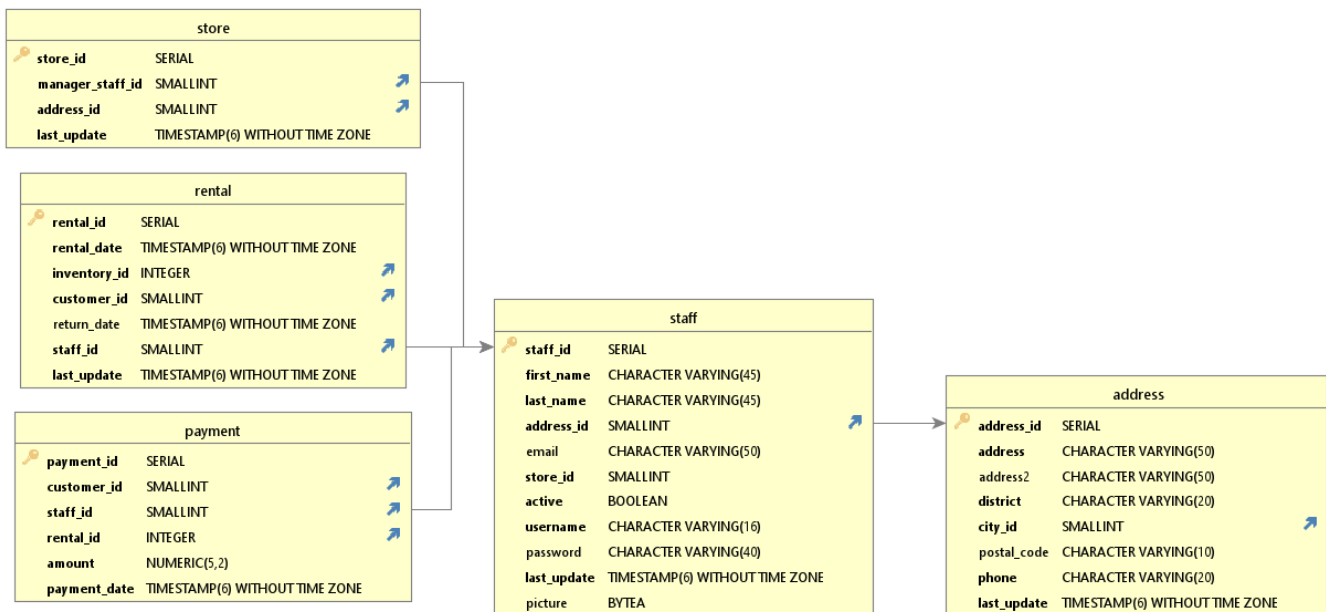| NAME	DATA TYPE	DESCRIPTION
🔑 rental_id	serial (integer)	The number or code of the rental transaction (like an order number) – to identify each unique rental transaction.
rental_date	timestamp	The date when the rental was made.
🔑 inventory_id	integer	The unique identifier (code/number) of the inventory item.
🔑 customer_id	small integer	The code or number of the customer – to identify each unique customer in the system.
return_date	timestamp	The date when the rentals (films) were returned.
🔑 staff_id	small integer	The unique identifier (code/number) of the staff member who completed the transaction (who helped the customer with their payment).
last_update	timestamp	The last time the transaction data was updated.

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	**rental**.rental_id = payment.rental_id

3.2.11. staff

COLUMNS

NAME	DATA TYPE	DESCRIPTION
🔑 staff_id	serial (integer)	The unique identifier (code/number) of each staff member.
first_name	character varying	First name of the staff member.
last_name	character varying	Last name of the staff member.
🔑 address_id	small integer	Address of the staff member.
email	character varying	The email address of the staff member.
store_id	small integer	The unique identifier (code/number) of each specific address.
active	boolean	Indicator whether the staff member is currently employed/active.
username	character varying	Username of the staff member to access the store system.
password	character varying	Password of the staff member to access the store system.
last_update	timestamp	The last time the information/data was updated.
picture	bytea	A picture of the employee.

TABLE	JOIN	
address	**staff**.address_id = address.address_id	

TABLE	JOIN
store	**staff**.staff_id = store.staff_id
rental	**staff**.staff_id = rental.staff_id
payment	**staff**.staff_id = payment.staff_id