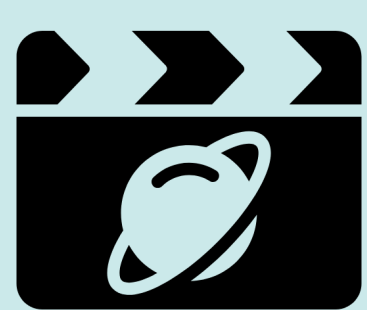
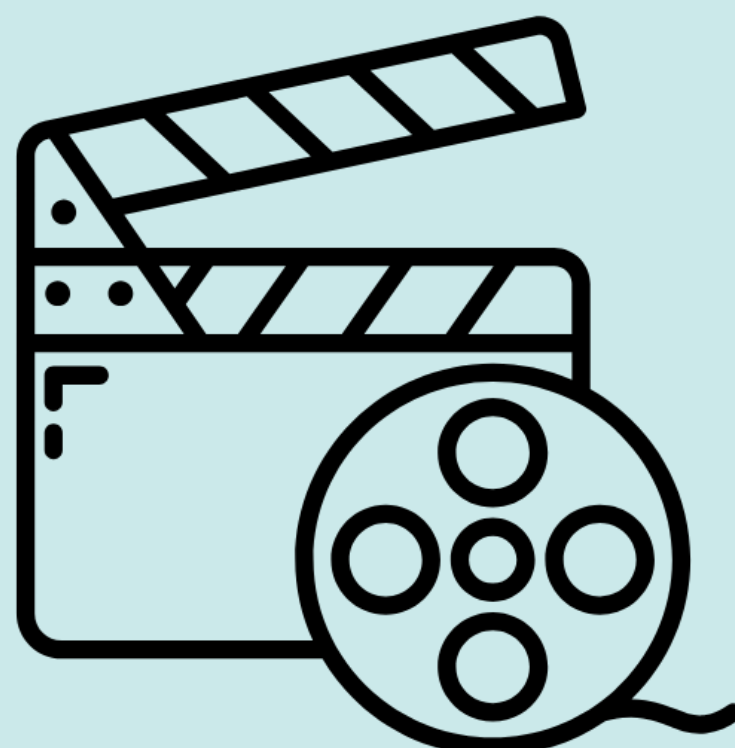



# THE DATA DICTIONARY & ENTITY RELATIONSHIP DIAGRAM (ERD)

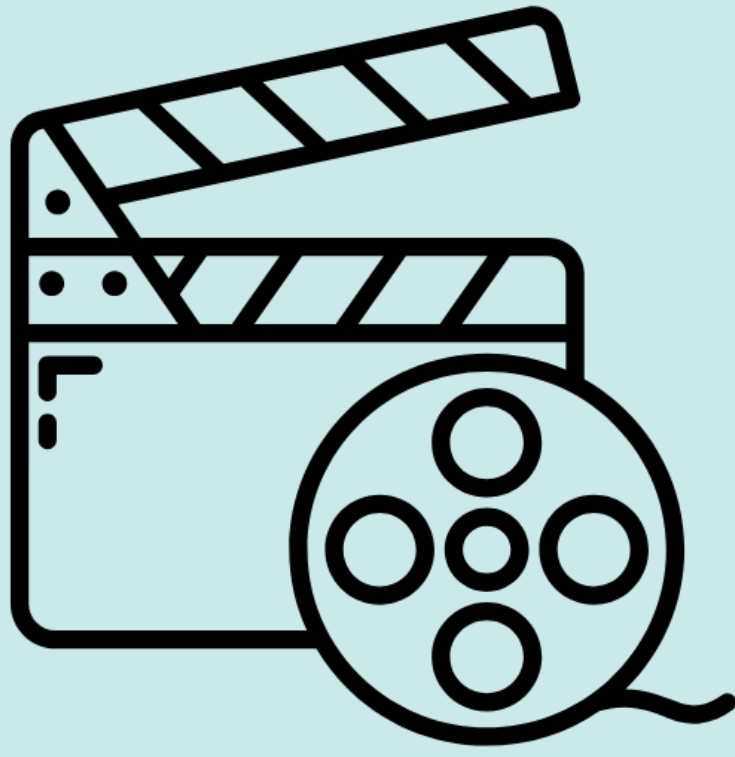


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**Rockbuster Stealth** is a global movie rental company that offers films to customers through physical stores. To support data-driven decision-making, the company has implemented a centralized relational database to track rentals, payments, customers, inventory, and store operations. This data dictionary provides a structured overview of all database tables, including their columns, data types, and descriptions. It serves as a reference for analysts, developers, and stakeholders working with the Rockbuster data system.





**int** — Integer number. Used for identifiers and counts (e.g., `customer_id`, `film_id`).

**serial** — Auto-incrementing integer. Commonly used for primary keys.

**varchar** — Variable-length character string. Suitable for names, emails, and other text fields.

**\_text** — Long text field. Used for detailed descriptions or special feature lists.

**bpchar** — Fixed-length, blank-padded character type. Internal PostgreSQL name for `CHAR(n)`. Stores strings of exactly *n* characters, padding with spaces if input is shorter. Trailing spaces are ignored during comparison but retained in storage. Used for standardized-length text fields like codes or identifiers.

**bool** — Boolean value (`TRUE` or `FALSE`). Indicates active status or availability.

**numeric** — High-precision number. Typically used for monetary values (e.g., `amount`, `rental_rate`).

**timestamp** — Date and time with time zone. Tracks when a record was created or last updated.

**date** — Calendar date and time. Used for things like account creation.

**year** — Year value (e.g., `2020`). Used for release years of films.

**bytea** — Binary data. Stores images or multimedia (e.g., staff pictures).

**tsvector** — Full-text search vector (PostgreSQL-specific). Enables full-text search indexing.

**mpaa\_rating** — Enum or domain type representing film ratings (e.g., `G`, `PG`, `R`). Used to classify movie content.

Data  
Immersion

Achievement III

Data Storage & Structure

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By Ola Gaffarova

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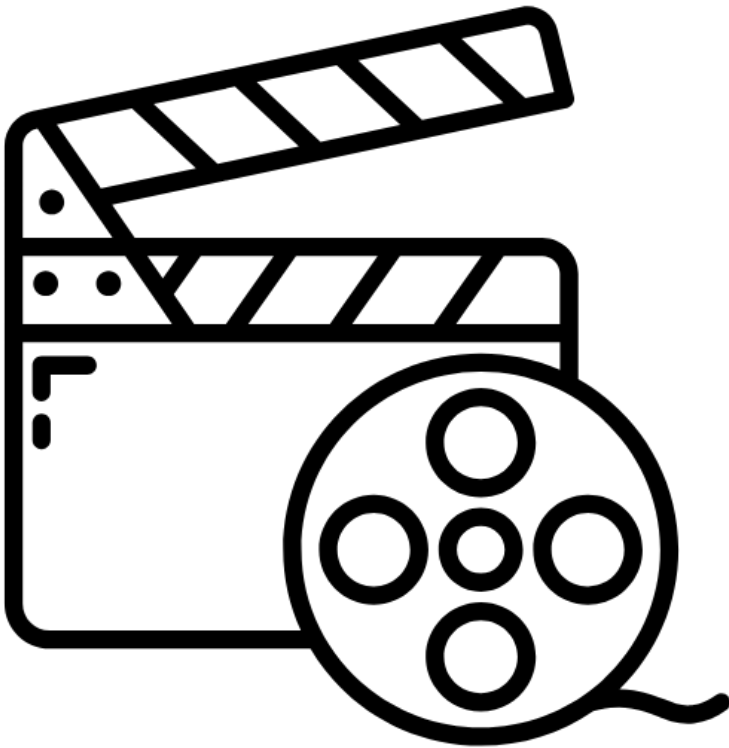
Made for  
Rockbuster Stealth



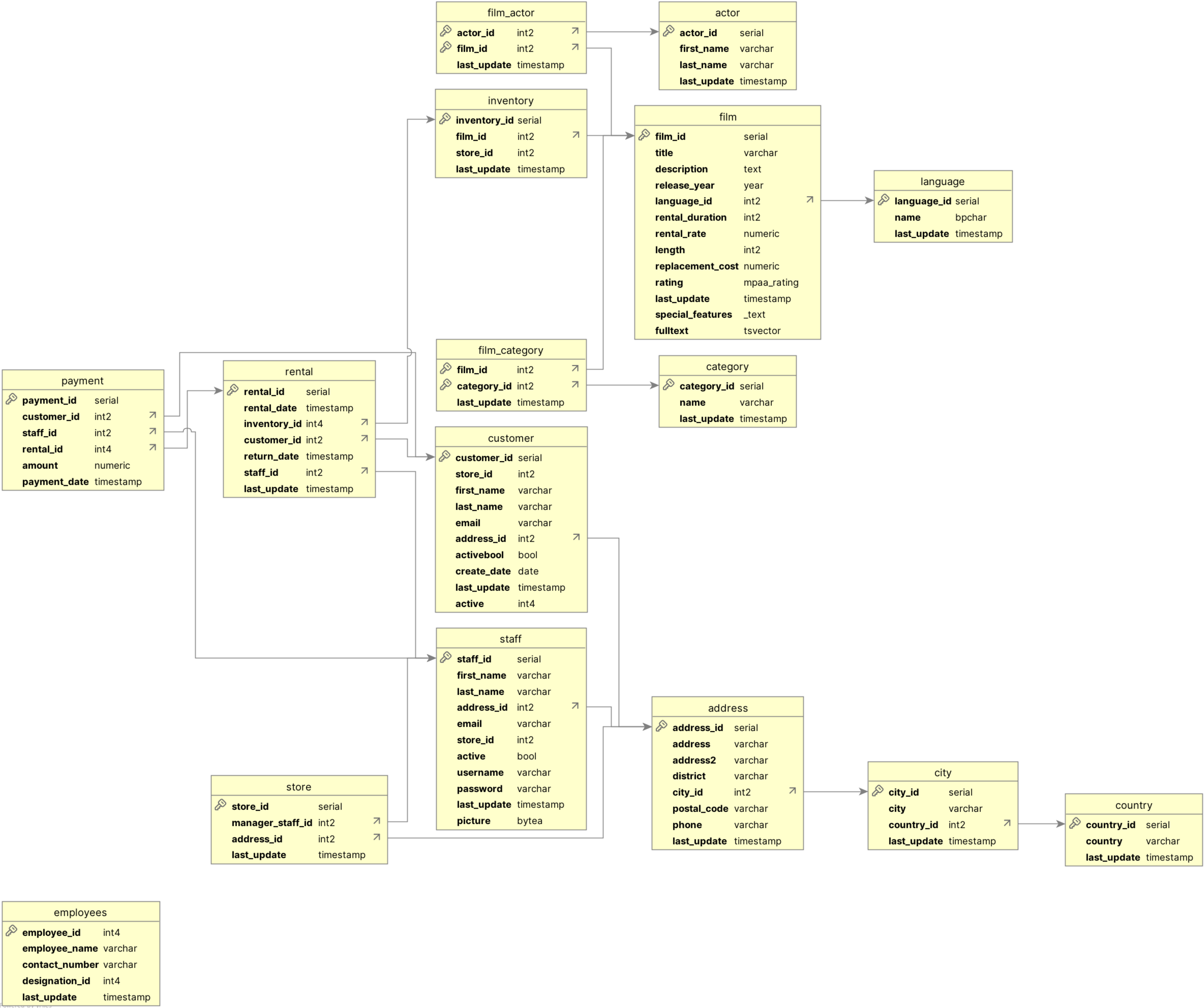
 PK: Primary Key

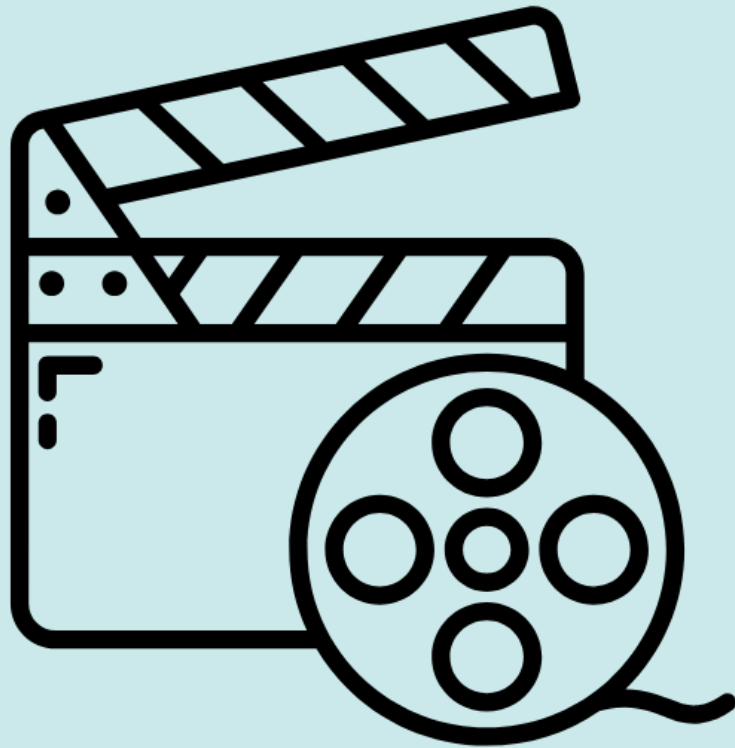
 FK: Foreign Key





ENTITY RELATIONAL DIAGRAM





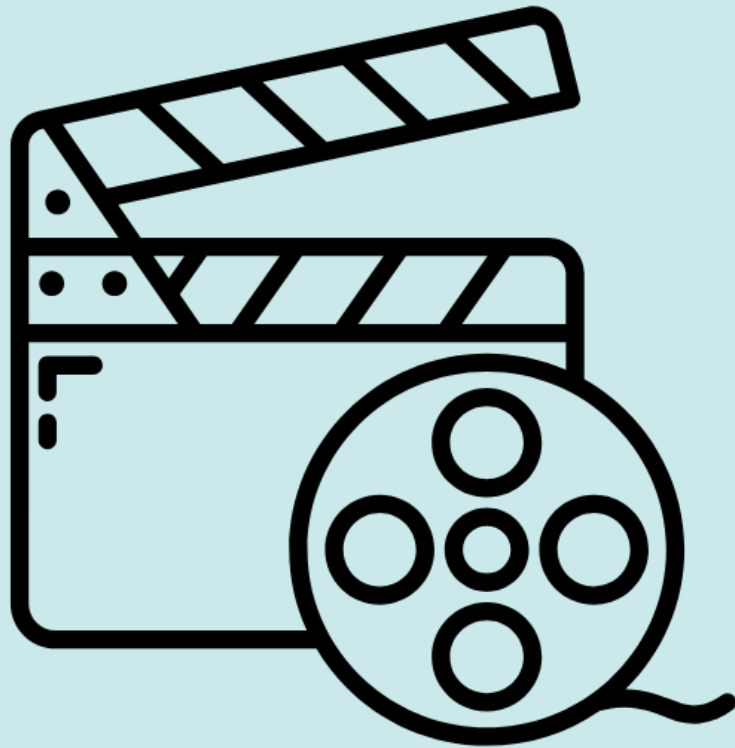
payment

Columns	Data Type	Description
payment_id	serial	Unique identifier for the payment. <b>PK</b>
customer_id int2	int2	Identifier for the customer making the payment. <b>FK to customer.customer_id.</b>
staff_id	int2	Identifier for the staff handling the transaction. <b>FK to staff.staff_id.</b>
rental id	Int4	Identifier for the rental associated with the payment. <b>FK to rental.rental_id</b>
amount	numeric	Total payment amount
payment_date	timestamp	Payment date and time

rental

Columns	Data Type	Description
rental_id	serial	Unique identifier for the rental. <b>PK</b>
rental_date	timestamp	Date and time of unit rental
inventory_id	Int4	Unique identifier for the inventory item. <b>FK to inventory.inventory_id</b>
customer_id	int2	Unique identifier for the customer. <b>FK to customer.customer_id</b>
return_date	timestamp	Date the rental was returned
staff_id	int2	Unique identifier for the staff member. <b>FK to staff.staff_id</b>
last_update	timestamp	Timestamp of the last update to the record



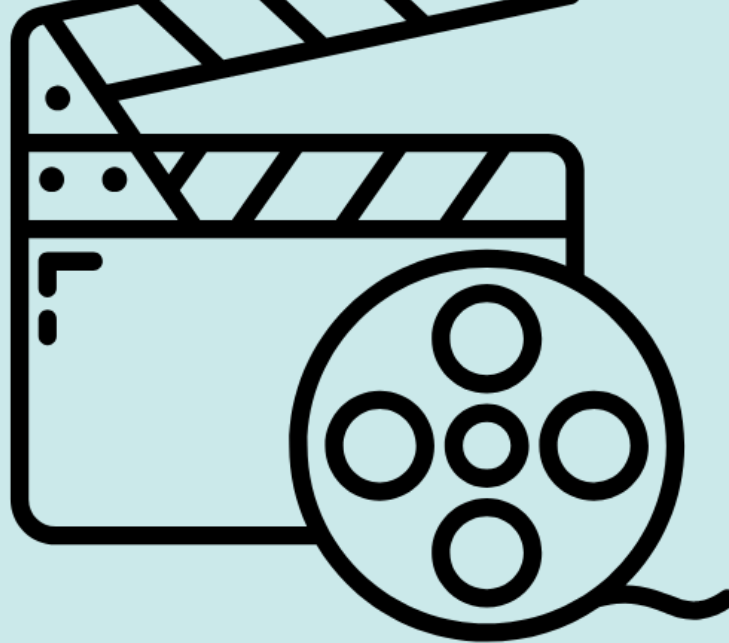


film

Columns	Data Type	Description
film_id	serial	Unique identifier for the film. <b>PK</b>
title	varchar	Title of the film
description	text	Description of the film
release_year	year	Year the film was released
language_id	int2	Unique identifier for the language. <b>FK to language.language_id</b>
rental_duration	int2	Duration (in days) the film can be rented
rental_rate	numeric	Cost to rent the film
length	int2	Length of the film in minutes
replacement_cost	numeric	Cost to replace the film
rating	mpaa_rating	Film rating (e.g., PG, R)
last_update	timestamp	Timestamp of the last update to the record
special_features	_text	List of special features included
fulltext	tsvector	Full text search vector

DIMENSION TABLES



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film\_category

Columns	Data Type	Description
film_id	int2	Unique identifier for the film. PK & FK to film.film_id
category_id	int2	Unique identifier for the category. PK & FK to category.category_id
last_update	timestamp	Timestamp of the last update to the record

language

Columns	Data Type	Description
language_id	serial	Unique identifier for the language. PK to language_language_id
name	bpchar	Language name
last_update	timestamp	Timestamp of the last update to the record

category

Columns	Data Type	Description
category_id	serial	Unique identifier for the category. PK
name	varchar	Name of the category
last_update	timestamp	Timestamp of the last update to the record

inventory

Columns	Data Type	Description
inventory_id	serial	Unique identifier for the inventory item. PK
film_id	int2	Unique identifier for the film. FK to film.film_id
store_id	int2	ID of the store
last_update	timestamp	Timestamp of the last update to the record

DIMENSION TABLES

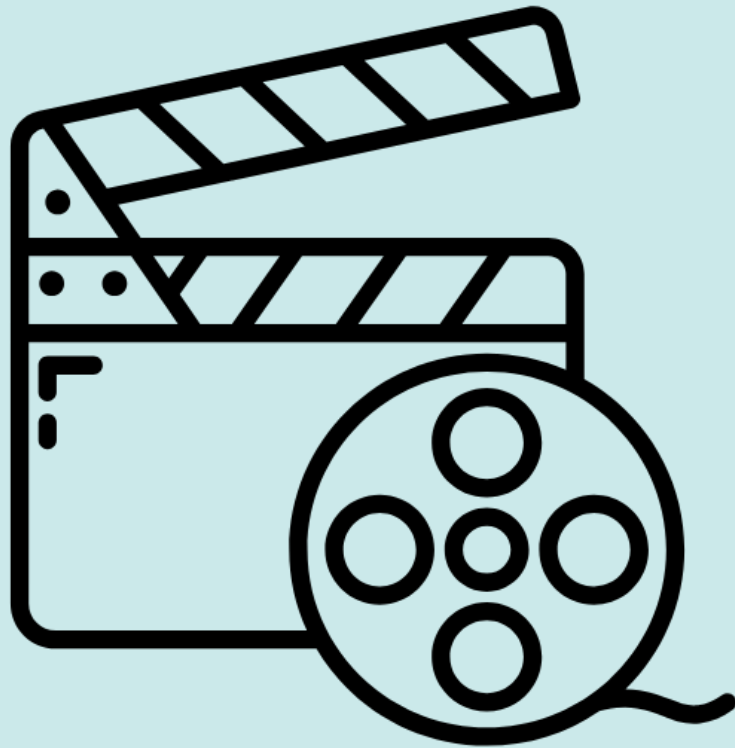


film\_actor

Columns	Data Type	Description
actor_id	int2	Unique identifier for the actor. <b>PK &amp; FK to actor.actor_id</b>
film_id	int2	Unique identifier for the film. <b>PK &amp; FK to film.film_id</b>
last_update	timestamp	Timestamp of the last update to the record

actor

Columns	Data Type	Description
actor_id	serial	Unique identifier for the actor. <b>PK</b>
first_name	varchar	First name of the actor
last_name	varchar	Last name of the actor
last_update	timestamp	Timestamp of the last update to the record



store

Columns	Data Type	Description
store_id	Serial	Unique identifier for the store. <b>PK</b>
manager_staff_id	int2	ID of the store manager. <b>FK to staf.staff_id</b>
address_id	int2	ID of the store address. <b>FK to address.address_id</b>
last_update	timestamp	Timestamp of the last update to the record

staff

Columns	Data Type	Description
staff_id	serial	Unique identifier for the staff member. <b>PK</b>
first_name	varchar	First name of the individual
last_name	varchar	Last name of the individual
address_id	int2	ID of the related address. <b>FK to adress.address_id</b>
email	varchar	Email address
store_id	int2	ID of the store
active	bool	Indicates if the staff member is active
username	varchar	Login username of the staff member
password	varchar	Login password of the staff member
last_update	timestamp	Timestamp of the last update to the record
picture	bytea	Photo of staff member

DIMENSION TABLES





customer

Columns	Data Type	Description
customer_id	Serial	Unique identifier for the customer. <b>PK</b>
store_id	int2	ID of the store
first_name	varchar	First name of the individual
last_name	varchar	Last name of the individual
email	varchar	Email address
address_id	int2	ID of the related address. <b>FK to address.address_id</b>
activebool	Bool	Indicates if the customer is active
create_date	date	Date the customer account was created
last_update	timestamp	Timestamp of the last update to the record
active	Int4	Indicates if the customer is active

country

Columns	Data Type	Description
country_id	Serial	Unique identifier for the country. <b>PK</b>
country	varchar	Name of the country
last_update	timestamp	Timestamp of the last update to the record

DIMENSION TABLES



address

Columns	Data Type	Description
address_id	serial	Unique identifier for the address. <b>PK</b>
address	varchar	Street address
address2	varchar	Additional address information
district	varchar	District or region of the address
city_id	int2	Unique identifier for the city. <b>FK to city.city_id</b>
postal_code	varchar	Postal code
phone	varchar	Phone number
last_update	timestamp	Timestamp of the last update to the record

city

Columns	Data Type	Description
city_id	Serial	Unique identifier for the city. <b>PK</b>
city	varchar	Name of the city
country_id	int2	Unique identifier for the country. <b>FK to county.country_id</b>
last_update	timestamp	Timestamp of the last update to the record

DIMENSION TABLES