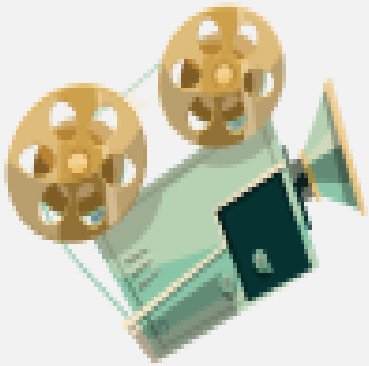
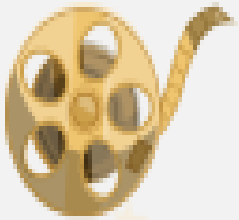


Rockbuster Stealth

Data Dictionary



Mafalda Antunes

September 2023

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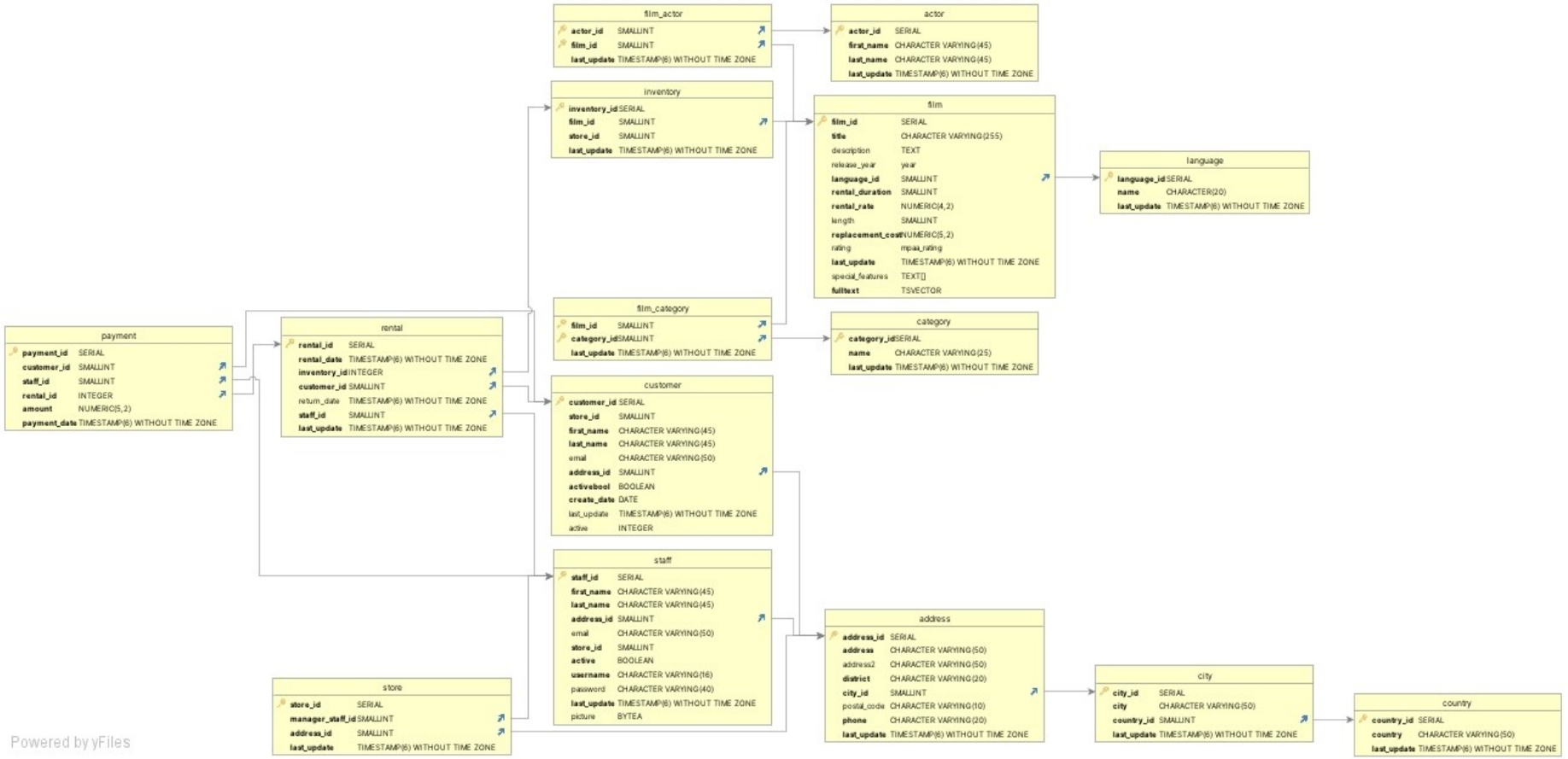
1. ERD


film_actor
actor_id SMALLINT
film_id SMALLINT
last_update TIMESTAMP(6) WITHOUT TIME ZONE
actor
actor_id SERIAL
first_name CHARACTER VARYING(45)
last_name CHARACTER VARYING(45)
last_update TIMESTAMP(6) WITHOUT TIME ZONE
inventory
inventory_id SERIAL
film_id SMALLINT
store_id SMALLINT
last_update TIMESTAMP(6) WITHOUT TIME ZONE
film
film_id SERIAL
title CHARACTER VARYING(255)
description TEXT
release_year year
language_id SMALLINT
rental_duration SMALLINT
rental_rate NUMERIC(4,2)
length SMALLINT
replacement_cost NUMERIC(5,2)
rating mpaa_rating
last_update TIMESTAMP(6) WITHOUT TIME ZONE
special_features TEXT[]
fulltext TSVECTOR
language
language_id SERIAL
name CHARACTER(20)
last_update TIMESTAMP(6) WITHOUT TIME ZONE
film_category
film_id SMALLINT
category_id SMALLINT
last_update TIMESTAMP(6) WITHOUT TIME ZONE
category
category_id SERIAL
name CHARACTER VARYING(25)
last_update TIMESTAMP(6) WITHOUT TIME ZONE
payment
payment_id SERIAL
customer_id SMALLINT
staff_id SMALLINT
rental_id INTEGER
amount NUMERIC(5,2)
payment_date TIMESTAMP(6) WITHOUT TIME ZONE
rental
rental_id SERIAL
rental_date TIMESTAMP(6) WITHOUT TIME ZONE
inventory_id INTEGER
customer_id SMALLINT
return_date TIMESTAMP(6) WITHOUT TIME ZONE
staff_id SMALLINT
last_update TIMESTAMP(6) WITHOUT TIME ZONE
customer
customer_id SERIAL
store_id SMALLINT
first_name CHARACTER VARYING(45)
last_name CHARACTER VARYING(45)
email CHARACTER VARYING(50)
address_id SMALLINT
activebool BOOLEAN
create_date DATE
last_update TIMESTAMP(6) WITHOUT TIME ZONE
active INTEGER
staff
staff_id SERIAL
first_name CHARACTER VARYING(45)
last_name CHARACTER VARYING(45)
address_id SMALLINT
email CHARACTER VARYING(50)
store_id SMALLINT
active BOOLEAN
username CHARACTER VARYING(16)
password CHARACTER VARYING(40)
last_update TIMESTAMP(6) WITHOUT TIME ZONE
picture BYTEA
address
address_id SERIAL
address CHARACTER VARYING(50)
address2 CHARACTER VARYING(50)
district CHARACTER VARYING(20)
city_id SMALLINT
postal_code CHARACTER VARYING(10)
phone CHARACTER VARYING(20)
last_update TIMESTAMP(6) WITHOUT TIME ZONE
city
city_id SERIAL
city CHARACTER VARYING(50)
country_id SMALLINT
last_update TIMESTAMP(6) WITHOUT TIME ZONE
country
country_id SERIAL
country CHARACTER VARYING(50)
last_update TIMESTAMP(6) WITHOUT TIME ZONE
store
store_id SERIAL
manager_staff_id SMALLINT
address_id SMALLINT
last_update TIMESTAMP(6) WITHOUT TIME ZONE
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2. Legend

Primary Key - Unique identifier column for each record in the table and it can’t be null.

Foreign Key - Unique column that refers to the primary key in another table.

3. Fact Tables

3.1. Rental Table

Columns	Data Type	Description
rental_id	serial	Primary key_ unique rental identifier
rental_date	timestamp without time zone	Rental record date
inventory_id	Integer	Foreign key - Unique inventory identifier
customer_id	Small integer	Foreign key - Unique customer identifier
return_ date	timestamp without time zone	Rental return record date
staff_id	Small integer	Foreign key - Unique staff identifier
last_update	timestamp without time zone	Date and time of the last record update

Link From	Data Type	Description
payment	payment.rental_id=rental_rental_id	Foreign key reference from payment table

Link to	Data Type	Description
Inventory	rental.Inventory_id= Inventory.Inventiry_id	Primary key reference to Inventory table
Customer	rental.customer_id= customer.customer_id	Primary key reference to customer table
Staff	rental.staff_id= staff.staff_id	Primary key reference to staff table

3.2 Payment Table

Columns	Data Type	Description
payment_id	serial	Primary key - Unique payment identifier
cutomer _id	Small int	Foreign key - Unique customer identifier
staff_id	Small int	Foreign key - Unique staff identifier
rental_id	Integer	Foreign key - Unique rental identifier
amount	Numerics (5,2)	Payment value
payment_date	timestamp without time zone	Date and time of payment record

Link From	Data Type	Description
-	-	-

Link to	Data Type	Description
customer	payment.customer_id= customer.customer_id	Primary key reference to customer table
rental	payment.rental_id= rental.rental_id	Primary key reference to rental table
staff	payment.staff_id= staff.staff_id	Primary key reference to staff table

4. Dimension Tables

4.1 Store Table

Columns	Data Type	Description
store_id	serial	Primary key- Unique store identifier
manager_staff_id	Small integer	Foreign key - Unique staff manager identifier
adress_id	Small integer	Foreign key - Unique store address identifier
Last_update	timestamp without time zone	Date and time of the last record update

Link From	Data Type	Description
-	-	-

Link to	Data Type	Description
staff	store.manager_ satff_id= staff.staff_id	Foreign key reference to staff table
adress	store.adress_id= address.adress_id	Foreign key reference to address table

4.2 Film_actor Table

Columns	Data Type	Description
actor_id	serial	Foreign key- Unique actor identifier
film_id	Small integer	Foreign key - Unique film identifier
last_update	timestamp without time zone	Date and time of the last record update

Link From	Data Type	Description
-	-	-

Link to	Data Type	Description
actor	film_actor.actor_id= actor.actor_id	Foreign key reference to actor table
film	film_actor.film_id=film.film_id	Foreign key reference to film table

4.3 Inventory Table

Columns	Data Type	Description
inventory_id	serial	Primary key- Unique inventory identifier
film_id	Small integer	Foreign key - Unique film identifier
store_id	Small integer	Unique store identifier
Last_update	timestamp without time zone	Date and time of the last record update

Link From	Data Type	Description
rental	rental.Inventory_id= Inventory.Inventory_id	Foreign key reference from rental table

Link to	Data Type	Description
film	Inventory.film_id=film.film_id	Foreign key reference to film table

4.4. Film_categoryTable

Columns	Data Type	Description
film_id	Small integer	Foreign key- Unique film identifier
category_id	Small integer	Foreign key- Unique category identifier
last_update	timestamps without time zone	Date and time of the last record update

Link From	Data Type	Description
-	-	-

Link to	Data Type	Description
category	film_category.category_id=category.category_id	Primary key reference to category table
film	film_category.film_id=film.film_id	Primary key reference to film table

4.5 Customer table

Columns	Data Type	Description
customer_id	Integer	Primary key - Unique customer identifier
store_id	Small integer	Unique store identifier
first_name	character varying (45)	Costumer first name
last_name	character varying (45)	Costumer last name
email	character varying (50)	Costumer email address
adress_id	Small integer	Foreign key - Unique address identifier
activebool	boolean	true “active” customer and false “not active" customer
create-date	date	Date and time of record creation
last_update	timestamps without time zone	Date and time of the last record update
active	Integer	active costumer code (1), not active customer code (0)

Link From	Data Type	Description
payment	payment.customer_id= customer.customer_id	Foreign key reference from payment table

Link to	Data Type	Description
address	customer.address_id= adress.address_id	Primary key reference to address table

4.6 Staff Table

Columns	Data Type	Description
staff_id	Integer	Primary key - Unique staff identifier
first_name	character varying (45)	Staff first name
last_name	character varying (45)	Staff last name
email	character varying (50)	Staff email address
adress_id	Small integer	Foreign key - Unique address identifier
activebool	boolean	true “active” staff and false “not active" staff
create-date	date	Date and time of record creation
last_update	timestamps without time zone	Date and time of the last record update
picture	Bytea	staff's account profile picture

Link From	Data Type	Description
payment	payment.staff_id= staff.staff_id	Foreign key reference from payment table

Link to	Data Type	Description
address	staff.address_id= adress.address_id	Primary key reference to address table

4.7 Actor Table

Columns	Data Type	Description
actor_id	serial	Primary key - Unique actor identifier
first_name	character varying (45)	Actor first name
last_name	character varying (45)	Actor last name
Last_update	timestamp without time zone	Date and time of the last record update

Link From	Data Type	Description
film_actor	film_actor.actor_id=actor.actor.id	Foreign key reference from film_actor table

Link to	Data Type	Description
-	-	-

4.8 Film Table

Columns	Data Type	Description
film_id	Integer	Primary key - Unique film identifier
title	character varying (225)	Film title
description	text	Film description
release_year	Integer	Film release year
language _id	Small Integer	Foreign key - Unique language identifier
rental_duration	Small Integer	Film rental duration
rental_rate	numeric	Film rental rate
length	Small Integer	Film length
replacement_cost	numeric	Film replacement cost
rating	user-defined	Film rating
last update	timestamp without time zone	Date and time of the last record update
special_features	array	Film special features
fulltext	tsvector	Film index; contains count of key words in description for searching

Link From	Data Type	Description
film_actor	film_actor.film_id=film.film.id	Foreign key reference from film_actor table
Inventory	Inventory.film_id=film.film.id	Foreign key reference from Inventory table
film_category	film_category.film_id=film.film.id	Foreign key reference from film_category table

Link to	Data Type	Description
Language	film.language_id= language.language_id	Primary key reference to language table

4.9 Category Table

Columns	Data Type	Description
category_id	serial	Primary key - Unique category identifier
Name	character varying (25)	Category name
last_update	timestamp without time zone	Date and time of the last record update

Link From	Data Type	Description
film_category	film_category.category_id=category.category_id	Foreign key reference from film_category table

Link to	Data Type	Description
-	-	-

4.10 Address Table

Columns	Data Type	Description
adress_id	serial	Primary key - Unique address identifier
Address	character varying (50)	Adress information
adress 2	character varying (50)	Adress information
district	character varying (20)	District information
city_id	Small integer	Foreign key - Unique city identifier
postal_code	character varying (10)	Postal code information
Phone	character varying (20)	Phone number information
last_update	timestamps without time zone	Date and time of the last record update

Link From	Data Type	Description
customer	customer.address_id=adress.address_id	Foreign key reference from customer table
staff	staff.address_id=adress.address_id	Foreign key reference from staff table
store	store.address_id=adress.address_id	Foreign key reference from store table

Link to	Data Type	Description
city	address.city_id= city.city_id	Primary key reference to city table

4.11 Language Table

Columns	Data Type	Description
language_id	serial	Primary key - Unique language identifier
Name	character varying (20)	Language name
last_update	timestamp without time zone	Date and time of the last record update

Link From	Data Type	Description
Film	film.language_id=language_language_id	Foreign key reference from film table

Link to	Data Type	Description
-	-	-

4.12. City Table

Columns	Data Type	Description
city_id	serial	Primary key- unique city identifier
City	character varying (50)	City name
country_id	small integer	Foreign key - Unique country identifier
last_update	timestamp without time zone	Date and time of the last record update

Link From	Data Type	Description
address	address.city_id=city.city_id	Foreign key reference from address table

Link to	Data Type	Description
country	city.country_id=country.country_id	Primary key reference to country table

4.13. Country Table

Columns	Data Type	Description
country_id	serial	Primary key - Unique country identifier
country	character varying (50)	Country name
last_update	timestamp without time zone	Date and time of the last record update

Link From	Data Type	Description
city	city.country_id=country.country_id	Foreign key reference from city table

Link to	Data Type	Description
-	-	-