Rockbuster Stealth

Data Dictionary

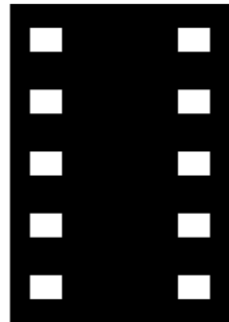12/20/2021

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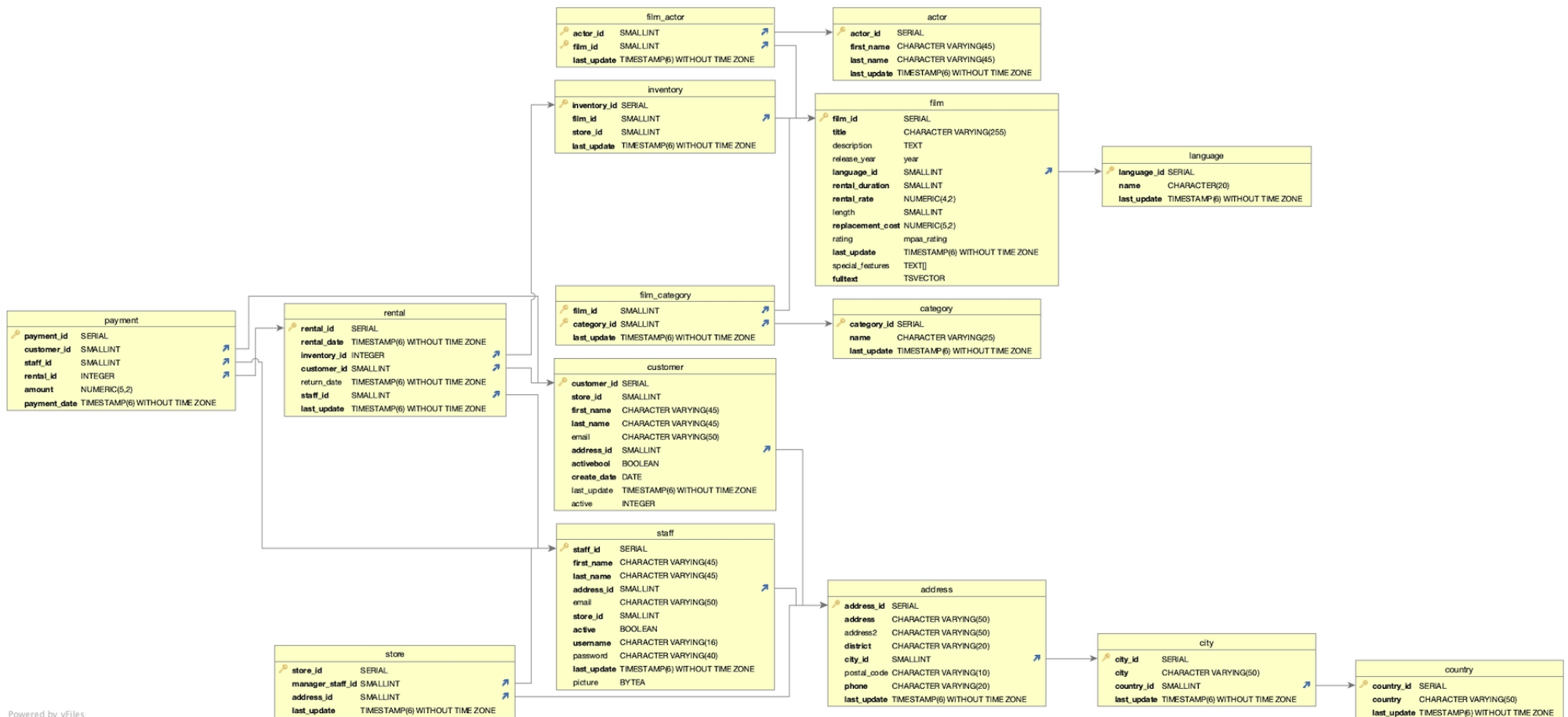
1. Legend

🔑 Primary Key

↗ Foreign key

2. Entity Relationship Diagram (ERD)

film_actor

Column	Type	Key
actor_id	SMALLINT	PK, FK
film_id	SMALLINT	PK, FK
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	

actor

Column	Type	Key
actor_id	SERIAL	PK
first_name	CHARACTER VARYING(45)	
last_name	CHARACTER VARYING(45)	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	

inventory

Column	Type	Key
inventory_id	SERIAL	PK
film_id	SMALLINT	
store_id	SMALLINT	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	

film

Column	Type	Key
film_id	SERIAL	PK
title	CHARACTER VARYING(255)	
description	TEXT	
release_year	year	
language_id	SMALLINT	FK
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

Column	Type	Key
language_id	SERIAL	PK
name	CHARACTER(20)	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	

film_category

Column	Type	Key
film_id	SMALLINT	PK, FK
category_id	SMALLINT	PK, FK
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	

category

Column	Type	Key
category_id	SERIAL	PK
name	CHARACTER VARYING(25)	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	

payment

Column	Type	Key
payment_id	SERIAL	PK
customer_id	SMALLINT	FK
staff_id	SMALLINT	FK
rental_id	INTEGER	FK
amount	NUMERIC(5,2)	
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	

rental

Column	Type	Key
rental_id	SERIAL	PK
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	
inventory_id	INTEGER	FK
customer_id	SMALLINT	FK
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	
staff_id	SMALLINT	FK
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	

customer

Column	Type	Key
customer_id	SERIAL	PK
store_id	SMALLINT	
first_name	CHARACTER VARYING(45)	
last_name	CHARACTER VARYING(45)	
email	CHARACTER VARYING(50)	
address_id	SMALLINT	FK
activebool	BOOLEAN	
create_date	DATE	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	
active	INTEGER	

staff

Column	Type	Key
staff_id	SERIAL	PK
first_name	CHARACTER VARYING(45)	
last_name	CHARACTER VARYING(45)	
address_id	SMALLINT	FK
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

Column	Type	Key
address_id	SERIAL	PK
address	CHARACTER VARYING(50)	
address2	CHARACTER VARYING(50)	
district	CHARACTER VARYING(20)	
city_id	SMALLINT	FK
postal_code	CHARACTER VARYING(10)	
phone	CHARACTER VARYING(20)	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	

store

Column	Type	Key
store_id	SERIAL	PK
manager_staff_id	SMALLINT	FK
address_id	SMALLINT	FK
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	

city

Column	Type	Key
city_id	SERIAL	PK
city	CHARACTER VARYING(50)	
country_id	SMALLINT	FK
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	

country

Column	Type	Key
country_id	SERIAL	PK
country	CHARACTER VARYING(50)	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	

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3. Tables

3.1 payment

Key	Column	Data Type	Description
🔑	payment_id	serial (integer)	**Primary key.** Unique number that identifies the transaction of the payment.
↗	customer_id	smallint	Unique number that identifies a customer.
↗	staff_id	smallint	Unique number of staff member that did the transaction.
↗	rental_id	integer	Unique number that identifies the transaction of the rental.
	amount	numeric(5,2)	Price of movie. ($#####.##)
	payment_date	timestamp (6) without time zone	Date and time of transaction.

Links to:

Table	JOIN
customer	ON payment.customer _id = customer.customer_id
staff	ON payment.staff_id = staff.staff_id
rental	ON payment.rental_id = rental.rental_id

Links from:

NONE

3.2   store

Key	Column	Data Type	Description
🔑	store_id	serial (integer)	**Primary key.** Unique number that identifies the store where transaction was recorded.
↗	manager_staff_id	smallint	Unique number that identifies the manager staff.
↗	address_id	smallint	Unique number that identifies the address of the store.
	last_update	timestamp (6) without time zone	Date and time of update.

Links to:

Table	JOIN
staff	ON store.manager_staff_id = staff.staff_id
address	ON store.address_id = address.address_id

Links from:

Table	JOIN
inventory	ON store.store_id = inventory.store_id

3.3   film_actor

Key	Column	Data Type	Description
🔑	actor_id	smallint	**Primary key.** Unique number identifying the protagonist of movie.
🔑	film_id	smallint	**Primary key.** Unique number that identifies the movie.
	last_update	timestamp (6) without time zone	Date and time of update.

Links to:

Table	JOIN
staff	ON film_actor.actor_id = actor.actor_id
film_category	ON film_actor.film_id = film_category.film_id

Links from:

    None

3.4 film_category

Key	Column	Data Type	Description
🔑	film_id	smallint	**Primary key.** Unique number that identifies the movie.
🔑	category_id	smallint	**Primary key.** Unique number that identifies the genre of movie.
	last_update	timestamp (6) without time zone	Date and time of update.

Links to:

Table	JOIN
film	ON film_category.film_id = film.film_id
category	ON film_category.film_id = category.film_id

Links from:

Table	JOIN
film_actor	ON film_category.film_id = film_actor.film_id

3.5 rental

Key	Column	Data Type	Description
🔑	rental_id	serial (integer)	**Primary key.** Unique number that identifies movie rented.
	rental_date	timestamp (6) without time zone	Date and time of rental.
↗	inventory_id	smallint (integer)	Unique number that identifies the movie.
↗	customer_id	smallint	Unique number that identifies a customer.
	return_date	timestamp (6) without time zone	Date and time of return.
↗	staff_id	smallint	Unique number of staff member that did the transaction.
	last_update	timestamp (6) without time zone	Date and time of update.

Links to:

Table	JOIN
inventory	ON rental.inventory_id = inventory.inventory_id
customer	ON rental.customer_id = customer.customer_id
staff	ON rental.staff_id = staff.staff_id

Links from:

Table	JOIN
payment	ON rental.rental_id = payment.rental_id
	ON rental.rental_id = payment.customer_id
	ON rental.rental_id = payment.staff_id

3.6   inventory

Key	Column	Data Type	Description
🔑	inventory_id	smallint (integer)	**Primary key.** Unique number that identifies the movie.
↗	film_id	smallint	Unique number that identifies the movie.
↗	store_id	smallint	Unique number that identifies the store where transaction was recorded.
	last_update	timestamp (6) without time zone	Date and time of update.

Links to:

Table	JOIN
film	ON inventory.film_id = film.film_id
store	ON inventory.store_id = store.store_id

Links from:

Table	JOIN
rental	ON inventory.inventory_id = rental.inventory_id

3.7 customer

Key	Column	Data Type	Description
🔑	customer_id	serial (integer)	**Primary key.** Unique number that identifies a customer.
	store_id	smallint	Unique number that identifies the store where transaction was recorded.
	first_name	character varying (45)	First name of customer.
	last_name	character varying (45)	Last name of customer.
	email	character varying (50)	Email of customer.
↗	address_id	smallint	Unique number that identifies the complete address of customer/staff member.
	active_bool	boolean	Active customer in systems or not. (true/false)
	create_date	date	Date when customer was created. YYY-MM-DD
	last_update	timestamp (6) without time zone	Date and time of update.
	active	integer	Active customer or not. (1 or 0)

Links to:

Table	JOIN
address	ON customer.address_id = address.address_id

Links from:

Table	JOIN
payment	ON customer.customer_id = payment.customer_id
rental	ON customer.customer_id = rental.customer_id

3.8 staff

Key	Column	Data Type	Description
🔑	staff_id	serial (integer)	**Primary key.** Unique number that identifies a staff member.
	first_name	character varying (45)	First name of staff.
	last_name	character varying (45)	Last name of staff.
↗	address_id	smallint	Unique number that identifies the complete address of customer/staff member.
	email	character varying (50)	Email of customer.
	store_id	smallint	Unique number that identifies the store where staff works.
	active	boolean	Active staff in systems or not. (true/false)
	username	character varying (16)	Username of staff member
	password	character varying (40)	Password of staff member
	last_update	timestamp (6) without time zone	Date and time of update.
	picture	BYTEA	Picture of staff member

Links to:

Table	JOIN
address	ON staff.address_id = address.address_id

Links from:

Table	JOIN
payment	ON staff.customer_id = payment.customer_id
rental	ON staff.staff_id = rental.staff_id
store	ON staff.staff_id = store.manager_staff_id

3.9   address

Key	Column	Data Type	Description
🔑	address_id	serial (integer)	**Primary key.** Unique number that identifies the complete address of customer/staff member.
	address	character varying (50)	Address of customer/staff.
	address2	character varying (50)	Second line of address .
	district	character varying (20)	State or province.
↗	city_id	smallint	Unique number that identifies a city.
	postal_code	character varying (10)	Postal code number.
	phone	character varying (20)	Phone number of customer/staff.
	last_update	timestamp (6) without time zone	Date and time of update.

Links to:

Table	JOIN
city	ON address.city_id = city.city_id

Links from:

Table	JOIN
customer	ON address.address_id = customer.address_id
staff	ON address.address_id = staff.address_id
store	ON address.address_id = store.address_id

3.10   city

Key	Column	Data Type	Description
🔑	city_id	Serial (integer)	**Primary Key.** Unique number that identifies a city.
	city	character varying (50)	Name of the city from the address.
↗	country_id	smallint	Unique number that identifies a country from the address.
	last_update	timestamp (6) without time zone	Date and time of update.

Links to:

Table	JOIN
country	ON city.country_id = country.country_id

Links from:

Table	JOIN
address	ON city.city_id = address.city_id

3.11 country

Key	Column	Data Type	Description
🔑	country_id	Serial (integer)	**Primary Key.** Unique number that identifies a country.
	country	character varying (50)	Name of the country.
	last_update	timestamp (6) without time zone	Date and time of update.

Links to:

None

Links from:

Table	JOIN
city	ON country.country_id = city.country_id

3.12   actor

Key	Column	Data Type	Description
🔑	actor_id	serial (integer)	**Primary key.** Unique number that identifies an actor.
	first_name	character varying (45)	First name of actor.
	last_name	character varying (45)	Last name of actor.
	last_update	timestamp (6) without time zone	Date and time of update.

Links to:

   None

Links from:

Table	JOIN
film_actor	ON actor.actor_id = film_actor.actor_id

3.13 film

Key	Column	Data Type	Description
🔑	film_id	serial (integer)	**Primary key.** Unique number that identifies the film.
	title	character varying (255)	Title of film.
	description	text	Description of film.
	release_year	year	Release year of film. YYYY
↗	language_id	smallint	Unique number that identifies a language.
	rental_duration	smallint	Number of day that film can be rented for.
	rental_rate	numeric (4,2)	Price of renting the film. $$$$$.$$
	length	smallint	Length of the film in minutes.
	replace_cost	numeric (5,2)	Price to replace the film.
	rating	mpaa_rating	Rating of film according to age.
	last_update	timestamp (6) without time zone	Date and time of update.
	special_features	text	Special features the film has.
	fulltext	tsvector	Keywords that describe the film.

Links to:

Table	JOIN
language	ON film.language_id = language.language_id

Links from:

Table	JOIN
inventory	ON film.film_id = inventory.film_id
film_category	ON film.film_id = fim_category_film_id

3.14   language

Key	Column	Data Type	Description
🔑	language_id	Serial (integer)	**Primary Key.** Unique number that identifies a language.
	name	character varying (20)	Name of the language.
	last_update	timestamp (6) without time zone	Date and time of update.

Links to:

None

Links from:

Table	JOIN
film	ON language.language_id = film_language_id

3.15   category

Key	Column	Data Type	Description
🔑	category_id	Serial (integer)	**Primary key.** Unique number that identifies the genre of movie.
	name	character varying (25)	Name of the category.
	last_update	timestamp (6) without time zone	Date and time of update.

Links to:

None

Links from:

Table	JOIN
film_category	ON category.category_id = film_category.category_id