ROCKBUSTER STEALTH LLC
DATA DICTIONARY
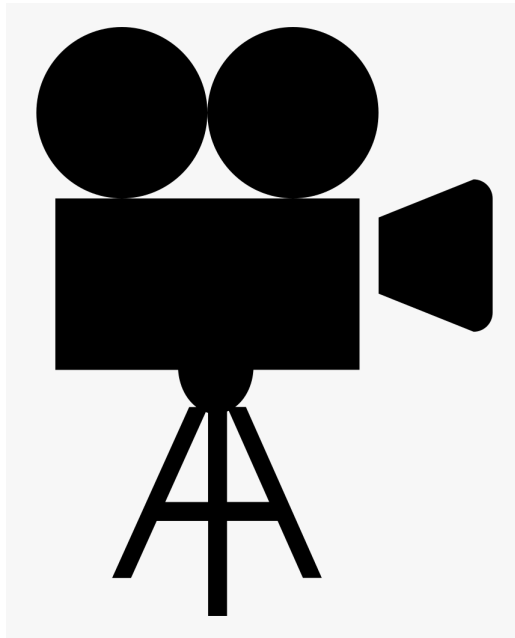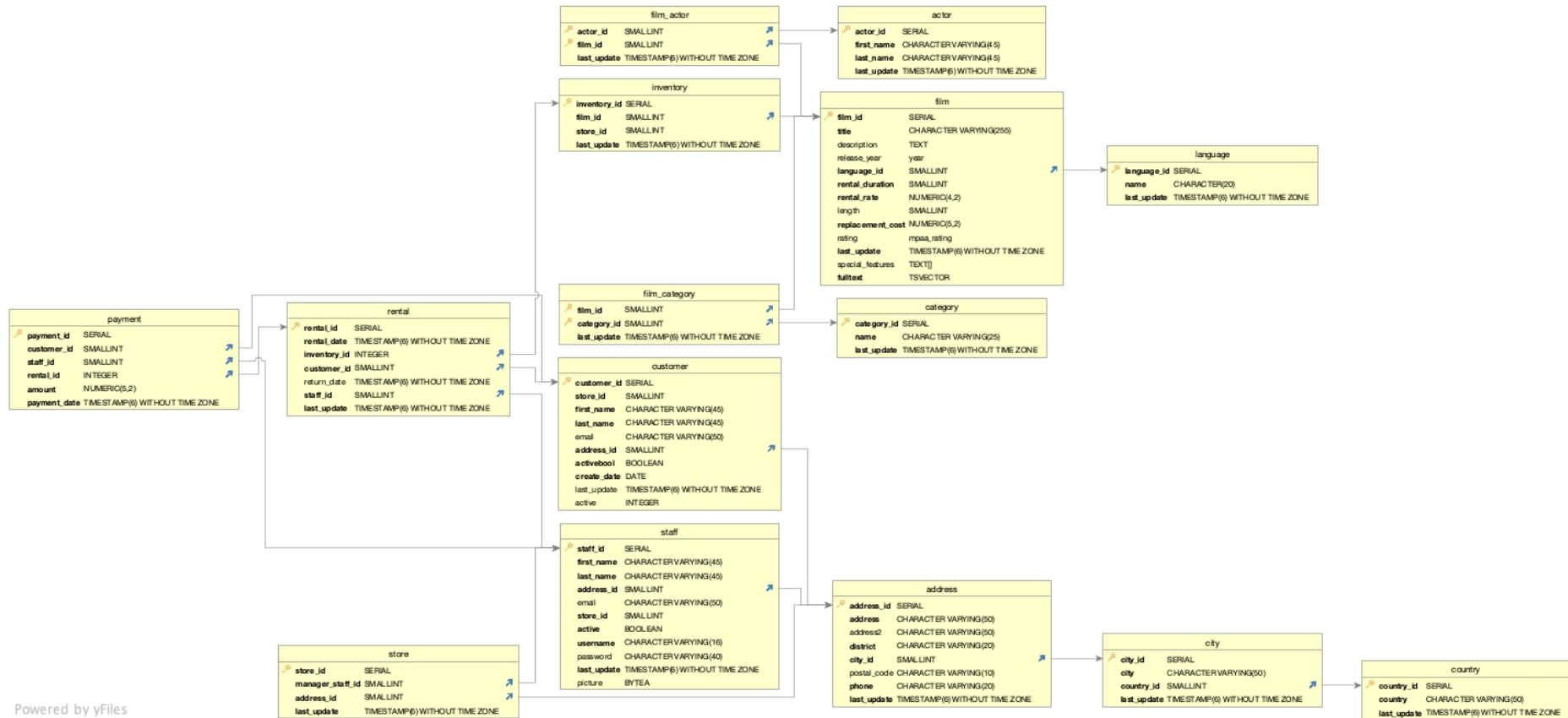
VERSION 1.0
26 January 2023

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1. ENTITY RELATIONSHIP DIAGRAM

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	

store

🔑 store_id	SERIAL	
manager_staff_id	SMALLINT	↗
address_id	SMALLINT	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	

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

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2. Tables
    a. Fact Tables
        i. rental

rental

PK	Columns	Data Type	Description	FK
🔑	rental_id	SERIAL	Unique rental ID number automatically generated for each rental. Primary Key.	
	rental_date	TIMESTAMP(6)	Rental date and time in six-digit format without timezone	
	inventory_id	INTEGER	Unique ID number for each inventory ID number. Foreign key for inventory table.	🔑
	customer_id	SMALLINT	Unique ID number assigned to each customer. Foreign key for customer table.	🔑
	return_date	TIMESTAMP(6)	Date and time of rental without timezone in six-digit format	
	staff_id	SMALLINT	Unique ID number assigned to each staff member on the rental transaction. Foreign key for staff table.	🔑
	last_update	TIMESTAMP(6)	Date and time of last update in six-digit format without timezone	
	linked relationship with inventory, customer, and staff tables.			

b. Dimension Tables
    i. payment

payment

PK	Columns	Data Type	Description	FK
🔑	payment_id	SERIAL	Unique ID number automatically generated for each transaction payment. Primary Key	
	customer_id	SMALLINT	Unique ID number assigned to each customer. Foreign key for customer table.	🔑
	staff_id	SMALLINT	Unique ID number assigned to each staff member on the rental transaction. Foreign key for staff table.	🔑
	rental_id	INTEGER	Unique rental ID number automatically generated for each rental. Foreign Key for the rental table.	🔑
	amount	NUMERIC(5,2)	Rental amount value in $USD to two decimal points (0000.00 format).	
	payment_date	TIMESTAMP(6)	date and time pf payment without timezon	
	linked relationship with rental, customer, and staff tables.			

    ii. inventory

inventory

PK	Columns	Data Type	Description	FK
🔑	inventory_id	SERIAL	Unique ID number for each inventory ID number. Primary Key. Foreign key for the rental table.	🔑
	film_id	SMALLINT	Unique ID number for each film. Foreign Key for the film table	🔑

PK	Columns	Data Type	Description	FK
	store_id	SMALLINT	Unique ID assigned to each store. Foreign Key for the store table.	🗝
	last_update	TIMESTAMP(6)	Date and time of last update in six-digit format without timezone	
	linked relationship with rental, film, and store tables.			

iii. customer

customer

PK	Columns	Data Type	Description	FK
🔑	customer_id	SERIAL	Unique ID number assigned to each customer automatically. Primary Key. Foreign key for the payment and rental tables.	🗝
	store_id	SMALLINT	Unique ID assigned to each store. Foreign Key for the store and staff tables.	🗝
	first_name	CHARACTER VARYING(45)	Customer's first name. Up to 45 characters in length.	
	last_name	CHARACTER VARYING(45)	Customer's second name. Up to 45 characters in length.	
	email	CHARACTER VARYING(50)	Customer's email address. Up to 50 characters in length.	
	address_id	SMALLINT	Unique ID assigned to each customer. Foreign Key for the address table.	🗝
	activebool	BOOLEAN	Record of whether a customer is active using True/ False.	
	create_update	DATE	Date and time a customer account is added	
	last_update	TIMESTAMP(6)	Date and time of last update in six-digit format without timezone	
	active	INTEGER	Record of whether customer is active using 0 or 1 binary integers.	
	linked relationship with rental and store tables.			

iv. film

film

PK	Columns	Data Type	Description	FK
🔑	film_id	SERIAL	Unique ID number automatically generated for each film as a Surrogate Key. Primary Key. Foreign Key for inventory, film category, and film actor tables.	🔑
	title	CHARACTER VARYING(255)	Title of film. Up to 255 characters in length.	
	description	TEXT	A description of the film using unlimited text.	
	release_year	year	The release year of film.	
	language_id	SMALLINT	An ID assigned to each language and matched to each film in that language. Foreign Key for the language table.	🔑
	rental_duration	SMALLINT	The duration of rental period recorded for each rental in days	
	rental_rate	NUMERIC(4,2)	The unit cost of renting a film in USD to two decimal places (0000.00) format.	
	length	SMALLINT	The length of film	
	replacement_cost	NUMERIC(5,2)	The cost to replace a film if lost/ damage in USD to two decimal places (0000.00).	
	rating	mpaa_rating	The rating of film following MPAA rating system	
	last_update	TIMESTAMP(6)	Date and time of last update in six-digit format without timezone	
	special_features	TEXT	A list of any special features that come with the film using unlimited text.	
	fulltext	TSVECTOR	A list of key words from the film description that could be used in a text search for the film.	

			linked relationship with inventory, film category, film actor, and language tables.		

v. film category

film category

PK	Columns	Data Type	Description	FK
🔑	film_id	SMALLINT	Unique ID number automatically generated for each film. Primary Key. Foreign Key for film, inventory, and film actor tables.	🔑
	category_id	SMALLINT	Unique ID number assigned to each film category. Foreign Key for the category table.	🔑
	last_update	TIMESTAMP(6)	Date and time of last update in six-digit format without timezone	
	linked relationship with inventory, film category, film actor, and category tables.			

vi. film actor

film actor

PK	Columns	Data Type	Description	FK
🔑	actor_id	SMALLINT	Unique ID number assigned to each actor. Primary Key. Foreign Key for actor table	🔑
🔑	film_id	SMALLINT	Unique ID number automatically generated for each film. Primary Key. Foreign Key for film, inventory, and film category tables.	🔑
	last_update	TIMESTAMP(6)	Date and time of last update in six-digit format without timezone	
	linked relationship with inventory, film, film category, and actor tables.			

vii. actor

actor

PK	Columns	Data Type	Description	FK
🔑	actor_id	SERIAL	Unique ID number automatically generated for each actor as a Surrogate Key. Primary Key. Foreign Key for film actor table	🔑
	first_name	CHARACTER VARYING(45)	The actor's first name using up to 45 characters	
	last_name	CHARACTER VARYING(45)	The actor's last name using up to 45 characters.	
	last_update	TIMESTAMP(6)	Date and time of last update in six-digit format without timezone	
	linked relationship with the film actor table.			

viii. category

category

PK	Columns	Data Type	Description	FK
🔑	category_id	SERIAL	Unique ID number automatically assigned to each film category as a Surrogate Key. Primary Key. Foreign Key for film category table.	🔑
	name	CHARACTER VARYING(25)	The name of the film category using up to 25 characters.	
	last_update	TIMESTAMP(6)	Date and time of last update in six-digit format without timezone	
	linked relationship with film category table.			

ix. language

language

PK	Columns	Data Type	Description	FK
🔑	language_id	SERIAL	An ID assigned to each language and matched to each film in that language. Primary Key. Foreign Key for the film table.	🔑
	name	CHARACTER VARYING(20)	The name of each language using up to 20 characters.	
	last_update	TIMESTAMP(6)	Date and time of last update in six-digit format without timezone	
	linked relationship with the film table.			

x. Staff

staff

PK	Columns	Data Type	Description	FK
🔑	staff_id	SERIAL	Unique ID number automatically assigned to each staff member on the rental transaction as a Surrogate Key. Primary Key. Foreign Key for rental and payment tables.	🔑
	first_name	CHARACTER VARYING(45)	Staff member's first name. Up to 45 characters in length.	
	last_name	CHARACTER VARYING(45)	Staff member's last name. Up to 45 characters in length.	
	address_id	SMALLINT	Unique ID assigned to each staff member's address. Foreign Key for the address table.	🔑
	email	CHARACTER VARYING(50)	Staff member's email address. Up to 50 characters in length.	
	store_id	SMALLINT	Unique ID assigned to each store. Foreign Key for the store and customer table.	🔑

			Record of whether the staff member is still currently a member of staff using True/ False.	
	active	BOOLEAN		
	username	CHARACTER VARYING(45)	Staff member's username in the company system. Up to 45 characters in length.	
	password	CHARACTER VARYING(45)	Staff member's password in company system. Up to 45 characters in length.	
	last_update	TIMESTAMP(6)	Date and time of last update in six-digit format without timezone	
	picture	BYTEA	Picture of staff member	
	linked relationship with rental, payment, customer and store tables.			

xi. store

store

PK	Columns	Data Type	Description	FK
🔑	store_id	SERIAL	Unique ID autmatically assigned to each store. Primary Key. Foreign Key for the inventory and staff tables.	🔑
	manager_staff_id	SMALLINT	A unique ID number assigned to each store manager.	
	address_id	SMALLINT	A unique ID assigned to each store address. Foreign Key for the address table.	🔑
	last_update	TIMESTAMP(6)	Date and time of last update in six-digit format without timezone	
	linked relationship with the address, inventory, and staff tables.			

xii. address

address

PK	Columns	Data Type	Description	FK
🔑	address_id	SERIAL	Unique ID automatically assigned to each customer as a Surrogate Key. Primary Key. Foreign Key for customer, store, and staff tables	🔑
	address	CHARACTER VARYING(50)	Line 1 of the store's street address using up to 50 characters	
	address2	CHARACTER VARYING(50)	2nd line of the store's street address using up to 50 characters	
	disctrict	CHARACTER VARYING(20)	District of the city the store is located in using up to 20 characters.	
	city_id	SMALLINT	Unique ID number assigned to each city where a store is located. Foreign Key for city table.	🔑
	postal_code	CHARACTER VARYING(10)	Postal code for each store's address using up to 10 characters	
	phone	CHARACTER VARYING(20)	Phone number listing for the store up to 20 characters	
	last_update	TIMESTAMP(6)	Date and time of last update in six-digit format without timezone	
	linked relationship with the customer, store, staff, and city tables.			

xiii. city

city

PK	Columns	Data Type	Description	FK
🔑	city_id	SERIAL	Unique ID number automatically generated for each city where a store is located. Primary Key. Foreign Key for address table.	🗝
	city	CHARACTER VARYING(50)	The name of the city the store is located in. Up to 50 characters can be used.	
	country_id	SMALLINT	Unique ID number generated for each country where a store is located. Foreign Key for the country table.	🗝
	last_update	TIMESTAMP(6)	Date and time of last update in six-digit format without timezone	
	linked relationship with the address and country table.			

xiv. country

country

PK	Columns	Data Type	Description	FK
🔑	country_id	SERIAL	Unique ID number automatically generated for each country where a store is located. Primary Key. Foreign Key for the city table.	🗝
	country	CHARACTER VARYING(50)	The name of the county the store is located in. Up to 50 characters can be used.	
	last_update	TIMESTAMP(6)	Date and time of last update in six-digit format without timezone	
	linked relationship with the city table.			