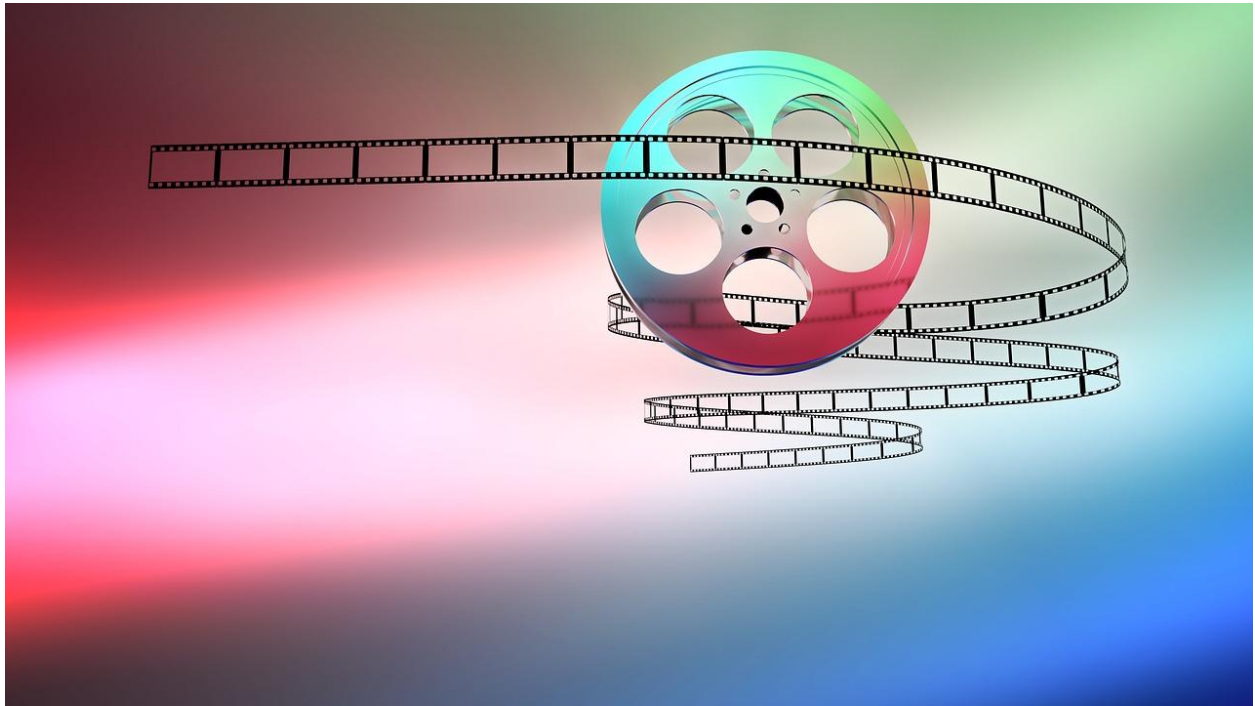# Rockbuster Stealth LLC
Data Dictionary

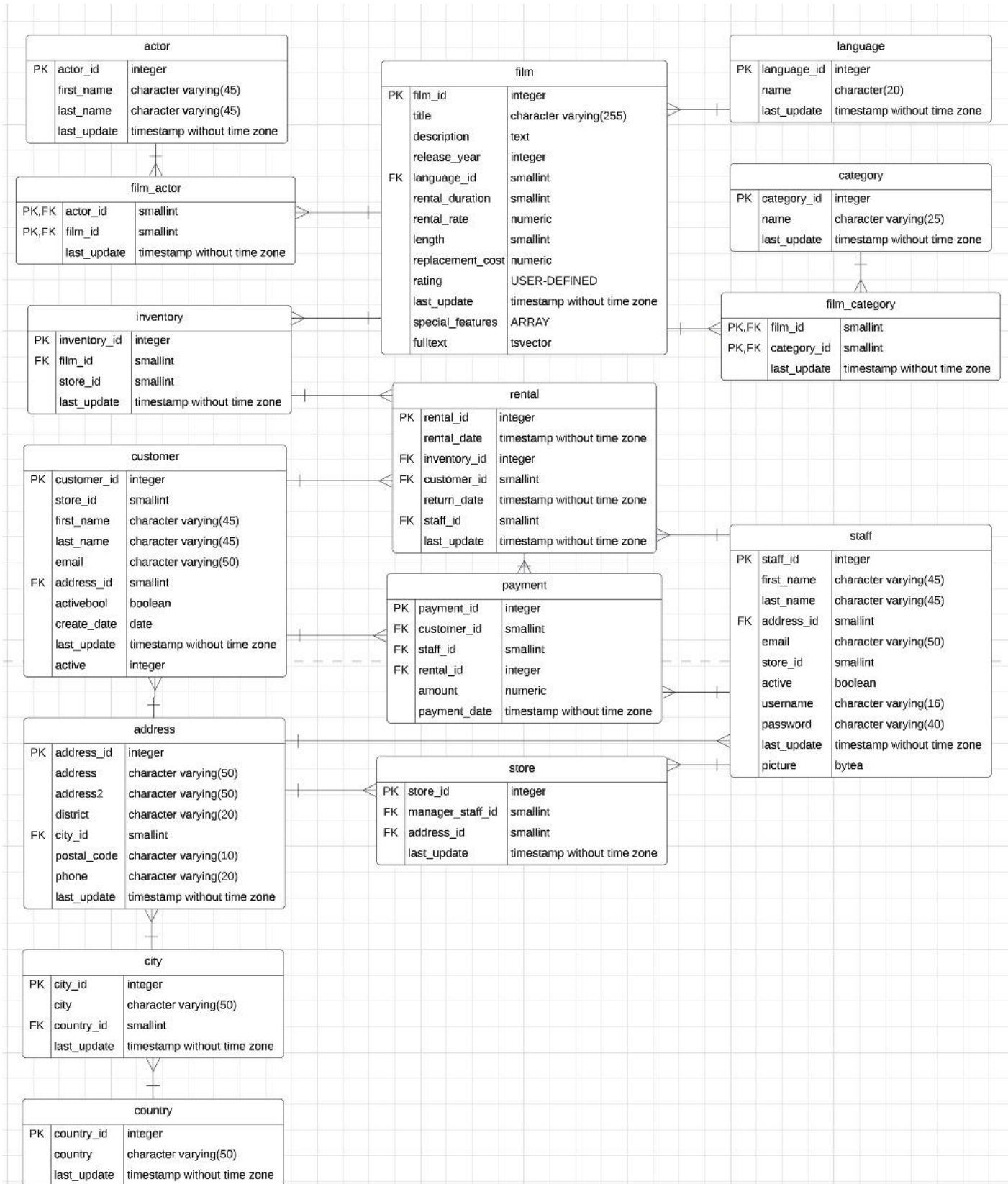**Jurgita Aciene**
04/06/2023

Table of Contents

1. Entity Relationship Diagram (ERD)

actor

PK	actor_id	integer
	first_name	character varying(45)
	last_name	character varying(45)
	last_update	timestamp without time zone

film_actor

PK,FK	actor_id	smallint
PK,FK	film_id	smallint
	last_update	timestamp without time zone

inventory

PK	inventory_id	integer
FK	film_id	smallint
	store_id	smallint
	last_update	timestamp without time zone

customer

PK	customer_id	integer
	store_id	smallint
	first_name	character varying(45)
	last_name	character varying(45)
	email	character varying(50)
FK	address_id	smallint
	activebool	boolean
	create_date	date
	last_update	timestamp without time zone
	active	integer

address

PK	address_id	integer
	address	character varying(50)
	address2	character varying(50)
	district	character varying(20)
FK	city_id	smallint
	postal_code	character varying(10)
	phone	character varying(20)
	last_update	timestamp without time zone

city

PK	city_id	integer
	city	character varying(50)
FK	country_id	smallint
	last_update	timestamp without time zone

country

PK	country_id	integer
	country	character varying(50)
	last_update	timestamp without time zone

film

PK	film_id	integer
	title	character varying(255)
	description	text
	release_year	integer
FK	language_id	smallint
	rental_duration	smallint
	rental_rate	numeric
	length	smallint
	replacement_cost	numeric
	rating	USER-DEFINED
	last_update	timestamp without time zone
	special_features	ARRAY
	fulltext	tsvector

rental

PK	rental_id	integer
	rental_date	timestamp without time zone
FK	inventory_id	integer
FK	customer_id	smallint
	return_date	timestamp without time zone
FK	staff_id	smallint
	last_update	timestamp without time zone

payment

PK	payment_id	integer
FK	customer_id	smallint
FK	staff_id	smallint
FK	rental_id	integer
	amount	numeric
	payment_date	timestamp without time zone

store

PK	store_id	integer
FK	manager_staff_id	smallint
FK	address_id	smallint
	last_update	timestamp without time zone

language

PK	language_id	integer
	name	character(20)
	last_update	timestamp without time zone

category

PK	category_id	integer
	name	character varying(25)
	last_update	timestamp without time zone

film_category

PK,FK	film_id	smallint
PK,FK	category_id	smallint
	last_update	timestamp without time zone

staff

PK	staff_id	integer
	first_name	character varying(45)
	last_name	character varying(45)
FK	address_id	smallint
	email	character varying(50)
	store_id	smallint
	active	boolean
	username	character varying(16)
	password	character varying(40)
	last_update	timestamp without time zone
	picture	bytea

2.   Tables

red = primary key
bold = foreign key
red & bold = primary/foreign key

2.1.   Fact Tables

2.1.1.   Payment

Columns

Name	Data type	Description
payment_id	integer	Primary key for payment table
customer_id	smallint	Primary key for customer table
staff_id	smallint	Primary key for staff table
rental_id	integer	Primary key for rental table
amount	numeric	Payment amount
last _update	timestamp without time zone	Timestamp of the last update

Links to

Table	Join
staff	payment.staff_id = staff.staff_id
customer	payment.customer_id = customer.customer_id
rental	payment.rental_id = rental.rental_id

2.1.2.   Rental

Columns

Name	Data type	Description
rental_id	integer	Primary key for rental table
rental_date	timestamp without time zone	Date and time of the rental
inventory_id	integer	Primary key for inventory table
customer_id	smallint	Primary key for customer table
return_date	timestamp without time zone	Date and time of rental return
staff_id	smallint	Primary key for staff table
last _update	timestamp without time zone	Timestamp of the last update

Links to

Table	Join
inventory	rental.inventory_id = inventory.inventory_id
customer	rental.customer_id = customer.customer_id
staff	rental.staff_id = staff.staff_id

Linked from

Table	Join
payment	rental.rental_id = payment.rental_id

2.2. Dimension Tables

2.2.1. Inventory

Columns

Name	Data type	Description
inventory_id	integer	Primary key for inventory table
film_id	smallint	Primary key for film_actor, film_category and film tables
store_id	smallint	Primary key for store table
last _update	timestamp without time zone	Timestamp of the last update

Links to

Table	Join
film	inventory.film_id = film.film_id

Linked from

Table	Join
rental	inventory.inventory_id = rental.inventory_id

2.2.2. Film

Columns

Name	Data type	Description
film_id	integer	Primary key for film_actor, film_category and film tables
title	character varying(255)	Movie title
description	text	Movie description
release_year	integer	Release year of the movie
language_id	smallint	Primary key for language table
rental_duration	smallint	Rental duration in days
rental_rate	numeric	Rental cost
length	smallint	Length of the movie in minutes
replacement_cost	numeric	Replacement cost in $
rating	USER_DEFINED	Rating (R, PG-13, etc)
last _update	timestamp without time zone	Timestamp of the last update
special_features	ARRAY	Special features (trailers, deleted/behind scenes, etc)
fulltext	tsvector	Full text index

Links to

Table	Join
language	film.language_id = language.language_id

Linked from

Table	Join
film_actor	film.film_id = film_actor.film_id
inventory	film.film_id = inventory.film_id
film_category	film.film_id = film_category.film_id

2.2.3.　Film Actor

Columns

Name	Data type	Description
actor_id	smallint	Primary key for film_actor and actor tables
film_id	smallint	Primary key for film_actor, film_category and film tables
last _update	timestamp without time zone	Timestamp of the last update

Links to

Table	Join
actor	film_actor.actor_id = actor.actor_id
film	film_actor.film_id = film.film_id

2.2.4.　Actor

Columns

Name	Data type	Description
actor_id	integer	Primary key for actor
first_name	character varying(45)	First name of the actor
last_name	character varying(45)	Last name of the actor
last _update	timestamp without time zone	Timestamp of the last update

Linked from

Table	Join
film_actor	actor.actor_id = film_actor.actor_id

2.2.5.   Film category

Columns

Name	Data type	Description
film_id	smallint	Primary key for film_actor, film_category and film tables
category_id	smallint	Primary key for category and film_category tables
last _update	timestamp without time zone	Timestamp of the last update

Links to

Table	Join
category	film_category.category_id = category.category_id
film	film_category.category_id = film.category_id

2.2.6.   Category

Columns

Name	Data type	Description
category_id	integer	Primary key for category table
name	character varying(25)	Movie genre
last _update	timestamp without time zone	Timestamp of the last update

Linked from

Table	Join
film_category	category.category_id = film_category.category_id

2.2.7.   Language

Columns

Name	Data type	Description
language_id	integer	Primary key for language table
name	character varying(20)	Language
last _update	timestamp without time zone	Timestamp of the last update

Linked from

Table	Join
film	language.language_id = film.language_id

2.2.8.   Customer

Columns

Name	Data type	Description
customer_id	integer	Primary key for customer table
store_id	smallint	Primary key for store table
first_name	character varying(45)	First name of the customer
last_name	character varying(45)	Last name of the customer
email	character varying(50)	Customer email
address_id	smallint	Primary key for address table
activebool	boolean	Confirms if status is active
create_date	date	Date customer entry created
last _update	timestamp without time zone	Timestamp of the last update
active	integer	Confirms status?

Links to

Table	Join
address	customer.address_id = address.address_id

Linked from

Table	Join
rental	customer.customer_id = rental.customer_id
payment	customer.customer_id = payment.customer_id

2.2.9.   Staff

Columns

Name	Data type	Description
staff_id	integer	Primary key for staff table
first_name	character varying(45)	First name of staff member
last_name	character varying(45)	Last name of staff member
address_id	smallint	Primary key for address table
email	character varying(50)	Staff member email
store_id	smallint	Primary key for store table
active	boolean	Confirms if status is active
username	character varying(16)	Staff member username
password	character varying(40)	Staff member password
last _update	timestamp without time zone	Timestamp of the last update
picture	bytea	Staff member picture

Links to

Table	Join
address	staff.address_id = address.address_id

Linked from

Table	Join
rental	staff.staff_id = rental.staff_id
payment	staff.staff_id = payment.staff_id
store	staff.address_id = store.address_id

2.2.10. Store

Columns

Name	Data type	Description
store-id	integer	Primary key for store table
manager_staff_id	smallint	Manager or staff position
adress_id	smallint	Primary key for address table
last _update	timestamp without time zone	Timestamp of the last update

Links to

Table	Join
staff	store.address_id = staff.address_id
address	store.address_id = address.address_id

2.2.11. Address

Columns

Name	Data type	Description
address_id	integer	Primary key for address table
address	character varying(50)	Customer address
address2	character varying(50)	Customer address
district	character varying(20)	Customer district
city_id	smallint	Primary key for city table
postal_code	character varying(10)	Customer postal code
phone	character varying(20)	Customer phone number
last _update	timestamp without time zone	Timestamp of the last update

Links to

Table	Join
city	address.city_id = city.city_id

Linked from

Table	Join
customer	address.address_id = customer.address_id
store	address.address_id = store.address_id
staff	adrdess.address_id = staff.address_id

2.2.12.   City

Columns

Name	Data type	Description
city_id	integer	Primary key for city table
city	character varying(50)	Customer city
country_id	smallint	Primary key for country table
last _update	timestamp without time zone	Timestamp of the last update

Links to

Table	Join
country	city.country_id = country.country_id

Linked from

Table	Join
address	city.city_id = address.city_id

2.2.13.   Country

Columns

Name	Data type	Description
country_id	integer	Primary key for country table
country	character varying(50)	Customer country
last _update	timestamp without time zone	Timestamp of the last update

Linked from

Table	Join
city	country.country_id = city.country_id