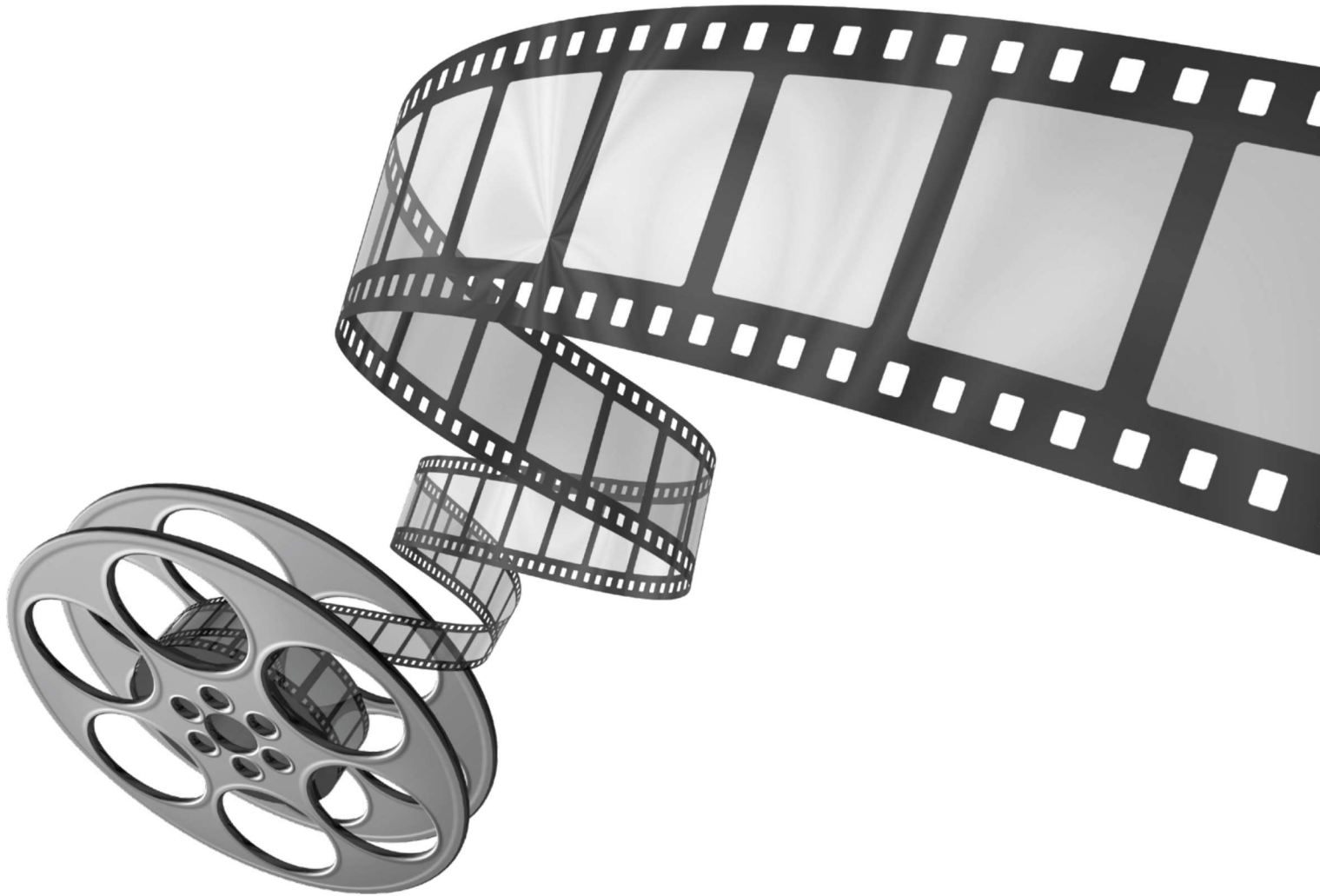


# ROCKBUSTER STEALTH LCC

## DATA DICTIONARY

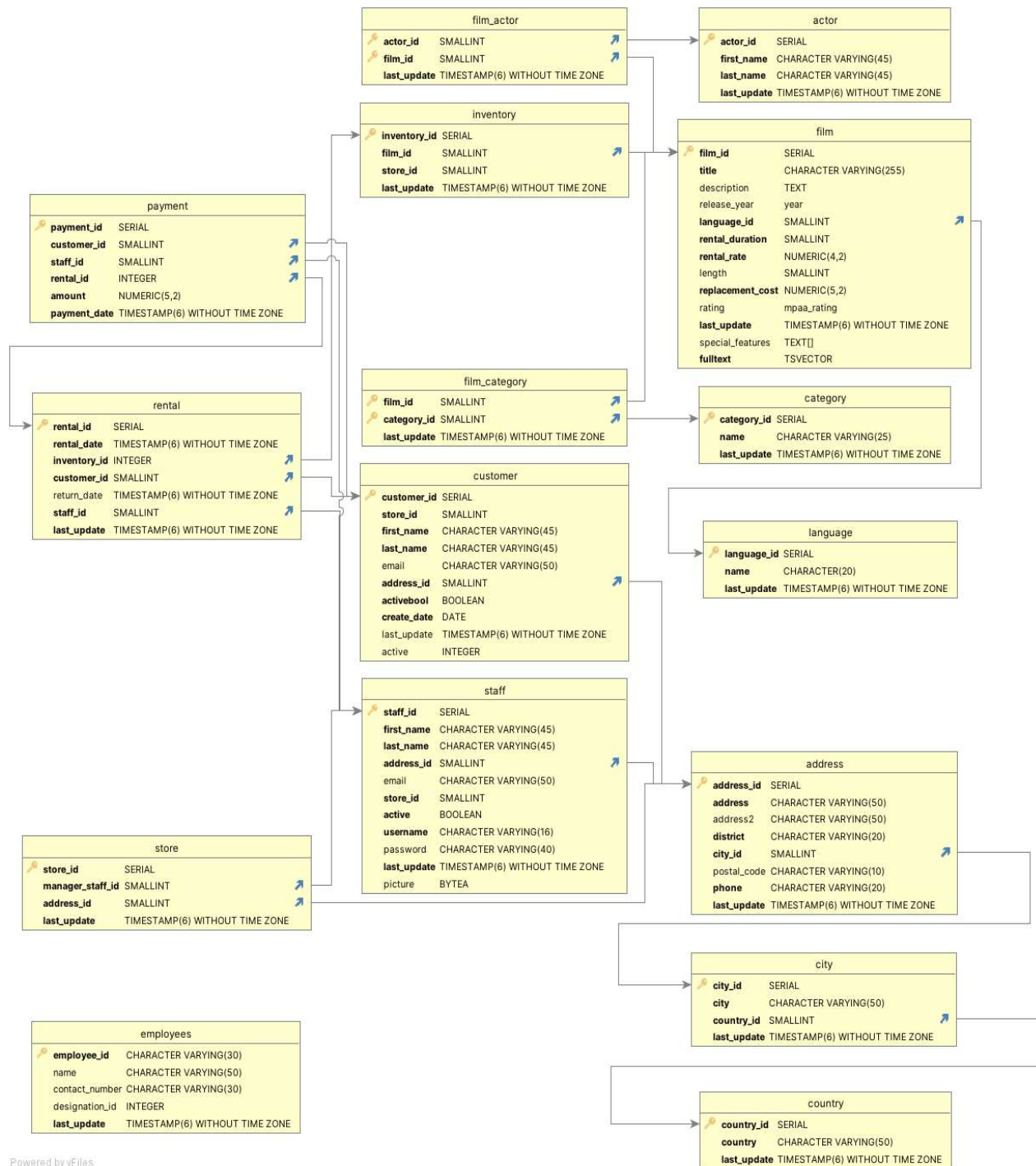


Date: 23-Aug-2023  
Created by: Apinya Boonlaksakul

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## Entity Relationship Diagram (ERD)



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## Legend

Primary key

Foreign key

## 1. Fact table





### 1.1 Table: Payment

Columns	Data type	Description
payment_id 	SERIAL	Unique payment identifier
customer_id 	SMALLINT	Unique customer identifier
staff_id 	SMALLINT	Unique staff identifier
rental_id 	INTEGER	Unique rental identifier
amount	NUMERIC(5,2)	Payment amount
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time record of payment

#### Links to

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

### 1.2 Table: Rental

Columns	Data type	Description
rental_id 	SERIAL	Unique rental identifier
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time record of rental
inventory_id 	INTEGER	Unique inventory identifier
customer_id 	SMALLINT	Unique customer identifier
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time record of return
staff_id 	SMALLINT	Unique staff identifier
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated

### Links to

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

### Links from

Table	Join
payment	payment.inventory_id = rental.rental_id

## 2. Dimension table

### 2.1 Table: Inventory

Columns	Data type	Description
inventory_id 🔑	SERIAL	Unique inventory identifier
film_id 🔗	SMALLINT	Unique film identifier
store_id	SMALLINT	Unique store identifier
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated

### Links to

Table	Join
film	inventory.film_id = film.film_id

### Links from

Table	Join
rental	rental.inventory_id = inventory.inventory_id

## 2.2 Table: Film

Columns	Data type	Description
film_id 🔑	SERIAL	Unique film identifier
title	CHARACTER VARYING(255)	Unique title identifier
description	TEXT	Description
release_year	year	Film release year
language_id ➡	SMALLINT	Unique language identifier
rental_duration	SMALLINT	Rental duration
rental_rate	NUMERIC(4,2)	Rental rate
length	SMALLINT	Length of film
replacement_cost	NUMERIC(5,2)	Replacement cost
rating	mpaa_rating	Rating of film
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated
special_features	TEXT[]	Special features of film
fulltext	TSVECTOR	Keywords of film, use for searching


### Links to

Table	Join
language	film.language_id = language.language_id

### Links form

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





### 2.3 Table: Language

Columns	Data type	Description
language_id 	SERIAL	Unique language identifier
name	CHARACTER(20)	language
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated

#### Links from

Table	Join
film	film.language_id = language.language_id


### 2.4 Table: Film\_actor

Columns	Data type	Description
actor_id  	SMALLINT	Unique actor identifier
film_id  	SMALLINT	Unique film identifier
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated

#### Links to

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

### 2.5 Table: Actor

Columns	Data type	Description
actor_id 	SERIAL	Unique actor identifier
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 the record was last updated

#### Links to

Table	Join
film_actor	film_actor.actor_id = actor.actor_id

## 2.6 Table: Film\_category

Columns	Data type	Description
film_id 🔑 ➡	SMALLINT	Unique film identifier
category_id 🔑 ➡	SMALLINT	Unique category identifier
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated

### Links to

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

## 2.7 Table: Category

Columns	Data type	Description
category_id 🔑	SERIAL	Unique category identifier
name	CHARACTER VARYING(25)	Category name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated

### Links from

Table	Join
film_category	film_category.category_id = category.category_id

## 2.8 Table: Customer

Columns	Data type	Description
customer_id 🔑	SERIAL	Unique customer identifier
store_id	SMALLINT	Unique store identifier
first_name	CHARACTER VARYING(45)	First name of customer
last_name	CHARACTER VARYING(45)	Last name of customer
email	CHARACTER VARYING(50)	Email address of customer
address_id ➡	SMALLINT	Unique address identifier
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated



Columns	Data type	Description
active	INTEGER	Active status represented by 0 or 1



#### Links to

Table	Join
address	customer.address_id = address.address_id

#### Links from

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

### 2.9 Table: Staff

Columns	Data type	Description
staff_id 	SERIAL	Unique staff identifier
first_name	CHARACTER VARYING(45)	First name of staff
last_name	CHARACTER VARYING(45)	Last name of staff
address_id 	SMALLINT	Unique address identifier
email	CHARACTER VARYING(50)	Email address of staff
store_id	SMALLINT	Unique store identifier
active	BOOLEAN	Active status; true or false
username	CHARACTER VARYING(16)	username
password	CHARACTER VARYING(40)	password
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated
picture	BYTEA	Staff's picture

#### Links to

Table	Join
address	staff.address_id = address.address_id

### 2.10 Table: Store

Columns	Data type	Description
store_id 🔑	SERIAL	Unique store identifier
manager_staff_id ➡	SMALLINT	Unique manager of staff identifier
address_id ➡	SMALLINT	Unique address identifier
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated

#### Links to

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

### 2.11 Table: Address

Columns	Data type	Description
address_id 🔑	SERIAL	Unique address identifier
address	CHARACTER VARYING(50)	Address
address2	CHARACTER VARYING(50)	Address (continue)
district	CHARACTER VARYING(20)	District of address
city_id ➡	SMALLINT	City name
postal_code	CHARACTER VARYING(10)	Postal code
phone	CHARACTER VARYING(20)	Phone number
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated

#### Links to



Table	Join
city	address.city_id = city.city_id

#### Links from

Table	Join
customer	customer.address_id = address.address_id

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

## 2.12 Table: City

Columns	Data type	Description
city_id 	SERIAL	Unique city identifier
city	CHARACTER VARYING(50)	City name
country_id 	SMALLINT	Country name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated


### Links to

Table	Join
country	city.country_id = country.country_id

### Links from

Table	Join
address	address.city_id = city.city_id


## 2.13 Table: Country

Columns	Data type	Description
country_id 	SERIAL	Unique country identifier
country	CHARACTER VARYING(50)	Country name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated

### Links from

Table	Join
city	city.country_id = country.country_id

**2.14 Table: Employee**

Columns	Data type	Description
country_id 	SERIAL	Unique country identifier
country	CHARACTER VARYING(50)	Country name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated