

# **Rockbuster Stealth LLC**

## **Data Dictionary**

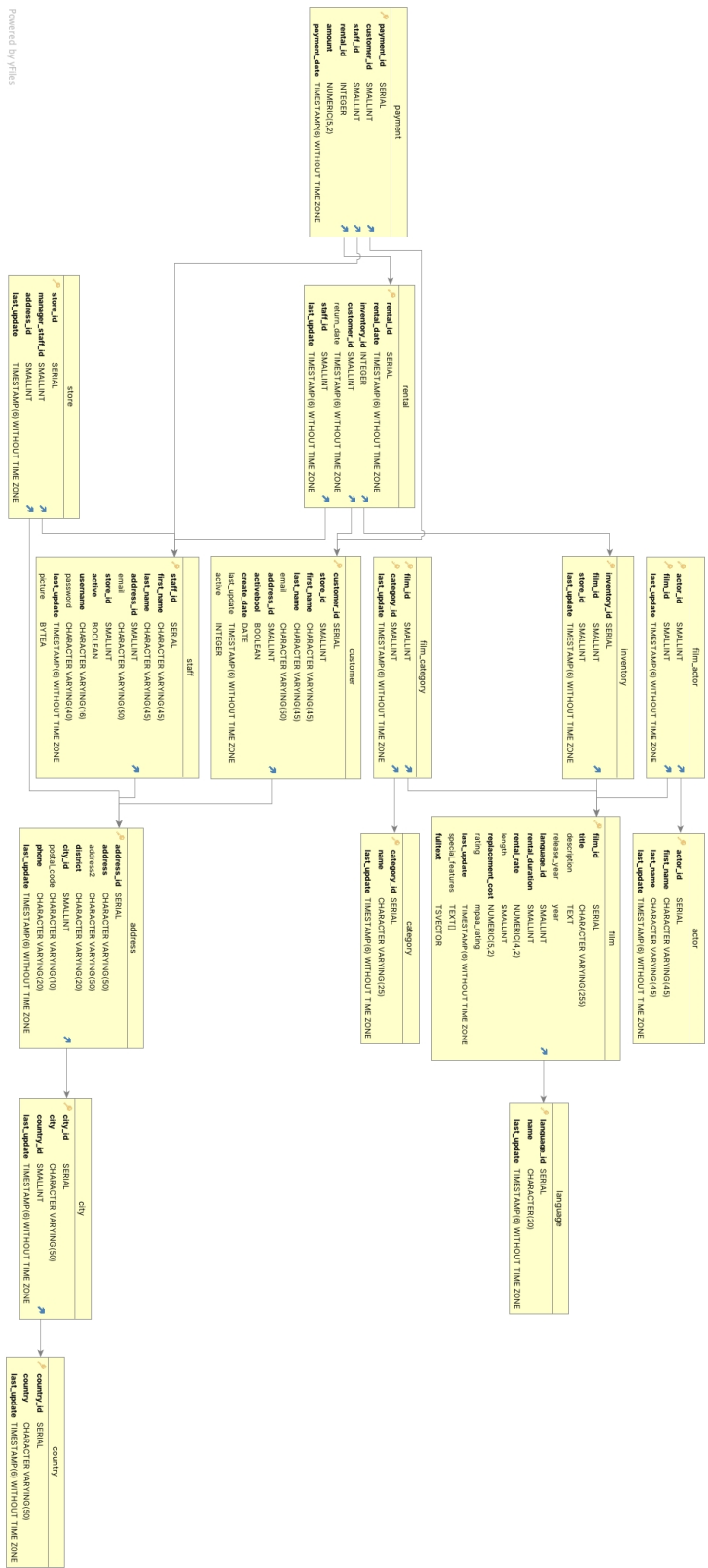
**6.25.2024**

**Sydney Johnson**

# Table of Contents

1.0 ERD	3
2.0 Tables	4
2.1 Fact Tables:	4
2.1.1 <i>Payment</i>	4
2.1.2 <i>Rental</i>	5
2.2 Dimension Tables:	6
2.2.1 <i>Store</i>	6
2.2.2 <i>Film Actor</i>	7
2.2.3 <i>Inventory</i>	7
2.2.4 <i>Film Category</i>	8
2.2.5 <i>Customer</i>	9
2.2.6 <i>Staff</i>	10
2.2.7 <i>Actor</i>	11
2.2.8 <i>Film</i>	12
2.2.9 <i>Category</i>	13
2.2.10 <i>Address</i>	14
2.2.11 <i>Language</i>	15
2.2.12 <i>City</i>	15
2.2.13 <i>Country</i>	16

# 1.0 ERD



Powered by PMB

# 2.0 Tables

## 2.1 Fact Tables:

### 2.1.1 Payment

Columns	Data Type	Description
payment_id	SERIAL	Unique ID generated for transaction (Primary Key)
customer_id	SMALLINT	ID unique to customer (Foreign Key)
staff_id	SMALLINT	ID unique to staff member (Foreign Key)
rental_id	INTEGER	ID unique to each rental transaction (Foreign Key)
amount	NUMERIC(5,2)	Transaction amount in dollars (XXXXX.XX)
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of transaction

### Links to

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

### Unique Keys

Columns	Key
payment_id	Primary
customer_id	Foreign
staff_id	Foreign

Columns	Key
rental_id	Foreign

## 2.1.2 Rental

Columns	Data Type	Description
rental_id	SERIAL	Unique ID generated for each movie in a transaction (primary key)
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date movie was rented
inventory_id	INTEGER	ID unique to each movie in the store (Foreign Key)
customer_id	SMALLINT	ID unique to customer (Foreign Key)
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date movie was returned
staff_id	SMALLINT	ID unique to staff member (Foreign Key)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of most recent update to this data

### Links to

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

### Linked from

Tables	Join
payment	payment.rental_id = rental.rental_id

## Unique Keys

Columns	Key
rental_id	Primary
inventory_id	Foreign
staff_id	Foreign
customer_id	Foreign

## 2.2 Dimension Tables:

### 2.2.1 Store

Columns	Data Type	Description
store_id	SERIAL	Unique ID generated for each Rockbuster store (Primary Key)
manager_staff_id	SMALLINT	ID unique to manager of the store (Foreign Key)
address_id	SMALLINT	ID unique to address of the store (Foreign Key)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of most recent update to this data

## Links to

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

## Unique Keys

Columns	Key
store_id	Primary
manager_staff_id	Foreign

Columns	Key
address_id	Foreign

## 2.2.2 Film Actor

Columns	Data Type	Description
actor_id	SMALLINT	ID unique to each actor (Composite Key) (Foreign Key)
film_id	SMALLINT	ID unique to each film (Composite Key) (Foreign Key)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of most recent update to this data

### Links to

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

### Unique Keys

Columns	Key
actor_id	Composite / Foreign
film_id	Composite / Foreign

## 2.2.3 Inventory

Columns	Data Type	Description
inventory_id	SERIAL	Unique ID generated for each movie in store (Primary Key)
film_id	SMALLINT	ID unique to each film (Foreign Key)
store_id	SMALLINT	ID unique to each Rockbuster store

Columns	Data Type	Description
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of most recent update to this data

## Links to

Tables	Join
film	inventory.film_id = film.film_id

## Linked from

Tables	Join
rental	Rental.inventory_id = inventory.inventory_id

## Unique Keys

Columns	Key
inventory_id	Primary
film_id	Foreign

## 2.2.4 Film Category

Columns	Data Type	Description
film_id	SMALLINT	ID unique to each film (Composite Key) (Foreign Key)
category_id	SMALLINT	ID unique to each film genre (Composite Key) (Foreign Key)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of most recent update to this data

## Links to

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



## Unique Keys

Columns	Key
film_id	Composite / Foreign
category_id	Composite / Foreign

## 2.2.5 Customer

Columns	Data Type	Description
customer_id	SERIAL	Unique ID generated for each customer (Primary Key)
store_id	SMALLINT	ID unique to each Rockbuster store that the customer patronizes
first_name	CHARACTER VARYING(45)	First name of customer (max 45 characters)
last_name	CHARACTER VARYING(45)	Last name of customer (max 45 characters)
email	CHARACTER VARYING(50)	Email of customer (max 50 characters)
address_id	SMALLINT	ID unique to address of the customer (Foreign Key)
activebool	BOOLEAN	Whether or not the customer is active (true or false)
create_date	DATE	Date when the customer's account was created
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of most recent update to this data
active	INTEGER	Whether or not a customer is currently active (1 is yes, 0 is no)

## Links to

Tables	Join
address	customer.address_id = address.address_id

## Linked from

Tables	Join
payment	payment.customer_id = customer.customer_id
Rental	rental.customer_id = customer.customer_id

## Unique Keys

Columns	Key
customer_id	Primary
address_id	Foreign

## 2.2.6 Staff

Columns	Data Type	Description
staff_id	SERIAL	Unique ID generated for each Rockbuster employee (Primary Key)
first_name	CHARACTER VARYING(45)	First name of employee (max 45 characters)
last_name	CHARACTER VARYING(45)	Last name of employee (max 45 characters)
address_id	SMALLINT	ID unique to address of the employee (Foreign Key)
email	CHARACTER VARYING(50)	Email of employee (max 50 characters)
store_id	SMALLINT	ID unique to the Rockbuster store where the employee works
active	BOOLEAN	Whether or not the employee is actively working (true or false)
username	CHARACTER VARYING(16)	Employee's system username (max 16 characters)
password	CHARACTER VARYING(40)	Employee's system password (max 40 characters)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of most recent update to this data
picture	BYTEA	File link to employee's photo

## Links to

Tables	Join
address	staff.address_id = address.address_id

## Linked from

Tables	Join
rental	rental.staff_id = staff.staff_id
payment	payment.staff_id = staff.staff_id
store	store.manager_staff_id = staff.staff_id

## Unique Keys

Columns	Key
staff_id	Primary
address_id	Foreign

## 2.2.7 Actor

Columns	Data Type	Description
actor_id	SERIAL	Unique ID generated for each actor (Primary Key)
first_name	CHARACTER VARYING(45)	First name of actor (max 45 characters)
last_name	CHARACTER VARYING(45)	Last name of actor (max 45 characters)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of most recent update to this data

## Linked from

Tables	Join
film_actor	film_actor.actor_id = actor.actor_id

## Unique Keys

Columns	Key
actor_id	Primary

## 2.2.8 Film

Columns	Data Type	Description
film_id	SERIAL	Unique ID generated for each film (Primary Key)
title	CHARACTER VARYING(255)	Title of film (max 255 characters)
description	TEXT	Description of film
release_year	year	Year film was released
language_id	SMALLINT	ID unique to language of film (Foreign Key)
rental_duration	SMALLINT	Average number of days rented
rental_rate	NUMERIC(4,2)	Price of rental
length	SMALLINT	Length of film (in minutes)
replacement_cost	NUMERIC(5,2)	Cost of replacing the film in dollars (XXXXXX.XX)
rating	mpaa_rating	Film rating
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of most recent update to this data
special_features	TEXT[]	Special featured available on DVD
fulltext	TSVECTOR	Search tool for text data within the film descriptions.

## Links to

Tables	Join
language	film.language_id = language.language_id

## Linked from

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

## Unique Keys

Columns	Key
film_id	Primary
language_id	Foreign

## 2.2.9 Category

Columns	Data Type	Description
category_id	SERIAL	Unique ID generated for each category (Primary Key)
name	CHARACTER VARYING(25)	Name of category (max 25 characters)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of most recent update to this data

## Linked from

Tables	Join
film_category	film_category.category_id = category.category_id

## Unique Keys

Columns	Key
category_id	Primary

## 2.2.10 Address

Columns	Data Type	Description
address_id	SERIAL	Unique ID generated for each address (Primary Key)
address	CHARACTER VARYING(50)	Address (max 50 characters)
Address2	CHARACTER VARYING(50)	Address, second line (max 50 characters)
district	CHARACTER VARYING(20)	State/province? (Max 50 characters)
city_id	SMALLINT	ID unique to each city (Foreign Key)
postal_code	CHARACTER VARYING(10)	Postal code (max 10 characters)
phone	CHARACTER VARYING(20)	Phone number at this address (max 20 characters)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of most recent update to this data

### Links to

Tables	Join
city	address.city_id = city.city_id

### Linked from

Tables	Join
customer	customer.address_id = address.address_id
staff	staff.address_id = address.address_id
store	store.address_id = address.address_id

### Unique Keys

Columns	Key
address_id	Primary
city_id	Foreign

## 2.2.11 Language

Columns	Data Type	Description
language_id	SERIAL	Unique ID generated for each language (Primary Key)
name	CHARACTER(20)	Name of language (max 20 characters)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of most recent update to this data

### Linked from

Tables	Join
film	Film.language_id = language.language_id

### Unique Keys

Columns	Key
language_id	Primary

## 2.2.12 City

Columns	Data Type	Description
city_id	SERIAL	Unique ID generated for each city (Primary Key)
city	CHARACTER VARYING(50)	Name of city
country_id	SMALLINT	ID unique to each country (Foreign Key)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of most recent update to this data

### Links to

Tables	Join
country	city.country_id = country.country_id

## Linked from

Tables	Join
address	address.city_id = city.city_id

## Unique Keys

Columns	Key
city_id	Primary
country_id	Foreign

## 2.2.13 Country

Columns	Data Type	Description
country_id	SERIAL	Unique ID generated for each country (Primary Key)
country	CHARACTER VARYING(50)	Name of country
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of most recent update to this data

## Linked from

Tables	Join
city	city.country_id = country.country_id

## Unique Keys

Columns	Key
country_id	Primary