Rockbuster Data Dictionary
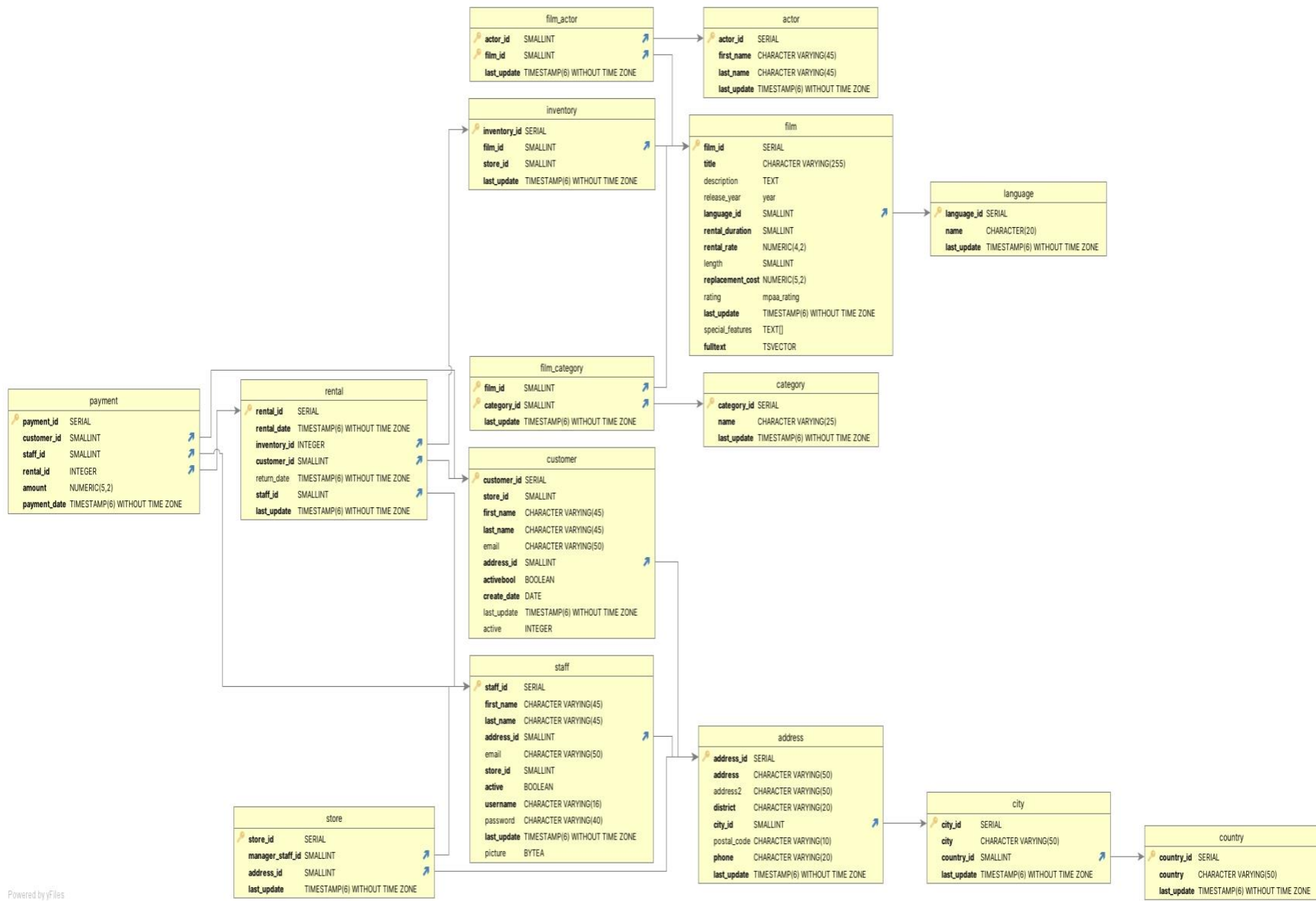
Brandee Fairnot July 2023

TABLE OF CONTENTS

LEGEND	
🔑	Primary Key
↗	Foreign Key

LINKING TABLE VISUAL

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

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

store

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

Payment Table

Payment			
	Name	**Data Type**	**Description**
🔑	Payment_id	Serial number	Primary Key. The number that identifies the payment
↗	Customer_id	Smallint	Identifies that customer. Links to customer table.
↗	Staff_id	Smallint	Identifies the staff member. Links to staff table.
↗	Rental_id	Integer	Identifies that rental. Links to rental table.
	Amount	Numeric (5,2)	Cost of the transaction
	Payment_Date	Timestamp (6) without time zone	Date the rental was paid for

Payment Table Links To

Table	Linked Key / Description
Customer	Customer_id - Identifies that customer.
Rental	Rental_id - Identifies that rental.
Staff	Staff_id - Identifies the staff member.

Payment Table Unique Keys

Key Type	Column Name	Description
🔑	Payment_id	The number that identifies the payment.
↗	Customer_id	Identifies that customer.
↗	Rental_id	Identifies that rental.
↗	Staff_id	Identifies the staff member.

Customer Table

Customer			
	Name	**Data Type**	**Description**
🔑	Customer_id	Serial	Primary Key. The number that identifies 1 particular customer
	Store_id	Smallint	Identifies that store
	First_name	Character Varying (45)	Identifies customer's first name
	Last_name	Character Varying (45)	Identifies customer's last name
	Email	Character Varying (50)	Customer's email address
↗	Address_id	Smallint	Address id specific to a certain client. Links to **address table.**
	Activebool	Boolean	True or false
	Create_date	Date	Date the customer information was obtained
	Last_update	Timestamp (6) without time zone	Last time the customer information was updated
	Active	Integer	Customer current or not 1= current, 0= not current

Customer Table Links To

Table	Linked Key / Description
Address	Address_id - Address id specific to a certain client.

Customer Table Links From

Table	Linked Key / Description
Payment	Customer_id - The number that identifies 1 particular customer
Rental	Customer_id - The number that identifies 1 particular customer

Customer Table Unique Keys

Key Type	Column Name	Description
🔑	*Customer_id*	*The number that identifies 1 particular customer*
↗	*Address_id*	*Address number specific to a certain client.*

Rental Table

	Name	Data Type	Description
🔑	Rental_id	Serial	Primary Key. The number that identifies 1 particular rental film
	Rental_date	Timestamp (6) without time zone	Date the film was rented
↗	Inventory_id	Integer	The number that identifies the inventory. Links to **inventory table.**
↗	Customer_id	Smallint	The number that identifies 1 particular customer. Links to **customer table.**
	Return_date	Timestamp (6) without time zone	Date the rental was returned
↗	Staff_id	Smallint	Staff member's identification number. Links to **staff table.**
	Last_update	Timestamp (6) without time zone	Last time this information was updated

Rental Table Links To

Table	Linked Key / Description
Address	Address_id - Address id specific to a certain client.
Staff	Staff_id - Staff member's identification number.
Customer	Customer_id - The number that identifies 1 particular customer.
Inventory	Inventory_id - The number that identifies the inventory.

Rental Table Links From

Table	Linked Key / Description
Payment	Rental_id - The number that identifies 1 particular rental film

Rental Table Unique Keys

Key Type	Column Name	Description
🔑	Rental_id	The number that identifies 1 particular rental film
↗	Inventory_id	The number that identifies the inventory.
↗	Customer_id	The number that identifies 1 particular customer.
↗	Staff_id	Staff member's identification number

Staff Table

	Name	Data Type	Description
🔑	Staff_id	Serial	Primary Key. Staff member's identification number. Links to **payment table.**
	First_name	Character Varying (45)	Identifies staff member's first name
	Last_name	Character Varying (45)	Identifies staff member's last name
↗	Address_id	Smallint	Staff address. Links to **address table.**
	Email	Character Varying (50)	Staff email address
	Store_id	Smallint	Store Identifier.
	Active	Boolean	True or false
	Username	Character Varying (16)	Staff username for system
	Password	Character Varying (40)	Staff password for system
	Last_update	Timestamp (6) without time zone	Last time this information was updated
	Picture	Bytea	Staff picture

Staff Table Links To

Table	Linked Key / Description
Address	Address_id - Address id specific to a certain client.

Staff Table Links From

Table	Linked Key / Description
Payment	Rental_id - The number that identifies 1 particular rental film
Rental	Staff_id - Staff member's identification number.
Store	Manager_Staff_id - Manager's identification number

Staff Table Unique Keys

Key Type	Column Name	Description
🔑	Staff_id	Staff member's identification number.
↗	Address_id	Address id specific to a certain client.

Store Table

Store			
	Name	**Data Type**	**Description**
🔑	*Store_id*	*Serial*	*Primary Key. Identifies that store numerically.*
↗	*Manager_Staff_id*	*Smallint*	*Manager's identification number. Links to* **staff table.**
↗	*Address_id*	*Smallint*	*Number linked to the address. Links to* **address table.**
	Last_update	*Timestamp (6) without time zone*	*Last time this information was updated*

Store Table Links To

Table	Linked Key / Description
Address	*Address_id - Address id specific to a certain client.*
Staff	*Staff_id - Staff member's identification number*

Store Table Unique Keys

Key Type	Column Name	Description
🔑	*Store_id*	*Identifies that store numerically.*
↗	*Address_id*	*Address id specific to a certain client.*
↗	*Manager_Staff_id*	*Manager's identification number.*

Address Table

Address			
	Name	*Data Type*	*Description*
🔑	*Address_id*	*Serial*	*Primary Key. Number linked to the address. Links to* **address table.**
	Address	*Character Varying (50)*	*First street address line*
	Address2	*Character Varying (50)*	*Second street address line*
	District	*Character Varying (20)*	*Area associated with that address*
↗	*City_id*	*Smallint*	*City number for a particular city & state. Links to* **city table.**
	Postal_Code	*Character Varying (10)*	*Zip code for the address*
	Phone	*Character Varying (20)*	*Telephone number*
	Last_update	*Timestamp (6) without time zone*	*Last time this information was updated*

Address Table Links To

Table	Linked Key / Description
City	*City_id - City number for a particular city & state.*

Address Table Links From

Table	Linked Key / Description
Customer	*Address_id - Address id specific to a certain client.*
Staff	*Address_id - Address id specific to a certain client.*
Store	*Address_id - Address id specific to a certain client.*

Address Table Unique Keys

Key Type	Column Name	Description
🔑	*Address_id*	*Address id specific to a certain client.*
↗	*City_id*	*City number for a particular city & state.*

City Table

City			
	Name	**Data Type**	**Description**
🔑	City_id	Serial	Primary Key. Identifies that city numerically. Links to address table.
	City	Character Varying (50)	City name
↗	Country_id	Smallint	Identifies the country numerically. Links to country table.
	Last_update	Timestamp (6) without time zone	Last time this information was updated

City Table Links To

Table	Linked Key / Description
Country	Country_id - Identifies the country numerically.

City Table Links From

Table	Linked Key / Description
Address	City_id- Identifies that city numerically.

City Table Unique Keys

Key Type	Column Name	Description
🔑	City_id	Address id specific to a certain client.
↗	Country_id	Identifies the country numerically.

Country Table

Country			
	Name	*Data Type*	*Description*
🔑	*Country_id*	*Serial*	*Primary Key. Identifies the country numerically. Links to* **city table.**
	Country	*Character Varying (50)*	*Country name*
	Last_update	*Timestamp (6) without time zone*	*Last time this information was updated*

Country Table Links From

Table	Linked Key / Description
City	*Country_id - Identifies the country numerically.*

Country Table Unique Keys

Key Type	Column Name	Description
🔑	*Country_id*	*Identifies the country numerically.*

Film_Category Table

Film_category			
	Name	*Data Type*	*Description*
🔑	*Film_id*	*Smallint*	*Primary Key. Identifies the film numerically. Links to film table.*
🔑	*Category_id*	*Smallint*	*Primary Key. Identifies the category numerically. Links to category table.*
	Last_update	*Timestamp (6) without time zone*	*Last time this information was updated*

Film_Category Table Links To

Table	Linked Key / Description
Film	*Film_id - Identifies the film numerically.*
Category	*Category_id - Identifies the category numerically*

Film_Category Table Unique Keys

Key Type	Column Name	Description
🔑	*Film_id*	*Identifies the film numerically.*
🔑	*Category_id*	*Identifies the category numerically.*

Category Table

Category			
	Name	*Data Type*	*Description*
🔑	*Category_id*	*Smallint*	*Primary Key. Identifies the category numerically. Links to film_ category table.*
	Name	*Character Varying (25)*	*Category name*
	Last_update	*Timestamp (6) without time zone*	*Last time this information was updated*

Category Table Links From

Table	Linked Key / Description
Film_category	*Category_id - Identifies the category numerically.*

Category Table Unique Keys

Key Type	Column Name	Description
🔑	*Category_id*	*Identifies the category numerically.*

Film_Actor Table

Film_actor			
	Name	*Data Type*	*Description*
🔑	*Actor_id*	*Smallint*	*Primary Key. Identifies the actor numerically. Links to film_ actor table.*
🔑	*Film_id*	*Smallint*	*Primary Key. Identifies the film numerically. Links to film table.*
	Last_update	*Timestamp (6) without time zone*	*Last time this information was updated*

Film_Actor Table Links To

Table	Linked Key / Description
Actor	*Actor_id - Identifies the actor numerically*
Film	*Film_id - Identifies the film numerically*

Film_Actor Table Unique Keys

Key Type	Column Name	Description
🔑	*Actor_id*	*Identifies the actor numerically*
🔑	*Film_id*	*Identifies the film numerically.*

Actor Table

Actor			
	Name	**Data Type**	**Description**
🔑	Actor_id	Serial	Primary Key. Identifies the actor numerically. Links to film_ actor table.
	First _Name	Character Varying (45)	Actor first name
	Last _Name	Character Varying (45)	Actor last name
	Last_update	Timestamp (6) without time zone	Last time this information was updated

Actor Table Links From

Table	**Linked Key / Description**
Film_Actor	Actor_id - Identifies the actor numerically

Actor Table Unique Keys

Key Type	**Column Name**	**Description**
🔑	Actor_id	Identifies the actor numerically

Inventory Table

Inventory			
	Name	**Data Type**	**Description**
🔑	Inventory _id	Serial	Primary Key. Identifies the inventory numerically.
↗	Film_id	Smallint	Identifies the film numerically. Links to **film table.**
	Store_id	Smallint	Identifies the store
	Last_update	Timestamp (6) without time zone	Last time this information was updated

Inventory Links To

Table	Linked Key / Description
Film	Film_id - Identifies the film numerically.

Inventory Table Links From

Table	Linked Key / Description
Rental	Inventory_id - Identifies the inventory numerically.

Inventory Table Unique Keys

Key Type	Column Name	Description
🔑	Inventory_id	Identifies the inventory numerically.
↗	Film_id	Identifies the film numerically.

Film Table

	Name	Data Type	Description
🔑	Film_id	Smallint	Identifies the film numerically.
	Title	Character Varying (255)	Title of film
	Description	Text	Description of film
	Release_year	Year	Year film was released
↗	Language_id	Smallint	Identifies the language numerically. **Links to the language table.**
	Rental_duration	Smallint	How many days film was rented for
	Rental_rate	Numeric (4,2)	Amount of rental
	Length	Smallint	Length of movie time
	Replacement_cost	Numeric (5,2)	Amount of rental replacement if needed
	Rating	MPAA_rating	Age appropriate rating
	Last_update	Timestamp (6) without time zone	Last time this information was updated
	Special_features	Text	Extra scenes within the movie
	Fulltext	TSVECTOR	Extra information

Film Table Links To

Table	Linked Key / Description
Language	Film_id - Identifies the film numerically.

Film Table Links From

Table	Linked Key / Description
Film_Actor	Film_id - Identifies the film numerically.
Inventory	Film_id - Identifies the film numerically.
Film_Category	Film_id - Identifies the film numerically.

Film Table Unique Keys

Key Type	Column Name	Description
🔑	Film_id	Identifies the film numerically.
↗	Language_id	Identifies the language numerically

Language Table

<table>
<tr><th colspan="4">Language</th></tr>
<tr><th></th><th>Name</th><th>Data Type</th><th>Description</th></tr>
<tr><td>🔑</td><td>Language _id</td><td>Serial</td><td>Primary Key. Identifies the language numerically. Links to film table.</td></tr>
<tr><td></td><td>Name</td><td>Character (20)</td><td>Language name</td></tr>
<tr><td></td><td>Last_update</td><td>Timestamp (6) without time zone</td><td>Last time this information was updated</td></tr>
</table>

Language Table Links From

Table	Linked Key / Description
Film	Language_id - Identifies the film numerically.

Language Table Unique Keys

Key Type	Column Name	Description
🔑	Language_id	Identifies the language numerically