Rockbuster Stealth LLC

Data Dictionary
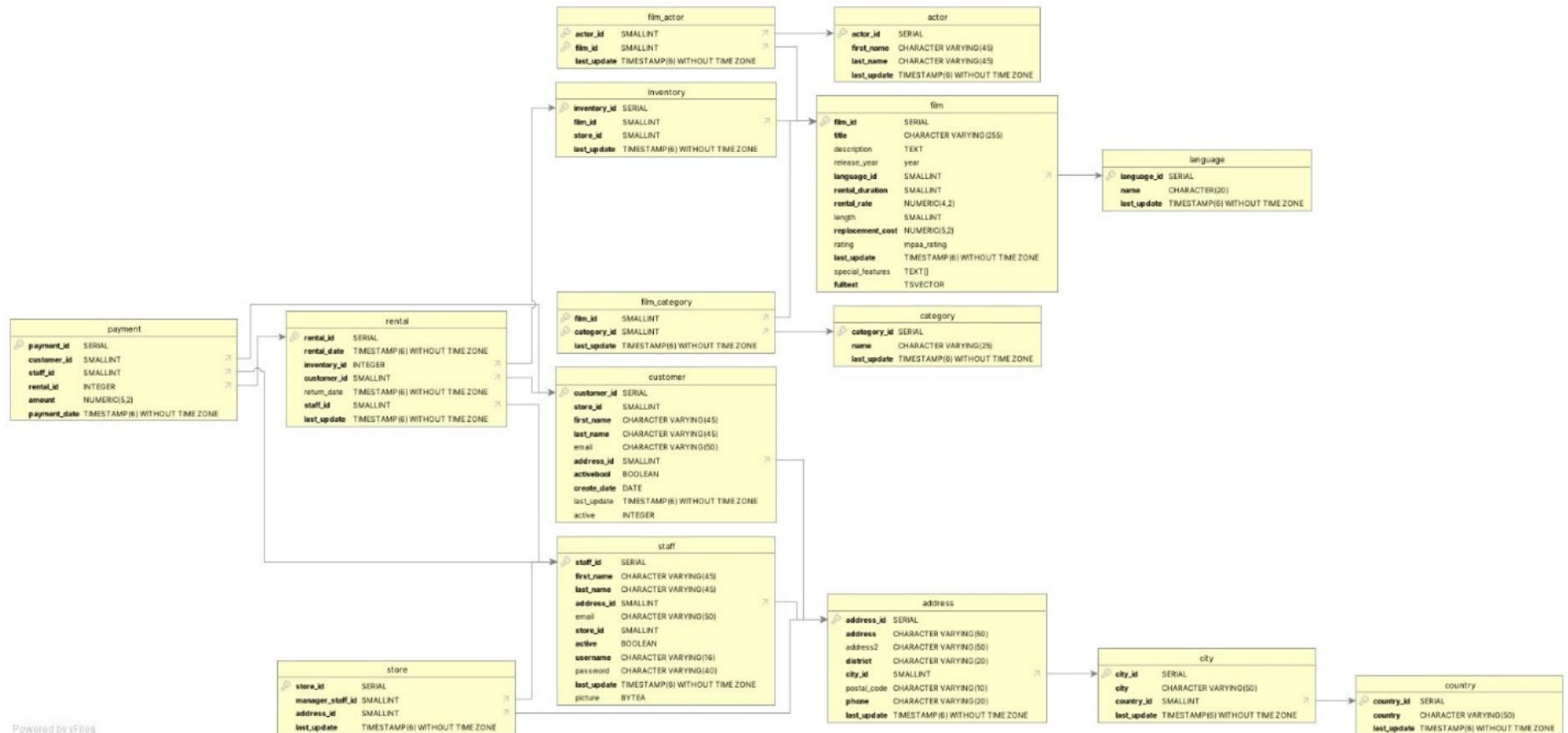
Prepared by Jackson Lanier

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ENTITY RELATIONSHIP DIAGRAM (ERD)

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

FACT TABLES

Payment

	Column	Data Type	Description
🔑	payment_id	SERIAL	Number unique to each payment
	customer_id	SMALLINT	Number unique to each customer
	staff_id	SMALLINT	Number unique to each staff member
	rental_id	INTEGER	Number unique to each rental
	amount	NUMERIC(5,2)	Number representing a payment amount with at least one digit followed by two digits after a decimal (example "2.99")
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of each payment represented with eight-digit date format and twelve-digit time format (ex. "2007-02-15 22:25:46.996577")

Column	Links To	Links From
customer_id	customer_id column in customer table	
staff_id	staff_id column in staff table	
rental_id	rental_id column in rental table	

Visual Reference:

Rental

	Column	Data Type	Description
🔑	rental_id	SERIAL	Number unique to each rental
	rental_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of each rental represented with eight-digit date format and six-digit time format (ex. "2005-05-24 22:54:33")
	inventory_id	INTERGER	Number unique to inventory item
	customer_id	SMALLINT	Number unique to each customer
	return_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of each rental return represented with eight-digit date format and six-digit time format (ex. "2005-05-28 19:40:33")
	staff_id	SMALLINT	Number unique to each staff member
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update to a rental represented with eight-digit date format and six-digit time format (ex. "2006-02-16 02:30:53")

Column	Links To	Links From
rental_id		rental_id in payment table
inventory_id	inventory_id column in inventory table	
customer_id	customer_id column in customer table	
staff_id	staff_id column in staff table	

Visual Reference:

DIMENSION TABLES

Store

	Column	Data Type	Description
🔑	store_id	SERIAL	Number unique to each store
	manager_staff_id	SMALLINT	Number unique to each store manager
	address_id	SMALLINT	Number unique to each store address
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update to store information represented with eight-digit date format and six-digit time format (ex. "2006-02-15 09:57:12")

Column	Links To	Links From
manager_staff_id	staff_id column in staff table	
address_id	address_id column in address table	

Visual Reference:

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

Film Actor

	Column	Data Type	Description
🔑	actor_id	SMALLINT	Number unique film actor
🔑	film_id	SMALLINT	Number unique to each film
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update to film actor information represented with eight-digit date format and six-digit time format (ex. "2006-02-15 10:05:03")

Column	Links To	Links From
actor_id	actor_id column in actor table	
film_id	film_id column in film table	

Visual Reference:

Inventory

	Column	Data Type	Description
🔑	inventory_id	SERIAL	Number unique to each inventory item
	film_id	SMALLINT	Number unique to each film
	store_id	SMALLINT	Number unique to each store
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update to inventory information represented with eight-digit date format and six-digit time format (ex. "2006-02-15 09:57:12")

Column	Links To	Links From
inventory_id		inventory_id column in the rental table
film_id	film_id column in film table	

Visual Reference:

Film Category

	Column	Data Type	Description
🔑	film_id	SMALLINT	Number unique to each film
🔑	category_id	SMALLINT	Number unique to each category
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update to film's category information represented with eight-digit date format and six-digit time format (ex. "2006-02-15 10:07:09")

Column	Links To	Links From
film_id	film_id column in film table	
category_id	category_id column in the category table	

Visual Reference:

Customer

	Column	Data Type	Description
🔑	customer_id	SERIAL	Number unique to each customer
	store_id	SMALLINT	Number unique to each store
	first_name	CHARTACTER VARYING(45)	Customer first name using letters, numbers or special characters
	last_name	CHARTACTER VARYING(45)	Customer last name using letters, numbers or special characters
	email	CHARACTER VARYING (50)	Customer email address using letters, numbers or special characters
	address_id	SMALLINT	Number unique to customer address
	activebool	BOOLEAN	Description of whether customer is active or not using "true" or "false"
	create_date	DATE	Date customer information is created using eight-digit date format (ex. "2006-02-14"
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update to customer information represented with eight-digit date format and nine-digit time format (ex. "2013-05-26 14:49:45.738")
	active	INTEGER	Description of whether customer is active or not using "1" or "0"

Column	Links To	Links From
customer_id		customer_id columns in the payment and rental tables
address_id	address_id column in the address table	

Visual Reference:

Staff

	Column	Data Type	Description
🔑	staff_id	SERIAL	Number unique to each staff member
	first_name	CHARTACTER VARYING(45)	Staff member first name using letters, numbers or special characters
	last_name	CHARTACTER VARYING(45)	Staff Member last name using letters, numbers or special characters
	address_id	SMALLINT	Number unique to staff member address
	email	CHARACTER VARYING (50)	Customer email address using letters, numbers or special characters
	store_id	SMALLINT	Number unique to each store
	activebool	BOOLEAN	Description of whether staff member is active or not using "true" or "false"
	username	CHARACTER VARYING(16)	Staff member username using letters, numbers or special characters
	password	CHARACTER VARYING(40)	Staff member password using letters, numbers or special characters
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update to staff member information represented with eight-digit date format and eleven-digit time format (ex. "2006-05-16 16:13:11.79328")
	picture	BYTEA	Photo of staff member represented with binary data

Column	Links To	Links From
staff_id		staff_id columns in the payment and rental tables and manager_staff_id column in the store table
address_id	address_id column in the address table	

Visual Reference:

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

<u>Actor</u>

	Column	Data Type	Description
🔑	actor_id	SERIAL	Number unique to each actor
	first_name	CHARTACTER VARYING(45)	Actor first name using letters, numbers or special characters
	last_name	CHARTACTER VARYING(45)	Actor last name using letters, numbers or special characters
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update to actor information represented with eight-digit date format and eight-digit time format (ex. "2013-05-26 14:47:57.62")

Column	Links To	Links From
actor_id		actor_id column in the fim_actor table

Visual Reference:

Film

	Column	Data Type	Description
🔑	film_id	SERIAL	Number unique to each film
	title	CHARTACTER VARYING(255)	Film name using letters, numbers or special characters
	description	TEXT	Description of film using written text
	release_year	year	Year of film's release using four-digit format
	language_id	SMALLINT	Number unique to each language used in films
	rental_duration	SMALLINT	Number unique to the length of a film rental
	rental_rate	NUMERIC(4,2)	Number representing a cost of film rental with at least one digit followed by two digits after a decimal (example "2.99")
	length	SMALLINT	Number representing the film length
	replacement_cost	NUMERIC(5,2)	Number representing a cost of film replacement with at least one digit followed by two digits after a decimal (example "14.99")
	rating	mpaa_rating	Film's rating represented with letters or a combination of letters and numbers (ex. "PG-13)
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update to film information represented with eight-digit date format and nine-digit time format (ex. "2013-05-26 14:50:58.951")
	special_features	TEXT []	Description of film's special features using text enclosed in brackets
	fulltext	TSVECTOR	Series of letters, numbers, and special characters summarizing film's description

Column	Links To	Links From
film_id		film_id columns in the film_actor, inventory, and film_category tables
language_id	language_id column in the language table	

Visual Reference:

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

Category

	Column	Data Type	Description
🔑	category_id	SERIAL	Number unique to each category
	name	CHARTACTER VARYING(25)	Category name using letters, numbers, or special characters
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update to category information represented with eight-digit date format and six-digit time format (ex. "2006-02-15 09:46:27")

Column	Links To	Links From
category_id		category_id column in the film_category table

Visual Reference:

Address

	Column	Data Type	Description
🔑	address_id	SERIAL	Number unique to each address
	address	CHARTACTER VARYING(50)	Written address using numbers, letters, or special characters
	address2	CHARTACTER VARYING(50)	Additional written address information using numbers, letters, or special characters
	district	CHARTACTER VARYING(20)	Address district using letters, numbers or special characters
	city_id	SMALLINT	Number unique to each address's city
	postal_code	CHARTACTER VARYING(10)	Address postal code using numbers, letters, or special characters
	phone	CHARTACTER VARYING(20)	Phone number associated with each address using numbers, letters, or special characters
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update to address information represented with eight-digit date format and six-digit time format (ex. "2006-02-15 09:45:30")

Column	Links To	Links From
address_id		address_id columns in the customer, staff, and store tables
city_id	city_id column in the city table	

Visual Reference:

Language

	Column	Data Type	Description
🔑	language_id	SERIAL	Number unique to each language
	name	CHARTACTER (20)	Name of each language using letters, numbers or special characters
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update to language information represented with eight-digit date format and six-digit time format (ex. "2006-02-15 10:02:19")

Column	Links To	Links From
language_id		language_id column in the film table

Visual Reference:

City

	Column	Data Type	Description
🔑	city_id	SERIAL	Number unique to each city
	city	CHARTACTER (50)	Name of each city using letters, numbers or special characters
	country_id	SMALLINT	Number unique to each country
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update to city information represented with eight-digit date format and six-digit time format (ex. "2006-02-15 09:45:25")

Column	Links To	Links From
city_id		city_id column in the address table
country_id	country_id column on the country table	

Visual Reference:

Country

	Column	Data Type	Description
🔑	country_id	SERIAL	Number unique to each country
	country	CHARTACTER (50)	Name of each country using letters, numbers or special characters
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update to country information represented with eight-digit date format and six-digit time format (ex. "2006-02-15 09:44:00")

Column	Links To	Links From
country_id		country_id column in the city table

Visual Reference: