Rockbuster Stealth LLC

Data Dictionary

30/06/2022

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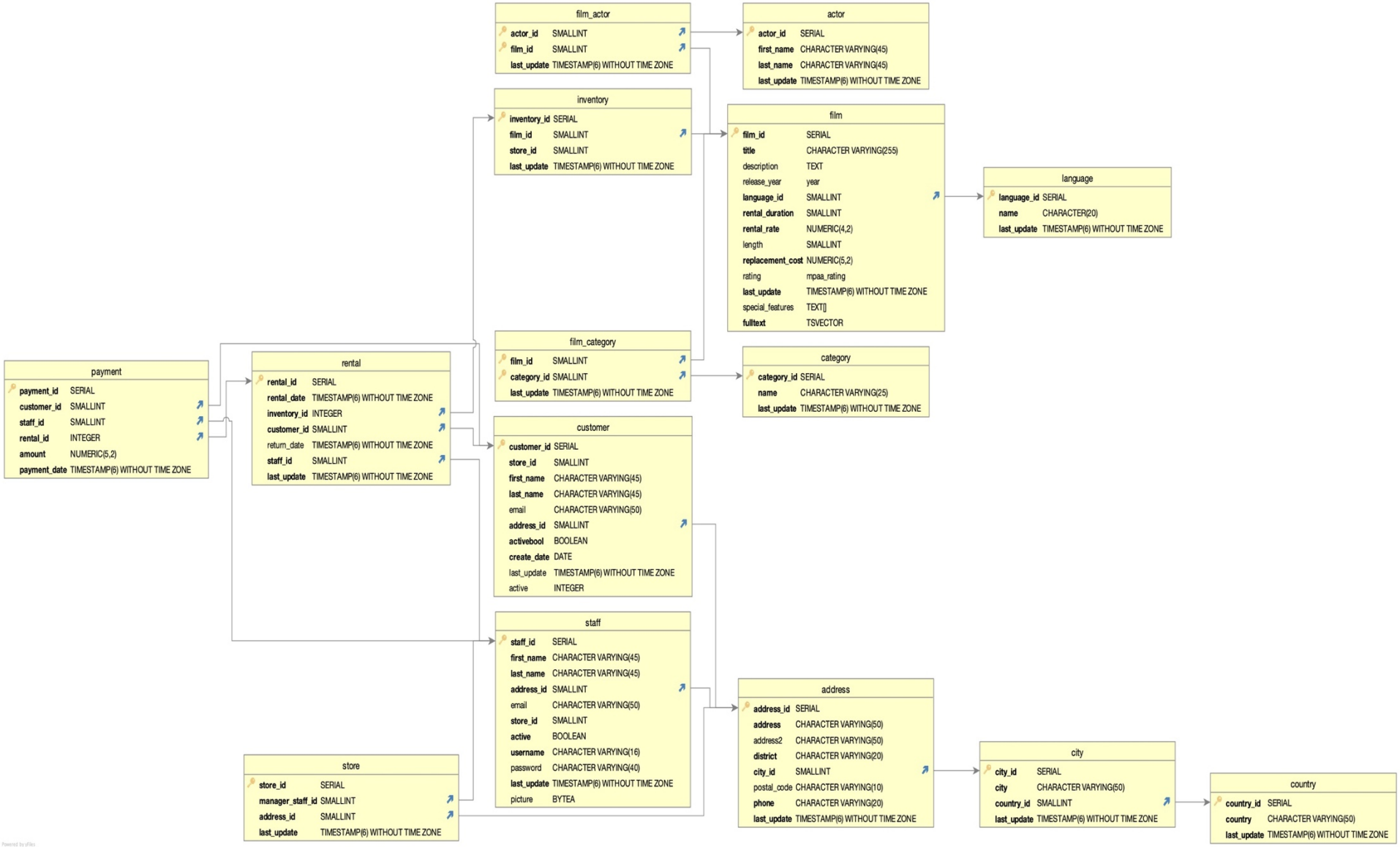
1 – Entity Relationship Diagram



2 – Tables

2.1 – Fact Tables

2.1.1 – rental

	Column	Data Type	Description
🔑	rental_id	SERIAL	Number assigned to rental
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of rental
🔑	inventory_id	INTEGER	Number assigned to inventory
🔑	customer_id	SMALLINT	Number assigned to customer
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date rental was returned
	staff_id	SMALLINT	Number assigned to staff
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Data entry was last updated

Links to

Table	Join
inventory	**rental**.inventory_id = inventory.inventory_id

Unique Keys

Columns	Description
rental_id	Primary Key
inventory_id	Foreign Key
customer_id	Foreign Key

2.2 – Dimension Tables

2.2.1 – payment

	Column	Data Type	Description
	payment_id	SERIAL	Number assigned to payment
	customer_id	SMALLINT	Number assigned to customer
	staff_id	SMALLINT	Number assigned to employee
	rental_id	INTEGER	Number assigned to rental
	amount	NUMERIC(5,2)	Amount paid
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of payment

Links to

Table	Join
rental	**payment**.rental_id = rental.rental_id

Unique Keys

Columns	Description
payment_id	Primary Key
customer_id	Foreign Key
rental_id	Foreign Key

2.2.2 – inventory

	Column	Data Type	Description
	inventory_id	SERIAL	Number assigned to inventory
	film_id	SMALLINT	Number assigned to film
	store_id	SMALLINT	Number assigned to store
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Data entry was last updated

Links to

Table	Join
film	**inventory**.film_id = film.film_id

Links from

Table	Join
film_category	**inventory**.film_id = film_category.film_id

Unique Keys

Columns	Description
inventory_id	Primary Key
film_id	Foreign Key

2.2.3 – customer

	Column	Data Type	Description
	customer_id	SERIAL	Number assigned to customer
	store_id	SMALLINT	Number assigned to store
	first_name	CHARACTER VARYING(45)	First name of customer
	last_name	CHARACTER VARYING(45)	Last name of customer
	email	CHARACTER VARYING(50)	Email of customer
	address_id	SMALLINT	Number assigned to address
	activebool	BOOLEAN	Customer's active status
	create_date	DATE	Date entry was created
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Data entry was last updated
	active	INTEGER	Is customer active or inactive?

Links to

Table	Join
address	**customer**.address_id = address.address_id

Links from

Table	Join
customer	**customer**.customer_id = payment.customer_id

Unique Keys

Columns	Description
customer_id	Primary Key
address_id	Foreign Key

2.2.4 – staff

	Column	Data Type	Description
	staff_id	SERIAL	Number assigned to employee
	first_name	CHARACTER VARYING(45)	First name of employee
	last_name	CHARACTER VARYING(45)	Last name of employee
	address_id	SMALLINT	Number assigned to address
	email	CHARACTER VARYING(50)	Email of employee
	store_id	SMALLINT	Number assigned to store
	active	BOOLEAN	Is employee active or inactive?
	Username	CHARACTER VARYING(16)	Username of employee
	password	CHARACTER VARYING(40)	Password of employee
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Data entry was last updated
	picture	BYTEA	Picture of employee

Unique Keys

Columns	Description
staff_id	Primary Key
address_id	Foreign Key

2.2.5 – film

	Column	Data Type	Description
	film_id	SERIAL	Number assigned to film
	title	CHARACTER VARYING(255)	Title of film
	description	TEXT	Film description
	release_year	Year	Release year of film
	language_id	SMALLINT	Number assigned to language
	rental_duration	SMALLINT	Length of film rental
	rental_rate	NUMERIC(4,2)	Price of film rental
	length	SMALLINT	Length of film
	replacement_cost	NUMERIC(5,2)	Cost to replace film
	rating	mpaa_rating	Film rating
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Data entry was last updated
	special_features	TEXT[]	Special features included with film
	fulltext	TSVECTOR	Keywords related with film

Links to

Table	Join
language	**film**.language_id = language.language_id

Unique Keys

Columns	Description
film_id	Primary Key
language_id	Foreign Key

2.2.6 – language

	Column	Data Type	Description
	language_id	SERIAL	Number assigned to language
	name	CHARACTER(20)	Language name
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Data entry was last updated

Unique Keys

Columns	Description
language_id	Primary Key

2.2.7 – film_category

	Column	Data Type	Description
	film_id	SMALLINT	Number assigned to film
	category_id	SMALLINT	Number assigned to category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Data entry was last updated

Links to

Table	Join
category	**film_category**.category_id = category.category_id

Unique Keys

Columns	Description
film_id	Primary Key
category_id	Foreign Key

2.2.8 – category

	Column	Data Type	Description
	category_id	SERIAL	Number assigned to category
	name	CHARACTER VARYING(25)	Name of genre
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Data entry was last updated

Unique Keys

Columns	Description
category_id	Primary Key

2.2.9 – actor

	Column	Data Type	Description
	actor_id	SERIAL	Number assigned to actor
	first_name	CHARACTER VARYING(45)	Name of actor
	last_name	CHARACTER VARYING(45)	Last name of actor
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Data entry was last updated

Unique Keys

Columns	Description
actor_id	Primary Key

2.2.10 – film_actor

	Column	Data Type	Description
	actor_id	SMALLINT	Number assigned to actor
	film_id	SMALLINT	Number assigned to film
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Data entry was last updated

Unique Keys

Columns	Description
actor_id	Primary Key
film_id	Foreign Key

2.2.11 – store

	Column	Data Type	Description
	store_id	SERIAL	Number assigned to store
	manager_staff_id	SMALLINT	Number assigned to store manager
	address_id	SMALLINT	Number assigned to address
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Data entry was last updated

Unique Keys

Columns	Description
store_id	Primary Key
address_id	Foreign Key

2.2.12 – address

	Column	Data Type	Description
	address_id	SERIAL	Number assigned to address
	address	CHARACTER VARYING(50)	Street address
	address2	CHARACTER VARYING(50)	Additional street address
	district	CHARACTER VARYING(20)	Name of district
	city_id	SMALLINT	Number assigned to city
	postal_code	CHARACTER VARYING(10)	Postal code number
	phone	CHARACTER VARYING(20)	Phone number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Data entry was last updated

Links to

Table	Join
city	**address**.city_id = city.city_id

Links from

Table	Join
customer	**address**.address_id = customer.address_id

Unique Keys

Columns	Description
address_id	Primary Key
city_id	Foreign Key

2.2.13 – city

	Column	Data Type	Description
	city_id	SERIAL	Number assigned to city
	city	CHARACTER VARYING(50)	Name of city
	country_id	SMALLINT	Number assigned to country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Data entry was last updated

Links to

Table	Join
country	**city**.country_id = country.country_id

Links from

Table	Join
address	**city**.city_id = address.city_id

Unique Keys

Columns	Description
city_id	Primary Key
country_id	Foreign Key

2.2.14 – country

	Column	Data Type	Description
	country_id	SERIAL	Number assigned to country
	country	CHARACTER VARYING(50)	Name of country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Data entry was last updated

Links from

Table	Join
city	**country**.country_id = city.country_id

Unique Keys

Columns	Description
country_id	Primary Key