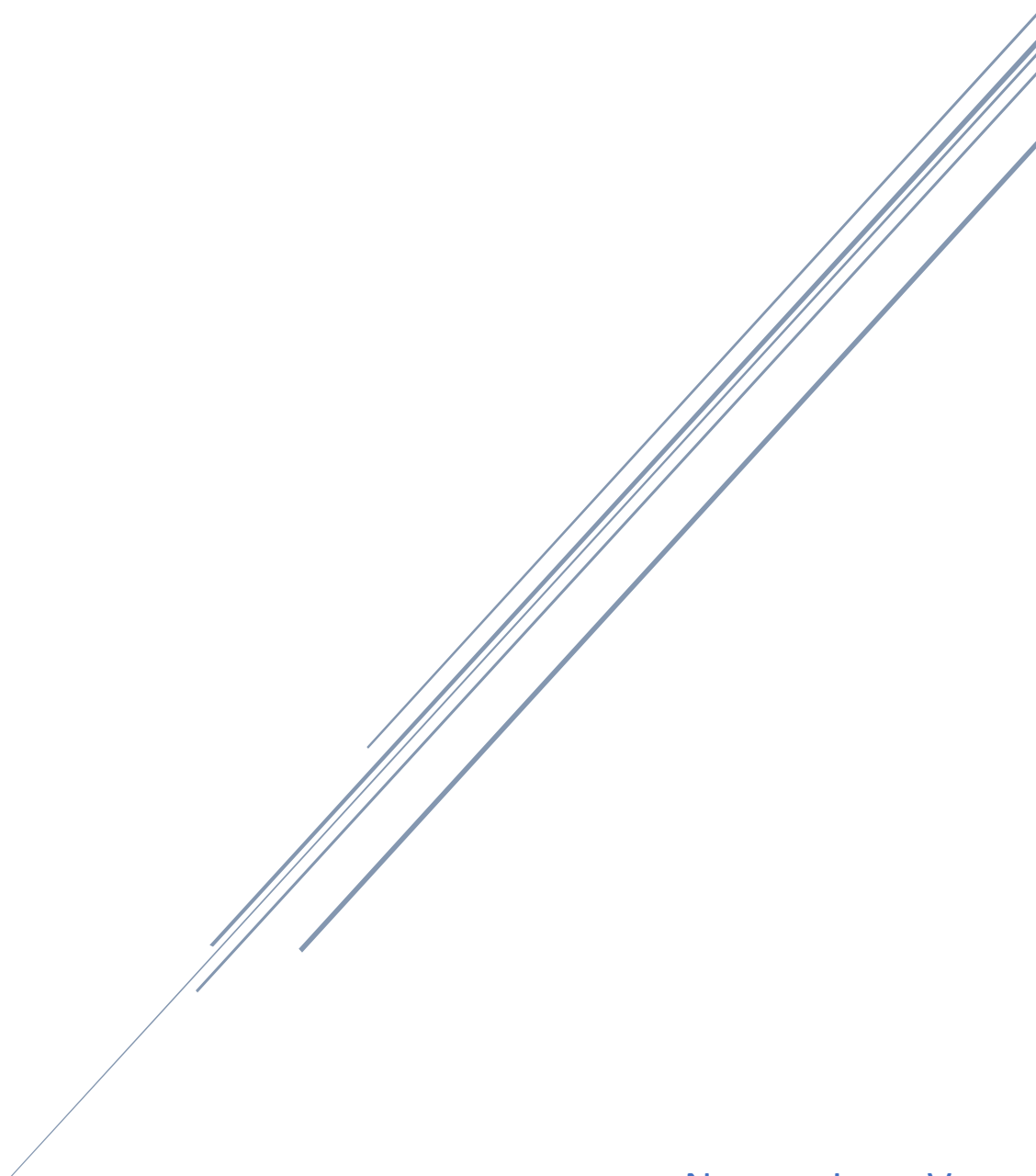


DATA DIRECTIORNARY

ROCKBUSTER Stealth LLC

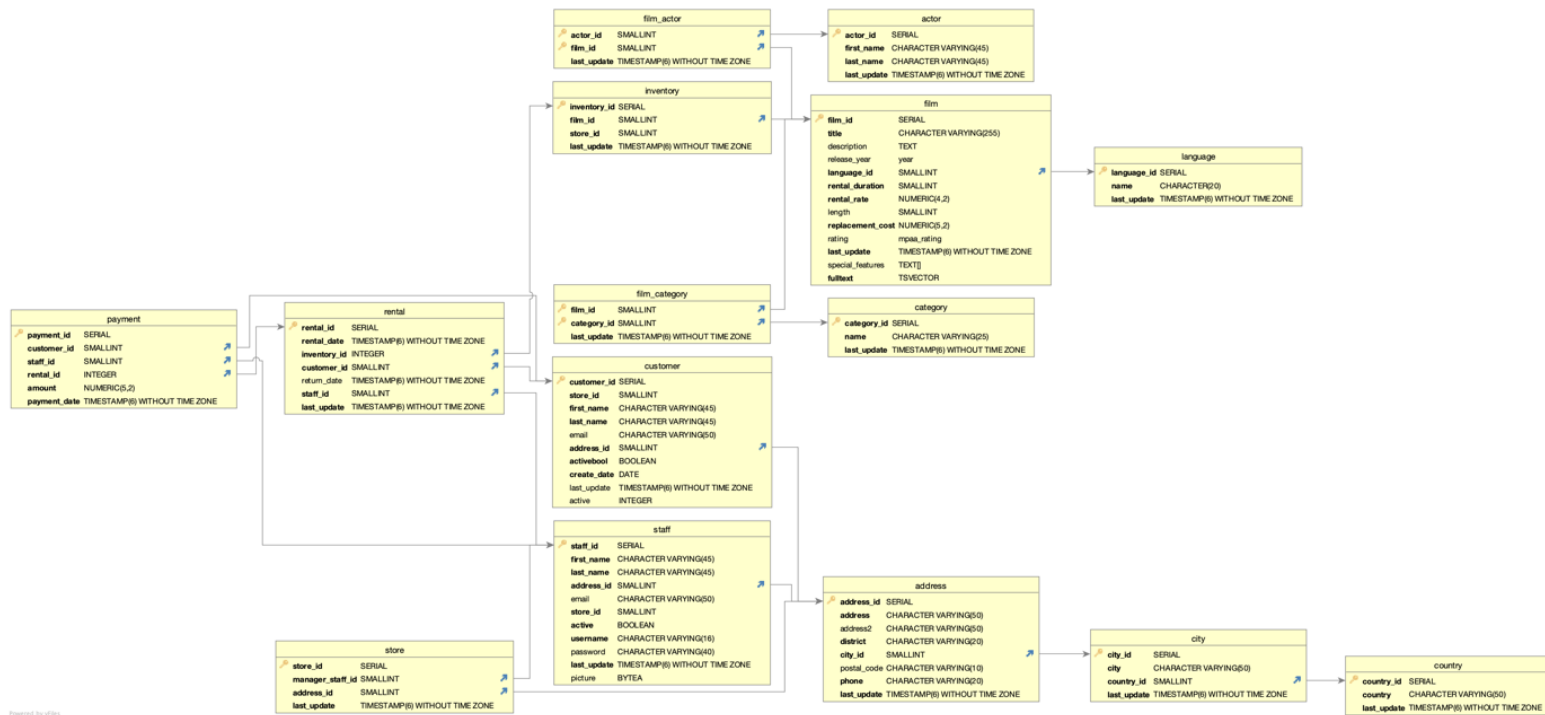


Nguyen Long Vu

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ROCKBUSTER ENTITY RELATIONSHIP DIAGRAM (ERD)



LEGEND

UNIQUE KEY ★

FACT TABLES

PAYMENT

Column	Data Type	Description
payment_id ★	SERIAL	A unique payment ID
customer_id	SMALLINT	A unique customer ID
staff_id	SMALLINT	A unique staff ID
rental_id	INTEGER	A unique ID
amount	NUMERIC(5,2)	Amount paid for the rental
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date when the payment was made
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	

RENTAL

Column	Data Type	Description
rental_id ★	INTEGER	A unique ID for rental
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date when the rental was made
inventory_id	INTEGER	A unique ID for inventory
customer_id	SMALLINT	A unique customer ID
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date when the rental was returned
staff_id	SMALLINT	A unique staff ID
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update
LINKS TO		
TABLE	JOIN	
customer	rental.customer_id = customer.customer_id	
inventory	rental.inventory_id = inventory.inventory_id	
staff	rental.staff_id = staff.staff_id	
LINKS FROM		
TABLE	JOIN	
payment	rental.rental_id = payment.rental_id	

DIMENSION TABLES

STORE

Column	Data Type	Description
store_id ★	SERIAL	A unique store ID
manager_staff_id	SMALLINT	A unique store manager ID
address_id	SMALLINT	Store address ID
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update
LINKS TO		
TABLE	JOIN	
staff	store.staff_id = staff.staff_id	
address	store.address_id = address.address_id	

CUSTOMER

Column	Data Type	Description
customer_id ★	SERIAL	A unique customer ID
store_id	SMALLINT	A unique store ID
first_name	CHARACTER VARYING(45)	First name of the customer
last_name	CHARACTER VARYING(45)	Last name of the customer
email	CHARACTER VARYING(50)	Customer's email
address_id	SMALLINT	Customer's address
activebool	BOOLEAN	Is the customer active? YES or NO
create_date	DATE	Date the customer was registered
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update
active	INTEGER	Could be number of days the account/customer has been active?
LINKS TO		
TABLE	JOIN	
address	customer.address_id = address.address_id	
LINKS FROM		
TABLE	JOIN	
payment	customer.customer_id = payment.customer_id	
rental	customer.customer_id = rental.customer_id	

STAFF

Column	Data Type	Description
staff_id ★	SERIAL	A unique staff ID
first_name	CHARACTER VARYING(45)	First name of the staff employee
last_name	CHARACTER VARYING(45)	Last name of the staff employee

address_id	SMALLINT	Employee's Address
email	CHARACTER VARYING(50)	Employee's email
store_id	SMALLINT	A unique store ID
active	BOOLEAN	Is the employee still active? YES or NO
username	CHARACTER VARYING(16)	Employee's system username
password	CHARACTER VARYING(40)	Employee's system password
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update
picture	BYTEA	Employee's profile picture

LINKS TO

TABLE	JOIN
address	staff.address_id = address.address_id

LINKS FROM

TABLE	JOIN
payment	staff.staff_id = payment.staff_id
rental	staff.staff_id = rental.staff_id
store	staff.store_id = store.store_id

ADDRESS

Column	Data Type	Description
address_id ★	SERIAL	A unique address ID
address	CHARACTER VARYING(50)	Address
address2	CHARACTER VARYING(50)	Address
district	CHARACTER VARYING(20)	District
city_id	SMALLINT	A unique city ID
postal_code	CHARACTER VARYING(10)	Postal Code
phone	CHARACTER VARYING(20)	Phone number
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update

LINKS TO

TABLE	JOIN
city	address.city_id = city.city_id

LINKS FROM

TABLE	JOIN
customer	address.address_id = customer.address_id
staff	address.address_id = staff.address_id
store	address.address_id = store.address_id

CITY

Column	Data Type	Description
city_id ★	SERIAL	A unique city ID
city	CHARACTER VARYING(50)	City
country_id	SMALLINT	A unique country ID
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update
LINKS TO		
TABLE	JOIN	
country	city.country_id = country.country_id	
LINKS FROM		
TABLE	JOIN	
address	city.city_id = address.city_id	

COUNTRY

Column	Data Type	Description
country_id ★	SERIAL	A unique country ID
country	CHARACTER VARYING(50)	Country
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update
LINKS FROM		
TABLE	JOIN	
city	country.country_id = city.country_id	

FILM_ACTOR

Column	Data Type	Description
actor_id ★	SMALLINT	A unique actor ID
film_id ★	SMALLINT	A unique film ID
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update
LINKS TO		
TABLE	JOIN	
actor	film_actor.actor_id = actor.actor_id	
film	film_actor.film_id = film.film_id	

ACTOR

Column	Data Type	Description
actor_id ★	SERIAL	A unique actor ID
first_name	CHARACTER VARYING(45)	First name of an actor
last_name	CHARACTER VARYING(45)	Last name of an actor
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update
LINKS FROM		

TABLE	JOIN
film_actor	actor.actor_id = film_actor.actor_id

FILM

Column	Data Type	Description
film_id	SERIAL	A unique film ID
title	CHARACTER VARYING(255)	Title of the movie
description	TEXT	Text description of the movie
release_year	year	Year the movie was released
language_id	SMALLINT	A unique language ID
rental_duration	SMALLINT	How long was the film rented for?
rental_rate	NUMERIC(4,2)	How often was the film rented?
length	SMALLINT	Length of the movie
replacement_cost	NUMERIC(5,2)	Cost of replacing the film?
rating	mpaa_rating	Film rating
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update
special_features	TEXT	Special features of the film
fulltext	TSVECTOR	Used for fulltext search

LINKS TO

TABLE	JOIN
language	film.language_id = language.language_id

LINKS FROM

TABLE	JOIN
film_actor	film.film_id = film_actor.film_id
film_category	film.film_id = film_category.film_id
inventory	film.film_id = inventory.film_id

LANGUAGE

Column	Data Type	Description
language_id ★	SERIAL	A unique language ID
name	CHARACTER(20)	Name of the language
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update

LINKS FROM

TABLE	JOIN
film	language.language_id = film.language_id

INVENTORY

Column	Data Type	Description
inventory_id ★	SERIAL	A unique ID for inventory
film_id	SMALLINT	A unique film ID

store_id	SMALLINT	A unique store ID where the film is stored
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update
LINKS TO		
TABLE	JOIN	
film	inventory.film_id = film.film_id	
LINKS FROM		
TABLE	JOIN	
rental	inventory.inventory_id = rental.inventory_id	

FILM_CATEGORY

Column	Data Type	Description
film_id ★	SMALLINT	A unique film ID
category_id ★	SMALLINT	A unique category ID
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update
LINKS TO		
TABLE	JOIN	
film	film_category.film_id = film.film_id	
category	film_category.category_id = category.category_id	

CATEGORY

Column	Data Type	Description
category_id ★	SERIAL	A unique category ID
name	CHARACTER VARYING(25)	Name of the category
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update
LINKS FROM		
TABLE	JOIN	
film_category	category.category_id = film_category.category_id	