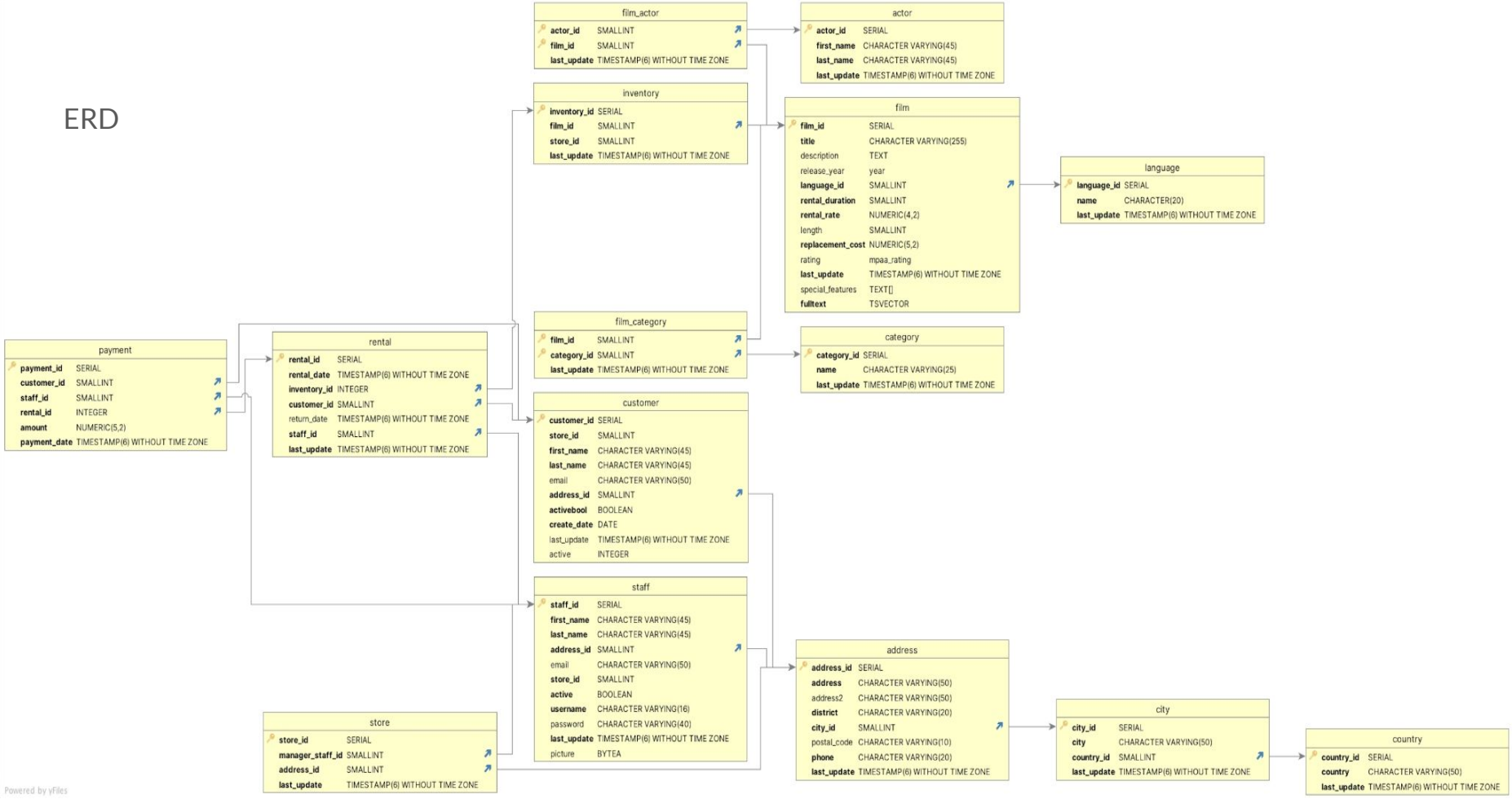
Rockbuster Data Dictionary

Table of contents

1. Entity Relationship Diagram
2. Fact Tables
3. Dimension Tables

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
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
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
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
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Fact Tables

payment		
Column	**Data Type**	**Description**
payment_id	SERIAL	surrogate key identifying each payment
customer_id	SMALLINT	foreign key referring to customer table
staff_id	SMALLINT	foreign key referring to staff table
rental_id	INTEGER	foreign key referring to the rental table
amount	NUMERIC(5,2)	number with 2 decimals that refers to the amount paid
payment_date	TIMESTAMP WITHOUT TIMEZONE	Timestamp of transaction in the format "year-month-day time and then the number 996577"
rental		
Column	**Data Type**	**Description**
rental_id	SERIAL	surrogate key identifying an individual rental
rental_date	TIMESTAMP WITHOUT TIMEZONE	Timestamp of transaction in the format "year-month-day time"
inventory_id	INTEGER	foreign key referring to inventory table
customer_id	SMALLINT	foreign key referring to customer table
return_date	TIMESTAMP WITHOUT TIMEZONE	timestamp of return in the format "year-month-day time"
staff_id	SMALLINT	foreign key referring to the staff table
last_update	TIMESTAMP WITHOUT TIMEZONE	timestamp of when the record was last updated

Dimension Tables

store		
Column	**Data Type**	**Description**
store_id	SERIAL	surrogate key identifying the store
manager_staff_id	SMALLINT	foreign key referring to staff table
address_id	SMALLINT	foreign key referring to address table
last_update	TIMESTAMP WITHOUT TIMEZONE	Timestamp of last update in the format "year-month-day time"
customer		
Column	**Data Type**	**Description**
customer_id	SERIAL	surrogate key identifying the customer
store_id	SMALLINT	foreign key referring to the store table
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	foreign key referring to the address table
activebool	BOOLEAN	boolean true or false referring to whether the customer is active or not?
create_date	DATE	date of customer's first purchase?
last_update	TIMESTAMP WITHOUT TIME ZONE	Timestamp of last update in the format "year-month-day time"
active	INTEGER	0 or 1

film

Column	Data Type	Description
film_id	SERIAL	surrogate key identifying each film
title	CHARACTER VARYING (255)	title of film
description	TEXT	description of film
release_year	YEAR	year film was released
language_id	SMALLINT	language of film
rental_duration	SMALLINT	allowed rental duration
rental_rate	NUMERIC(4,2)	cost of rental
length	SMALLINT	length of film
replacement_cost	NUMERIC(5,2)	cost of replacing a lost or damaged film
rating	mpaa_rating	rating of film from mpaa
last_update	TIMESTAMP WITHOUT TIME ZONE	Timestamp of last update in the format "year-month-day time"
special_features	TEXT[]	any special features of film
fulltext	TSVECTOR	

language

Column	Data Type	Description
language_id	SERIAL	surrogate key of language
name	CHARACTER(20)	name of language
last_update	TIMESTAMP WITHOUT TIME ZONE	Timestamp of last update in the format "year-month-day time"

film_category

Column	Data Type	Description
film_id	SMALLINT	surrogate key identifying each film category
category_id	SMALLINT	foreign key identifying each category
last_update	TIMESTAMP WITHOUT TIME ZONE	Timestamp of last update in the format "year-month-day time"

film_actor

Column	Data Type	Description
actor_id	SMALLINT	foreign key identifying each actor
film_id	SMALLINT	foreign key identifying each film
last_update	TIMESTAMP WITHOUT TIME ZONE	Timestamp of last update in the format "year-month-day time"

actor

Column	Data Type	Description
actor_id	SERIAL	surrogate key identifying each actor
first_name	CHARACTER VARYING (45)	first name of actor
last_name	CHARACTER VARYING (45)	last name of actor
last_update	TIMESTAMP WITHOUT TIME ZONE	Timestamp of last update in the format "year-month-day time"

staff

Column	Data Type	Description
staff_id	SERIAL	surrogate key identifying each staff member
first_name	CHARACTER VARYING (45)	first name of staff
last_name	CHARACTER VARYING (45)	last name of staff
address_id	SMALLINT	foreign key of address
email	CHARACTER VARYING (50)	email of staff
store_id	SMALLINT	foreign key of store
active	BOOLEAN	
username	CHARACTER VARYING (16)	username of staff
password	CHARACTER VARYING (40)	password of staff
last_update	TIMESTAMP WITHOUT TIME ZONE	Timestamp of last update in the format "year-month-day time"
picture	BYTEA	?

inventory

Column	Data Type	Description
inventory_id	SERIAL	surrogate key identifying each item in inventory
film_id	SMALLINT	
store_id	SMALLINT	
last_update	TIMESTAMP WITHOUT TIME ZONE	Timestamp of last update in the format "year-month-day time"

category

Column	Data Type	Description
category_id	SERIAL	surrogate key of category
name	CHARACTER(20)	name of category
last_update	TIMESTAMP WITHOUT TIME ZONE	Timestamp of last update in the format "year-month-day time"

address

Column	Data Type	Description
address_id	SERIAL	surrogate key of address
name	CHARACTER VARYING (50)	first line of address
address2	CHARACTER VARYING (50)	second line of address
district	CHARACTER VARYING (20)	district
city_id	CHARACTER VARYING (50)	foreign key for city
postal_code	CHARACTER VARYING (10)	postal code
phone	CHARACTER VARYING (20)	phone number
last_update	TIMESTAMP WITHOUT TIME ZONE	Timestamp of last update in the format "year-month-day time"

city

Column	Data Type	Description
city_id	SERIAL	surrogate key of city
name	CHARACTER(50)	name of city
country_id	SMALLINT	foreign key of country
last_update	TIMESTAMP WITHOUT TIME ZONE	Timestamp of last update in the format "year-month-day time"

country

Column	Data Type	Description
country_id	SERIAL	surrogate key of country
country	CHARACTER(50)	name of country
last_update	TIMESTAMP WITHOUT TIME ZONE	Timestamp of last update in the format "year-month-day time"