Rockbuster Stealth LLC

Borbála Dömötörfy

Table of Contents
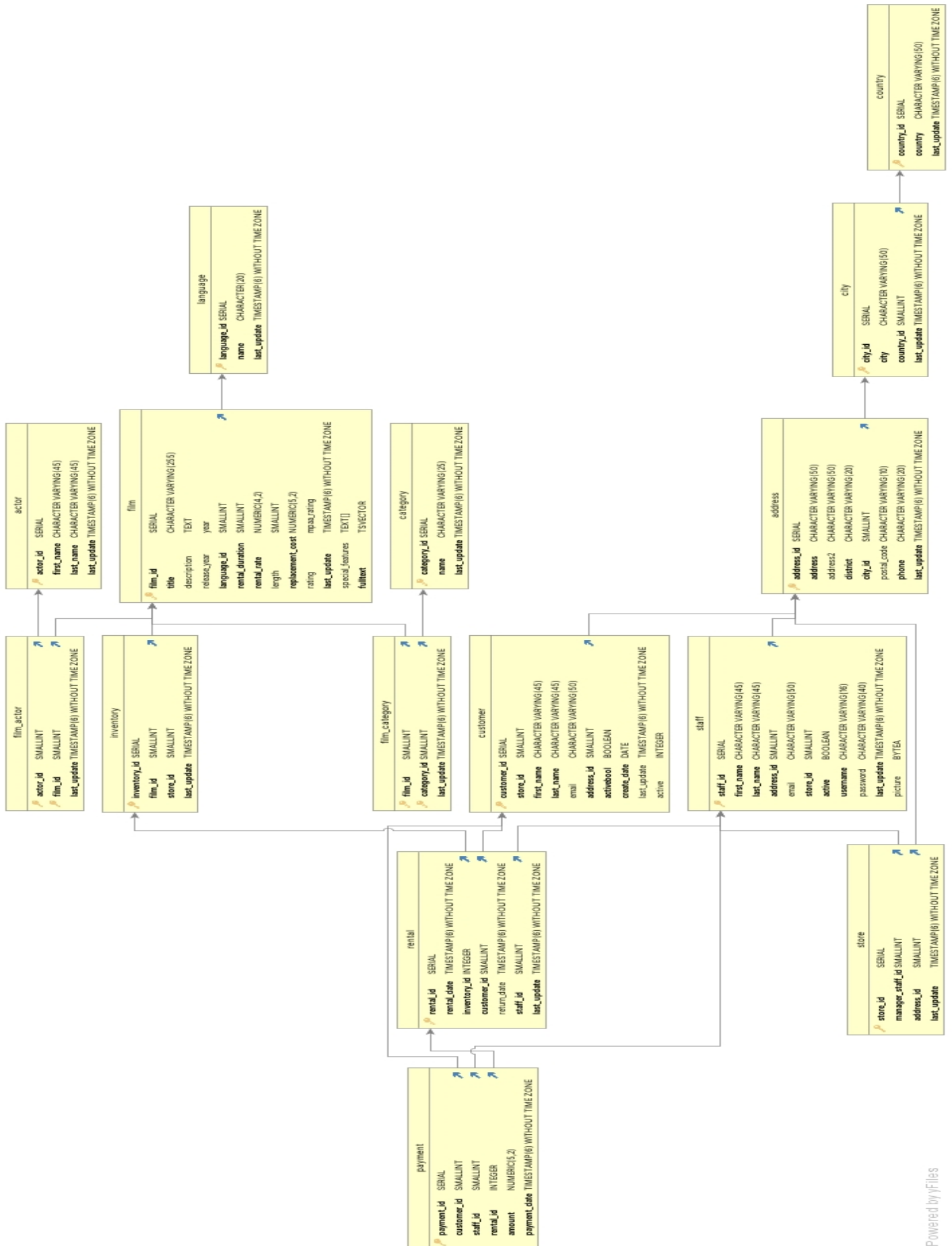
Rockbuster Stealth LLC

Rockbuster Stealth LLC is the video rental company which stores its data about films, stores, customers, payments, etc., in the PostgreSQL database management system.

Entity Relationship Diagram

language
language_id	SERIAL
name	CHARACTER VARYING(20)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

country
country_id	SERIAL
country	CHARACTER VARYING(50)
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

actor
actor_id	SERIAL
first_name	CHARACTER VARYING(45)
last_name	CHARACTER VARYING(45)
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

category
category_id	SERIAL
name	CHARACTER VARYING(25)
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

film_actor
actor_id	SMALLINT
film_id	SMALLINT
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_category
film_id	SMALLINT
category_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

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

store
store_id	SERIAL
manage_staff_id	SMALLINT
address_id	SMALLINT
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

Powered byiyFiles

Data Dictionary

Fact Tables

Payment table

Name of Table	Column	Data Type	Description
Payment	payment_id	Serial	Unique payment identifier
	customer_id	Small Int	Unique customer identifier
	staff_id	Small Int	Unique staff identifier
	rental_id	Integer	Unique rental identifier
	amount	Numeric(5, 2)	Amount of payment received
	payment_date	Timestamp w/o Time Zone	Date of payment

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

Unique keys	Column	Key type	Description
	payment_id	Primary key	Unique identifier for a payment
	rental_id	Foreign key	Unique identifier for a rental
	customer_id	Foreign key	Unique identifier for a customer
	staff_id	Foreign key	Unique identifier for staff

Rental table

Name of Table	Column	Data Type	Description
Rental	rental_id	Serial	Unique rental identifier
	rental_date	Timestamp w/o Time Zone	Date of rental
	inventory_id	Integer	Unique inventory identifier

	cutomer_id	Small Int	Unique customer identifier
	return_date	Timestamp w/o Time Zone	Date of return
	staff_id	Small int	Unique staff identifier
	last_update	Timestamp w/o Time Zone	Time of last update

Links to	Table	Join
	inventory	rental.inventory_id = inventory.inventory_id
	customer	rental.customer_id = customer.customer_id
	staff	rental.staff_id = staff.staff_id

Links from	Table	Join
	payment	payment.rental_id = rental.rental_id

Unique keys	Column	Key type	Description
	rental_id	Primary key	Unique identifier for a rental
	customer_id	Foreign key	Unique identifier for a customer
	staff_id	Foreign key	Unique identifier for staff
	inventory_id	Foreign key	Unique identifier for inventory

Dimension Tables

Film table

Name of Table	Column	Data Type	Description
Film	film_id	Serial	Unique film identifier
	title	Character Varying(255)	Titleof film
	description	Text	Description of film
	release_year	Year	Year of film release
	language_id	Small Int	Language of film
	rental_duration	Small Int	Durationof rental

	rental_rate	Numeric(4, 2)	Rate of rental
	lenght	Small Int	Length of film
	replacement_cost	Numeric(5, 2)	Replacement cost of film
	rating	Mpaa_rating	Rating of film
	last_update	Timestamp w/o Time Zone	Time of last update
	special_features	Text[]	Special features of film
	fulltext	Tsvector	Film index

Links to		Table	Join
		language	film.language_id = language.language_id

Links from		Table	Join
		film_actor	film_actor.film_id = film.film_id
		inventory	inventory.film_id = film.film_id
		Film_category	film_category.film_id = film.film_Id

Unique keys	Column	Key type	Description
	film_id	Primary key	Unique identifier for a film
	language_id	Foreign key	Unique identifier for a language

Inventory table

Name of Table	Column	Data Type	Description
inventory	inventory_id	Serial	Unique inventory identifier
	film_id	Small Int	Unique film identifier
	store_id	Small Int	Unique store identifier
	last_update	Timestamp w/o Time Zone	Time 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

Unique keys	Column	Key type	Description
	inventory_id	Primary key	Unique identifier for an inventory
	film_id	Foreign key	Unique identifier for a film

Film category table

Name of Table	Column	Data Type	Description
film_category	film_id	Small Int	Unique film identifier
	category_id	Small Int	Unique category identifier
	last_update	Timestamp w/o Time Zone	Time of last update

Links to	Table	Join
	film	Film_category.film_id = film.film_id
	category	Film_category.category_id = category.category_id

Unique keys	Column	Key type	Description
	category_id	Primary and Foreign key	Unique identifier for a category
	film_id	Primary and Foreign key	Unique identifier for a film

Customer table

Name of Table	Column	Data Type	Description
customer	customer_id	Small Int	Unique customer identifier
	store_id	Small Int	Unique store identifier
	first_name	Character Varying(45)	First name of customer
	last_name	Character Varying(45)	Last name of customer
	email	Character Varying(50)	Email address of customer
	address_id	Small Int	Unique identifier of address
	activebool	Boolean	Whether customer is active
	create_date	Date	Date of customer profile creation

	last_update	Timestamp w/o Time Zone	Time of last update
	active	Integer	Active status represented by 0 or 1

Links to	Table	Join
	address	customer.address_id = address.address_id

Links from	Table	Join
	rental	rental.customer_id = customer.customer_id

Unique keys	Column	Key type	Description
	customer_id	Primary key	Unique identifier for a customer
	address_id	Foreign key	Unique identifier for an address

Film actor table

Name of Table	Column	Data Type	Description
film_actor	actor_id	Small Int	Unique actor identifier
	film_id	Small Int	Unique film identifier
	last_update	Timestamp w/o Time Zone	Time of last update

Links to	Table	Join
	film	Film_actor.film_id = film.film_id
	actor	Film_actor.actor_id = actor.actor_id

Unique keys	Column	Key type	Description
	actor_id	Primary and Foreign key	Unique identifier for an actor
	film_id	Primary and Foreign key	Unique identifier for a film

Actor table

Name of Table	Column	Data Type	Description
Actor	actor-id	Serial	Unique actor identifier
	first_name	Character Varying(45)	First name of actor

	last_name	Character Varying(45)	Last name of actor
	last_update	Timestamp w/o Time Zone	Time of last update

Links from	Table	Join
	Film_actor	Film_actor.actor_id = actor.actor_id

Unique keys	Column	Key type	Description
	actor_id	Primary key	Unique identifier for an actor

Staff table

Name of Table	Column	Data Type	Description
Staff	staff-id	Serial	Unique staff member identifier
	first_name	Character Varying(45)	First name of staff member
	last_name	Character Varying(45)	Last name of staff member
	address_id	Small Int	Unique identifier of address
	email	Character Varying(50)	Email address of staff member
	store_id	Small Int	Unique store identifier
	active	Boolean	Whether staff member is active
	username	Character Varying(16)	Staff member's username
	password	Character Varying(40)	Staff member's password
	last_update	Timestamp w/o Time Zone	Time of last update
	picture	Bytea	Picture of staff member

Links to	Table	Join
	rental	staff.staff_id = rental.staff_id
	store	store.address_id=staff.address_id
	payment	staff.staff_id=payment.staff_id

Links from	Table	Join
	address	store.address_id = staff.address_id

Unique keys	Column	Key type	Description

	staff_id	Primary key	Unique identifier for a staff
	address_id	Foreign key	Unique identifier for an address

Category table

Name of Table	Column	Data Type	Description
Category	category_id	Serial	Unique category identifier
	name	Character Varying(25)	Name of category
	last_update	Timestamp w/o Time Zone	Time of last update

Links from	Table	Join
	Film_category	Film_category.category_id = category.category_id

Unique keys	Column	Key type	Description
	category_id	Primary key	Unique identifier for a category

Address table

Name of Table	Column	Data Type	Description
Address	address_id	Serial	Unique address identifier
	address	Character Varying(50)	First line of address
	address2	Character Varying(50)	Second line of address
	district	Character Varying(20)	District of address
	city_id	Small Int	Unique city identifier
	postal_code	Character Varying(10)	Postal code
	phone	Character Varying(20)	Phone number
	last_update	Timestamp w/o Time Zone	Time of last update

Links from	Table	Join
	store	store.adress_id = adress. adress_id
	customer	customer.address_id = adress. adress_id

	staff	staff.adress_id = adress. adress_id

Links to	Table	Join
	city	address.city_id = city.city_id

Unique keys	Column	Key type	Description
	adress_id	Primary key	Unique identifier for an address
	city_id	Foreign key	Unique identifier for a city

Language table

Name of Table	Column	Data Type	Description
Language	language_id	Serial	Unique language identifier
	name	Character Varying(20)	Name of language
	last_update	Timestamp w/o Time Zone	Time of last update

Links from	Table	Join
	film	film.language _id = language.language_id

Unique keys	Column	Key type	Description
	language_id	Primary key	Unique identifier for a language

City table

Name of Table	Column	Data Type	Description
City	city_id	Serial	Unique city identifier
	city	Character Varying(50)	Name of city
	country_id	Small Int	Unique country identifier
	last_update	Timestamp w/o Time Zone	Time of last update

Links from	Table	Join
	address	address.city _id = city.city_id

Unique keys	Column	Key type	Description

	city_id	Primary key	Unique identifier for a city

Country table

Name of Table	Column	Data Type	Description
Country	country_id	Serial	Unique country dentifier
	country	Character Varying(50)	Name of country
	last_update	Timestamp w/o Time Zone	Time of last update

Links from	Table	Join
	city	city.country _id = country.country_id

Unique keys	Column	Key type	Description
	country_id	Primary key	Unique identifier for a country