ROCKBUSTER

Data Dictionary

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1. Entity Relationship Diagram (ERD)
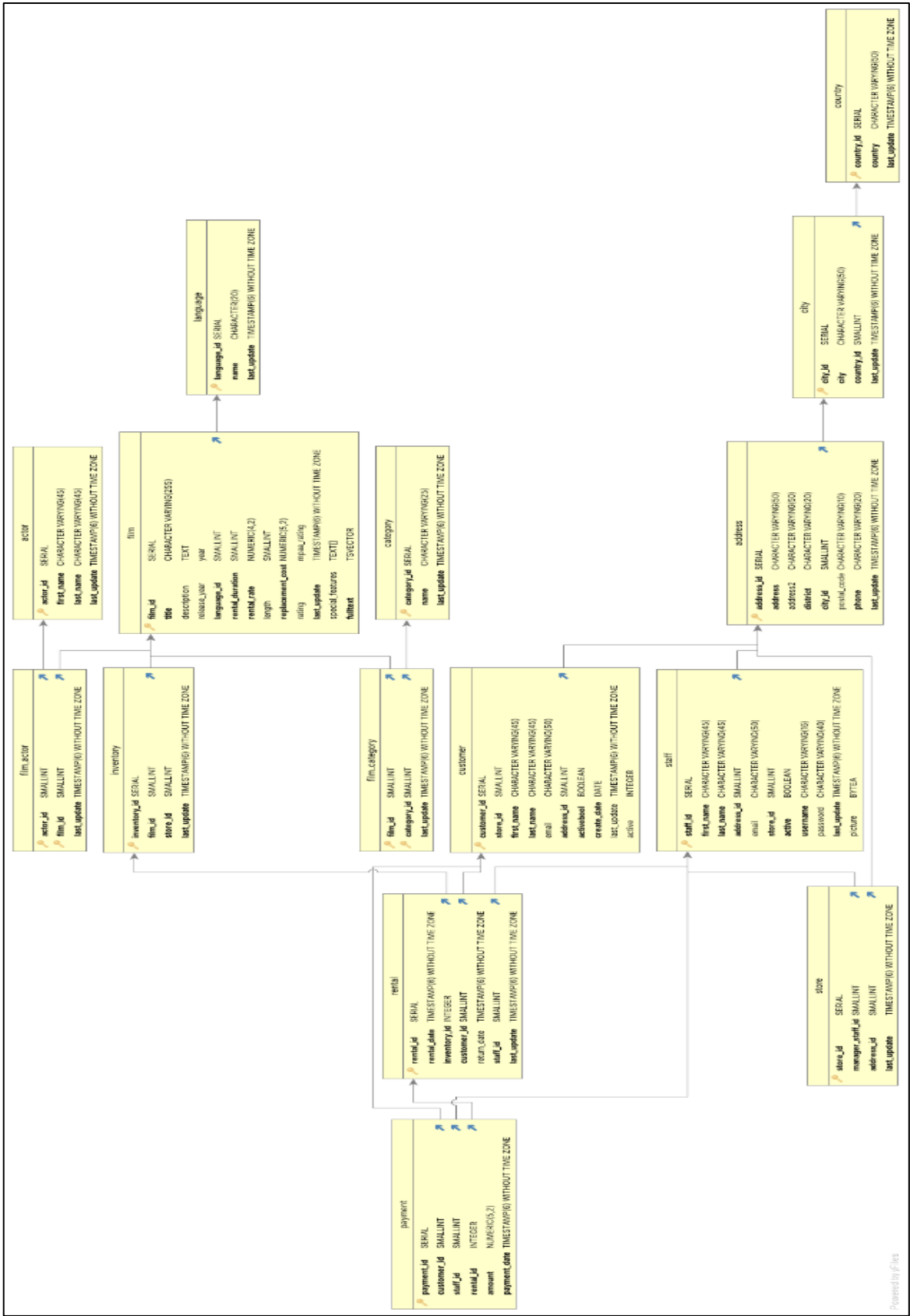
2. Tables

2.1 Table: Payment

Payment information – customer, rental, amount, date of payment.

Columns

	Columns	Data Type	Description
🔑	payment_id	SERIAL	Payment number
	customer_id	SMALLINT	Customer identification number
	staff_id	SMALLINT	Staff identification number
	rental_id	INTEGER	Rental identification number
	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
↘	Customer	payment.customer_id = customer.customer_id
↘	Staff	payment.staff_id = staff_staff_id

Linked from

	Table	Join
	N/A	N/A

Unique Keys

Column	Type
payment_id	Primary Key

2.2 Table: Rental

Rental information such as customer, rental date, return date, inventory etc

Columns

	Columns	Data Type	Description
🔑	rental_id	SERIAL	Rental identification number
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of rental
	inventory_id	INTEGER	Inventory identification number
	customer_id	SMALLINT	Customer identification number

	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of rental returned
	staff_id	SMALLINT	Staff identification number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last updated date and time of the record

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

Linked from

Table	Join
Payment	payment.rental_id = rental.rental_id

Unique Keys

Column	Type
rental_id	Unique Key

2.3 Table: Store

Staff and address information of the store

Columns

Columns	Data Type	Description
store_id	SERIAL	Store identification number
manager_staff_id	SMALLINT	Staff identification number
address_id	SMALLINT	Address identification number
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last updated date and time of the record

Links to

Table	Join
Address	store.address_id = address.address_id
Staff	store.manager_staff_id = staff_staff_id

Linked from

Table	Join
N/A	N/A

Unique Keys

Column	Type
store_id	Unique Key

2.4 Table: Staff

Information on staff such as first name, last name, email, address, username, password

Columns

	Columns	Data Type	Description
🔑	staff_id	SERIAL	Staff identification number
	first_name	CHARACTER VARYING(45)	First name of staff
	last_name	CHARACTER VARYING(45)	Last name of staff
	address_id	SMALLINT	Address identification number
	email	CHARACTER VARYING(50)	Email of staff
	store_id	SMALLINT	Store identification number
	active	BOOLEAN	Work status of staff
	username	CHARACTER VARYING(16)	Staff username
	password	CHARACTER VARYING(40)	Staff password
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last updated date and time of the record
	picture	BYTEA	Staff photo

Links to

	Table	Join
↘	Address	staff.address_id = address.address_id

Linked from

	Table	Join
↖	Payment	payment.staff_id = staff.staff_id
↖	Rental	rental.staff_id = staff.staff_id
↖	Store	store.manager_staff_id = staff.staff_id

Unique Keys

Column	Type
staff_id	Unique Key

2.5 Table: Address

Street address, district, city post code, phone number

Columns

	Columns	Data Type	Description
🔑	address_id	SERIAL	Address identification number
	address	CHARACTER VARYING(50)	Address line 1
	address2	CHARACTER VARYING(50)	Address line 2
	district	CHARACTER VARYING(20)	District of address
	city_id	SMALLINT	City identification number
	postal_code	CHARACTER VARYING(10)	Post code of address

	phone	CHARACTER VARYING(20)	Phone number of record
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last updated date and time of the record

Links to

Table		Join
↘	City	address.city_id = city.city_id

Linked from

Table		Join
↖	Customer	customer.address_id = address.address_id
↖	Staff	staff.address_id = address.address_id
↖	Store	store.address_id = address.address_id

Unique Keys

Column	Type
address_id	Unique Key

2.6 Table: City

City and country

Columns

Columns		Data Type	Description
🔑	city_id	SERIAL	City identification number
	city	CHARACTER VARYING(50)	City name
	country_id	SMALLINT	Country identification number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last updated date and time of the record

Links to

Table		Join
↘	Country	city.country_id = country.country_id

Linked from

Table		Join
↖	Address	address.city_id = city.city_id

Unique Keys

Column	Type
city_id	Unique Key

2.7 Table: Country

Country name

Columns

	Columns	Data Type	Description
🔑	country_id	SERIAL	Country identification number
	country	CHARACTER VARYING(50)	Country Name
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last updated date and time of the record

Links to

Table	Join
N/A	N/A

Linked from

Table	Join
City	city.country_id = country.country_id

Unique Keys

Column	Type
country_id	Unique Key

2.8 Table: Customer

Name of Table: customer

Columns

	Columns	Data Type	Description
🔑	customer_id	SERIAL	Customer identification number
	store_id	SMALLINT	Store identification number
	first_name	CHARACTER VARYING(45)	Customer first name
	last_name	CHARACTER VARYING(45)	Customer last name
	email	CHARACTER VARYING(50)	Customer email
	address_id	SMALLINT	Address identification number
	activebool	BOOLEAN	Status of customer account
	create_date	DATE	Date account created
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last updated date and time of the record
	active	INTEGER	Status of customer account

Links to

Table	Join
Address	customer.address_id = address.address_id

Linked from

	Table	Join
↖	Payment	payment.customer_id = customer.customer_id
↖	Rental	rental.customer_id = customer.customer_id

Unique Keys

Column	Type
customer_id	Unique Key

2.9 Table: Film Category

Film and category identification

Columns

	Columns	Data Type	Description
🔑	film_id	SMALLINT	Film identification number
🔑	category_id	SMALLINT	Category identification number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last updated date and time of the record

Links to

	Table	Join
↘	Category	film_category.category_id = category.category_id
↘	Film	film_category.film_id = film.film_id

Linked from

	Table	Join
	N/A	N/A

Unique Keys

Column	Type
film_id	Unique Key
category_id	Unique Key

2.10 Table: Category

Film category

	Columns	Data Type	Description
🔑	category_id	SERIAL	Category identification number
	name	CHARACTER VARYING(25)	Film categories
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last updated date and time of the record

Links to

Table	Join
N/A	N/A

Linked from

Table	Join
Film Category	film_category.category_id = category.category_id

Unique Keys

Column	Type
category_id	Unique Key

2.11 Table: Film Actor

Film and actor identification

Columns	Data Type	Description
actor_id	SMALLINT	Actor identification number
film_id	SMALLINT	Film identification number
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last updated date and time of the record

Links to

Table	Join
Actor	film_actor.actor_id = actor.actor_id
Film	film_actor.film_id = film.film_id

Linked from

Table	Join
N/A	N/A

Unique Keys

Column	Type
actor_id	Unique Key
film_id	Unique Key

2.12 Table: Actor

Actor's name

Columns		Data Type	Description
🔑	actor_id	SERIAL	Actor identification number
	first_name	CHARACTER VARYING(45)	Actor's first name
	last_name	CHARACTER VARYING(45)	Actor's last name
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last updated date and time of the record

Links to

Table		Join
	N/A	N/A

Linked from

Table		Join
↖	Film Actor	film_actor.actor_id = actor.actor_id

Unique Keys

Column	Type
actor_id	Unique Key

2.13 Table: Inventory

Film and inventory identification

Columns		Data Type	Description
🔑	inventory_id	SERIAL	Inventory identification number
	film_id	SMALLINT	Film identification number
	store_id	SMALLINT	Store identification number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last updated date and time of the record

Links to

Table		Join
↘	Film	inventory.film_id = film.film_id

Linked from

Table		Join
↖	Rental	rental.inventory_id = inventory.inventory_id

Unique Keys

Column	Type
inventory_id	Unique Key

2.14 Table: Film

Film title, description, release year, rental information, replacement cost

Columns	Data Type	Description
🔑 film_id	SERIAL	Film identification number
title	CHARACTER VARYING(255)	Film title
description	TEXT	Description of the film/movie
release_year	year	Release year of film
language_id	SMALLINT	Language identification number
rental_duration	SMALLINT	Rental in days
rental_rate	NUMERIC(4,2)	Cost of rental
length	SMALLINT	Length of film/movie
replacement_cost	NUMERIC(5,2)	Cost to replace film/movie
rating	mpaa_rating	Movie mpaa rating
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last updated date and time of the record
special_features	TEXT[]	Any additional features of the film/movie
fulltext	TSVECTOR	Film/movie tags or classification

Links to

Table	Join
↘ Language	film.language_id = language.language_id

Linked 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	Type
film_id	Unique Key

2.15 Table: Language

Language name

	Columns	Data Type	Description
🔑	language_id	SERIAL	Language identification number
	name	CHARACTER(20)	Language
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last updated date and time of the record

Links to

Table	Join
N/A	N/A

Linked from

	Table	Join
↖	Film	film.language_id = language.language_id

Unique Keys

Column	Type
language_id	Unique Key