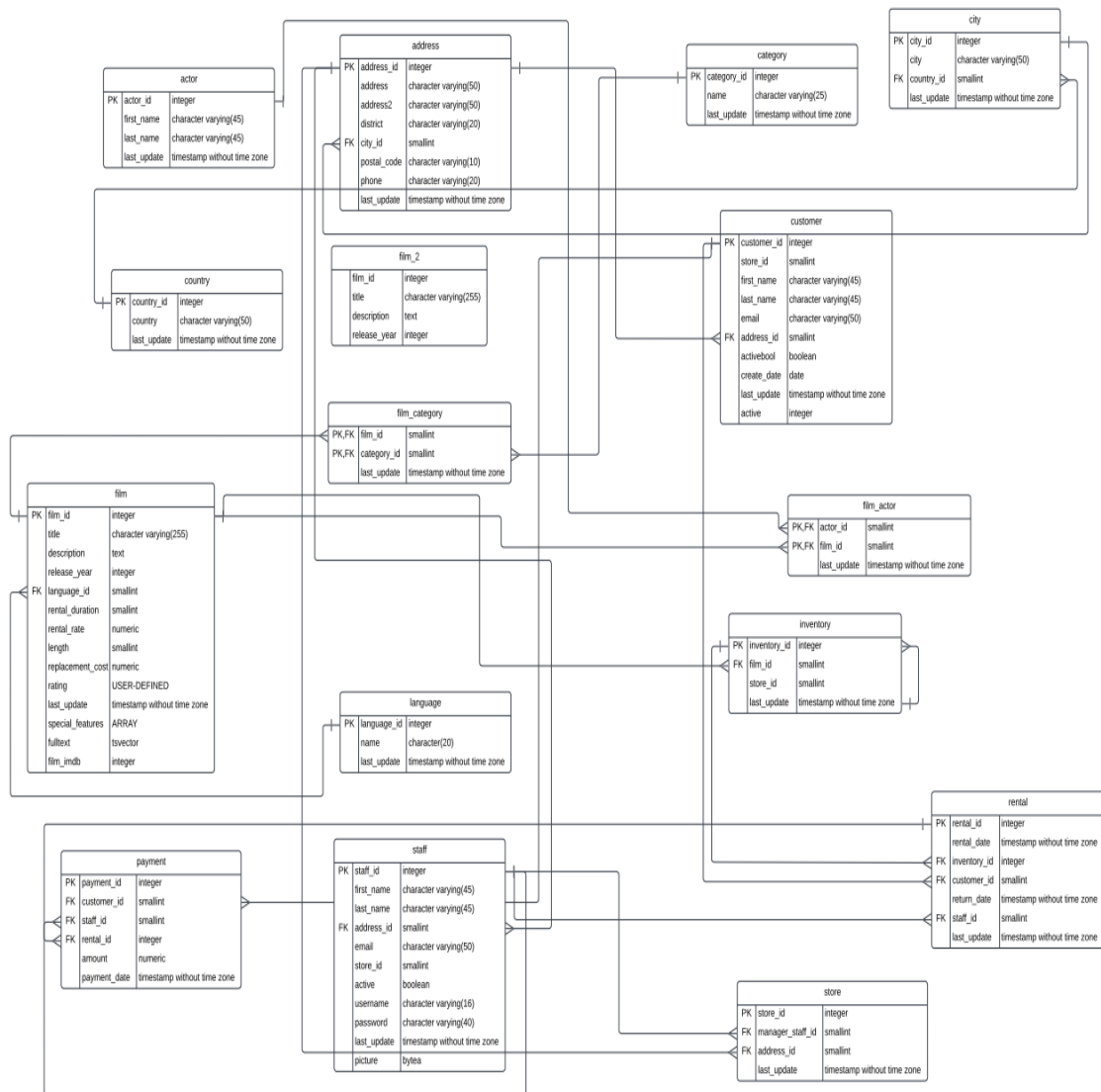# Rockbuster

Data Dictionary 2023

Table of Contents

1. Entity Relationship Diagram(ERD)

2. Fact tables

2.1. Payment table

Unique key	Column	Data Type	Description
PK	payment_id	serial	ID of payment
FK	customer_id	smallint	ID of customer
FK	staff_id	smallint	ID of staff
FK	rental_id	integer	ID of rental
	amount	numeric(5,2)	Cost of rental
	payment_date	Timestamp w/o Time Zone	Date payment was made

Links to

Table	Description
Customer	Foreign key reference to customer table
Staff	Foreign key reference to staff table
Rental	Foreign key reference to rental table

2.2. Rental table

Unique key	Column	Data Type	Description
PK	rental_id	serial	ID of rental
	rental_date	Timestamp w/o Time Zone	Zone Date of rental
FK	inventory_id	integer	ID of inventory
FK	customer_id	smallint	ID of customer
	return_date	Timestamp w/o Time Zone	Date movie was returned
FK	staff_id	smallint	ID of staff
	last_update	Timestamp w/o Time Zone	Last update of table

Links to

Table	Description
Inventory	Foreign key reference to inventory table
Customer	Foreign key reference to customer table
Staff	Foreign key reference to staff table

Links from

Table	Description
Payment	Foreign key reference to payment table

3.Dimension table

3.1. Address Table

Unique key	Column	Data Type	Description
PK	address_id	serial	ID of address
	address	character varying (50)	Address line 1
	address2	character varying (50)	Address line 2
	district	character varying (20)	District
FK	city_id	smallint	ID of city
	postal_code	character varying (10)	Postal code
	phone	character varying (20)	Phone number
	last_update	Timestamp w/o Time Zone	Last update of table

Links to

Table	Description
City	Foreign key reference to city table

Links from

Table	Description
Customer	Foreign key reference to customer table
Staff	Foreign key reference to staff table
Store	Foreign key reference to store table

3.2. Category Table

Unique key	Column	Data Type	Description
PK	category_id	serial	ID of category
	name	character varying (25)	Name of category

	last_update	Timestamp w/o Time Zone	Last update of table

Links from

Table	Description
Film_category	Foreign key reference to film_category table

3.3. City Table

Unique key	Column	Data Type	Description
PK	city_id	serial	ID of city
	city	character varying (50)	City name
FK	country_id	smallint	ID of country
	last_update	Timestamp w/o Time Zone	Last update of table

Links to

Table	Description
Country	Foreign key reference to country table

Links from

Table	Description
Address	Foreign key reference to address table

3.4. Country Table

Unique key	Column	Data Type	Description
PK	country_id	serial	ID of country
	country	character varying (50)	Country name
	last_update	Timestamp w/o Time Zone	Last update of table

Links from

Table	Description
City	Foreign key reference to city table

3.5. Customer Table

Unique key	Column	Data Type	Description
PK	customer_id	serial	ID of customer
	store_id	smallint	ID of store
	first_name	character varying (45)	Customer first name
	last_name	character varying (45)	Customer last name
	email	character varying (50)	Customer email address
FK	address_id	smallint	ID of address
	activebool	Boolean	Whether customer is active
	create_date	date	Date customer first created
	last_udate	Timestamp w/o Time Zone	Last update of table
	active	Integer	Customer status (Active = 1)

Links to

Table	Description
Address	Foreign key reference to address table

Links from

Table	Description
Payment	Foreign key reference to payment table
Rental	Foreign key reference to rental table

3.6. Film_actor Table

Unique key	Column	Data Type	Description
PK/FK	actor_id	Smallint	ID for actor
PK/FK	film_id	Smallint	ID for film
	last_update	Timestamp w/o Time Zone	Last update of table

Links to

Table	Description
Actor	Foreign key reference to actor table
Film	Foreign key reference to film table

3.7. Film_category Table

Unique key	Column	Data Type	Description
PK/FK	film_id	smallint	ID of film
PK/FK	category_id	smallint	Category of film
	last_update	Timestamp w/o Time Zone Last	update of table

Links to

Table	Description
Category	Foreign key reference to category table
Film	Foreign key reference to film table

3.8. Inventory Table

Unique key	Column	Data Type	Description
PK	inventory_id	serial	ID for inventory item
FK	film_id	smallint	ID for film
	store_id	smallint	ID for store
	last_update	Timestamp w/o Time Zone	Last update of table

Links to

Table	Description
Film	Foreign key reference to film table

Links from

Table	Description
Rental	Foreign key reference to rental table

3.9. Language Table

Unique key	Column	Data Type	Description
PK	language_id	serial	ID of language
	name	character (20)	Name of language
	last_update	Timestamp w/o Time Zone	Last update of table

Links from

Table	Description
Film	Foreign key reference to film table

3.10. Staff Table

Unique key	Column	Data Type	Description
PK	staff_id	staff_id	ID of staff
	first_name	character varying (45)	staff first name
	last_name	character varying (45)	staff last name
FK	address_id	smallint	ID of address
	email	l character varying (50)	Staff email address
	store_id	smallint	ID of store
	active	boolean	Whether staff is active
	username	character varying (16)	Staff username
	password	character varying (40)	Staff password
	last_update	Timestamp w/o Time Zone	Last update of table
	picture	bytea	Staff photo

Links to

Table	Description
Address	Foreign key reference to address table

Links from

Table	Description
Payment	Foreign key reference to payment table
Rental	Foreign key reference to rental table
Store	Foreign key reference to store table

3.11. Film Table

Unique key	Column	Data Type	Description
PK	film_id	serial	ID for film
	title	character varying (255)	Title of film
	description	text	Description of film

		release_year	year	Year the film was released
FK		language_id	smallint	ID of language
		rental_duration	smallint	Duration of rental
		rental_rate	numeric (4,2)	Rental cost
		length	smallint	Length of film
		replacement_cost	numeric(5,2)	Replacement cost if not returned
		rating	maa_rating	Movie rating
		last_update	Timestamp w/o Time Zone	Last update of table
		special_features	text	Features of film
		fulltext	tsvector	Film index

Links to

Table	Description
Language	Foreign key reference to language table

Links from

Table	Description
Film_actor	Foreign key reference to film_actor table
Inventory	Foreign key reference to inventory table
Film_category	Foreign key reference to film_category table

3.12. Store

Unique key		Column	Data Type	Description
PK		store_id	serial	Staff photo
FK		manager_staff_id	smallint	ID of store
FK		address_id	smallint	ID of manager
		last_update	Timestamp w/o Time Zone	ID of address
				Last update of table

Links to

Table	Description
Staff	Foreign key reference to staff table
Address	Foreign key reference to address table

3.13. Actor

Unique key	Column	Data Type	Description
PK	actor_id	Serial	ID for actor
	first_name	Character varying(45)	Actor first name
	last_name	Character varying(45)	Actor last name
	last_update	Timestamp w/o Time Zone	Last update of table

Links from

Table	Description
Film_actor	Foreign key reference to film_actor table