MOVIE NIGHT

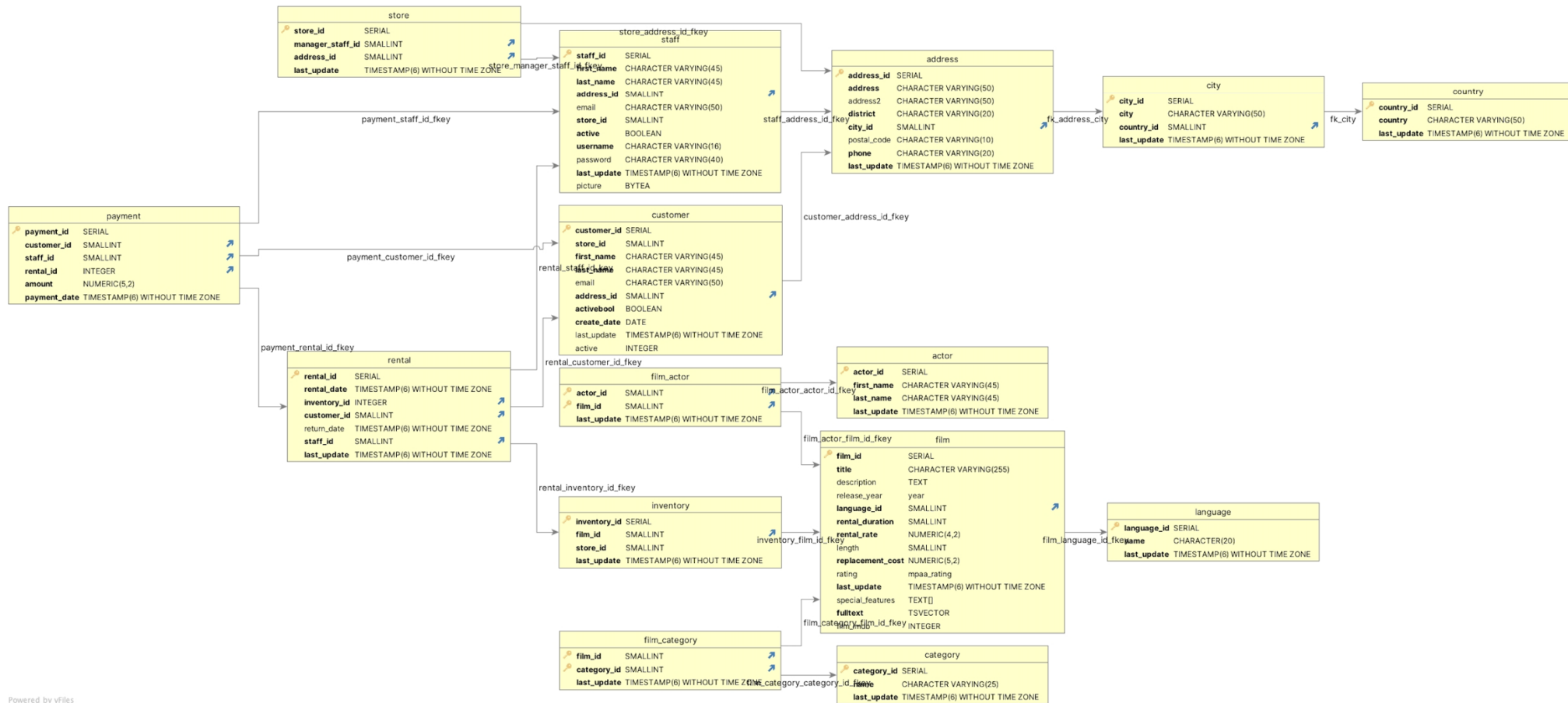# ROCKBUSTERS DATA DICTIONARY

27/07/2023

Table of Contents

1. Entity Relationship Diagram

2. Fact Tables

2.1 Payment Table

Primary Key	Name	Data type	N	Description/ Attributes
🔑	payment_id	serial		unique payment identifier
	customer_id	Smallint		unique customer identifier
	staff_id	Smallint		unique staff identifier
	rental_id	Integer		unique rental identifier
	amount	numeric(5,2)		cost in numerical value
	payment_date	timestamp without time zone		time & date of payment without time zone

Links to:

Table	Join	Description
customer	Payment.customer_id=Customer.customer_id	Foreign key reference to customer table
rental	Payment.rental_id=Rental.rental_id	Foreign key reference to rental table
staff	Payment.staff_id=Staff.staff_id	Foreign key reference to staff table

Links from: There are no links from tables.

Unique Keys:

	Column	Description
🔑	payment_id	unique identifier for payment
🔑	customer_id	unique identifier for customer
🔑	rental_id	unique identifier for rental
🔑	staff_id	unique identifier for staff

2.2 Rental Table

Primary Key	Name	Data Type	N	Description/ Attributes
🔑	rental_id	serial		unique rental identifier
	rental_date	timestamp without time zone		date the film was rented
	inventory_id	Integer		unique inventory identifier
	customer_id	Small int		unique customer identifier
	return_date	timestamp without time zone	N	date the film was returned
	staff_id	Small int		unique staff identifier
	last_update	timestamp without time zone		time when the information was last updated

Links To:

Table	Join	Description
customer	rental.customer_id=customer.customer_id	Foreign key reference to customer table
inventory	rental.inventory_id=inventory.inventory_id	Foreign key reference to inventory table
staff	rental.staff_id=staff.staff_id	Foreign key reference to staff table

Table	Join	Description
payment	rental.rental_id=payment.rental_id	foreign key reference to payment table

Unique Keys:

	Column	Description
🔑	rental_id	unique identifier for rental
🔑	customer_id	unique identifier for customer
🔑	inventory_id	unique identifier for inventory
🔑	staff_id	unique identifier for staff

3. Dimension Tables

3.1 Actor Table

Primary Key	Name	Data Type	N	Description/ Attributes
🔑	actor_id	serial		unique actor identifier
	first_name	character varying (45)		actor's first name
	last_name	character varying (45)		actor's last name
	last_update	timestamp without time zone		date actor was last updated

Links to: There are no links to tables.

Links from:

Table	Join	Description
film_actor	actor.actor_id=film_actor.actor_id	foreign key reference to film_actor table

Unique Keys:

	Column	Description
🔑	actor_id	unique actor identifier

3.2 Address Table:

Primary Key	Name	Data type	N	Description/ Attributes
🔑	address_id	serial		unique address identifier
	address	character varying (50)		first line of address
	address2	charactervarying (50)	N	second line of address
	district	character varying (20)		address district
	city_id	smallint		unique city identifier
	postal_code	character varying (10)	N	post code for the address
	phone	character varying (20)		phone number for the address
	last_update	timestamp without time zone		last time address was updated

Links to:

Table	Join	Description
city	city.city_id=address.city_id	Foreign key that references the city table

Links from:

Table	Join	Description
store	store.address_id=address.address_id	Foreign key that references the store table
staff	staff.address_id=address.address_id	Foreign key that references the staff table
customer	customer.address_id=address.address_id	Foreign key that references the customer table

Unique Keys:

	Column	Description
🔑	address_id	unique address identifier
🔑	city_id	unique city identifier associated with address

3.3 Category table:

Primary Key	Name	Data type	N	Description/ Attributes
🔑	category_id	serial		unique category identifier
	name	cha racter varying (25)		name of the category
	last_update	timestamp without time zone		last time category was updated

Links to: There are no links to tables.

Links from:

Table	Join	Description
film_category	film_category.category_id=category.category_id	Foreign key that references the film_category table

Unique Keys:

	Column	Description
🔑	category_id	unique category identifier

3.4 City table:

Primary Key	Name	Data type	N	Description/ Attributes
🔑	city_id	serial		unique city identifier
	city	character varying (50)		name of the city
	country_id	smallint		unique country identifier
	last_update	timestamp without time zone		last time city was updated

Links to:

Table	Join	Description
country	country.country_id=city.country_id	Foreign key reference to country table

Links from:

Table	Join	Description
address	address.city_id=city.city_id	Foreign key reference to address table

Unique keys:

	Column	Description
🔑	city_id	unique city identifier
🔑	country_id	unique country identifier associated with city

3.5 Country table:

Primary Key	Name	Data type	N	Description/ Attributes
🔑	country_id	serial		unique country identifier
	country	character varying (50)		name of the country
	last_update	timestamp without time zone		last time country was updated

Links to: There are no links to tables.

Links from:

Table	Join	Description
city	city.country_id=country.country_id	Foreign key reference to city table

Unique Keys:

	Column	Description
🔑	country_id	unique country identifier

3.6 Customer table:

Primary Key	Name	Data type	N	Description/ Attributes
🔑	customer_id	serial		unique customer identifier
	store_id	smallint		unique store identifier
	first_name	character varying (45)		customer's first name
	second_name	character varying (45)		customer's second name
	e-mail	character varying (50)	N	customers e-mail address
	address_ id	smallint		unique address identifier
	activebool	boolean		whether customer is active or not
	create_date	date		date customer's file was created
	last_update	timestamp without time zone	N	last time customer details were updated
	active	Integer	N	active status represented by 0 or 1

Links to:

Table	Join	Description
address	address.address_id=customer.address_id	Foreign key reference to address table

Links from:

Table	Join	Description
rental	rental.customer_id=customer.customer_id	Foreign key reference to rental table
payment	payment.customer_id=customer.customer_id	Foreign key reference to payment table

Unique keys:

	Column	Description
🔑	customer_id	unique customer identifier
🔑	address_id	unique address identifier associated with customer

3.7 Film table:

Primary Key	Name	Data type	N	Description/ Attributes
🔑	film_id	serial		unique film identifier
	title	character varying (255)		title of the film
	description	text	N	film description
	release_year	Integer	N	year the film was released
	language_id	smallint		unique language identifier
	rental_duration	smallint		duration of the film rental
	rental_rate	numeric(4,2)		cost of renting the film
	length	smallint	N	length of the film
	replacement_cost	numeric(5,2)		cost of replacing the film
	rating	mpaa_rating	N	film rating
	last_update	timestamp without time zone		last time the film profile was updated
	special_features	text	N	special features a bout the film
	fulltext	tsvector		index, information about words and their location

Links to:

Table	Join	Description
language	language.language_id=film.language_id	Foreign key reference to language table

Links from:

Table	Join	Description
inventory	inventory.film_id=film.film_id	Foreign key reference to inventory table
film_category	film_category.film_id=film.film_id	Foreign key reference to film_category table
film_actor	film_actor.film_id=film.film_id	Foreign key reference to film_actor table

	Column	Description
🔑	film_id	Unique film identifier
🔑	language_id	Unique language identifier associated with film

3.8 Film_actor table:

Primary Key	Name	Data type	N	Description/ Attributes
🔑	actor id	sma llint		unique actor identifier
🔑	film id	sma llint		unique film identifier
	last_update	timestamp without time zone		last time the film_actor was updated

Links to:

Table	Join	Description
film	film.film_id=film_actor.film_id	Foreign key reference to film table
actor	actor.actor_id=film_actor.actor_id	Foreign key reference to actor table

Links from: There are no links from tables.

Unique keys:

	Column	Description
🔑 / 🔑	actor_id	unique actor identifier and also foreign key
🔑 / 🔑	film_id	unique film identifier and also foreign key

3.9 Film_category table:

Primary Key	Name	Data type	N	Description/ Attributes
🔑	film_id	smallint		unique film identifier
🔑	category_id	smallint		unique category identifier
	last_update	timestamp without time zone		last time the film category was updated

Links to:

Table	Join	Description
film	film.film_id=film_category.film_id	Foreign key reference to film table
category	category.category_id=film_category.category_id	Foreign key reference to category table

Links from: There are no links from tables.

Unique keys:

	Column	Description
🔑 / 🔑	film_id	unique film identifier and also foreign key
🔑 / 🔑	category_id	unique category identifier and also foreign key

3.10 Inventory table:

Primary Key	Name	Data type	N	Description/ Attributes
🔑	inventory_id	Integer		unique film identifier
	film_id	smallint		unique film identifier
	store id	smallint		unique store identifier
	last_update	timestamp without time zone		last time the film inventory was updated

Links to:

Table	Join	Description
film	film.film_id=inventory.film_id	Foreign key reference to film table

Links from:

Table	Join	Description
rental	rental.inventory_id=inventory.inventory_id	Foreign key reference to rental table

Unique keys:

	Column	Description
🔑	inventory_id	Unique inventory identifier
🔑	film_id	Unique film identifier associated with inventory

3.11 Language table:

Primary Key	Name	Data type	N	Description/ Attributes
🔑	language_id	serial		unique film identifier
	name	character varying (20)		name of the language
	last_update	timestamp without time zone		last time the language was updated

Links to: There are no links to tables.

Links from:

Table	Join	Description
film	film.language_id=language.language_id	Foreign key reference to film table

Unique keys:

	Column	Description
🔑	language_id	Unique language identifier

3.12 Staff table:

Primary Key	Name	Data type	N	Description/ Attributes
🔑	staff_id	serial		unique staff identifier
	first_name	character varying (45)		staff's first name
	last_name	character varying (45)		staff's last name
	address_id	smallint		unique address identifier
	email	character varying (50)	N	staff's email address
	store_id	smallint		unique store identifier
	active	boolean		staff's employment status
	username	character varying (16)		staff's user name
	password	character varying (40)	N	staff's password
	last_update	timestamp without time zone		last time the staff information was updated
	picture	bytea	N	staff's picture

Links to:

Table	Join	Description
address	address.address_id=staff.address_id	Foreign key reference to address table

Links from:

Table	Join	Description
store	store.address_id=staff.address_id	Foreign key reference to staff table
rental	rental.staff_id=staff.staff_id	Foreign key reference to rental table
payment	payment.staff_id=staff.staff_id	Foreign key reference to payment table

Unique keys:

	Column	Description
🔑	staff_id	Unique staff identifier
🔑	address_id	Unique staff address identifier associated with staff

3.13 Store table:

Primary Key	Name	Data Type	N	Description/ Attributes
🔑	store id	serial		unique store identifier
	manager_staff_id	smallint		unique identifier of staff that manages the store
	address_id	smallint		unique store's address identifier
	last_update	timestamp without time zone		last time the store information was updated

Links to:

Table	Join	Description
staff	staff.staff_id=store.manager_staff_id	Foreign key reference to staff table
address	address.address_id=store.address_id	Foreign key reference to address table

Links from: There are no links from tables.

Unique keys:

	Column	Description
🔑	strore_id	unique store identifier
🔑	manager_staff_id	unique identifier of staff that manages the store
🔑	address_id	unique store's address identifier