

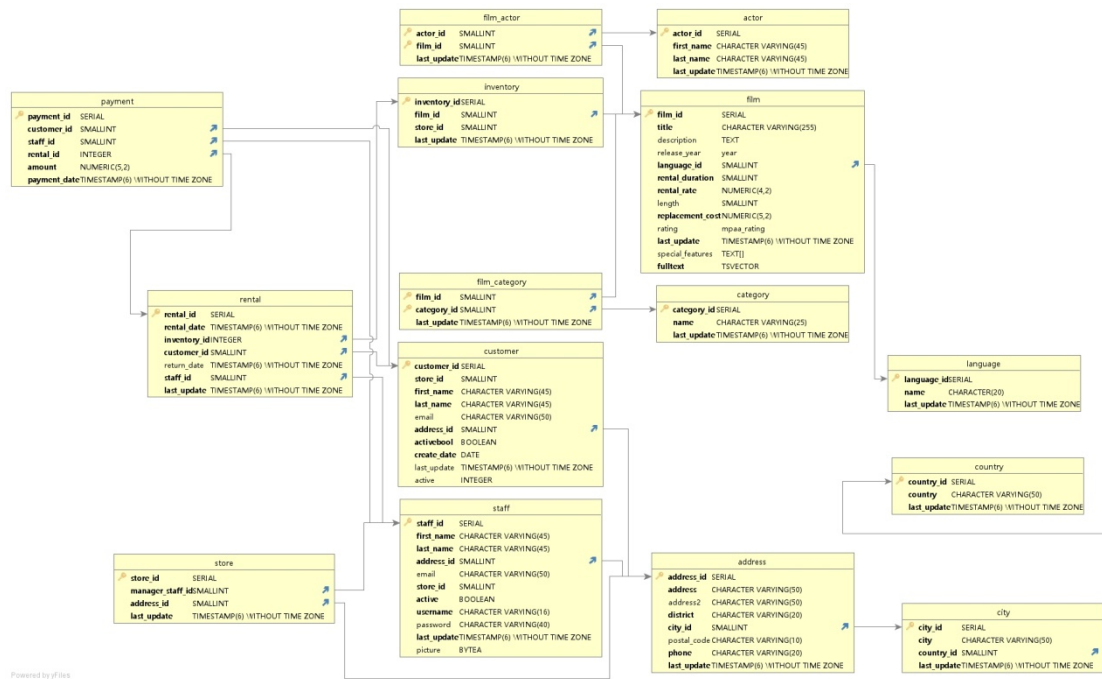
# Data Dictionary

## - for Rockbuster Stealth

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3. Legend	
👉 -- Primary key	
🔗-- foreign key	

# 1. Entity Relationship Diagram



## 2. Tables

### 2.1 Fact tables

#### 2.1.1 Table payment

Columns:

	Columns	Data type	Description
🔑	payment_id	SERIAL	Primary key- a unique identifier for customer payments that are settled electronically
➦	customer_id	SMALLINT	a unique number on your invoice that is used to reference your account.
➦	staff_id	SMALLINT	a unique code assigned by employers to individual employees
➦	rental_id	INTEGER	a unique number to obtain a rental agreement
	amount	NUMERIC(5,2)	the number of the products that the customer bought
	payment_date	TIMESTAMP(6)WITHOUT TIME ZONE	the date when the product was paid

Link to

Table	Join	Title/name/description
rental	On rental_id	Foreign key constraint referencing rental.rental_id
customer	On customer_id	Foreign key constraint referencing customer.customer_id
staff	On staff_id	Foreign key constraint referencing staff.staff_id

#### 2.1.2 Table store

Columns:

	Columns	Data type	Description
🔑 ➦	store_id	SERIAL	a unique number for identifying the store
	manager_staff_id	SMALLINT	a unique code signed by employers to the individual employees
➦	address_id	SMALLINT	a unique number for identifying the address of store
	last_update	TIMESTAMP(6)WITHOUT TIME ZONE	the date when the above information was latest updated

Link to

Table	Join	Title/name/description
address	On address_id	Foreign key constraint referencing address.address_id
staff	On staff_id	Foreign key constrain referencing staff.staff_id

### 2.1.3 Table film\_category

Columns:

	Columns	Data type	Description
♀ 🔗	film_id	SMALLINT	A unique number for identifying the film
♀ 🔗	category_id	SMALLINT	A unique number for identifying the category
	last_update	TIMESTAMP(6)WITHOUT TIME ZONE	The data when the above information was latest updated

Link to:

Table	Join	Title/name/description
flim	On film_id	Foreign key constraint referencing film.film_id
category	On category_id	Foreign key constraint referencing category.category_i

### 2.1.4 Table film\_actor

Columns:

	Columns	Data type	Description
♀ 🔗	actor_id	SMALLINT	a unique number for identifying the actor
♀ 🔗	film_id	SMALLINT	a unique number for identifying the film
	last_update	TIMESTAMP(6), WITHOUT TIME ZONE	the date when the above information was latest updated

Link to

Table	Join	Title/name/description
actor	On actor_id	Foreign key constraint referencing actor.actor_id
film	On film_id	Foreign key constrain referencing film.film_id

## 2.2 Dimension Tables

### 2.2.1 Table customer

Columns:

	Columns	Data type	Description
♀	customer_id	SERIAL	a unique number on your invoice that is used to reference your account.
	store_id	SMALLINT	a unique number for identifying the store
	first_name	CHARACTER VAR(45)	Given name
	last_name	CHAR VAR(45)	Family name
	email	CHARACTER VAR(50)	The email address
↗	address_id	SAMLLINT	A unique number for identifying the address
	activebool	BOOLEAN	<u>Telling if the customer rents the product</u>
	last_update	TIMESTAMP(6), WITHNO TIME ZONE	The data when the information in this table was latest updated
	active	INTEGER	<u>Telling if the customer is renting some products</u>

Link to

Table	Join	Title/name/description
address	On address_id	Foreign key constraint referencing address.address_id

Link from

Table	Join	Title/name/description
rental	On customer_id	Foreign key of 'rental' constraint referencing customer.customer_id

### 2.2.2 Table rental

Columns:

	Columns	Data type	Description
♀	Rental_id	SMALLINT	a unique number to obtain a rental agreement
	Rental_date	TIMESTAMP(6), WITHNO TIME ZONE	The data when the product was rent
↗	Inventory_id	INTEGER	A unique number signed to the inventory item
↗	Customer_id	SMALLINT	a unique number on your invoice that is used to reference your account.
	Return_date	TIMESTAMP(6), WITHNO TIME ZONE	The data when the product was returned
↗	Staff_id	SMALLINT	a unique code assigned by employers to individual employees
	Last_update	TIMESTAMP(6), WITHNO TIME ZONE	The data when the above information was latest updated

Link to

Table	Join	Title/name/description
customer	On customer_id	Foreign key constraint referencing customer.customer_id
inventory	On inventory_id	Foreign key constraint referencing inventory.inventory_id
staff	On staff_id	Foreign key constrain referencing staff.staff_id

Link from

Table	Join	Title/name/description
payment	On rental_id	Foreign key of 'payment' constraint referencing rental.rental_id

## 2.2.3 Table staff

Columns:

	Columns	Data type	Description
♀	Staff_id	SMALLINT	a unique code assigned by employers to individual employees
	First_name	CHAR VAR(45)	Given name
	Last_name	CHAR VAR(45)	Family name
➔	Address_id	SMALLINT	A unique number for identifying the address
	Email	CHAR VAR(50)	Email address
	Store_id	SMALLINT	A unique number for identifying the store
	Active	BOOLEAM	<u>Telling if he was working__</u>
	Username	CHAR VAR(40)	an identification used by a person with access to the system
	Password	CHAR VAR(40)	a secret word or phrase that must be used to gain admission to a place.
	Last_update	TIMESTAMP(6),WITHNO TIME ZONE	The date when the information was latest updated
	picture	BYTEA	A photo of the staff

Link to

Table	Join	Title/name/description
address	On address_id	Foreign key constraint referencing address.address_id

Link from

Table	Join	Title/name/description
store	On staff_id	Foreign key of 'store' constraint referencing staff.satff_id
rental	On staff_id	Foreign key of 'rental' constraint referencing staff.satff_id
payment	On staff_id	Foreign key of 'payment' constrain referencing staff.staff_id

## 2.2.4 Table inventory

Columns:

	Columns	Data type	Description
♀	Inventory_id	SERIAL	A unique number signed to the inventory item
↗	film_id	SMALLINT	A unique number signed to the film
	store_id	SMALLINT	A unique number for identifying the store
	Last_update	TIMESTAMP(6),WITHNO TIME ZONE	The date when the information was latest updated

Link to

Table	Join	Title/name/description
film	On film_id	Foreign key constrain referencing film.film_id

Link from

Table	Join	Title/name/description
rental	On inventory_id	Foreign key of 'rental' constraint referencing inventory.inventory_id

## 2.2.5 Table address

Columns:

	Columns	Data type	Description
♀	address_id	SERIAL	A unique code for identifying the address
	address	CHAR VAR(50)	Address
	address2	CHAR VAR(50)	Alternative address
	district	CHAR VAR(20)	District of the address
↗	city_id	SMALLINT	A unique number for identifying the city
	Postal_code	CHAR VAR(10)	Unique numeric or alphanumeric code that identifies a geographic location and address.
	Phone	CHAR VAR(20)	A phone number for contacting
	Last_update	TIMESTAMP(6),WITHNO TIME ZONE	The date when the information was latest updated

Link to

Table	Join	Title/name/description
city	On city_id	Foreign key constraint referencing city.city_id

## 2.2.6 Table city

Columns:

	Columns	Data type	Description
♀	city_id	SERIAL	A unique number for identifying the city
	city	CHAR VAR(50)	The name of the city
↗	country_id	SMALLINT	A unique number for identifying the country
	Last_updat	TIMESTAMP(6),WITHNO TIME ZONE	The date when the information was latest updated

Link to

Table	Join	Title/name/description
country	On country_id	Foreign key constraint referencing country.country_id

Link from

Table	Join	Title/name/description
address	On city_id	Foreign key of 'address' constraint referencing address.city_id

## 2.2.7 Table country

Columns:

	Columns	Data type	Description
♀	country_id	SERIAL	A unique number for identifying the country
	country	CHAR VAR(20)	The name of the country
	Last_update	TIMESTAMP(6),WITHNO TIME ZONE	The date when the information was latest updated

Link from

Table	Join	Title/name/description
City	On country_id	Foreign key of 'city' constraint referencing country.country_id



## 2.2.8 Table film

Columns:

	Columns	Data type	Description
♀	Film_id	SERIAL	a unique number for identifying the film
	Title	CHAR VAR(255)	The name of the film
	Description	TEXT	An overview about the film
	Release_year	Year	The year when the film is available
↗	Language_id	SMALLINT	A unique code for identifying the language
	Rental_duration	SMALLINT	How long is the renting
	Rental_rate	NUMERIC(4,2)	A charge for renting this film
	Length	SMALLINT	How many minutes are the film
	Replacement_cost	NUMERIC(5,2)	the cost to replace this film on the same premises with other films
	Rating	Mpaa_rating	A rating system to rate a motion picture's suitability for certain audiences based on its content
	Last_update	TIMESTAMP(6),WITHNO TIME ZONE	The date when the information was latest updated
	Special_features	TEXT[]	Main features of this film
	Fulltext	TSVECTOR	Short description of this film

Links to

Table	Join	Title/name/description
language	On language_id	Foreign key constraint referencing language.language_id

Links from

Table	Join	Title/name/description
film_factor	On film_id	Foreign key constraint referencing film.film_id
inventory	On film_id	Foreign key constraint referencing film.film_id
film_category	On film_id	Foreign key constraint referencing film.film_id

## 2.2.9 Table actor

Columns

	Columns	Data type	Description
♀	actor_id	SERIAL	A unique number for identifying the actor
	first_name	CHAR VAR(45)	Given name
	last_name	CHAR VAR(45)	Family name
	last_update	TIMESTAMP(6), WITHNO TIME ZONE	The date when the information was latest updated

Link from

Table	Join	Title/name/description
flim_actor	On actor_id	Foreign key of 'film_actor' constraint referencing actor.actor_id

### 2.2.10 Table category

Columns:

	Columns	Data type	Description
♀	category_id	SERIAL	A unique number for identifying the category
	name	CHAR VAR(25)	The type of the category
	last_updat	TIMESTAMP(6),WITHNO TIME ZONE	The date when the information was latest updated

Link from

Table	Join	Title/name/description
flim_category	On category_id	Foreign key of 'film_category' constraint referencing category.category_id

### 2.2.11 Table language

Columns:

	Columns	Data type	Description
♀	language_id	SERIAL	A unique number for identifying the language
	name	CHAR VAR(20)	The name of the language
	last_update	TIMESTAMP(6),WITHNO TIME ZONE	The date when the information was latest updated

Link from

Table	Join	Title/name/description
Flim	On language_id	Foreign key of 'film' constraint referencing language.language_id