

# **Rockbuster**

## **Data Dictionary**



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## Legend

-  Primary key
-  Secondary key

Note: Primary and secondary keys are by default unique keys.

# 1. Entity Relationship Diagram (ERD)



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## 2. Fact Tables

### 2.1 film\_actor Table

	Columns	Data Type	Description
🔑	actor_id	SMALLINT	Unique identifier of actors
🔑	film_id	SMALLINT	Unique identifier of films
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of film_actor table entries

#### Links to

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

### 2.2 film\_category Table

	Columns	Data Type	Description
🔑	film_id	SMALLINT	Unique identifier of films
🔑	category_id	SMALLINT	Unique identifier of film categories
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of film_category table entries

#### Links to

	Table	Join
	category	film_category.category_id = category.category_id
	film	film_category.film_id = film.film_id



### 2.3 payment Table

	Columns	Data Type	Description
🔑	payment_id	SERIAL	Unique identifier of rental, customer, staff payments
🔑	customer_id	SMALLINT	Unique identifier of customers
🔑	staff_id	SMALLINT	Unique identifier of staff
🔑	rental_id	INTEGER	Unique identifier of film rentals
	amount	NUMERIC(5,2)	Amounts paid to or received.
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Rental, customer, staff payment dates.

## Links to

	Table	Join
	customer	payment.customer_id = customer.customer_id
	rental	payment.rental_id = rental.rental_id
	staff	payment.staff_id = staff.staff_id

## 2.4 store Table

	Columns	Data Type	Description
	store_id	SERIAL	Unique identifier of stores
	manager_staff_id	SMALLINT	Unique identifier of manager staff
	address_id	SMALLINT	Unique identifier store, customer, staff addresses
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of stores table entries

## Links to

	Table	Join
	address	store.address_id = address.address_id
	staff	store.store_id = staff.store_id

## 3. Dimension Tables

### 3.1 actor Table

	Columns	Data Type	Description
🔑	actor_id	SERIAL	Unique identifier of actors
	first_name	CHARACTER VARYING(45)	first name of actors
	last_name	CHARACTER VARYING(45)	Last name of actors
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of actor table entries

#### Linked from

	Table	Join
	film_actor	film_actor.actor_id = actor.actor_id

### 3.2 address Table

	Columns	Data Type	Description
🔑	address_id	SERIAL	Unique identifier of customer and staff addresses
	address	CHARACTER VARYING(50)	Customer and staff addresses
	address2	CHARACTER VARYING(50)	Customer and staff addresses2
	district	CHARACTER VARYING(20)	Customer and staff address districts
🔑	city_id	SMALLINT	Unique identifier of customer and staff address cities
	postal_code	CHARACTER VARYING(10)	Customer and staff address postal codes
	phone	CHARACTER VARYING(20)	Customer and staff phone numbers
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of address table entries

#### 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

### 3.3 category Table

	Columns	Data Type	Description
🔑	category_id	SERIAL	Unique identifier of categories
	name	CHARACTER VARYING(45)	Name of categories
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of category table entries

#### Linked from

	Table	Join
	film_category	film_category.category_id = category.category_id

### 3.4 city Table

	Columns	Data Type	Description
🔑	city_id	SERIAL	Unique identifier of address cities
	city	CHARACTER VARYING(50)	Address cities
🔑	country_id	SMALLINT	Unique identifier of address countries
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of city table entries

#### Links to

	Table	Join
	country	city.country_id = country.country_id

#### Linked from

	Table	Join
	address	address.city_id = city.city_id

### 3.5 country Table

	Columns	Data Type	Description
🔑	country_id	SERIAL	Unique identifier of address countries
	country	CHARACTER VARYING(50)	Address countries
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of country table entries

#### Linked from

	Table	Join
	city	city.country_id = country.country_id



### 3.6 customer Table

	Columns	Data Type	Description
🔑	customer_id	SERIAL	Unique identifier of customers
🔑	store_id	SMALLINT	Unique identifier of stores
	first_name	CHARACTER VARYING(45)	Customer first names
	last_name	CHARACTER VARYING(45)	Customer last names
	email	CHARACTER VARYING(50)	Customer email addresses
🔑	address_id	SMALLINT	Unique identifier of customer addresses
	activebool	BOOLEAN	Information on customer states (i.e. whether it is an active/inactive customer member)
	create_date	DATE	Customer create date
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of customer table entries
	active	INTEGER	Information on customer states (i.e. whether it is an active/inactive customer member)

#### 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

### 3.7 film Table

	Columns	Data Type	Description
🔑	film_id	SERIAL	Unique identifier of films
	title	CHARACTER VARYING(225)	Film titles
	description	TEXT	Film descriptions
	release_year	year	Film release years
🔑	language_id	SMALLINT	Unique identifier of film languages
	rental_duration	SMALLINT	Film rental durations
	rental_rate	NUMERIC(4,2)	Film rental rates
	length	SMALLINT	Film lengths
	replacement_cost	NUMERIC(5,2)	Film replacement costs
	rating	mppa_rating	Film ratings
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of film table entries
	special_features	TEXT[]	Type of films' special features
	fulltext	TSVECTOR	Keywords of film




## Links to

	Table	Join
	language	film.language_id = language.language_id

## Linked from

	Table	Join
	film_actor	film_actor.film_id = film.film_id
	film_category	film_category.film_id = film.film_id
	inventory	inventory.film_id = film.film_id

## 3.8 inventory Table

	Columns	Data Type	Description
	inventory_id	SERIAL	Unique identifier of inventories
	film_id	SMALLINT	Unique identifier of films
	store_id	SMALLINT	Unique identifier of stores
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of inventory table entries


## Links to

	Table	Join
	film	inventory.film_id = film.film_id

## Linked from

	Table	Join
	rental	rental.inventory_id = inventory.inventory_id

## 3.9 language Table

	Columns	Data Type	Description
	language_id	SERIAL	Unique identifier of film languages
	name	CHARACTER(20)	Film language names
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of language table entries

## Linked from

	Table	Join
	film	film.language_id = language.language_id

### 3.10 rental Table

	Columns	Data Type	Description
🔑	rental_id	SERIAL	Unique identifier of rentals
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Fental dates
🔑	inventory_id	INTEGER	Unique identifier of inventories
🔑	customer_id	SMALLINT	Unique identifier of customers
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Fental return dates
🔑	staff_id	SMALLINT	Unique identifier of staff
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of rental activities / rental table entries

#### Links to

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

#### Linked from

	Table	Join
	payment	payment.rental_id = rental.rental_id

### 3.11 staff Table

	Columns	Data Type	Description
🔑	staff_id	SERIAL	Unique identifier of staff
	first_name	CHARACTER VARYING(45)	Staff first names
	last_name	CHARACTER VARYING(45)	Staff last names
🔑	address_id	SMALLINT	Unique identifier of staff addresses
	email	CHARACTER VARYING(50)	Staffs email addresses
🔑	store_id	SMALLINT	Unique identifier of stores
	active	BOOLEAN	Information on staff employment states (i.e. whether it is an active/inactive staff member)
	username	CHARACTER VARYING(16)	Staff usernames
	password	CHARACTER VARYING(40)	Staff passwords
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of staff table entries
	picture	BYTEA	Staff pictures

#### 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.store_id = staff.store_id