# ACHIEVEMENT 3: Rockbuster Data Dictionary

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# 1. Legend

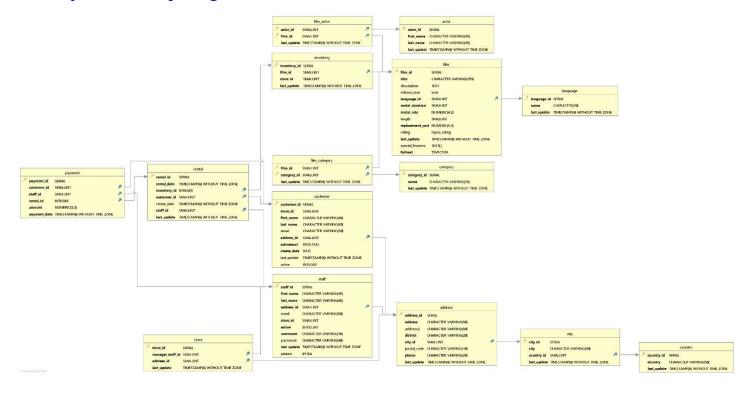


Primary key



Unique key

# 2. Entity Relationship Diagram



#### 3. Tables

The Rockbuster database has a snowflake schema, as evident by the many tables linking to other tables. The following sections list the fact and dimension tables with their columns, data types, and descriptions.

#### 3.1. Fact Tables

#### 3.1.1. Table: payment

#### Columns

	Name	Data Type	Description
9	payment_id	SERIAL	The unique payment identification number
	customer_id	SMALLINT	The unique customer identification number
	staff_id	SMALLINT	The unique staff identification number
	rental_id	INTEGER	The unique rental identification number
	amount	NUMERIC(5,2)	Cost of each payment
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of each payment

#### Links to

Table	Join	Description
customer	<pre>payment.customer_id = customer.customer_id</pre>	Foreign key constraint referencing customer
staff	<pre>payment.staff_id = staff.staff_id</pre>	Foreign key constraint referencing staff
rental	<pre>payment.rental_id = rental.rental_id</pre>	Foreign key constraint referencing rental

#### Unique Keys

	Column	Name/Description
9	payment_id	The unique payment identification number

#### 3.1.2. Table: rental

#### Columns

	Name	Data Type	Description
9	rental_id	SERIAL	The unique rental identification number
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of each rental without time zone noted
	inventory_id	INETGER	The unique inventory identification number
	customer_id	SMALLINT	The unique customer identification number
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of each rental return without time zone noted
	staff_id	SMALLINT	The unique staff identification number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of when the entry was last updated

#### Links to

Table	Join	Description
Tubic	0011	Beschpash

inventory	<pre>rental.inventory_id = inventory.inventory_id</pre>	Foreign key constraint referencing inventory
customer	rental.customer_id = customer.customer_id	Foreign key constraint referencing customer
staff	rental.staff_id = staff.staff_id	Foreign key constraint referencing staff

## Links from

Table	Join	Description
payment	<pre>rental.rental_id = payment.rental_id</pre>	Foreign key constraint referencing paymetn

## Unique Keys

	Column	Name/Description
-	rental_id	The unique rental identification number

#### 3.1.3. Table: store

#### Columns

	Name	Data Type	Description
9	store_id	SERIAL	The unique store identification number
	manager_staff_id	SMALLINT	The unique staff manager identification number
	address_id	SMALLINT	The unique address identification number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of when the entry was last updated

#### Links to

Table	Join	Description
staff	<pre>store.manager_staff_id = staff.staff_id</pre>	Foreign key constraint referencing staff
address	<pre>store.address_id = address.address_id</pre>	Foreign key constraint referencing address

# Unique Keys

	Column	Name/Description
9	store_id	The unique store identification number

## 3.1.4. Table: film\_actor

#### Columns

	Name	Data Type	Description
9	actor_id	SMALLINT	The unique actor identification number
9	film_id	SMALLINT	The unique film identification number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of when the entry was last updated

#### Links to

Table	Join	Description
actor	<pre>film_actor.actor_id = actor.actor_id</pre>	Foreign key constraint referencing actor
film	film_actor.film_id = film.film_id	Foreign key constraint referencing film

## Unique Keys

	Column	Name/Description	
actor_id The unique actor identification number		The unique actor identification number	
9	film_id	The unique film identification number	

## 3.1.5. Table: inventory

#### Columns

Name		Data Type	Description
9	inventory_id	SERIAL	The unique inventory identification number
	film_id	SMALLINT	The unique film identification number
	store_id	SMALLINT	The store identification number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of when the entry was last updated

#### Links to

Table	Join	Description
film	<pre>inventory.film_id = film.film_id</pre>	Foreign key constraint referencing film

## Links from

Table	Join	Description
rental	<pre>inventory.inventory_id = rental.inventory_id</pre>	Foreign key constraint referencing rental

## Unique Keys

Column		Name/Description
inventory_id The unique inventory identification r		The unique inventory identification number

## 3.1.6. Table: film\_category

#### Columns

	Name	Data Type	Description
9	film_id	SMALLINT	The unique film identification number
9	category_id	SMALLINT	The unique category identification number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of when the entry was last updated

#### Links to

Table	Join	Description
film	film_category.film_id = film.film_id	Foreign key constraint referencing film
category	<pre>film_category.category_id =   category.category_id</pre>	Foreign key constraint referencing category

## Unique Keys

Column		Name/Description
film_id The unique film identification number		The unique film identification number
category_id The unique category identification number		The unique category identification number

#### 3.2. Dimension Tables

#### 3.2.1. Table: customer

#### Columns

	Name	Data Type	Description
9	customer_id	SERIAL	Unique customer identification number
	store_id	SMALLINT	Identification number of the store the customer purchased from
	first_name	CHARACTER VARYING(45)	The customer's first name
	last_name	CHARACTER VARYING(45)	The customer's last name
	email	CHARACTER VARYING(45)	the customer's email address
	address_id	SMALLINT	The customer's unique address identification number
	activebool	BOOLEAN	Boolean value to represent whether the customers account is active
	create_date	DATE	Date the account was created
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the customer's information was updated
	active	INTEGER	values to represent whether the account is active

#### Links to

Table	Join	Description
address	<pre>customer.address_id = address.address_id</pre>	Foreign key constraint referencing address

## Links from

Table	Join	Description
rental	<pre>customer.customer_id = rental.customer_id</pre>	Foreign key constraint referencing rental
payment	<pre>customer.customer_id = payment.customer_id</pre>	Foreign key constraint referencing payment

#### Unique Keys

	Column	Name/Description	
7	customer_id	Unique customer identification number	

#### 3.2.2. Table: staff

#### Columns

	Name	Data Type	Description
9	staff_id	SERIAL	The unique staff identification number
	first_name	CHARACTER VARYING(45)	The company employee's first name
	last_name	CHARACTER VARYING(45)	The company employee's last name
	address_id	SMALLINT	The company employee's unique address identification number
	email	CHARACTER VARYING(50)	The company employee's email address
	store_id	SMALLINT	The company employee's store identification number
	active	BOOLEAN	Whether the company employee in currently employed
	username	CHARACTER VARYING(16)	The company employee's account username
	password	CHARACTER VARYING(60)	The company employee's account password
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last time the company employee's information was updated
	picture	BYTEA	An image of the company employee

#### Links to

Table	Join	Description
address	<pre>staff.address_id = address.address_id</pre>	Foreign key constraint referencing address

# Links from

Table	Join	Description
payment	<pre>staff.staff_id = staff.staff_if</pre>	Foreign key constraint referencing payment
rental	<pre>staff.staff_id = rental.staff_id</pre>	Foreign key constraint referencing rental
store	<pre>staff.staff_id = store.manager_staff_id</pre>	Foreign key constraint referencing store

## Unique Keys

	Column	Name/Description	
9	staff_id	The unique staff identification number	

#### 3.2.3. Table: actor

#### Columns

	Name	Data Type	Description
9	actor_id	SERIAL	The film actor's unique identification number
	first_name	CHARACTER VARYING(45)	The film actor's first name
	last_name	CHARACTER VARYING(45)	The film actor's last name
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last time the film actor's information was updated

## Links from

Table	Join	Description
film_actor	<pre>actor.actor_id = film actor.actor id</pre>	Foreign key constraint referencing film actor

# Unique Keys

Column	Name/Description	
actor_id	The film actor's unique identification number	

## 3.2.4. Table: film

#### Columns

	Name	Data Type	Description
9	film_id	SERIAL	The unique film identification number
	title	CHARACTER VARYING(255)	The title of the film
	description	TEXT	The film's description
	release_year	year	The year the film was released
	language_id	SMALLINT	The language identification number
	rental_duration	SMALLINT	The number of days the film was rented
	rental_rate	NUMERIC(4,2)	Cost to rent the film in USD
	length	SMALLINT	Length of the film in minutes
	replacement_cost	NUMERIC(5,2)	Cost to replace the film
	rating	mpaa_rating	The film's maturity rating
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last time the entry was updated
	special_features	TEXT[]	Special features of the film such as commentaries of deleted scenes
	fulltext	TSVECTOR	A list of the most used words in reviews of the film

## Links to

Table	Join	Description
language	film.language_id = language.language_id	Foreign key constraint referencing language

# Links from

Table	Join	Description
film_actor	film.film_id = film_actor.film_id	Foreign key constraint referencing film_actor
inventory	film.film_id = inventory.film_id	Foreign key constraint referencing inventory
film_category	<pre>film.film_id = film_category.film_id</pre>	Foreign key constraint referencing film_category

# Unique Keys

Column	Name/Description
film_id	The unique film identification number

## 3.2.5. Table: category

## Columns

	Name	Data Type	Description
9	category_id	SERIAL	The unique category identification number
	name	CHARACTER VARYING(25)	The category name
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last time the category information was updated

# Links from

Table	Join	Description
film_category	<pre>category.category_id = film_category.category_id</pre>	Foreign key constraint referencing film_category

# Unique Keys

Column		Name/Description
category_id		The unique category identification number

## 3.2.6. Table: address

#### Columns

	Name	Data Type	Description
9	address_id	SERIAL	The unique address identification number
	address	CHARACTER VARYING(50)	The address
	address2	CHARACTER VARYING(50)	The second line of the address
	district	CHARACTER VARYING(20)	The district in which the address is located
	city_id	SMALLINT	The address's city's identification number Foreign key for the city table
	postal_code	CHARACTER VARYING(10)	The address's postal code
	phone	CHARACTER VARYING(20)	The phone number associated with the address
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last time the address information was updated

#### Links to

Table	Join	Description
city	<pre>address.city_id = city.city_id</pre>	Foreign key constraint referencing city

## Links from

Ta	ıble	Join	Description
customer		<pre>address.address_id = customer.address_id</pre>	Foreign key constraint referencing customer

staff	<pre>address.address_id = staff.address_id</pre>	Foreign key constraint referencing staff
store	<pre>address.address_id = store.address_id</pre>	Foreign key constraint referencing store

## Unique Keys

	Column	Name/Description
9	address_id	The unique address identification number

## 3.2.7. Table: language

#### Columns

	Name	Data Type	Description
9	language_id	SERIAL	The unique language identification number
	name	CHARACTER(20)	The languages name
	last_update	TIMESAMP(6) WITHOUT TIME ZONE	The last time the language information was updated

# Links from

Table	Join	Description
film	<pre>language.language_id = film.language_id</pre>	Foreign key constraint referencing film

## Unique Keys

	Column	Name/Description
language_id		The unique language identification number

# 3.2.8. Table: city

#### Columns

	Name	Data Type	Description
9	city_id	SERIAL	The unique city identification number
	city	CHARACTER VARYING(50)	The name of the city
	country_id	SMALLINT	The country in which the city is located
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last time the city information was updated

#### Links to

Table	Join	Description
country	<pre>city.country_id = country.country_id</pre>	Foreign key constraint referencing country

#### Links from

Table	Join	Description
address	<pre>city.city_id = address.city_id</pre>	Foreign key constraint referencing address

## Unique Keys

Column		Name/Description
9	city_id	The unique city identification number

# 3.2.9. Table: country

## Columns

	Name	Data Type	Description
9	country_id	SERIAL	The unique country identification number
	country	CHARACTER VARYING(50)	The name of the country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last time the country information was updated

# Links from

Table	Join	Description
city	<pre>country.country_id = city.country_id</pre>	Foreign key constraint referencing country

## Unique Keys

Column	Name/Description
country_id The unique country identification number	