

# **Rockbuster**

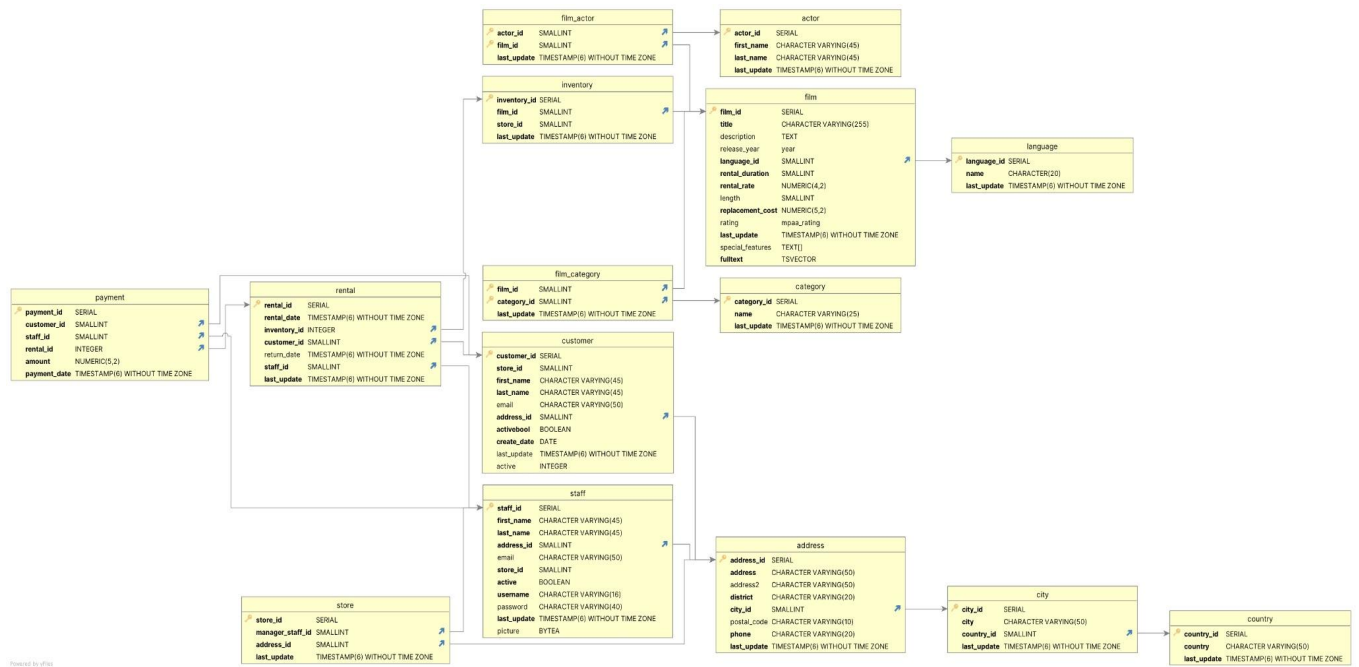
## Data Dictionary

Last update: Sep. 16th 2023

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# 1. Entity Relationship Diagram (ERD)







## Legend

	Primary key
	Foreign key

## 2. Fact Table

### 2.1 Table: **rental**

#### Columns

	Name	Data Type	Description
	Rental_id	Serial	Unique rental identifier
	Rental_date	Timestamp(6) w/o Time Zone	Date of rental
	Inventory_id	Integer	Unique inventory identifier
	Customer_id	Small Int	Unique customer identifier
	Return_date	Timestamp(6) w/o Time Zone	Date of return
	Staff_id	Small Int	Unique staff identifier
	Last_update	Timestamp(6) w/o Time Zone	Time of last update

#### Links to

Table	Join
Inventory	rental.inventory_id = inventory.inventory_id
Customer	rental.customer_id = inventory.customer_id
Staff	rental.staff_id = inventory.staff_id

#### Linked from

Table	Join
Payment	rental.rental_id = payment.rental_id

### 2.2 Table: **payment**

#### Columns

	Name	Data Type	Description
	Payment_id	Serial	Unique payment identifier

	Customer_id	Small Int	Unique customer identifier
	Staff_id	Small Int	Unique staff identifier
	Rental_id	Integer	Unique rental identifier
	Amount	Numeric(5,2)	Amount of payment received
	Payment_date	Timestamp(6) w/o Time Zone	Date of payment



### Links to

Table	Join
Rental	payment.rental_id = rental.rental_id
Customer	payment.customer_id = customer.customer_id
Staff	payment.staff_id = staff.staff_id

## 3. Dimension Table

### 3.1 Table: **film\_actor**

#### Columns


	Name	Data Type	Description
	Actor_id	Small Int	Unique identifier of actor
	Film_id	Small Int	Unique identifier of film
	Last_update	Timestamp(6) w/o Time Zone	Time of last update

### Links to

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

### 3.2 Table: **inventory**

**Columns**

	Name	Data Type	Description
	Inventory_id	Serial	Unique identifier of inventory
	Film_id	Small Int	Unique identifier of film
	Store_id	Small Int	Unique identifier of store
	Last_update	Timestamp(6) w/o Time Zone	Time of last update



**Links to**

Table	Join
Film	inventory.film_id = film.film_id

**Linked from**

Table	Join
Rental	inventory.inventory_id = rental.inventory_id


**3.3 Table: film\_category****Columns**

	Name	Data Type	Description
	Film_id	Small Int	Unique identifier of film
	Category_id	Small Int	Unique identifier of category
	Last_update	Timestamp(6) w/o Time Zone	Time of last update

**Links to**

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

3.4 Table: **customer****Columns**

	Name	Data Type	Description
	Customer_id	Small Int	Unique customer identifier
	Store_id	Small Int	Unique identifier of store
	First_name	Character Varying(45)	First name of customer
	Last_name	Character Varying(45)	Last name of customer
	Email	Character Varying(50)	Email address of customer
	Address_id	Small Int	Unique identifier of address
	Activebool	Boolean	Whether customer is active
	Create_date	Date	Date of customer profile creation
	Last_update	Timestamp(6) w/o Time Zone	Time of last update
	Active	Integer	Active status represented by 0 or 1

**Links to**


Table	Join
Address	customer.address_id = address.address_id

**Linked from**

Table	Join
Payment	customer.customer_id = payment.customer_id
Rental	customer.customer_id = rental.customer_id

3.5 Table: **staff**

**Columns**

	<b>Name</b>	<b>Data Type</b>	<b>Description</b>
	Staff_id	Serial	Unique identifier of staff member
	First_name	Character Varying(45)	First name of staff member
	Last_name	Character Varying(45)	Last name of staff member
	Address_id	Small Int	Unique identifier of address
	Email	Character Varying(50)	Email address of staff member
	Store_id	Small Int	Unique identifier of store
	Active	Boolean	Whether staff member is active
	username	Character Varying(16)	Staff member's username
	Password	Character Varying(40)	Staff member's password
	Last_update	Timestamp(6) w/o Time Zone	Time of last update
	Picture	Bytea	Picture of staff member

**Links to**


<b>Table</b>	<b>Join</b>
Address	staff.address_id = address.address_id

**Linked from**

<b>Table</b>	<b>Join</b>
Payment	staff.staff_id = payment.staff_id
Rental	staff.staff_id = rental.staff_id
Store	staff.staff_id = store.managerr_staff_id




3.6 Table: **store****Columns**

	Name	Data Type	Description
	Store_id	Serial	Unique identifier of store
	Manager_staff_id	Small Int	Unique identifier of staff member
	Address_id	Small Int	Unique identifier of address
	Last_update	Timestamp(6) w/o Time Zone	Time of last update

**Links to**

Table	Join
Staff	store.manager_staff_id = staff.staff_id
Address	store.address_id = address.address_id


3.7 Table: **actor****Columns**

	Name	Data Type	Description
	Actor_id	Serial	Unique identifier of actor
	First_name	Character Varying(45)	First name of actor
	Last_name	Character Varying(45)	Last name of actor
	Last_update	Timestamp(6) w/o Time Zone	Time of last update

**Linked from**

Table	Join
Film_actor	actor.actor_id = film_actor.actor_id

3.8 Table: **film****Columns**

	Name	Data Type	Description
	Film_id	Serial	Unique identifier of film
	Title	Character Varying(255)	Title of film
	Description	Text	Description of film
	Release_year	Year	Year of film release
	Language_id	Small Int	Language of film
	Rental_duration	Small Int	Duration of rental
	Rental_rate	Numeric(4,2)	Rate of rental
	Length	Small Int	Length of film
	Replacement_cost	Numeric(5,2)	Replacement cost of film
	Rating	Mpaa_rating	Rating of film
	Last_update	Timestamp(6) w/o Time Zone	Time of last update
	Special_features	Text[]	Special features of film
	Fulltext	Tsvector	Film index; contains count of keywords in description


**Links to**

Table	Join
Language	film.language_id = language.language_id

**Linked from**

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


3.9 Table: **category****Columns**

	<b>Name</b>	<b>Data Type</b>	<b>Description</b>
	Category_id	Serial	Unique identifier of category
	Name	Character Varying(25)	Name of category
	Last_update	Timestamp(6) w/o Time Zone	Time of last update

**Linked from**

<b>Table</b>	<b>Join</b>
Film_category	category.category_id = film_category.category_id

3.10 Table: **address****Columns**

	<b>Name</b>	<b>Data Type</b>	<b>Description</b>
	Address_id	Serial	Unique identifier of address
	Address	Character Varying(50)	First line of address
	Address2	Character Varying(50)	Second line of address
	District	Character Varying(20)	District of address
	City_id	Small Int	Unique identifier of city
	Postal_code	Character Varying(10)	Postal code associated with address
	Phone	Character Varying(20)	Phone number for address
	Last_update	Timestamp(6) w/o Time Zone	Time of last update


**Links to**

Table	Join
city	address.city_id = city.city_id

**Linked from**

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


3.11 Table: **language****Columns**

	Name	Data Type	Description
	Language_id	Serial	Unique identifier of language
	Name	Character Varying(20)	Name of language
	Last_update	Timestamp(6) w/o Time Zone	Time of last update

**Linked from**

Table	Join
film	language.language_id = film.language_id

3.12 Table: **city****Columns**

	Name	Data Type	Description
	City_id	Serial	Unique identifier of city
	City	Character Varying(50)	Name of city

	Country_id	Small Int	Unique identifier of country
	Last_update	Timestamp(6) w/o Time Zone	Time of last update


**Links to**

Table	Join
country	city.country_id = country.country_id

**Linked from**

Table	Join
address	city.city_id = address.city_id

3.13 Table: **country****Columns**

	Name	Data Type	Description
	Country_id	Serial	Unique identifier of country
	Country	Character Varying(50)	Name of country
	Last_update	Timestamp(6) w/o Time Zone	Time of last update

**Linked from**

Table	Join
city	country.country_id = city.country_id