



# ROCKBUSTER

DATA DICTIONARY

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## Summary:

### 1. Entity Relationship Diagram (ERD)

### 2. Tables

#### 2.1. Table: payment

#### 2.2. Table: rental

#### 2.3. Table: film\_actor

#### 2.4. Table: inventory

#### 2.5. Table: film\_category

#### 2.6. Table: customer

#### 2.7. Table: staff

#### 2.8. Table: actor

#### 2.9. Table: film

#### 2.10. Table: category

#### 2.11. Table: language

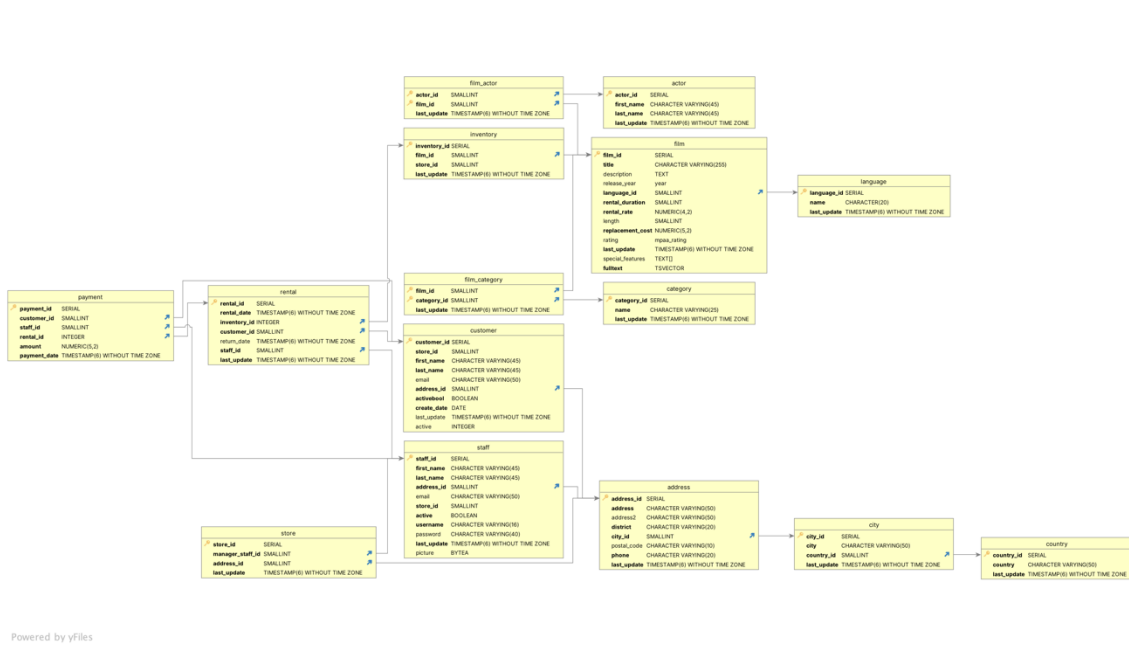
#### 2.12. Table: address

#### 3.13. Table: city

#### 2.14. Table: store

#### 2.15. Table: country

## 1. Entity Relationship Diagram (ERD):



## 2. Tables Content

### Fact Table

#### 2.1 Payment

Column	Data type	Description
<b>Payment_id</b>	Serial	Unique payment identifier
<b>Customer_id</b>	Small int	Unique customer identifier
<b>Staff_id</b>	Small int	Unique staff identifier
<b>Rental_id</b>	integer	Unique rental identifier
<b>Amount</b>	Number(5,2)	Cost of rental
<b>Payment_date</b>	Timestamp(6) without timezone	Date of payment

Link to:

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

## 2.2 Rental

Column	Data type	Description
<b>Rental_id</b>	Serial	Unique rental identifier
<b>Rental_date</b>	Timestamp(6) without timezone	Date of rental
<b>Inventory_id</b>	integer	Unique inventory identifier
<b>Customer_id</b>	Small int	Unique customer identifier
<b>Return_date</b>	Timestamp(6) without timezone	Date of return
<b>Staff_id</b>	Small int	Unique staff identifier
<b>Last_update</b>	Timestamp(6) without timezone	Time of last update

Link to:

Table	Join	Description
<b>inventory</b>	rental.inventory_id = inventory.inventory_id	Foreign key constraint referencing inventory.inventory_id
<b>customer</b>	rental.customer_id = customer.customer_id	Foreign key constraint referencing customer.customer_id
<b>staff</b>	rental.staff_id = staff.staff_id	Foreign key constraint referencing staff.staff_id

Linked from:

Table	Join	Description
<b>rental_id</b>	rental.rental_id = payment.rental_id Fore	Foreign key constraint referencing rental.rental_id

## Dimension Table

## 2.3 Film\_actor

Column	Data type	Description
<b>Actor_id</b>	Small int	Unique identifier of actor
<b>Film_id</b>	Small int	Unique identifier of film
<b>Last_update</b>	Timestamp(6) without timezone	Time of last update

Link to:

Table	Join	Description
actor	film_actor.actor_id = actor.actor_id	Foreign key constraint referencing actor.actor_id
film	film_actor.film_id = film.film_id	Foreign key constraint referencing film.film_id

Linked From:

Table	Join	Description
actor	film_actor.actor_id = actor.actor_id	Foreign key constraint referencing actor.actor_id
film	film_actor.film_id = film.film_id	Foreign key constraint referencing film_actor.film_id

#### 2.4 Inventory

Column	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) without timezone	Time of last update

Link To:

Table	Join	Description
film	inventory.film_id = film.film_id	Foreign key constraint referencing film.film_id

Linked From:

Table	Join	Description
rental	inventory.rental_id = rental_inventory_id	Foreign key constraint referencing inventory.inventory_id

#### 2.5 Film\_category

Column	Data type	Description
Film_id	Small int	Unique identifier of film

<b>Category_id</b>	Small int	Unique identifier of category
<b>Last_update</b>	Timestamp(6) without timezone	Time of last update

Link to:

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

Linked From:

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

## 2.6 Customer

Column	Data type	Description
<b>Customer_id</b>	serial	Unique customer identifier
<b>Store_id</b>	Small int	Unique identifier of store
<b>First_name</b>	Character varyng (45)	First name of customer
<b>Last_name</b>	Character varyng (45)	Last name of customer
<b>Email</b>	Character varyng (50)	Email address of customer
<b>Address_id</b>	Small int	Unique identifier of address
<b>activebool</b>	Boolean	Whether customer is active
<b>Create_date</b>	Date	Date of customer profile creation
<b>Last_update</b>	Timestamp(6) without timezone	Time of last update
<b>active</b>	integer	Active status represented by 0 or 1

Link To:

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

Linked From:

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

## 2.7 Staff

Column	Data type	Description
<b>Staff_id</b>	serial	Unique identifier of staff member
<b>First_name</b>	Character varyng (45)	First name of staff member
<b>Last_name</b>	Character varyng (45)	Last name of staff member
<b>Address_id</b>	Small int	Unique identifier of address
<b>Email</b>	Character varyng (50)	Email address of staff member
<b>Store_id</b>	Small int	Unique identifier of store
<b>Active</b>	Boolean	Whether staff member is active
<b>Username</b>	Character varyng (16)	Staff member's username
<b>Password</b>	Character varyng (40)	Staff member's password
<b>Last_upddate</b>	Timestamp(6) without timezone	Time of last update
<b>Picture</b>	bytea	picture of staff member

Link To:

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

Linked From:

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

## 2.8 Actor

Column	Data type	Description
<b>Actor_id</b>	Serial	Unique identifier of actor
<b>First_name</b>	Character varyng (45)	First name of actor
<b>Last_name</b>	Character varyng (45)	Last name of actor
<b>Last_update</b>	Timestamp(6) without timezone	Time of last update

Linked From:

Table	Join	Description
<b>film_actor</b>	actor.actor_id = film_actor.actor_id	Foreign key constraint referencing actor.actor_id

## 2.9 Film

Column	Data type	Description
<b>Film_id</b>	serial	Unique identifier of film
<b>Title</b>	Character varyng (255)	Title of film
<b>Description</b>	Text	Description of film
<b>Release_year</b>	Year	Year of film release
<b>Language_id</b>	Small int	Language of film
<b>Rental_duration</b>	Small int	Duration of rental
<b>Rental_rate</b>	Numeric(4,2)	Rate of rental
<b>length</b>	Small int	Length of film
<b>Replacement_cost</b>	Numeric(5,2)	Replacement cost of film
<b>Rating</b>	Mpaa_rating	Rating of film
<b>Last_update</b>	Timestamp(6) without timezone	Time of last update
<b>Special_features</b>	Text[]	Special features of film
<b>Fulltext</b>	TSVECTOR	Film index; contains count of key words in description



Link To:

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

Linked From:

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

## 2.10 Category

Column	Data type	Description
<b>Category_id</b>	serial	Unique identifier of category
<b>name</b>	Character varyng (25)	Name of category
<b>Last_update</b>	Timestamp(6) without timezone	Time of last update

Linked From:

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

### 2.11 Language

Column	Data type	Description
<b>Language_id</b>	serial	Unique identifier of language
<b>name</b>	Character varyng (20)	Name of language
<b>Last_update</b>	Timestamp(6) without timezone	Time of last update

Linked From:

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

### 2.12 Address

Column	Data type	Description
<b>Address_id</b>	serial	Unique identifier of address
<b>Address</b>	Character varyng (50)	First line of address
<b>Address 2</b>	Character varyng (50)	second line of address
<b>District</b>	Character varyng (20)	District of address
<b>City_id</b>	Small int	unique identifier of city
<b>Postal_code</b>	Character varyng (10)	postal code for address
<b>Phone</b>	Character varyng (20)	phone number for address
<b>Last_update</b>	Timestamp(6) without timezone	last update of address

Link To:

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

Linked From:

Table	Join	Description
<b>customer</b>	address.address_id = customer.address_id	Foreign key constraint referencing address.address_id
<b>staff</b>	address.address_id = staff.staff_id	Foreign key constraint referencing address.address_id

### 2.13 City

Column	Data type	Description
<b>City_id</b>	serial	unique identifier of city
<b>City</b>	Character varyng (50)	name of city
<b>Country_id</b>	Small int	unique identifier of counrty
<b>Last_update</b>	Timestamp(6) without timezone	last update of city

Link To:

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

Linked From:

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

### 2.14 Store

Column	Data type	Description
<b>Store_id</b>	serial	unique identifier of store
<b>Manager_staff_id</b>	Small int	unique identifier of staff manager
<b>Address_id</b>	Small int	unique identifier of address
<b>Last_update</b>	Timestamp(6) without timezone	last update of store profile

Link to:

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

### 2.15 Country

Column	Data type	Description
<b>Country_id</b>	Serial	unique identifier of country
<b>Country</b>	Character varyng (50)	name of country
<b>Last_update</b>	Timestamp(6) without timezone	last update of country

Linked From:

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