Rockbuster Data Dictionary

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Table of Contents

1.Fact Tables.

Table: Payment

Unique key: `payment_id`
Links to:

- `customer_id` → Customer table
- `staff_id` → Staff table
- `rental_id` → Rental table

Links from:

- Referenced by no other tables

Columns	Data Type	Description
payment_id	integer	The primary key and unique identifier for each payment.
customer_id	smallint	A foreign key referencing the customer table, identifying the customer who made the payment.
staff_id	smallint	A foreign key referencing the staff table, identifying the staff member who processed the payment.
rental_id	integer	A foreign key referencing the rental table, linking the payment to a specific rental transaction.
amount	numeric	The monetary amount paid by the customer for a rental transaction
payment_date	timestamp without time zone	The date and time the payment was made.

Table: Rental

Unique key: `rental_id`
Links to:

- `inventory_id` → Inventory table
- `customer_id` → Customer table
- `staff_id` → Staff table

Links from:

- Referenced by Payment table (`rental_id`)

Columns	Data Type	Description
rental_id	integer	The primary key for the rental table.
rental_date	timestamp without time zone	The date and time the rental transaction occurred.
inventory_id	integer	A foreign key referencing the inventory table, identifying the specific film copy rented.
customer_id	smallint	A foreign key referencing the customer table, identifying the customer who rented the film.
return_date	timestamp without time zone	The date and time the rental was returned.
staff_id	smallint	A foreign key referencing the staff table, identifying the staff member who processed the rental.
last_update	timestamp without time zone	The date and time the record was last updated.

2.Dimension Tables.

Table: Inventory

Unique key: `inventory_id`
Links to:

- `film_id` → Film table
- `store_id` → Store table

Links from:

- Referenced by Rental table (`inventory_id`)

Columns	Data Type	Description
inventory_id	integer	The primary key for the inventory table.
film_id	smallint	A foreign key referencing the film table.
store_id	smallint	Foreign key referencing the store table.
last_update	timestamp without time zone	The date and time the record was last updated.

Table: Actor

Unique key: `actor_id`
Links from:

- Referenced by Film Actor table (`actor_id`)

Columns	Data Type	Description
actor_id	integer	The primary key for the actor table.
first_name	character varying (45)	The first name of the actor.
last_name	character varying (45)	The last name of the actor.
last_update	timestamp without time zone	The date and time the record was last updated.

Table: Address

Unique key: `address_id`
Links to:

- `city_id` → City table

Links from:

- Referenced by Customer table (`address_id`)
- Referenced by Staff table (`address_id`)
- Referenced by Store table (`address_id`)

Columns	Data Type	Description
address_id	integer	The primary key for the address table.
address	character varying (50)	The primary street address.
address2	character varying (50)	An optional second line for the address.
district	character varying (20)	The district within the city.
city_id	smallint	A foreign key referencing the city table.
postal_code	character varying(10)	The postal code for the address.
phone	character varying (20)	The contact phone number for the address.
last_update	timestamp without time zone	The date and time the record was last updated.

Table: Category

Unique key: `category_id`
Links from:

- Referenced by Film Category table (`category_id`)

Columns	Data Type	Description
category_id	integer	The primary key for the film category.
name	character varying (25)	The name of the film category.
last_update	timestamp without time zone	The date and time the record was last updated.

Table: City

Unique key: `city_id`
Links to:

- `country_id` → Country table

Links from:

- Referenced by Address table (`city_id`)

Columns	Data Type	Description
city_id	integer	The primary key for the city table.
city	character varying (50)	The name of the city.
country_id	smallint	A foreign key referencing the country table.
last_update	timestamp without time zone	The date and time the record was last updated.

Table: Country

Unique key: `country_id`
Links from:

- Referenced by City table (`country_id`)

Columns	Data Type	Description
country_id	integer	The primary key for the country table.
country	character varying (50)	The name of the country.
last_update	timestamp without time zone	The date and time the record was last updated.

Table: Customer

Unique key: `customer_id`
Links to:

- `address_id` → Address table
- `store_id` → Store table

Links from:

- Referenced by Payment table (`customer_id`)
- Referenced by Rental table (`customer_id`)

Columns	Data Type	Description
customer_id	integer	The primary key for the customer table.
store_id	smallint	The ID of the store where the customer is registered.
first_name	character varying (45)	The customer's first name.
last_name	character varying (45)	The customer's last name.
email	character varying(50)	The customer's email address.
address_id	smallint	A foreign key referencing the address table.
activebool	boolean	A boolean value indicating if the customer account is active.
create_date	date	The date the customer account was created.
last_update	timestamp without time zone	The date and time the record was last updated
active	integer	A numerical value indicating if the customer is active.

Table: Film

Unique key: `film_id`
Links to:

- `language_id` → Language table

Links from:

- Referenced by Inventory table (`film_id`)
- Referenced by Film Actor table (`film_id`)
- Referenced by Film Category table (`film_id`)

Columns	Data Type	Description
film_id	integer	The primary key for the film table.
title	character varying (255)	The film title.
description	text	A summary of the film's plot.
release_year	integer	The year the film was released.
language_id	smallint	A foreign key referencing the language table.
rental_duration	smallint	The number of days a film can be rented.
rental_rate	numeric	The price to rent the film.
length	smallint	The length of the film in minutes.
replacement_cost	numeric	The cost to replace the film if lost or damaged.
rating	USER-DEFINED	The rating of the film.
last_update	timestamp without time zone	The date and time the record was last updated.
special_features	ARRAY	A list of special features included with the film.
fulltext	tsvector	An index for full-text search capabilities.

Table: Language

Unique key: `language_id`
Links from:

- Referenced by Film table (`language_id`)

Columns	Data Type	Description
language_id	integer	The primary key for the language table.
name	character (20)	The name of the language.
last_update	timestamp without time zone	The date and time the record was last updated.

Table: Staff

Unique key: `staff_id`
Links to:

- `address_id` → Address table
- `store_id` → Store table

Links from:

- Referenced by Rental table (`staff_id`)
- Referenced by Payment table (`staff_id`)
- Referenced by Store table (`manager_staff_id`)

Columns	Data Type	Description
staff_id	integer	The primary key for the staff table.
first_name	character varying(45)	The staff member's first name.
last_name	character varying(45)	The staff member's last name.
address_id	smallint	A foreign key referencing the address table.
email	character varying (50)	The staff member's email address.
store_id	smallint	The ID of the store where the staff member works.
active	boolean	A boolean value indicating if the staff member is active.
username	character varying(16)	The username for the staff member.
password	character varying(40)	The password for the staff member's account.
last_update	timestamp without time zone	The date and time the record was last updated.

Table: Store

Unique key: `store_id`
Links to:

- `address_id` → Address table
- `manager_staff_id` → Staff table

Links from:

- Referenced by Inventory table (`store_id`)
- Referenced by Customer table (`store_id`)
- Referenced by Staff table (`store_id`)

Columns	Data Type	Description
store_id	integer	The primary key for the store table.
manager_staff_id	smallint	A foreign key referencing the staff table, identifying the store's manager.
address_id	smallint	A foreign key referencing the address table, identifying the store's location.
last_update	timestamp without time zone	The date and time the record was last updated.

Table: Film Actor

Composite key: (`film_id`, `actor_id`)
Links to:

- `film_id` → Film table
- `actor_id` → Actor table

Columns	Data Type	Description
actor_id	smallint	A foreign key referencing the actor table.
film_id	smallint	A foreign key referencing the film table.
last_update	timestamp without time zone	The date and time the record was last updated.

Table: Film Category

Composite key: (`film_id`, `category_id`)
Links to:

- `film_id` → Film table

- `category_id` → Category table

Columns	Data Type	Description
film_id	smallint	A foreign key referencing the film table.
category_id	smallint	A foreign key referencing the category table.
last_update	timestamp without time zone	The date and time the record was last updated.