



# **Rockbuster Data Dictionary**

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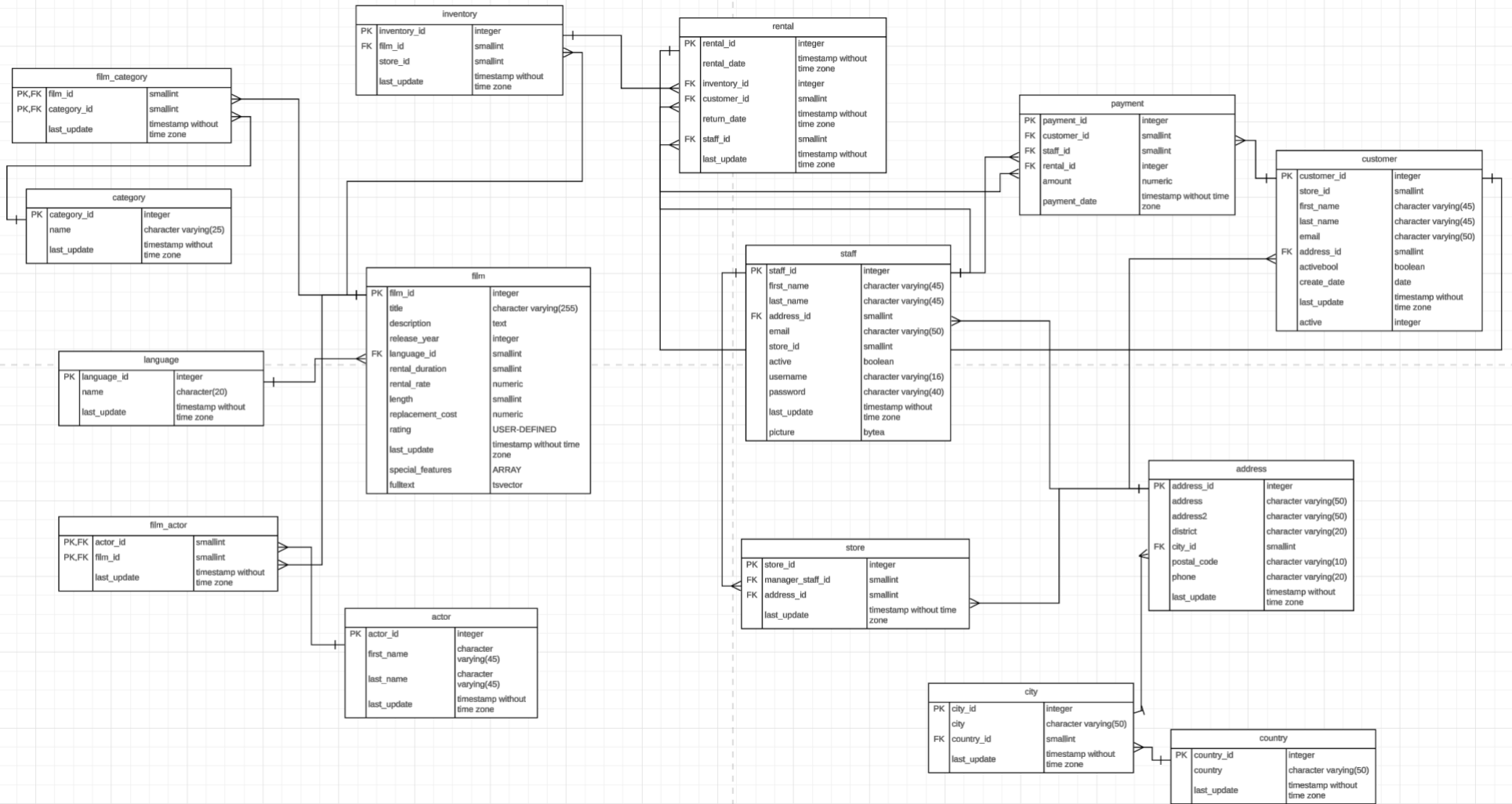
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# ERD



## 1. Fact Tables

### 1.1 Fact Table: Rental

Column Name	Data Type	Description
<b>rental_id</b>	Integer	Primary key that uniquely identifies each rental.
<b>rental_date</b>	Timestamp	The date and time the rental occurred.
<b>inventory_id</b>	Integer	Foreign key referencing the Inventory table.
<b>customer_id</b>	Integer	Foreign key referencing the Customer table.
<b>return_date</b>	Timestamp	The date and time the rental was returned.
<b>staff_id</b>	Integer	Foreign key referencing the Staff table.
<b>last_update</b>	Timestamp	Timestamp for when the record was last updated.

**Columns Linked To:** Inventory (inventory\_id), Customer (customer\_id), Staff (staff\_id).

**Unique Key:** rental\_id

## 1.2 Fact Table: Payment

Column Name	Data Type	Description
<b>payment_id</b>	Integer	Primary key that uniquely identifies each payment.
<b>customer_id</b>	Integer	Foreign key referencing the Customer table.
<b>staff_id</b>	Integer	Foreign key referencing the Staff table.
<b>rental_id</b>	Integer	Foreign key referencing the Rental table.
<b>amount</b>	Decimal	The amount of the payment.
<b>payment_date</b>	Timestamp	The date and time the payment was made.

**Columns Linked To:** Customer (customer\_id), Staff (staff\_id), Rental (rental\_id).

**Unique Key:** payment\_id

## 2. Dimension Tables

### 2.1 Dimension Table: Customer

Column Name	Data Type	Description
<b>customer_id</b>	Integer	Primary key that uniquely identifies each customer.
<b>first_name</b>	Varchar(45)	Customer's first name.
<b>last_name</b>	Varchar(45)	Customer's last name.
<b>email</b>	Varchar(50)	Customer's email address.
<b>address_id</b>	Integer	Foreign key referencing the Address table.
<b>active</b>	Boolean	Indicates if the customer is currently active.
<b>create_date</b>	Date	The date the customer record was created.
<b>last_update</b>	Timestamp	Timestamp for when the record was last updated.

**Columns Linked To:** Address (address\_id).

**Unique Key:** customer\_id

## 2.2 Dimension Table: Film

Column Name	Data Type	Description
<b>film_id</b>	Integer	Primary key that uniquely identifies each film.
<b>title</b>	Varchar(100)	The title of the film.
<b>description</b>	Text	A brief description of the film.
<b>release_year</b>	Integer	The release year of the film.
<b>language_id</b>	Integer	Foreign key referencing the Language table.
<b>rental_duration</b>	Integer	The duration for which the film can be rented.
<b>rental_rate</b>	Decimal	The rate charged for renting the film.
<b>length</b>	Integer	The length of the film in minutes.
<b>replacement_cost</b>	Decimal	The cost to replace the film.
<b>rating</b>	Varchar(5)	The rating of the film (e.g., PG, R, etc.).
<b>last_update</b>	Timestamp	Timestamp for when the record was last updated.

**Columns Linked To:** Language (language\_id).

**Unique Key:** film\_id

### 2.3 Dimension Table: Category

Column Name	Data Type	Description
<b>category_id</b>	Integer	Primary key that uniquely identifies each category.
<b>name</b>	Varchar(25)	The name of the category.
<b>last_update</b>	Timestamp	Timestamp for when the record was last updated.

**Unique Key:** category\_id



## 2.4 Dimension Table: Staff

Column Name	Data Type	Description
<b>staff_id</b>	Integer	Primary key that uniquely identifies each staff member.
<b>first_name</b>	Varchar(45)	First name of the staff member.
<b>last_name</b>	Varchar(45)	Last name of the staff member.
<b>address_id</b>	Integer	Foreign key referencing the Address table.
<b>email</b>	Varchar(50)	Email address of the staff member.
<b>store_id</b>	Integer	Identifier for the store where the staff member works.
<b>active</b>	Boolean	Indicates if the staff member is active.
<b>username</b>	Varchar(16)	Username assigned to the staff member.
<b>password</b>	Varchar(40)	Password for the staff member's account.
<b>last_update</b>	Timestamp	Timestamp indicating when the record was last updated.
<b>picture</b>	Bytea	Binary data field to store the staff member's picture.

**Columns Linked To:** Address (address\_id), Store (store\_id).

**Unique Key:** staff\_id

## 2.5 Dimension Table: Address

Column Name	Data Type	Description
<b>address_id</b>	Integer	Primary key that uniquely identifies each address.
<b>address</b>	Varchar(50)	Street address of the customer or staff member.
<b>address2</b>	Varchar(50)	Additional address information.
<b>district</b>	Varchar(20)	The district or region.
<b>city_id</b>	Integer	Foreign key referencing the City table.
<b>postal_code</b>	Varchar(10)	Postal code of the address.
<b>phone</b>	Varchar(20)	Contact number for the address.
<b>last_update</b>	Timestamp	Timestamp for when the record was last updated.

**Columns Linked To:** City (city\_id).

**Unique Key:** address\_id

## 2.6 Dimension Table: Language

Column Name	Data Type	Description
<b>language_id</b>	Integer	Primary key that uniquely identifies each language.
<b>name</b>	Varchar(20)	The name of the language.
<b>last_update</b>	Timestamp	Timestamp for when the record was last updated.

**Unique Key:** language\_id

## 2.7 Dimension Table: Inventory

Column Name	Data Type	Description
<b>inventory_id</b>	Integer	Primary key that uniquely identifies each inventory record.
<b>film_id</b>	Integer	Foreign key referencing the Film table.
<b>store_id</b>	Integer	Foreign key referencing the Store table.
<b>last_update</b>	Timestamp	Timestamp for when the record was last updated.

**Columns Linked To:** Film (film\_id), Store (store\_id).

**Unique Key:** inventory\_id

## 2.8 Dimension Table: Store

Column Name	Data Type	Description
<b>store_id</b>	Integer	Primary key that uniquely identifies each store.
<b>manager_staff_id</b>	Integer	Foreign key referencing the Staff table, indicating the store manager.
<b>address_id</b>	Integer	Foreign key referencing the Address table.
<b>last_update</b>	Timestamp	Timestamp for when the record was last updated.

**Columns Linked To:** Staff (manager\_staff\_id), Address (address\_id).

**Unique Key:** store\_id

## 2.9 Dimension Table: City

Column Name	Data Type	Description
<b>city_id</b>	Integer	Primary key that uniquely identifies each city.
<b>city</b>	Varchar(50)	The name of the city.
<b>country_id</b>	Integer	Foreign key referencing the Country table.
<b>last_update</b>	Timestamp	Timestamp for when the record was last updated.

**Columns Linked To:** Country (country\_id).

**Unique Key:** city\_id

## 2.10 Dimension Table: Country

Column Name	Data Type	Description
<b>country_id</b>	Integer	Primary key that uniquely identifies each country.
<b>country</b>	Varchar(50)	The name of the country.
<b>last_update</b>	Timestamp	Timestamp for when the record was last updated.

**Unique Key:** country\_id