# Rockbuster Stealth Data Dictionary

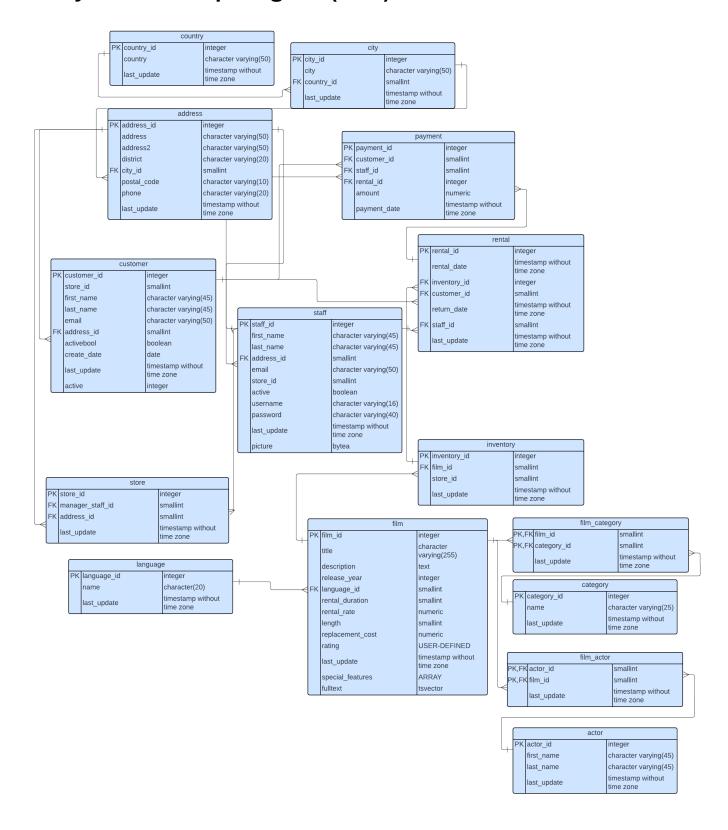
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**Data Immersion** 

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### **Entity Relationship Diagram (ERD)**



#### Tables

PK = Primary Key

FK = Foreign Key

#### **Fact Tables**

#### Rental

Information about each individual rental transaction.

Key Type	Connecting Table(s)	Columns	Data Type	Description
PK	payment	rental_id	INTEGER	Unique identifier for each individual rental transaction
		rental_date	TIMESTAMP	Date of rental transaction
FK	inventory	inventory_id	INTEGER	Unique identifier of inventory item rented
FK	customer	customer_id	SMALLINT	Unique identifier of customer
		return_date	TIMESTAMP	Date at which item is to be returned
FK	staff	staff_id	SMALLINT	Unique identifier of staff member performing transaction
		last_update	TIMESTAMP	Date and time record was last updated

#### • Payment

Information about each payment made to Rockbuster.

Key Type	Connecting Table(s)	Columns	Data Type	Description
PK		payment_id	INTEGER	Unique identifier for
				payment transaction

FK	customer	customer_id	SMALLINT	Unique
				identifier for
				customer
FK	staff	staff_id	SMALLINT	Unique
				identifier for
				staff processing
				payment
FK	rental	rental_id	INTEGER	Unique
				identifier for
				rental
				transaction
		amount	NUMERIC	Amount paid
		payment_date	TIMESTAMP	Date at which
				payment took
				place

#### **Dimension Tables**

#### Actor

Information pertaining to actors featured in each film in the inventory.

Key Type	Connecting Table(s)	Columns	Data Type	Description
PK	film_actor	actor_id	INTEGER	Unique identifier for actor
		first_name	VARCHAR(45)	First name of actor
		last_name	VARCHAR(45)	Last name of actor
		last_update	TIMESTAMP	Date and time of last update to record

#### Address

Address information of customers and store locations.

Key	Connecting	Columns	Data Type	Description
Туре	Table(s)			
PK	customer,	address_id	INTEGER	Unique
	store			identifier for
				address
		address	VARCHAR(50)	Address (line 1)
		address2	VARCHAR(50)	Address (line 2)

		district	VARCHAR(20)	District for
				address
FK	city	city_id	SMALLINT	Unique
				identifier for city
				in an address
		postal_code	VARCHAR(10)	Postal code for
				address
		phone	VARCHAR(20)	Phone number
				associated with
				address
		last_update	TIMESTAMP	Date and time
				of last update to
				record

#### Category

 ${\it Categories of films in the Rockbuster inventory.}$ 

Key Type	Connecting Table(s)	Columns	Data Type	Description
PK	film_category	category_id	INTEGER	Unique identifier for film category
		name	VARCHAR(25)	Name of film category (genre)
		last_update	TIMESTAMP	Time and date at which record was last updated

#### • City

Information related to cities contained in customer and store addresses.

Key Type	Connecting Table(s)	Columns	Data Type	Description
PK	address	city_id	INTEGER	Unique identifier for city
		city	VARCHAR(50)	Name of city
FK	country	country_id	SMALLINT	Unique identifier for country in

			which city is
			located
	last_update	TIMESTAMP	Time and date
			of last update to
			record

#### • Country

Information related to countries contained in customer and store addresses.

Key Type	Connecting Table(s)	Columns	Data Type	Description
PK	city	country_id	INTEGER	Unique
				identifier for
				country
		country	VARCHAR(50)	Name of
				country
		last_update	TIMESTAMP	Time and date
				of last update to
				record

#### • Customer

Information on individual Rockbuster customers.

Key	Connecting	Columns	Data Type	Description
Туре	Table(s)			
PK	payment, rental	customer_id	INTEGER	Unique identifier for customer
FK	store	store_id	SMALLINT	Unique identifier for store
		first_name	VARCHAR(45)	First name of customer
		last_name	VARCHAR(45)	Last name of customer
		email	VARCHAR(50)	E-mail address of customer
FK	address	address_id	SMALLINT	Unique identifier for customer address
		activebool	BOOLEAN	Whether customer is

			active (true) or not (false)
	create_date	DATE	Date on which customer record was created
	last_update	TIMESTAMP	Date and time of last update to record
	active	INTEGER	Whether customer is active (1) or not (0)

## Film Information pertaining to each film in the Rockbuster inventory.

Key Type	Connecting Table(s)	Columns	Data Type	Description
PK	film_actor, film_category, inventory	film_id	INTEGER	Unique identifier for individual film
		title	VARCHAR(255)	Title of film
		description	TEXT	Description of film
		release_year	INTEGER	Year of film release
FK	language	language_id	SMALLINT	Unique identifier for film language
		rental_duration	SMALLINT	Number of days rented
		rental_rate	NUMERIC(4,2)	Price per day of rental
		length	SMALLINT	Length of film
		replacement_cost	NUMERIC(5,2)	Cost to replace film
		rating	MPAA_RATING	MPAA- assigned rating
		last_update	TIMESTAMP	Time and date of last update to record

	special_features	TEXT	Special
			features of
			film
	fulltext	TSVECTOR	Searchable
			text terms
			related to film

#### • Film\_actor

Table connecting information about actors to information about films.

Key Type	Connecting Table(s)	Columns	Data Type	Description
PK,	actor	actor_id	SMALLINT	Unique
FK				identifier for
				actor
PK,	film,	film_id	SMALLINT	Unique
FK	film_category			identifier for film
		last_update	TIMESTAMP	Time and date
				of last update to
				record

#### Film\_category

Table connecting information about genres to information about films.

Key	Connecting	Columns	Data Type	Description
Туре	Table			
PK,	film,	film_id	SMALLINT	Unique
FK	film_actor			identifier for film
PK,	category	category_id	SMALLINT	Unique
FK				identifier for
				category
		last_update	TIMESTAMP	Time and date
				of last update to
				record

#### • Inventory

Information pertaining to the Rockbuster inventory.

Key Type	Connecting Table(s)	Columns	Data Type	Description
PK	rental	inventory_id	INTEGER	Unique identifier for store inventory
				item

FK	film	film_id	SMALLINT	Unique
				identifier for film
FK	store	store_id	SMALLINT	Unique
				identifier for
				store
		last_update	TIMESTAMP	Time and date of
				last update to
				record

#### • Language

Information about languages of the films in the Rockbuster inventory.

Key Type	Connecting Table(s)	Columns	Data Type	Description
PK	film	language_id	INTEGER	Unique identifier for language
		name	CHAR(20)	Language name
		last_update	TIMESTAMP	Time and date of last update to record

#### Staff

Information about Rockbuster staff.

Key	Connecting	Columns	Data Type	Description
Туре	Table(s)	-+-ff :-l	INTEGED	Linianos
PK	rental,	staff_id	INTEGER	Unique
	payment,			identifier for
	store			staff member
		first_name	VARCHAR(45)	First name of
				staff member
		last_name	VARCHAR(45)	Last name of
				staff member
FK	address	address_id	SMALLINT	Unique
				identifier for
				address of staff
				member
		email	VARCHAR(50)	E-mail address
				of staff member
FK	store	store_id	SMALLINT	Unique
				identifier for
				store at which

			staff member works
	active	BOOLEAN	Active (true) or inactive (false)
	username	VARCHAR(16)	Username of staff member
	password	VARCHAR(40)	Password of staff member
	last_update	TIMESTAMP	Time and date of last update to record
	picture	BYTEA	Staff photo (binary data)

#### • Store

Information about Rockbuster store locations.

Key	Connecting	Columns	Data Type	Description
Туре	Table(s)			
PK	customer,	store_id	INTEGER	Unique
	inventory,			identifier for
	staff			store
FK	staff	manager_staff_id	SMALLINT	Unique
				identifier for
				staff member
				or manager
FK	address	address_id	SMALLINT	Unique
				identifier for
				store address
		last_update	TIMESTAMP	Date and time
				of last update
				to record