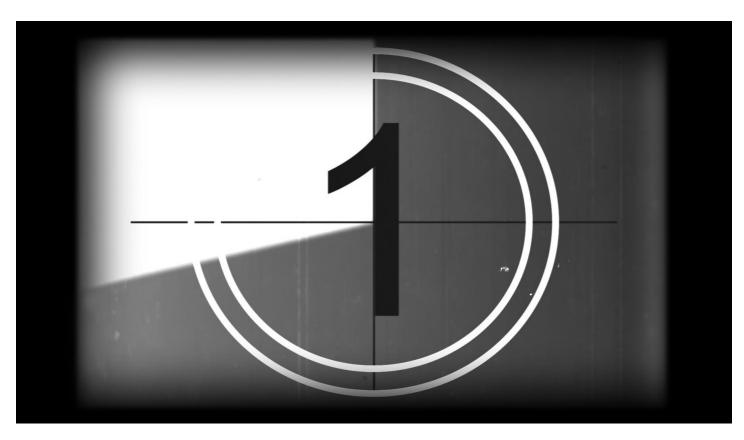
# Rockbuster Stealth LLC Data Dictionary

Comprehensive Guide to Data Structures and Definitions

June 28, 2024

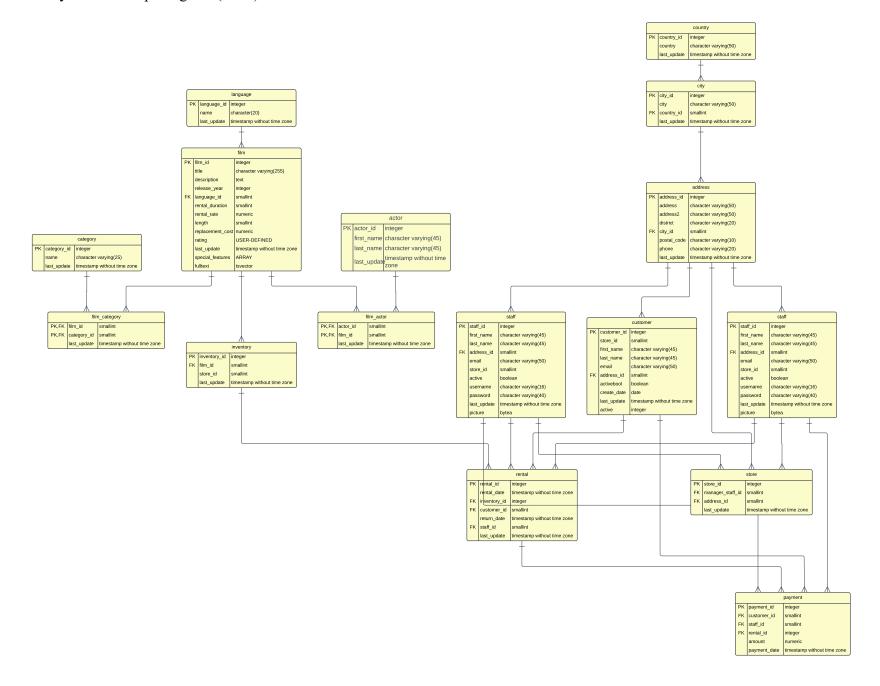
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#### 1. Entity Relationship Diagram (ERD)



## 2. Fact Tables

## 2.1. Payment

Key	Column	Data type	Description	Links
PK	Payment_id	INT	Unique identifier for	
			each payment	
FK	Customer_id	SMALLINT	Identifier for the	customer
			customer making the	
			payment	
FK	staff_id	SMALLINT	Identifier for the staff	<b>⇒</b> staff
			processing the payment	
FK	rental_id	INT	Identifier for the staff	rental
			processing the payment	
N/A	Amount	NUMERIC	The amount of the	
			payment	
N/A	Payment_date	DATETIME	The date and time	
			when the payment was	
			made	

## 2.2. Rental

Key	Column	Data type	Description	Links
PK	Rental_id	INT	Unique identifier for	payment
			each rental	
N/A	Rental_date	TIMESTAMP	The date and time the	
			rental was made	
FK	Inventory_id	INT	Identifier for the	inventory inventory
			inventory item being	
			rented	
FK	Customer_id	SMALLINT	Identifier for the	customer
			customer renting the	
			item	
N/A	Return_date	TIMESTAMP	The date and time	
			when the rental was	
			returned	
FK	Staff_id	SMALLINT	Identifier for the staff	<b>⇒</b> staff
			processing the rental	
N/A	Last_update	TIMESTAMP	The date and time of	
			the last update to the	
			rental record	

#### 3. Dimension Tables

#### 3.1. Store

Key	Column	Data Type	Description	Links
PK	Store_id	INT	Unique identifier for each	inventory
			store	<b>←</b> staff
FK	Manager_staff_id	SMALLINT	Identifier for the manager	<b>⇒</b> staff
			staff	
FK	Address_id	SMALLINT	Identifier for the address of	<b>⇒</b> address
			the store	
N/A	Last update	TIMESTAMP	The date and time of the	
			last update to the store	
			record	

## 3.2. Staff

Key	Column	Data Type	Description	Links
PK	Staff_id	INT	Unique identifier for each staff member	Rental Payment Store
N/A	First_name	VARCHAR(45)	The first name of the staff member	
N/A	Last_name	VARCHAR(45)	The last name of the staff member	address
FK	Address_id	SMALLINT	Identifier for the address of the staff member	
N/A	Email	VARCHAR(50)	The email address of the staff member	
N/A	Store_id	SMALLINT	Identifier for the store the staff member works at	
N/A	Active	BOOLEAN	Indicates if the staff member is currently active (1 for active, 0 for inactive)	
N/A	Username	VARCHAR(16)	The username for the staff members login	
N/A	Password	VARCHAR(40)	The password for the staff members login	
N/A	Last_update	TIMESTAMP	The date and time of the last update to the staff record	
N/A	Picture	BYTEA	The photo of the staff member	

#### 3.3. Customer

Key	Column	Data type	Description	Links
PK	Customer_id	INT	Unique identifier for each	Rental
	_		customer	<b>p</b> ayment
FK	Store id	SMALLINT	Identifier for the store the	
			customer is associated with	
N/A	First name	VARCHAR(45)	The first name of the	
	_		customer	
N/A	Last name	VARCHAR(45)	The last name of the	
	_		customer	
N/A	Email	VARCHAR(50)	The email address of the	
			customer	
FK	Address_id	SMALLINT	Identifier for the address of	address
			the customer	
N/A	Activebool	BOOLEAN	Indicates if the customer is	
			currently active (true for	
			active, false for inactive)	
N/A	Create_date	DATE	The date when the	
			customer record was	
			recorded	
N/A	Last_update	TIMESTAMP	The date and time of the	
			last update to the customer	
			record	
N/A	Active	INT	Indicates if the customer is	
			active or inactive	

## 3.4. Film\_category

Key	Column	Data Type	Description	Links
PK,FK	Film id	SMALLINT	Unique identifier for each	➡film
			film	
PK,FK	Category_id	SMALLINT	Unique identifier for each	
			category	·
N/A	Last_update	TIMESTAMP	The date and time of the	
			last update to the film	
			category record	

## 3.5. Category

Key	Column	Data Type	Description	Links
PK	Category_id	INT	Unique identifier for each	Film_category
			category	
N/A	Name	VARCHAR(25)	The name of the category	
N/A	Last update	TIMESTAMP	The date and time of the	
			last update to the category	
			recorde	

## 3.6. Actor

Key	Column	Data Type	Description	Links
PK	Actor_id	INT	Unique identifier for each	Film_actor
			actor	
N/A	First name	VARCHAR(45)	The first name of the actor	
N/A	Last name	VARCHAR(45)	The last name of the actor	
N/A	Last_update	TIMESTAMP	The date and time of the	
			last update to the actor	
			record	

## 3.7. Inventory

Key	Column	Data Type	Description	Links
PK	Inventory_id	INT	Unique identifier for each	Rental
			inventory item	
FK	Film_id	SMALLINT	Identifier for the film	<b>⇒</b> Film
			associated with the	store
			inventory item	
FK	Store_id	SMALLINT	Identifier for the store	
			where the inventory item is	
			located	
N/A	Last_update	TIMESTAMP	The date and time of the	
			last update to the inventory	
			record	

## 3.8. Film

Key	Column	Data Type	Description	Links
PK	Film_id	INT	Unique identifier for each film	Film_actor Film_category Inventory
N/A	Title	VARCHAR(255)	The title of the film	
N/A	Description	TEXT	The description of the film	
N/A	Release_year	INT	The year the film was released	
FK	Language_id	SMALLINT	Identifier for the language of the film	language
N/A	Rental_duration	SMALLINT	Duration (in days) for which the film can be rented	
N/A	Rental_rate	NUMERIC	The rental rate for the film	
N/A	Length	SMALLINT	The length of the film in minutes	
N/A	Replacement_cost	NUMERIC	The cost to replace the film	
N/A	Rating	USER-DEFINED	The rating of the film	
N/A	Last_update	TIMESTAMP	The date and time of the last update to the film record	
N/A	Special_features	ARRARY	Special features included with the film	
N/A	Fulltext	TVSECTOR	Full text search data for the film	

#### 3.9. Address

Key	Column	Data Type	Description	Links
PK	Address id	INT	Unique identifier for each	<b>Customer</b>
	_		address	<b>Store</b>
				<b>←</b> Staff
N/A	Address	VARCHAR(50)	The primary address	
N/A	Address2	VARCHAR(50)	The secondary address	
			(opt)	
N/A	District	VARCHAR(20)	The district or region	
FK	City_id	SMALLINT	Identifier for the city	ity city
N/A	Postal_code	VARCHAR(10)	The postal code	
N/A	Phone	VARCHAR(20)	The phone number	
N/A	Last update	TIMESTAMP	The date and time of the	
			last update to the address	
			record	

# 3.10. Language

Key	Column	Data Type	Description	Links
PK	Language_id	INT	Unique identifier for each	<b>film</b>
			language	
N/A	Name	VARCHAR(20)	The name of the language	
N/A	Last_update	TIMESTAMP	The date and time of the	
			last update to the language	
			record	

# 3.11. City

Key	Column	Data Type	Description	Links
PK	City_id	INT	Unique identifier for each	<b>←</b> address
			city	
N/A	City	VARCHAR(50)	The name of the city	
FK	Country id	SMALLINT	Identifier for the country	country
N/A	Last_update	TIMESTAMP	The date and time of the	
			last update to the city	
			record	

# 3.12. Country

Key	Column	Data Type	Description	Links
PK	Country_id	INT	Unique identifier for each	ity city
			country	
N/A	Country	VARCHAR(50)	The name of the country	
N/A	Last_update	TIMESTAMP	The date and time of the	
			last update to the country	
			record	

# 3.13. Film\_actor

Key	Column	Data Type	Description	Links
FK	Actor_id	SMALLINT	References unique	actor
			identifier of an actor in the	
			actor table. actor_id and	
			film_id together form a	
			composite key, referencing	
			the primary keys in the	
			actor and film tables	
			respectively	
FK	Film_id	SMALLINT	References unique	➡film
			identifier of a film in the	
			film table. actor_id and	
			film_id together form a	
			composite key, referencing	
			the primary keys in the	
			actor and film tables	
			respectively	
N/A	Last_update	TIMESTAMP	Timestamp indicating the	
			last time the association	
			between actor and film was	
			updated.	

PK: Private Key

FK: Foreign Key

Links to:

Links From: