

Rockbuster Stealth

Data Dictionary

Created 27/03/2025
Update 27/03/2025
Data Analyst Fabrizio Denegri

Table of Contents

1. Rockbuster Stealth Database Architecture Data Dictionary

2. Relationships and Keys

2.01. Entity Relationship Diagram (ERD)

3. Facts Tables

3.01. Payment Table

3.02. Rental Table

4. Dimensions Tables

4.01. Actor Table

4.02. Address Table

4.03. Category Table

4.04. City Table

4.05. Country Table

4.06. Customer Table

4.07. Film Actor Table

4.08. Film Category Table

4.09. Film Table

4.10. Inventory Table

4.11. Language Table

4.12. Staff Table

4.13. Store Table

1. Rockbuster Stealth Database Architecture Data Dictionary

This data dictionary serves as an authoritative reference guide for the Rockbuster Stealth Database architecture.

It provides a comprehensive overview of the database schema, encompassing:

- Fact and dimension tables
- Field definitions and attributes
- Table relationships
- Primary and foreign key constraints

The purpose of this document is to offer stakeholders and technical teams a clear, concise understanding of the database design and data organization.

It facilitates efficient data management, supports decision-making processes, and ensures consistency in data interpretation across the organization.

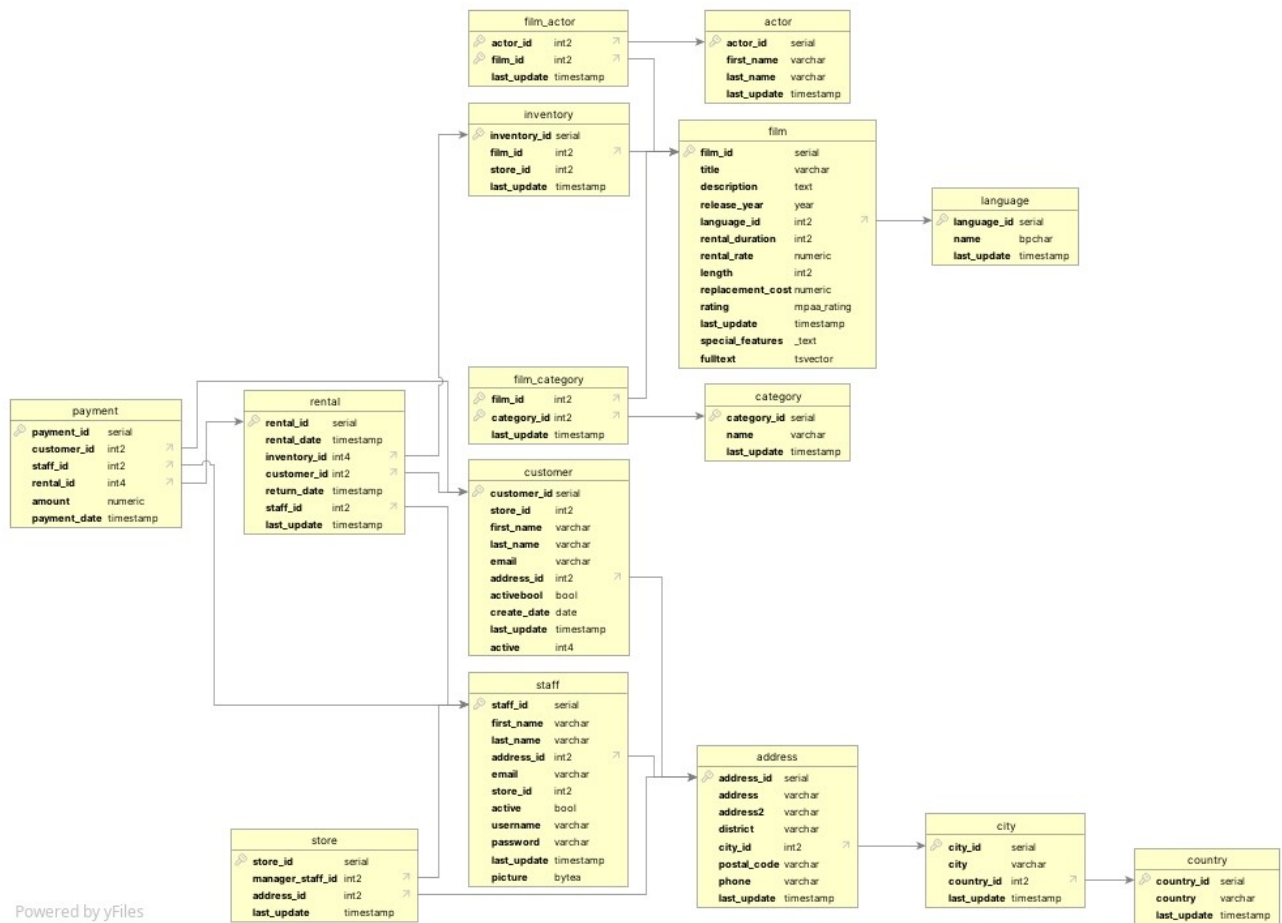
This resource is essential for:

- Database administrators
- Data analysts
- Business intelligence teams
- Software developers
- Project managers

By maintaining this data dictionary, we aim to enhance data governance, improve data quality, and streamline data-driven operations within our organization.

2. Relationships and Keys

2.01. Entity Relationship Diagram



Powered by yFiles

3. Facts Tables

3.01. Payment Table

Unique Key	#	Columns	Data Type	Description
Primary Key	1	Payment_id	SERIAL	A unique identifier associated with the payment transaction
Foreign Key	2	Customer_id	SMALLINT	A unique identifier assigned to the customer
Foreign Key	3	Staff_id	SMALLINT	A unique identifier assigned to the staff
Foreign Key	4	Rental_id	INTEGER	A unique identifier associated with the rental transaction
	5	Amount	NUMERIC(5,2)	The total cost of the rental
	6	Payment_dat	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time the rental was paid for

3.02. Rental Table

Unique Key	#	Columns	Data Type	Description
Primary Key	1	Rental_id	INTEGER	A unique identifier associated with the rental transaction
	2	Rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the movie was rented
Foreign Key	3	Inventory_id	INTEGER	A unique identifier assigned to the specific rental unit
Foreign Key	4	Customer_id	SMALLINT	A unique identifier assigned to the customer
	5	Return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the movie was returned
Foreign Key	6	Staff_id	SMALLINT	A unique identifier assigned to the staff
	7	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the rental data was updated

Note: the tables are listed in alphabetical order by the author

4. Dimensions Tables

4.01. Actor Table

Unique Key	#	Columns	Data Type	Description
Primary Key	1	Actor_id	SERIAL	A unique identifier of an actor
	2	First_name	CHARACTER VARYING(45)	First name of the actor
	3	Last_name	CHARACTER VARYING(45)	Last name of the actor
	4	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the data was updated

4.02. Address Table

Unique Key	#	Columns	Data Type	Description
Primary Key	1	Address_id	SERIAL	A unique identifier associated with staff or customer addresses
	2	Address	CHARACTER VARYING(50)	First line of address of the staff or customer
	3	Address2	CHARACTER VARYING(50)	Second line of address of the staff or customer
	4	District	CHARACTER VARYING(20)	Geographic area the staff or customer resides
Foreign Key	5	City_id	SMALLINT	A unique identifier associated with city where the staff or customer resides
	6	Postal_code	CHARACTER VARYING(10)	Postal code/zip code where the staff or customer resides
	7	Phone	CHARACTER VARYING(20)	Phone number of the staff or customer
	8	Last_updated	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the data was updated

4.03. Category Table

Unique Key	#	Columns	Data Type	Description
Primary Key	1	Category_id	SERIAL	A unique identifier assigned to a film category
	2	Name	CHARACTER VARYING(25)	Name of film category/genre
	3	Last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date and time the data was updated

4.04. City Table

Unique Key	#	Columns	Data Type	Description
Primary Key	1	City_id	SERIAL	A unique identifier associated with city where the staff or customer resides
	2	City	CHARACTER VARYING(50)	Name of city the staff or customer resides
Foreign Key	3	Country_id	SMALLINT	A unique identifier associated with the country where the staff or customer resides
	4	Last_updated	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the data was updated

4.05. Country Table

Unique Key	#	Columns	Data Type	Description
Primary Key	1	Country_id	SERIAL	A unique identifier associated with the country where the staff or customer resides
	2	Country	CHARACTER VARYING(50)	Name of the country where the staff or customer resides
	3	Last_updated	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the data was updated

4.06. Customer Table

Unique Key	#	Columns	Data Type	Description
Primary Key	1	Customer_id	SERIAL	A unique identifier assigned to the customer
	2	Store_id	SMALLINT	A unique identifier associated with the specific Rockbuster location
	3	First_name	CHARACTER VARYING(45)	First name of the customer
	4	Last_name	CHARACTER VARYING(45)	Last name of the customer
	5	Email	CHARACTER VARYING(45)	Email address of the customer
Foreign Key	6	Address_id	SMALLINT	Unique identifier assigned to customer address
	7	Activebool	BOOLEAN	Identifies if customer is active in the system (true/false values)
	8	Create_date	DATE	Date the customer was first entered into the system
	9	Last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date and time the data was updated
	10	Active	INTEGER	Identifies if customer is active in the system (integer values)

4.07. Film Actor Table

Unique Key	#	Columns	Data Type	Description
Foreign Key	1	Actor_id	SMALLINT	A unique identifier assigned to an actor in a movie
Foreign Key	2	Film_id	SMALLINT	A unique identifier assigned to a film
	3	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the data was updated

4.08. Film Category Table

Unique Key	#	Columns	Data Type	Description
Primary Key	1	Film_id	SMALLINT	A unique identifier assigned to a film
Foreign Key	2	Category_id	SMALLINT	A unique identifier assigned to a film category
	3	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the data was updated

4.09. Film Table

Unique Key	#	Columns	Data Type	Description
Primary Key	1	Film_id	SERIAL	A unique Identifier of the film
	2	Title	CHARACTER VARYING(45)	Title of the film
	3	Description	TEXT	Summary of the film
	4	Release_year	year	Year the film was released to the public
Foreign Key	5	Language_id	SMALLINT	A unique identifier for the primary language spoken in the film
	6	Rental_duration	SMALLINT	Number of days the film is rented for
	7	Rental_rate	NUMERIC(4,2)	Cost to rent the film per day
	8	Length	SMALLINT	How long the film is in minutes
	9	Replacement_cost	NUMERIC(5,2)	Cost to replace the film if it is lost
	10	Rating	mpaa_rating	Motion Picture Association of America (MPAA) rating system
	11	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the data was updated
	12	Special_features	TEXT[]	Additional features included with rental of the film
	13	Fulltext	Tsvector	Key words associated with the film

4.10. Language Table

Unique Key	#	Columns	Data Type	Description
Primary Key	1	Language_id	SERIAL	A unique identifier for the primary language spoken in the film
	2	Name	CHARACTER VARYING(20)	Language spoken in the film
	3	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the data was updated

4.11. Inventory Table

Unique Key	#	Columns	Data Type	Description
Primary Key	1	Inventory_id	SERIAL	A unique identifier assigned to the specific rental unit
Foreign Key	2	Film_id	SMALLINT	A unique identifier assigned to a film
	3	Store_id	SMALLINT	A unique identifier associated with the specific Rockbuster location
	4	Last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date and time the data was updated

4.12. Staff Table

Unique Key	#	Columns	Data Type	Description
Primary Key	1	Staff_id	SERIAL	A unique identifier assigned to staff
	2	First_name	CHARACTER VARYING(45)	First name of the staff member
	3	Last_name	CHARACTER VARYING(45)	Last name of the staff member
Foreign Key	4	Address_id	SMALLINT	Unique identifier assigned to staff member address
	5	Email	CHARACTER VARYING(45)	Email address of the staff member
	6	Store_id	SMALLINT	A unique identifier associated with the specific Rockbuster location
	7	Active	BOOLEAN	Identifies if staff member is active in the system (true/false values)
	8	Username	CHARACTER VARYING(45)	Username of the staff member
	9	Password	CHARACTER VARYING(45)	Password of the staff member
	10	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the data was updated
	11	Picture	BYTEA	Picture of the staff member

4.13. Store Table

Unique Key	#	Columns	Data Type	Description
Primary Key	1	Store_id	SERIAL	A unique identifier associated with the specific Rockbuster location
Foreign Key	2	Manager_staff_id	SMALLINT	A unique identifier assigned to the manager of the Rockbuster location
Foreign Key	3	Address_id	SMALLINT	A unique identifier assigned to the address of the Rockbuster location
	4	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the data was updated

Note: the tables are listed in alphabetical order by the author