

Rockbuster Stealth

Data Dictionary

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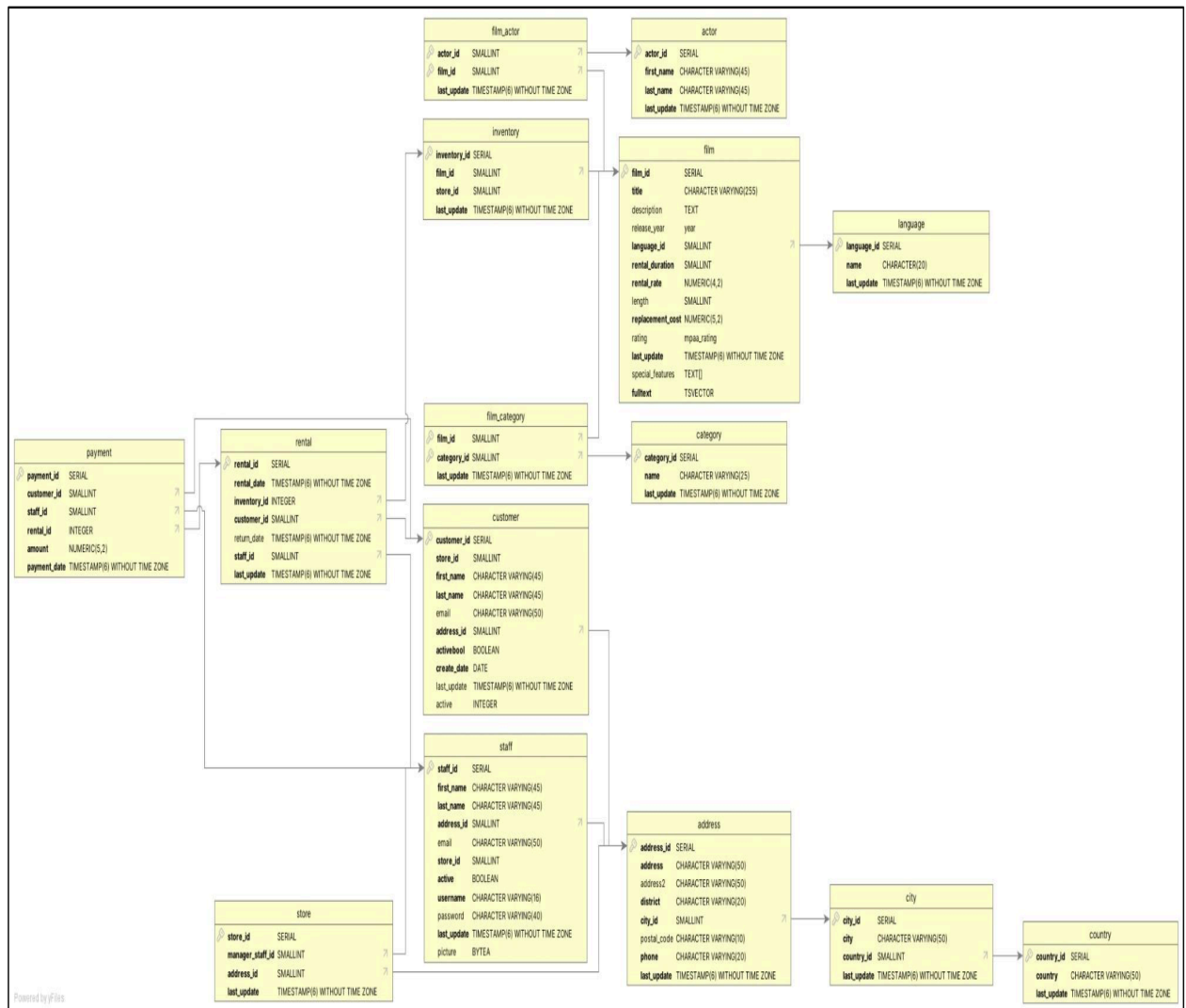
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Overview:

This data dictionary serves as a comprehensive reference for the structure, relationships, and key attributes of the Rockbuster Stealth Database. It provides a detailed documentation of the database schema, including fact and dimension tables, their respective fields, relationships, and primary and foreign key constraints. This document aims to facilitate a clear understanding of the database's design and its data organization.

Relationships and Keys:



Facts Tables:

a. Payment Table:

Column Name	Key	Data Type	Description
payment_id	Primary	INTEGER	Unique payment ID number for each transaction.
customer_id	Foreign	SMALLINT	Unique customer ID number references a connection to customer table.
staff_id	Foreign	SMALLINT	Unique staff ID number references a connection to staff table.
rental_id	Foreign	INTEGER	Unique rental ID number references a connection to rental table.
amount	N/A	NUMERIC	Amount Paid.
payment_date	N/A	TIMESTAMP WITHOUT TIME ZONE	Timeline of the transaction.

b. Rental Table:

Column Name	Key	Data Type	Description
rental_id	Primary	INTEGER	Unique rental ID number for each transaction.
rental_date	N/A	TIMESTAMP WITHOUT TIME ZONE	Timeline for the rental item.
inventory_id	Foreign	SMALLINT	Unique inventory ID number references a connection to inventory table.
customer_id	Foreign	SMALLINT	Unique customer ID number references a connection to customer table.
return_date	N/A	TIMESTAMP WITHOUT TIME ZONE	The date and time by which the item should be returned.
staff_id	Foreign	SMALLINT	Unique staff ID number references a connection to staff table.
last_update	N/A	TIMESTAMP WITHOUT TIME ZONE	Timeline when the last update was performed for the record.

Dimensions Table:

1. Customer table:

Column Name	Key	Data Type	Description
customer_id	Primary	SERIAL	Unique customer ID referencing to each individual customer.
store_id	Foreign	SMALLINT	Unique store ID references to the store table.
first_name	N/A	VARCHAR(30)	Customers first name.
last_name	N/A	VARCHAR(30)	Customers last name.
email	N/A	VARCHAR(60)	Customers email address.
address_id	Foreign	SMALLINT	Unique address ID references to the address table.
activebool	N/A	BOOLEAN	Indicator for the customers activity status.
create_date	N/A	DATE	Creation date of the customers record.
last_update	N/A	TIMESTAMP WITHOUT TIME ZONE	Timeline when the last update was performed for the record.
active	N/A	INTEGER	Alternative Status activity indicator.

2. Staff Table:

Column Name	Key	Data Type	Description
staff_id	Primary	SERIAL	Unique staff ID referencing to each staff member.
first_name	N/A	VARCHAR(45)	Staff members first name.
last_name	N/A	VARCHAR(45)	Staff members last name.
address_id	Foreign	SMALLINT	Unique address ID references to the address table.
email	N/A	VARCHAR(50)	Customers email address.
store_id	N/A	SMALLINT	Unique store ID references to the store table.
active	N/A	BOOLEAN	Staff activity status indicator.
username	N/A	VARCHAR(16)	Staff members username.
password	N/A	VARCHAR(40)	Staff members password.
picture	N/A	BYTEA	Staff members picture.

3. Inventory Table:

Column Name	Key	Data Type	Description
inventory_id	Primary	SERIAL	Unique inventory ID referencing to each inventory item.
film_id	Foreign	SMALLINT	Unique film ID references to the film table.
store_id	Foreign	SMALLINT	Unique store ID references to the store table.
last_update	N/A	TIMESTAMP WITHOUT TIME ZONE	Timeline when the last update was performed for the record.

4. Film Table:

Column Name	Key	Data Type	Description
film_id	Primary	SERIAL	Unique film ID references to the film table.
title	N/A	VARCHAR(255)	Title for the film.
description	N/A	TEXT	Description of the film.
release_year	N/A	YEAR	Year in which in the film was released.
language_id	Foreign	SMALLINT	Unique language ID references to the language table.
rental_duration	N/A	SMALLINT	Rental period duration.
rental_rate	N/A	NUMERIC(4,2)	Rental rate of the film.
length	N/A	SMALLINT	Length of the film in minutes.
replacement_cost	N/A	NUMERIC(5,2)	The replacement cost of the film.
rating	N/A	MPAA_RATING	Film rating(Like: G, PG-13, PG, R, NC-17)
last_update	N/A	TIMESTAMP WITHOUT TIME ZONE	Timeline when the last update was performed for the record.
special_features	N/A	TEXT[]	Any special features will be listed here.
fulltext	N/A	TSVECTOR	Full text search vector for the film will be mentioned here.

5. Film Category Table:

Column Name	Key	Data Type	Description
film_id	Foreign	SMALLINT	Unique film ID references to the film table.
category_id	Foreign	SMALLINT	Unique category ID references to the category table.
last_update	N/A	TIMESTAMP WITHOUT TIME ZONE	Description of the film.

6. Film Actor Table:

Column Name	Key	Data Type	Description
actor_id	Foreign	SMALLINT	Unique actor ID references to the actor table.
film_id	Foreign	SMALLINT	Unique film ID references to the film table.
last_update	N/A	TIMESTAMP WITHOUT TIME ZONE	Timeline when the last update was performed for the record.

7. Actor Table:

Column Name	Key	Data Type	Description
actor_id	Primary	SMALLINT	Unique actor ID references to the actor table.
first_name	N/A	VARCHAR(45)	Staff members first name.
last_name	N/A	VARCHAR(45)	Staff members last name.
last_update	N/A	TIMESTAMP WITHOUT TIME ZONE	Timeline when the last update was performed for the record.

8. Category Table:

Column Name	Key	Data Type	Description
category_id	Primary	SMALLINT	Unique actor ID references to the actor table.
name	N/A	VARCHAR(25)	Name of the category is mentioned here.
last_update	N/A	TIMESTAMP WITHOUT TIME ZONE	Timeline when the last update was performed for the record.

9. Language Table:

Column Name	Key	Data Type	Description
language_id	Primary	SMALLINT	Unique actor ID references to the actor table.
name	N/A	VARCHAR(20)	Name of the language is mentioned here.
last_update	N/A	TIMESTAMP WITHOUT TIME ZONE	Timeline when the last update was performed for the record.

10. Store Table:

Column Name	Key	Data Type	Description
store_id	Primary	SERIAL	Unique actor ID references to the actor table.
manager_staff_id	Foreign	SMALLINT	Unique manager/staff ID references to the staff table.
address_id	Foreign	SMALLINT	Unique address ID references to the address table.
last_update	N/A	TIMESTAMP WITHOUT TIME ZONE	Timeline when the last update was performed for the record.

11. Address Table:

Column Name	Key	Data Type	Description
address_id	Primary	SERIAL	Unique address ID references to the address table.
address	N/A	VARCHAR(50)	The first line for the address of the record.
address2	N/A	VARCHAR(50)	Optional second line for the address.
district	N/A	VARCHAR(50)	District name of the record.
city_id	Foreign	SMALLINT	Unique city ID references to the city table.
postal_code	N/A	VARCHAR(10)	Postal code for the record.
phone	N/A	VARCHAR(20)	Phone number for the record.
last_update	N/A	TIMESTAMP WITHOUT TIME ZONE	Timeline when the last update was performed for the record.

12. City Table:

Column Name	Key	Data Type	Description
city_id	Primary	SERIAL	Unique city ID for each record.
city	N/A	VARCHAR(50)	The name of the city.
country_id	Foreign	SMALLINT	Unique country ID references to the country table.
last_update	N/A	TIMESTAMP WITHOUT TIME ZONE	Timeline when the last update was performed for the record.

13. Country Table:

Column Name	Key	Data Type	Description
country_id	Primary	SERIAL	Unique country ID for each record.
country	N/A	VARCHAR(50)	The name of the country.
last_update	N/A	TIMESTAMP WITHOUT TIME ZONE	Timeline when the last update was performed for the record.