

06/02/23

Rockbuster Stealth Data Dictionary



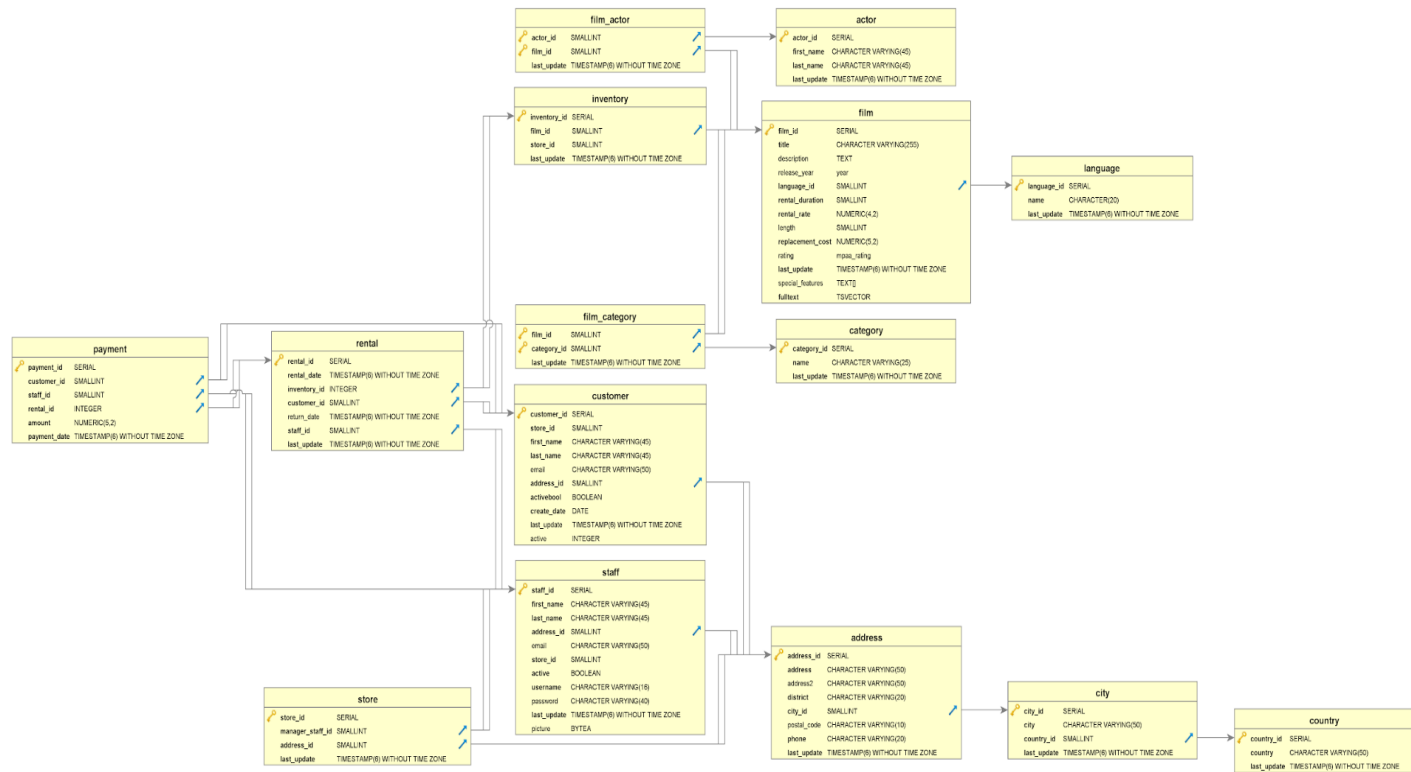
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Rockbuster Sleath LLC

Rockbuster Stealth LLC is a movie rental company that has multiple stores all over the world. Rockbuster database has detailed information about movie rentals, which can be analyzed and used to develop a strategy for the new online video service.

Entity Relationship Diagram



FACT TABLE

Rental table

Columns:

Column	Data type	Description
rental_id	SERIAL	unique rental ID
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	date of rental
inventory_id	INTEGER	unique inventory ID
customer_id	SMALLINT	unique customer ID
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	date of return
staff_id	SMALLINT	unique staff ID
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update of table

Links to:

Table	Join	Description
Customer	Rental.customer_id = Customer.customer_id	Foreign Key reference to customer table
Inventory	Rental.inventory_id = Inventory.inventory_id	Foreign Key reference to inventory table
Staff	Rental.staff_id = Staff.staff_id	Foreign Key reference to staff table

Links from:

Table	Join	Description
Payment	Rental.rental_id = Payment.rental_id	Foreign Key reference to payment table

Unique keys:

Column	Key type	Description
rental_id	Primary Key	Unique identifier for rental
inventory_id	Foreign Key	Unique identifier for inventory
customer_id	Foreign Key	Unique identifier for customer
staff_id	Foreign Key	Unique identifier for staff

DIMENSION TABLES

Film_actor table

Columns:

Column	Data type	Description
actor_id	SMALLINT	unique actor ID
film_id	SMALLINT	unique film ID
last_update	TIMESTAMP(6)WITHOUT TIME ZONE	time of last update of table

Links to:

Table	Join	Description
Actor	Film_Actor.actor_id = Actor.actor_id	Foreign Key reference to Actor Table
Film	Film_Actor.film_id = Film.film_id	Foreign Key reference to Film Table

Links from:

The Film_actor Table does not link to any other table.

Unique keys:

Column	Key type	Description
actor_id	Primary Key	Unique identifier for actor
film_id	Foreign Key	Unique identifier for film

Actor table

Columns:

Column	Data type	Description
actor_id	SERIAL	unique actor ID
first_name	CHARACTER VARYING(45)	actor's first name, max 45 characters
last_name	CHARACTER VARYING(45)	actor's last name, max 45 characters
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	time of last update of table

Links to:

The Actor Table does not link to any other table.

Links from:

Table	Join	Description
Film_actor	Actor.actor_id = Film_Actor.actor_id	Foreign Key reference for film_actor table

Unique keys:

Column	Key type	Description
actor_id	Primary Key	Unique identifier for actor

Inventory table

Columns:

Column	Data type	Description
inventory_id	SERIAL	unique inventory ID
film_id	SMALLINT	unique film ID
store_id	SMALLINT	unique store ID
last_update	TIMESTAMP(6)WITHOUT TIME ZONE	time of last update of table

Links to:

Table	Join	Description
Film	Inventory.film_id = Film.film_id	Foreign Key reference for film table

Links from:

Table	Join	Description
Rental	Inventory.inventory_id = Rental.inventory_id	Foreign Key reference for rental table

Unique keys:

Column	Key type	Description
inventory_id	Primary Key	Unique identifier for inventory
film_id	Foreign Key	Unique identifier for film

Film table

Columns:

Column	Data type	Description
film_id	SERIAL	unique film ID
title	CHARACTER VARYING(255)	title of film, max 255 characters
description	TEXT	description of the film
release_year	year	year when the film was released
language_id	SMALLINT	unique language ID
rental_duration	SMALLINT	duration of rental
rental_rate	NUMERIC(4,2)	cost of rental
length	SMALLINT	length of the film
replacement_cost	NUMERIC(5,2)	price of film's replacement
rating	mpaa_rating	rating of the film
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update of table
special_features	TEXT[]	special features of film
fulltext	TSVECTOR	full text index

Links to:

Table	Join	Description
Language	Film.language_id = Language.language_id	Foreign Key reference for language table

Links from:

Table	Join	Description
Film_actor	Film.film_id = Film_Actor.film_id	Foreign Key reference for film_actor table
Inventory	Film.film_id = Inventory.film_id	Foreign Key reference for inventory table
Film_category	Film.film_id = Film_Category.film_id	Foreign Key reference for film_category table

Unique keys:

Column	Key type	Description
film_id	Primary Key	Unique identifier for film
Language_id	Foreign Key	Unique identifier for language

Category table

Columns:

Column	Data type	Description
category_id	SERIAL	unique category ID
name	CHARACTER VARYING(25)	name of category, max 25 characters
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update of table

Links to:

The Category Table does not link to any other table.

Links from:

Table	Join	Description
Film_category	Category.category_id = Film_category.category_id	Foreign Key reference for film_category table

Unique Keys:

Column	Key type	Description
category_id	Primary Key	Unique identifier for category

Language table

Columns:

Column	Data type	Description
language_id	SERIAL	unique language ID
name	CHARACTER(20)	name of the language, max 20 characters
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update of table

Links to:

The Language Table does not link to any other table.

Links from:

Table	Join	Description
Film	Language.language_id = Film.language_id	Foreign Key reference for film table

Unique keys:

Column	Key type	Description
language_id	Primary Key	Unique identifier for language

Film_category table

Columns:

Column	Data type	Description
film_id	SMALLINT	unique film ID
category_id	SMALLINT	unique category ID
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update of table

Links to:

Table	Join	Description
Film	Film_Category.film_id = Film.film_id	Foreign Key reference for film table
Category	Film_Category.category_id = Category.category_id	Foreign Key reference for category table

Links from:

The Film_Category Table does not link from any other table.

Unique keys:

Column	Key type	Description
film_id	Primary Key	Unique identifier for film
category_id	Foreign key	Unique identifier for category

Customer table

Columns:

Column	Data type	Description
customer_id	SERIAL	unique customer ID
store_id	SMALLINT	unique store ID
first_name	CHARACTER VARYING(45)	customer's first name, max 45 characters
last_name	CHARACTER VARYING(45)	customer's last name, max 45 characters
email	CHARACTER VARYING(50)	customer's email, max 50 characters
address_id	SMALLINT	unique address ID
activebool	BOOLEAN	status whether the customer is active or not
create_date	DATE	date when customer's profile was created
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update of table
active	INTEGER	status whether the customer is active or not, represented by 0 or 1

Links to:

Table	Join	Description
Address	Customer.address_id = Address.address_id	Foreign Key reference for address table

Links from:

Table	Join	Description
Payment	Customer.customer_id = Payment.customer_id	Foreign Key reference for payment table
Rental	Customer.customer_id = Rental.customer_id	Foreign Key reference for rental table

Unique keys:

Column	Key type	Description
customer_id	Primary Key	Unique identifier for customer
address_id	Foreign key	Unique identifier for address

Staff table

Columns:

Column	Data type	Description
staff_id	SERIAL	unique staff ID
first_name	CHARACTER VARYING(45)	staff's first name, max 45 characters
last_name	CHARACTER VARYING(45)	staff's last name, max 45 characters
address_id	SMALLINT	unique address ID
email	CHARACTER VARYING(50)	staff's email, max 50 characters
store_id	SMALLINT	unique store ID
active	BOOLEAN	status whether the staff is active or not
username	CHARACTER VARYING(16)	Staff's username, max 16 characters
password	CHARACTER VARYING(40)	staff's password, max 40 characters
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update of table
picture	BYTEA	picture of staff member

Links to:

Table	Join	Description
Address	Staff.address_id = Address.address_id	Foreign Key reference for address table

Links from:

Table	Join	Description
Payment	Staff.staff_id = Payment.staff_id	Foreign Key reference for payment table
Rental	Staff.staff_id = Rental.staff_id	Foreign Key reference for rental table
Store	Staff.staff_id = Store.staff_id	Foreign Key reference for store table

Unique keys:

Column	Key type	Description
staff_id	Primary Key	Unique identifier for staff
address_id	Foreign key	Unique identifier for address

Store table

Columns:

Column	Data type	Description
store_id	SERIAL	unique store ID
manager_staff_id	SMALLINT	unique manager staff ID
address_id	SMALLINT	unique address ID
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update of table

Links to:

Table	Join	Description
Address	Store.address_id = Address.address_id	Foreign Key reference for address table
Staff	Store.manager_staff_id = Staff.staff_id	Foreign Key reference for staff table

Links from:

The Store Table does not link from any other table.

Unique keys:

Column	Key type	Description
store_id	Primary Key	Unique identifier for store
address_id	Foreign key	Unique identifier for address
staff_id	Foreign key	Unique identifier for staff

Address table

Columns:

Column	Data type	Description
address_id	SERIAL	unique address ID
address	CHARACTER VARYING(50)	address line 1, max 50 characters
address2	CHARACTER VARYING(50)	address line 2, max 50 characters
district	CHARACTER VARYING(20)	district, max 20 characters
city_id	SMALLINT	unique city ID
postal_code	CHARACTER VARYING(10)	postal code, max 10 characters
phone	CHARACTER VARYING(20)	phone number, max 20 characters
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update of table

Links to:

Table	Join	Description
City	Address.city_id = City.city_id	Foreign Key reference for city table

Links from:

Table	Join	Description
Customer	Address.address_id = Customer.address_id	Foreign Key reference for customer table
Staff	Address.address_id = Staff.address_id	Foreign Key reference for staff table
Store	Address.address_id = Store.address_id	Foreign Key reference for store table

Unique keys:

Column	Key type	Description
address_id	Primary Key	Unique identifier for address
city_id	Foreign key	Unique identifier for city

City table

Columns:

Column	Data type	Description
city_id	SERIAL	unique city ID
city	CHARACTER VARYING(50)	name of city, max 50 characters
country_id	SMALLINT	unique country ID
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update of table

Links to:

Table	Join	Description
Country	City.country_id = Country.country_id	Foreign Key reference for city table

Links from:

Table	Join	Description
Address	City.city_id = Address.city_id	Foreign Key reference for city table

Unique keys:

Column	Key type	Description
city_id	Primary Key	Unique identifier for city
country_id	Foreign key	Unique identifier for country

Country table

Columns:

Column	Data type	Description
country_id	SERIAL	unique country ID
country	CHARACTER VARYING(50)	name of country, max 50 characters
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update of table

Links to:

The Country Table does not link to any other table.

Links from:

Table	Join	Description
City	Country.country_id = City.country_id	Foreign Key reference for city table

Unique keys:

Column	Key type	Description
country_id	Primary Key	Unique identifier for country

Payment table

Columns:

Column	Data type	Description
payment_id	SERIAL	unique payment ID
customer_id	SMALLINT	unique customer ID
staff_id	SMALLINT	unique staff ID
rental_id	INTEGER	unique rental ID
amount	NUMERIC(5,2)	amount of payment
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	date of payment

Links to:

Table	Join	Description
Customer	Payment.customer_id = Customer.customer_id	Foreign Key reference for customer table
Staff	Payment.staff_id = Staff.staff_id	Foreign Key reference for staff table
Rental	Payment.rental_id = Rental.rental_id	Foreign Key reference for rental table

Links from:

The Payment Table does not link from any other table.

Unique keys:

Column	Key type	Description
payment_id	Primary Key	Unique identifier for payment

customer_id	Foreign key	Unique identifier for customer
staff_id	Foreign key	Unique identifier for staff
rental_id	Foreign key	Unique identifier for rental