

Rockbuster Stealth, LLC

Data Dictionary

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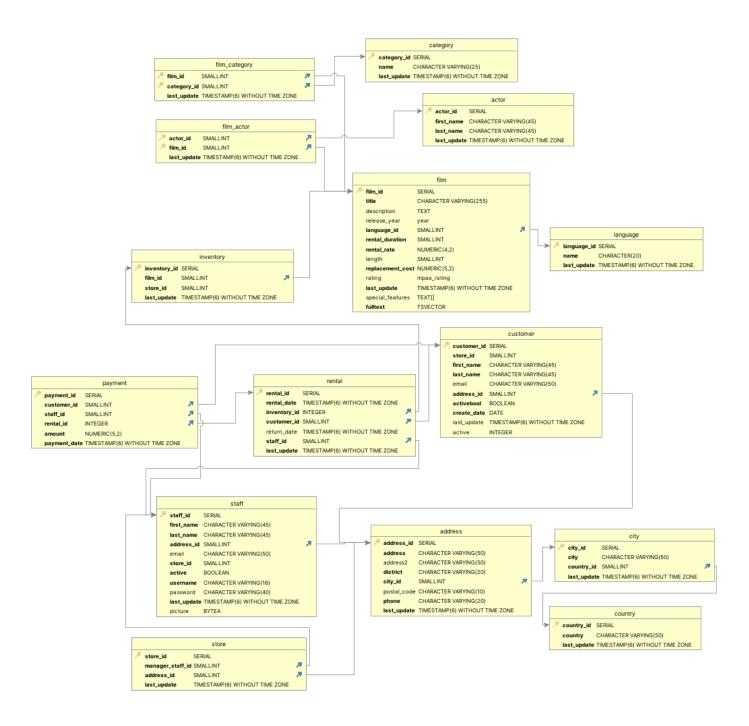
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1. Rockbuster Stealth, LLC

Rockbuster Stealth, LLC is a global movie rental company. They are transitioning to online video rental services to compete against other streaming services. Rockbuster has an inventory of 1,000 films. The database contains information about rentals, customers, employees, stores, films, payments and relevant addresses. The data from this database will be used to create a launch strategy for streaming services.

The database is available for download here: Rockbuster Dataset

2. Entity Relationship Diagram



Legend



3. Fact Tables

3.1 Table: payment

Description: Payment transactions for all rentals including associated staff member.

3.1 Columns

Column Name	Data Type	Description
payment_id	SERIAL	Unique payment identifier
customer_id	SMALLINT	Unique customer identifier
staff_id	SMALLINT	Unique staff member identifier
rental_id	INTEGER	Unique rental identifier
amount	NUMERIC(5,2)	Amount paid written as x.xx (USD)
payment_date	TIMESTAMP(6_ WITHOUT TIME ZONE	Date of payment

Links to

Table		Join	Description
	customer	payment.customer_id =	Foreign key constraint referencing
		customer.customer_id	customer.customer_id
	rental	payment.rental_id =	Foreign key constraint referencing
		rental.rental_id	rental.rental_id
	staff	payment.staff_id =	Foreign key constraint referencing
		staff.staff_id	staff.staff_id

Links from

This table does not link from any tables.

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

3.2 Table: rental

Description: Customer movie rentals and returns

Columns

Column Name	Data Type	Description
rental_id	SERIAL	Unique rental identifier
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 rental return
staff_id	SMALLINT	Unique staff identifier
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last rental update

Links to

Table		Join	Description
	inventory	rental.inventory_id =	Foreign key constraint referencing
		inventory.inventory_id	inventory.inventory_id
	customer	rental.customer_id =	Foreign key constraint referencing
		customer.customer_id	customer.customer_id
	staff	rental.staff_id =	Foreign key constraint referencing
		staff.staff_id	staff.staff_id

Links from

Table		Join	Description
	payment	payment.rental_id	Foreign key constraint referencing
		= rental.rental_id	rental.rental_id

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 member

4. Dimension Tables

4.1 Table: actor

Description: Information identifying actors from each of the films.

Columns

Column Name	Data Type	Description
	SERIAL	Unique identifier for actor
actor_id		
first_name	CHARACTER VARYING(45)	Actor first name
last_name	CHARACTER VARYING(45)	Actor last name
last_update	TIMESTAMP(6) WITHOUT	Last update of actor
·	TIME ZONE	

Links to

This table does not link to any other tables.

Links from

Table		Join Description	
	film_actor	actor.actor_id =	Foreign key constraint referencing
		film_actor.actor_id	film_actor.actor_id

Column	Key Type	Description
actor_id	Primary	Unique identifier for actor

4.2 Table: address

Description: Customer, store, and staff address details.

Columns

Column Name	Data Type	Description
address_id	SERIAL	Unique identifier for address
address	CHARACTER VARYING(50)	Street number of address
address2	CHARACTER VARYING(50)	Second line of address, usually a suite number
district	CHARACTER VARYING(50)	District of address
city_id	SMALLINT	Unique identifier for city
postal_code	CHARACTER VARYING(50)	Address postal code
phone	CHARACTER VARYING(50)	Phone number for address
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update for address

Links to

Table	Join	Description
city	address.city_id =	Foreign key constraint referencing
	city.city_id	city.city_id

Links from

Table	Join	Description
customer	customer.address_id =	Foreign key constraint referencing
	address.address_id	customer.address_id
staff	staff.address_id =	Foreign key constraint referencing
	address.address_id	staff.address_id
store	store.address_id =	Foreign key constraint referencing
	address.address_id	store.address_id

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

4.3 Table: category

Description: Film category (genre) of each film.

Columns

Column Name	Data Type	Description
	SERIAL	Unique identifier for category (genre)
category_id		
name	CHARACTER VARYING(25)	Category (genre) name
last_update	TIMESTAMP(6) WITHOUT	Last update for category
	TIME ZONE	

Links to

The category table does not link to any other tables.

Links from

Table	Join	Description
film_category	film_category.category_id	Foreign key constraint referencing
	= category.category_id	film_category_id

Column	Key Type	Description
category_id	Primary key	Unique identifier for film category

4.4 Table: city

Description: City names of each address entry.

Columns

Column Name	Data Type	Description
city_id	SERIAL	Unique identifier for city
city	CHARACTER VARYING(50)	Name of city
country_id	SMALLINT	Unique identifier for country of the city
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update for city

Links to

Table		Join	Description
	country	city.country_id =	Foreign key constraint referencing
		country.country_id	country.country_id

Links from

Table	Join	Description
address	address.city_id =	Foreign key constraint referencing
	city.city_id	address.city_id

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

4.5 Table: country

Description: Country names of each address

Columns

Column Name	Data Type	Description
	SERIAL	Unique identifier for country
country_id		
country	CHARACTER VARYING(50)	Name of country
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update for country

Links to

The country table does not link to any other tables.

Links from

Table	Join	Description
city	city.country_id =	Foreign key constraint referencing
	country.country_id	city.country_id

Column	Key Type	Description
country_id	Primary key	Unique identifier for country

4.6 Table: customer

Description: Customer personal information including names, emails, address ids, account creation date, and account status

Columns

Column Name	Data Type	Description
customer_id	SERIAL	Unique identifier for customer
store_id	SMALLINT	Unique identifier for store
first_name	CHARACTER VARYING(45)	First name of customer
last_name	CHARACTER VARYING(45)	Last name of customer
email	CHARACTER VARYING(50)	Email of customer
address_id	SMALLINT	Unique identifier for customer address
activebool	BOOLEAN	Active account (true/false/null)
create_date	DATE	Date of customer account creation
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update for customer
active	INTEGER	Active account 0 or 1

Links to

Table		Join	Description
	address	customer.address_id =	Foreign key constraint referencing
		address.address_id	address.address_id

Links from

Table	Join	Description
payment	payment.customer_id =	Foreign key constraint referencing
	customer.customer_id	payment.customer_id

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

4.7 Table: film

Description: Each film's title, description, release year, language id, length, rental rate, rental duration, rating, replacement cost, and special features.

Columns

Column Name	Data Type	Description
film_id	SERIAL	Unique film identifier
title	CHARACTER VARYING(255)	Name of film
description	TEXT	Description of film
release_year	year	Film release year
language_id	SMALLINT	Unique language identifier
rental_duration	SMALLINT	Number of days rented
rental_rate	NUMERIC(4,2)	Cost of rental (in USD, x.xx)
length	SMALLINT	Length of film (in minutes)
replacement_cost	NUMERICA(5,2)	Cost to replace film (in USD, x.xx)
rating	mpaa_rating	Rating P, PG, PG-13, NC-17, R
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update for film

Links to

Table	Join	Description
languag	e film.language_id =	Foreign key constraint referencing
	language.language_id	language.language_id

Links from

Table	Join	Description
inventory	inventory.film_id =	Foreign key constraint referencing
	film.film_id	inventory.film_id
film_actor	film.film_id =	Foreign key constraint referencing
	film_actor.film_id	film_actor.film_id
film_category	film.film_id =	Foreign key constraint referencing
	film_category.film_id	film_category.film_id

Column	Key Type	Description
film_id	Primary key	Unique identifier for each film
language_id	Foreign key	Unique identifier for each language

4.8 Table: film_actor

Description: Information about each actor from all of the films in the inventory

Columns

Column Name	Data Type	Description
€ actor_id	SMALLINT	unique actor identifier
€ film_id	SMALLINT	unique film identifier
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last update film actor

Links to

Table	Join	Description
actor	film_actor.actor_id =	Foreign key constraint referencing actor
	actor.actor_id	
film_category	film_actor.film_id =	Foreign key constraint referencing film
	film_category.film_id	category

Links from

The film_actor table does not link from any other table.

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

4.9 Table: film_category

Description: Table connecting films to their category(genre).

Columns

Column Name	Data Type	Description
€ film_id	SMALLINT	Unique film identifier
category_id	SMALLINT	Unique category (genre) identifier
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update for film category

Links to

Table		Join	Description
	film_actor	film_category.film_id =	Foreign key constraint referencing
		film_actor.film_id	film_actor.film_id
	category	film_category.category_id	Foreign key constraint referencing
		= category.category_id	category.category_id

Links from

The film_category table does not link from any other tables.

Column	Key Type	Description
film_id	Primary & Foreign	Unique identifier for film
category_id	Primary & Foreign	Unique identifier for category

4.10 Table: inventory

Description: Contains story and inventory identifiers for all of the films in the inventory

Columns

Column Name	Data Type	Description
	SERIAL	Unique inventory identifier
inventory_id		
film_id	SMALLINT	Unique film identifier
store_id	SMALLINT	Unique store identifier
last_update	TIMESTAMP(6) WITHOUT	Last update inventory
_ •	TIME ZONE	

Links to

Table	Join	Description
film	inventory.film_id =	Foreign key constraint referencing film
	film.film_id	

Links from

Table	Join	Description
rental	rental.inventory_id =	Foreign key constraint referencing
	inventory.inventory_id	rental.inventory_id

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

4.11 Table: language

Description: Identifies the languages of each of the films

Columns

Column Name	Data Type	Description
	SERIAL	Unique language identifier
language_id		
name	CHARACTER(20)	Name of language
last_update	TIMESTAMP(6) WITHOUT	Last update language
	TIME ZONE	

Links to

The language table does not link to any other table in the database.

Links from

Table	Join	Description
film	film.language_id =	Foreign key constraint referencing
	language.language_id	film.language_id

Column	Key Type	Description
language_id	Primary key	Unique identifier for language

4.12 Table: staff

Description: Personal information about staff including names, addresses, emails, stores, passwords, ids, and pictures.

Columns

Column Name	Data Type	Description
staff_id	SERIAL	Unique staff identifier
first_name	CHARACTER VARYING(45)	First name of staff member
last_name	CHARACTER VARYING(45)	Last name of staff member
address_id	SMALLINT	Staff member unique address identifier
email	CHARACTER VARYING(50)	Staff member email address
store_id	SMALLINT	Unique store identifier
active	INTEGER	Active staff member true/false
username	CHARACTER VARYING(16)	Staff username
password	CHARACTER VARYING(40)	Staff password
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update staff
picture	BYTEA	Picture of staff member

Links to

Table		Join	Description
	address	staff.address_id =	Foreign key constraint referencing
		address.address_id	address.address_id

Links from

Table	Join	Description
payme	nt payment.staff_id =	Foreign key constraint referencing
	staff.staff_id	payment.staff_id
rent	al rental.staff_id =	Foreign key constraint referencing
	staff.staff.id	rental.rental_id
sto	e store.store_id =	Foreign key constraint referencing
	staff.store_id	store.store_id

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

4.13 Table: store

Description: Store manager and store address information

Columns

Column Name D	ata Type	Description
story_id	SERIAL	Unique store identifier
manager_staff_id	SMALLINT	Unique manager identifier
address_id	SMALLINT	Unique store address identifier
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update store

Links to

Table	Join	Description
rental	store.manager_staff_id	Foreign key constraint referencing staff
	= rental.staff_id	member
address	store.address_id =	Foreign key constraint referencing store
	address.address_id	address

Links from

The store table does not link from any other tables in the database.

Column	Key Type	Description
story_id	Primary key	Unique identifier for store
manager_staff_id	Foreign key	Unique identifier for manager staff
address_id	Foreign key	Unique identifier for store address