Rockbuster Stealth

Data Dictionary

Late Updated

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Table of Contents

1 Rockbuster Stealth 2
2 Entity Relationship Diagram 3
3 Legend 5
4 Fact Table 6
4.1 Rental 6
5 Dimension Tables 7
5.1 Customer 7
5.2 Payment 7
5.3 Store 7
5.4 Staff 8
5.5 Address 8
5.6 City 8
5.7 Country 9
5.8 Inventory 9
5.9 Film 9
5.10 Language 10
5.11 Film Actor 10
5.12 Actor 10
5.13 Film Category 10
5.14 Category 10

1 Rockbuster Stealth

Rockbuster Stealth LLC is a movie rental store that used to have stores around the world. Facing stiff competition from streaming services such as Netflix and Amazon Prime, the Rockbuster Stealth management team is planning to use its existing movie licenses to launch an online video rental service to stay competitive.

The Rockbuster database supports standard online processing for rental transactions and film searches.

The Rockbuster database can be downloaded here:

- Rockbuster Data

2 Entity Relationship Diagram

language
language_id SERIAL
name CHARACTER(20)
last_update TIMESTAMP(6) WITHOUT TIME ZONE
actor
actor_id SERIAL
first_name CHARACTER VARYING(45)
last_name CHARACTER VARYING(45)
last_update TIMESTAMP(6) WITHOUT TIME ZONE
film
film_id SERIAL
title CHARACTER VARYING(255)
description TEXT
release_year year
language_id SMALLINT
rental_duration SMALLINT
rental_rate NUMERIC(4,2)
length SMALLINT
replacement_cost NUMERIC(5,2)
rating mpaa_rating
last_update TIMESTAMP(6) WITHOUT TIME ZONE
special_features TEXT[]
fulltext TSVECTOR
store_id INTEGER
film_actor
actor_id SMALLINT
film_id SMALLINT
last_update TIMESTAMP(6) WITHOUT TIME ZONE
film_category
film_id SMALLINT
category_id SMALLINT
last_update TIMESTAMP(6) WITHOUT TIME ZONE
category
category_id SERIAL
name CHARACTER VARYING(25)
last_update TIMESTAMP(6) WITHOUT TIME ZONE
rental
rental_id SERIAL
rental_date TIMESTAMP(6) WITHOUT TIME ZONE
inventory_id INTEGER
customer_id SMALLINT
return_date TIMESTAMP(6) WITHOUT TIME ZONE
staff_id SMALLINT
last_update TIMESTAMP(6) WITHOUT TIME ZONE
inventory
inventory_id SERIAL
film_id SMALLINT
store_id SMALLINT
last_update TIMESTAMP(6) WITHOUT TIME ZONE

3 Legend

- Primary Key
- Foreign Key

4 Fact Table

4.1 Rental

	Columns	Data Type	Description	Links To
	rental_id	SERIAL	Unique ID assigned to each rental time	payment
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time item was rented out	
	inventory_id	INTEGER	ID assigned for inventory records	inventory
	customer_id	SMALLINT	Unique customer ID	customer
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time item was returned	
	staff_id	SMALLINT	ID of staff who processed rental	staff
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time data was last updated.	

5 Dimension Tables

5.1 Customer

	Columns	Data Type	Description	Links To
🔑	customer_id	SERIAL	Unique customer ID	rental, payment
🔑	store_id	SMALLINT	Unique store ID	store
	first_name	CHARACTER VARYING (45)	Customer first name	
	last_name	CHARACTER VARYING (45)	Customer last name	
	email	CHARACTER VARYING (50)	Customer email address	
🔑	address_id	SMALLINT	Customer address ID	address
	activebool	BOOLEAN	Customer status; active or not (true/false)	
	create_date	DATE	Date customer membership created	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time data was last updated.	
	active	INTERGER	Customer has rental out; yes/no (1/0)	

5.2 Payment

	Columns	Data Type	Description	Links To
	payment_id	SERIAL	Transaction ID	
🔑	customer_id	SMALLINT	Unique customer ID	customer
🔑	staff_id	SMALLINT	ID of staff who processed transaction	staff
🔑	rental_id	INTERGER	Unique ID of rental item	rental
	amount	NUMERIC[5,2]	Amount paid by customer	
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of payment	

5.3 Store

	Columns	Data Type	Description	Links To
	store_id	SERIAL	Store ID	
🔑	manager_staff_id	SMALLINT	ID of store manager	staff
🔑	address_id	SMALLINT	store address ID	address
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time entry last updated	

5.4 Staff

	Columns	Data Type	Description	Links To
🔑	staff_id	SERIAL	Unique staff ID	payment, rental
	first_name	CHARACTER VARYING (45)	Staff first name	
	last_name	CHARACTER VARYING (45)	Staff last name	
🔑	address_id	SMALLINT	Unique address ID	address
	email	CHARACTER VARYING (50)	Staff email address	
🔑	store_id	SMALLINT	Store ID	store
	active	BOOLEAN	Staff member active status (true/false)	
	username	CHARACTER VARYING(16)	Staff login username	
	password	CHARACTER VARYING(40)	Staff login password	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time entry last updated	
	picture	BYTEA	Staff photo	

5.5 Address

	Columns	Data Type	Description	Links To
🔑	address_id	SERIAL	Unique address ID	staff, customer
	address	CHARACTER VARYING(50)	Actual address	
	address 2	CHARACTER VARYING(50)	Additional address info (ie Apartment number)	
	district	CHARACTER VARYING (20)	State, province, or equivalent	
🔑	city_id	SMALLINT	Unique city ID	city
	postal_code	CHARACTER VARYING(10)	Postal code	
	phone	CHARACTER VARYING(20)	Phone number	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time entry last updated	

5.6 City

	Columns	Data Type	Description	Links To
🔑	city_id	SERIAL	Unique city ID	address
	city	CHARACTER VARYING(50)	City name	
🔑	country_id	SMALLINT	Unique country ID	country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time entry last updated	

5.7 Country

	Columns	Data Type	Description	Links To
🔑	country_id	SERIAL	Unique country ID	city
	country	CHARACTER VARYING(50)	Country name	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time entry last updated	

5.8 Inventory

	Columns	Data Type	Description	Links To
🔑	inventory_id	SERIAL	ID assigned for inventory records	rental
🔑	film_id	SMALLINT	Unique ID assigned to each movie	film
🔑	store_id	SMALLINT	Store ID	store
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time entry last updated	

5.9 Film

	Columns	Data Type	Description	Links To
🔑	film_id	SERIAL	Unique film ID	film_actor, category
	title	CHARACTER VARYING(50)	Name of film	
	description	TEXT	Description of film	
	release_year	YEAR	Year film was released	
🔑	language_id	SMALLINT	ID number for movie language	language
	rental_duration	SMALLINT	Days film can be rented out	
	rental_rate	NUMERIC[4,2]	Price of rental	
	length	SMALLINT	Length of movie	
	replacement_cost	SUMERIC[5,2]	Price to replace movie if lost	
	rating	MPAA_RATING	Motion picture association of America parental guide ratings	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time entry last updated	
	special_features	TEXT[]	Special features available on disc	
	fulltext	TSVECTOR	Key words and variants for search functions	

5.10 Language

	Columns	Data Type	Description	Links To
🔑	language_id	SERIAL	ID number for movie language	film
	name	CHARACTER(20)	Language name	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time entry last updated	

5.11 Film Actor

	Columns	Data Type	Description	Links To
🔑	actor_id	SMALLINT	Unique actor ID	actor
🔑	film_id	SMALLINT	Unique film ID	film
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time entry last updated	

5.12 Actor

	Columns	Data Type	Description	Links To
🔑	actor_id	SERIAL	Unique actor ID	film_actor
	first_name	CHARACTER VARYING(45)	Actor first name	
	last_name	CHARACTER VARYING(45)	Actor last name	
	last_update	TIMESTAMPE(6)WITHOUT TIME ZONE	Date and time entry last updated	

5.13 Film Category

	Columns	Data Type	Description	Links To
🔑	film_id	SMALLINT	Unique film ID	film, film_actor
🔑	category_id	SMALLINT	Unique category ID	category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time entry last updated	

5.14 Category

	Columns	Data Type	Description	Links To
🔑	category_id	SERIAL	Unique category ID	film_category
	name	CHARACTER VARYING(25)	Category name	
	laste_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time entry last updated	