ROCKBUSTER SEALTH

Data Dictionary

Thea Layton

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Career Foundry – Achievement 3

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Rockbuster Stealth

Rockbuster Stealth LLC is a movie rental company that used to have stores around the world. The Rockbuster Stealth management team is planning to use its existing movie licenses to launch an online video rental service in order to stay competitive.

Included is the detailed breakdown of the data and their relationships used in the Rockbuster Database.

Entity Relationship Diagram

film_actor
actor_id	SMALLINT
film_id	SMALLINT
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

inventory
inventory_id	SERIAL
film_id	SMALLINT
store_id	SMALLINT
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

language
language_id	SERIAL
name	CHARACTER(20)
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

payment
payment_id	SERIAL
customer_id	SMALLINT
staff_id	SMALLINT
rental_id	INTEGER
amount	NUMERIC(5,2)
payment_date	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

customer
customer_id	SERIAL
store_id	SMALLINT
first_name	CHARACTER VARYING(45)
last_name	CHARACTER VARYING(45)
email	CHARACTER VARYING(50)
address_id	SMALLINT
activebool	BOOLEAN
create_date	DATE
last_update	TIMESTAMP(6) WITHOUT TIME ZONE
active	INTEGER

staff
staff_id	SERIAL
first_name	CHARACTER VARYING(45)
last_name	CHARACTER VARYING(45)
address_id	SMALLINT
email	CHARACTER VARYING(50)
store_id	SMALLINT
active	BOOLEAN
username	CHARACTER VARYING(16)
password	CHARACTER VARYING(40)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE
picture	BYTEA

store
store_id	SERIAL
manager_staff_id	SMALLINT
address_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

address
address_id	SERIAL
address	CHARACTER VARYING(50)
address2	CHARACTER VARYING(50)
district	CHARACTER VARYING(20)
city_id	SMALLINT
postal_code	CHARACTER VARYING(10)
phone	CHARACTER VARYING(20)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

city
city_id	SERIAL
city	CHARACTER VARYING(50)
country_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

country
country_id	SERIAL
country	CHARACTER VARYING(50)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

Data Dictionary

Table Legend

Symbol	Meaning
🔑	Primary Key
➡	Foreign Key

Fact Tables

Payment

Columns:

Keys	Columns	Data Type	Description
🔑	Payment_id	SERIAL	Integer identification number for the payment transaction.
➡	Customer_id	SMALLINT	Customer identification given as an integer.
➡	Staff_id	SMALLINT	Staff identification given as an integer
➡	Rental_id	INTEGER	Rental ID given as an integer.
	Amount	NUMERIC(5,2)	The numeric payment amount with 5 digits and 2 decimal points.
	Payment_date	TIMESTAMP (6) WITHOUT TIME ZONE	This is the time stamp of the time of purchase, excluding time zone.

Linked To:

Table	Join	Description
Customer	Payment.customer_id = customer.customer_id	Foreign key referencing customer.
Staff	Payment.staff_id = staff.staff_id	Foreign key referencing staff.
Rental	Payment.rental_id = rental.rental_id	Foreign key referencing rental.

Store

Columns:

Keys	Columns	Data Type	Description
🔑	Store_id	SERIAL	Identification number of the store as an integer.
➡	Manager_staff_id	SMALLINT	Staff id of the store manager as an integer.
➡	Address_id	SMALLINT	The address of the store as integer.

	Last_updated	TIMESTAMP (6) WITHOUT TIME ZONE	A timestamp of the last time this info was updated.

Linked To:

Table	Join	Description
Adress	Store.address_id = address.address_id	Foreign key referencing address.
Staff	Store.staff_id = staff.staff_id	Foreign key referencing staff.

Film Actor

Columns:

Keys	Columns	Data Type	Description
🔑➡️	Actor_id	SMALLINT	Identification number of the actor as an integer
🔑➡️	Film_id	SMALLINT	Identification of the film as an integer.
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	The timestamp of the last time there was an update

Linked To:

Table	Join	Description
Actor	Film_actor.actor_id = actor.actor_id	Foreign key referencing actor.
Film	Film_actor.film_id = film.film_id	Foreign key referencing film.

Film Category

Columns:

Keys	Columns	Data Type	Description
🔑 ➡️	Film_id	SMALLINT	Identification of the film as an integer.
🔑 ➡️	Category_id	SMALLINT	Identification of the film category as an integer.
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	The timestamp of the last time there was an update

Linked To:

Table	Join	Description
Category	Film_category.category_id = category.category_id	Foreign key referencing category.
Film	Film_category.film_id = film.film_id	Foreign key referencing film.

Dimension Tables

Rental

Columns:

Keys	Columns	Data Type	Description
🔑	Rental_id	SERIAL	Rental ID given as an integer.
	Rental_date	TIMESTAMP (6) WITHOUT TIME ZONE	Timestamp of the start of rental without time zone.
➡	Inventory_id	INTEGER	Identification number for inventory records as an integer.
➡	Customer_id	SMALLINT	Customer identification given as an integer.
	Return_date	TIMESTAMP (6) WITHOUT TIME ZONE	The timestamp of when the rental was returned, excluding time zone.
➡	Staff_id	SMALLINT	Staff identification given as an integer
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	The timestamp of the last time there was an update to the rental.

Linked To:

Table	Join	Description
Inventory	Rental.inventory_id = inventory.inventory_id	Foreign key referencing inventory.
Customer	Rental.customer_id = customer.customer_id	Foreign key referencing customer.
Staff	Rental.staff_id = staff.staff_id	Foreign key referencing staff.

Linked From:

Table	Join	Description
Payment	Payment.rental_id = rental.rental_id	Foreign key referencing rental.

Customer

Columns:

Keys	Columns	Data Type	Description
🔑	Customer_id	SERIAL	Customer identification given as an integer.
	Store_id	SMALLINT	Identification number of the store as an integer.
	First_name	CHARACTER VARYING (45)	First name of customer with max 45 characters
	Last_name	CHARACTER VARYING (45)	Last name of customer with max 45 characters
	Email	CHARACTER VARYING (45)	Email of customer with max 45 characters
➡	Address_id	SMALLINT	The address of the customer as integer.
	Activebool	BOOLEAN	Convert values to true, false, or null to code if a customer is active or not.
	Create_date	DATE	The date the customer profile was created.
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	The timestamp of the last time there was an update
	active	INTEGER	Whether or not the customer is active given as a binary yes (1) or no (0)

Linked To:

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

Linked From:

Table	Join	Description
Payment	Payment.customer_id = customer.customer_id	Foreign key referencing customer.
Rental	Rental.customer_id = customer.customer_id	Foreign key referencing customer.

Staff

Columns:

Keys	Columns	Data Type	Description
🔑	Staff_id	SERIAL	Staff identification given as an integer
	First_name	CHARACTER VARYING (45)	First name of staff with max 45 characters.
	Last_name	CHARACTER VARYING (45)	Last name of staff with max 45 characters.
➔	Address_id	SMALLINT	The address of the staff as an integer.
	Email	CHARACTER VARYING (45)	Email of the staff with max of 45 characters.
	Store_id	SMALLINT	Identification number of the store as an integer.
	Active	BOOLEAN	Convert values to true, false, or null to code if it is an active staff member or not.
	Username	CHARACTER VARYING (45)	Username of staff member with varying character, max 45.
	Password	CHARACTER VARYING (45)	Password for staff member with varying characters, max 45.
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	The timestamp of the last time there was an update
	picture	BYTEA	Customer picture, allows storage of binary strings.

Linked To:

Table	Join	Description
Adress	Staff.address_id = address.address_id	Foreign key referencing address.

Linked From:

Table	Join	Description
Store	Store.staff_id = staff.staff_id	Foreign key referencing staff.
Payment	Payment.staff_id = staff.staff_id	Foreign key referencing staff.
Rental	Rental.staff_id = staff.staff_id	Foreign key referencing staff.

Inventory

Columns:

Keys	Columns	Data Type	Description
🔑	Inventory_id	SERIAL	Identification number for inventory records as an integer.
➡	Film_id	SMALLINT	Identification of the film as an integer.
	Store_id	SMALLINT	Identification number of the store as an integer.
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	The timestamp of the last time there was an update

Linked To:

Table	Join	Description
Film	Inventory.film_id = film.film_id	Foreign key referencing film.

Linked From:

Table	Join	Description
Rental	Rental.inventory_id = inventory.inventory_id	Foreign key referencing inventory.

Actor

Columns:

Keys	Columns	Data Type	Description
🔑	Actor_id	SERIAL	Identification number of the actor as an integer
	First_name	CHARACTER VARYING (45)	First name of actor with max 45 characters.
	Last_name	CHARACTER VARYING (45)	Last name of actor with max 45 characters.
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	The timestamp of the last time there was an update

Linked From:

Table	Join	Description
Film Actor	Film_actor.actor_id = actor.actor_id	Foreign key referencing actor.

Film

Columns:

Keys	Columns	Data Type	Description
🔑	Film_id	SERIAL	Identification of the film as an integer.
	Title	CHARACTER VARYING (255)	Title of film with varying text with max 255 characters.
	Description	TEXT	Text description of film
	Release_year	year	Year the film was released
➡	Language_id	SMALLINT	Identification of language as an integer.
	Rental_duration	SMALLINT	Duration the film was rented as an integer.
	Rental_rate	NUMERIC(4,2)	The numeric rental rate with 4 digits and 2 decimals.
	Length	SMALLINT	Duration of the film as an integer
	Replacement_cost	NUMERIC(5,2)	The numeric cost of the film with 5 digits and 2 decimals.
	Rating	Mpaa_rating	The MPAA rating (G, PG, PG-13, R, X)
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	The timestamp of the last time there was an update
	Special_feature	TEXT[]	Text indicating if there is a special feature. (i.e., trailer, deleted scenes, behind the scenes, etc)
	fulltext	TSVECTOR	Represents a document in the form optimized for text search, highlighting key words from searches.

Linked To:

Table	Join	Description
Language	Film.language_id = language.language_id	Foreign key referencing language.

Linked From:

Table	Join	Description
Film Actor	Film_actor.film_id = film.film_id	Foreign key referencing film.
Inventory	Inventory.film_id = film.film_id	Foreign key referencing film.
Film Category	Film_category.film_id = film.film_id	Foreign key referencing film.

Language

Columns:

Keys	Columns	Data Type	Description
🔑	Language_id	SERIAL	Identification of language as an integer.
	Name	CHARACTER(20)	Name of language with max 20 characters.
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	The timestamp of the last time there was an update.

Linked From:

Table	Join	Description
Film	Film.language_id = language.language_id	Foreign key referencing language.

Category

Columns:

Keys	Columns	Data Type	Description
🔑	Category_id	SMALLINT	Identification of the film category as an integer.
	Name	CHARACTER VARYING (45)	Name of category with max 45 characters.
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	The timestamp of the last time there was an update.

Linked From:

Table	Join	Description
Film Category	Film_category.category_id = category.category_id	Foreign key referencing category.

Address

Columns:

Keys	Columns	Data Type	Description
🔑	Address_id	SERIAL	Identification of the address as an integer.

Keys	Columns	Data Type	Description
	Address	CHARACTER VARYING(50)	Address with max 50 characters
	Address2	CHARACTER VARYING(50)	Secondary address with max 50 characters
	District	CHARACTER VARYING(20)	District with max 50 characters
→	City_id	SMALLINT	Identification of the city as an integer.
	Postal_code	CHARACTER VARYING(10)	Postal code of address with max 10 characters
	Phone	CHARACTER VARYING(20)	Phone number with max 20 characters
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	The timestamp of the last time there was an update

Linked To:

Table	Join	Description
City	Address.address_id = city.address_id	Foreign key referencing address.

Linked From:

Table	Join	Description
Store	Store.address_id = address.address_id	Foreign key referencing address.
Staff	Staff.address_id = address.address_id	Foreign key referencing address.
Customer	customer.address_id = address.address_id	Foreign key referencing address.

City

Columns:

Keys	Columns	Data Type	Description
🔑	City_id	SERIAL	Identification of the city as an integer.
	City	CHARACTER VARYING(50)	City with max 50 characters
→	Country_id	SMALLINT	Identification of the country as an integer.
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	The timestamp of the last time there was an update

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Linked To:

Table	Join	Description
Country	City.country_id = country.country.id	Foreign key referencing country.

Linked From:

Table	Join	Description
Address	Address.address_id = city.address_id	Foreign key referencing address.

Country

Columns:

Keys	Columns	Data Type	Description
🔑	Country_id	SERIAL	Identification of the country as an integer.
	Country	CHARACTER VARYING(50)	Country with max 50 characters
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	The timestamp of the last time there was an update

Linked From:

Table	Join	Description
City	City.country_id = country.country.id	Foreign key referencing country.