Rockbuster Stealth Video

Data Dictionary
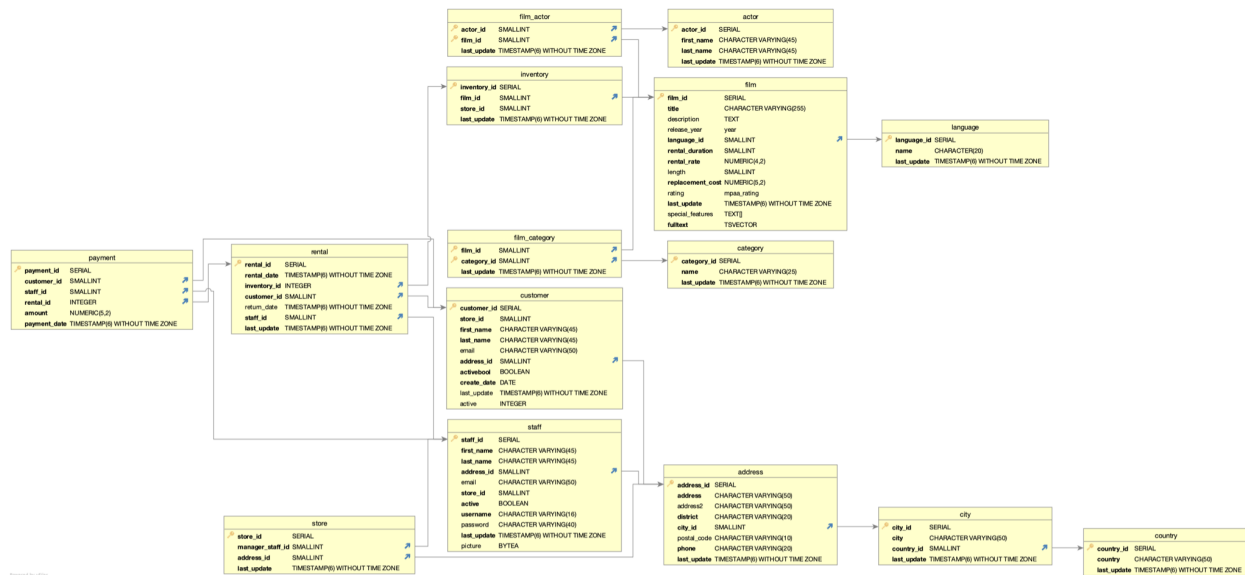
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Entity Relationship Diagram (ERD)

Rockbuster Stealth Video

Rockbuster Stealth LLC is a fictional movie rental company that used to have stores around the world. For this exercise, the scenario is that Rockbuster is 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 in order to stay competitive.

The data can be downloaded at:

- Download the Rockbuster data set
- Download PostgreSQL Database (for Windows, macOS X, and Linux)

Data Dictionary

Legend

PK = primary key

FK = foreign key

>> = primary key relationship

<< = foreign key relationship

Tables

Table: Payment

Customer payment history for rentals.

Column		Data Type	Description
PK	Payment_id	SERIAL	Unique 5 digit number generated after each payment, in numerical order.
FK	customer_id	SMALLINT	Unique number assigned to each customer.
FK	staff_id	SMALLINT	Unique number assigned to staff who processed transactions.
FK	rental_id	INTEGER	Unique number assigned to a rental.
	amount	NUMERIC(5,2)	Dollar amount paid during transaction.
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date (without time zone) of payment.

Links To

Table	Join

>>	customer	payment.customer_id = customer.customer_id
>>	staff	payment.staff_id = staff.staff_id
>>	rental	payment.rental_id = rental.rental_id

Table: Rental

Rental information for films in Rockbuster's stock.

Column		Data Type	Description
PK	rental_id	INTEGER	Unique number assigned to a rental.
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date (without time zone) of rental.
FK	inventory_id	SERIAL	Unique number assigned every film in the inventory, in numerical order.
FK	customer_id	SMALLINT	Unique number assigned to each customer.
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date (without time zone) rental is returned.
FK	staff_id	SMALLINT	Unique number assigned to each staff member.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date (without time zone) record was last updated.

Links To

Table		Join
>>	inventory	rental.inventory_id = inventory.inventory_id
>>	customer	rental.customer_id = customer.customer_id
>>	staff	rental.staff_id = staff.staff_id

Links From

Table		Join
<<	payment	payment.rental_id = rental.rental_id

Table: Store

Rockbuster store locations, including staff ID for manager of that location.

Column		Data Type	Description
PK	store_id	SMALLINT	Unique number assigned to each video store.
	manager_staff_id	SMALLINT	Unique number assigned to each staff member.
	address_id	SMALLINT	Unique number assigned to each address.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date (without time zone) record was last updated.

Links To

Table		Join
>>	staff	store.manager_staff_id = staff.staff_id
>>	address	store.address_id = address.address_id

Table: Film_Actor

A table that links actors and films via unique IDs.

Column		Data Type	Description
PK	actor_id	SMALLINT	Unique number assigned to each actor.

PK	film_id	SMALLINT	Unique number assigned to an individual film.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date (without time zone) record was last updated.

Links To

Table		Join
>>	actor	film_actor.actor_id = actor.actor_id
>>	film	film_actor.film_id = film.film_id

Table: Inventory

Table to link films to stores via unique IDs.

Column		Data Type	Description
PK	inventory_id	SERIAL	Unique number assigned every film in the inventory, in numerical order.
FK	film_id	SMALLINT	Unique number assigned to an individual film.
	store_id	SMALLINT	Unique number assigned to each video store.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date (without time zone) record was last updated.

Links To

Table		Join
>>	film	inventory.film_id = film.film_id

Links From

Table		Join
<<	rental	rental.inventory_id = inventory.inventory_id

Table: Film_Category

Connects films to their genres via coded list.

	Column	Data Type	Description
PK	film_id	SMALLINT	Unique number assigned to an individual film.
PK	category_id	SMALLINT	Number between 1 and 16, assigned to a film based on genre.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date (without time zone) record was last updated.

Links To

Table		Join
>>	film	film_category.film_id = film.film_id
>>	category	film_category.category_id = category.category_id

Table: Customer

Customer information, including the store where they hold their account.

	Column	Data Type	Description
PK	customer_id	SMALLINT	Unique number assigned to each customer.
	store_id	SMALLINT	Unique number assigned to each video store.
	first_name	CHARACTER VARYING(45)	Customer's first name, limit 45 characters.
	last_name	CHARACTER VARYING(45)	Customer's last name, limit 45 characters.
	email	CHARACTER VARYING(50)	Customer's email, limit 50 characters.
FK	address_id	SMALLINT	Unique number assigned to each address.

	activebool	BOOLEAN	Whether or not a customer is active (true/false).
	create_date	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date (without time zone) customer profile was created.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date (without time zone) record was last updated.
	active	INTEGER	A code for active (1) or inactive (0) accounts.

Links To

Table		Join
>>	address	customer.address_id = address.adress_id

Links From

Table		Join
<<	rental	rental.customer_id = customer.customer_id

Table: Staff

Contact information for staff, including staff ID, Rockbuster system login, photo, and store where employee works.

Column		Data Type	Description
PK	staff_id	SMALLINT	Unique number assigned to each staff member, in numerical order.
	first_name	CHARACTER VARYING(45)	Staff member's first name, limit 45 characters.
	last_name	CHARACTER VARYING(45)	Staff member's last name, limit 45 characters.
FK	address_id	SMALLINT	Unique number assigned to each address.

	email	CHARACTER VARYING(50)	Staff member's email, limit 50 characters.
	store_id	SMALLINT	Unique number assigned to each video store.
	active	BOOLEAN	Whether or not a staff member is active (true/false).
	username	CHARACTER VARYING(16)	Staff member's system username, limit 16 characters.
	password	CHARACTER VARYING(40)	Staff member's system password, limit 40 characters.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date (without time zone) record was last updated.
	picture	BYTEA	Whether or not there is a photo on file.

Links To

Table		Join
>>	address	staff.address_id = address.adress_id

Links From

Table		Join
<<	payment	payment.staff_id = staff.staff_id

Table: Actor

Information about actors featured in the films in the Rockbuster collection.

Column		Data Type	Description
PK	actor_id	SMALLINT	Unique number assigned to each actor.
	first_name	CHARACTER VARYING(45)	Actor's first name, limit 45 characters.
	last_name	CHARACTER VARYING(45)	Actor's last name, limit 45 characters.

	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date (without time zone) record was last updated.

Links From

Table		Join
>>	film_actor	film_actor.actor_id = actor.actor_id

Table: Film

Information about films in the Rockbuster collection, including rental rate, duration, and replacement cost.

Column		Data Type	Description
PK	film_id	SMALLINT	Unique number assigned to an individual film.
	title	CHARACTER VARYING(255)	Film name, maximum 255 characters.
	description	TEXT	Brief description of film plot.
	release_year	year	Year film was released.
FK	lanugage_id	SMALLINT	Number 1 to 6 assigned to a film, based on the language it is in.
	rental_duration	SMALLINT	Number of days a movie can be rented.
	rental_rate	NUMERIC(5,2)	Cost of renting the film.
	length	SMALLINT	Length of the film, in minutes.
	replacement_cost	NUMERIC(5,2)	Cost to replace the film.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date (without time zone) record was last updated.
	special_features	TEXT[]	List of possible extra features (such as deleted scenes) in the film.
	fulltext	TSVSECTOR	Words and codes used to provide additional description and information about the film.

Links To

Table		Join
>>	language	film.language_id = language.laguage_id

Links From

Table		Join
<<	payment	payment.staff_id = staff.staff_id

Table: Category

Connects category IDs to the name of the category.

Column		Data Type	Description
PK	category_id	SMALLINT	Number between 1 and16, assigned to a film based on genre.
	name	CHARACTER VARYING(25)	Name of genre assigned to each genre category, maximum 25 characters.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date (without time zone) record was last updated.

Links From

Table		Join
<<	film_category	film_category.film_id = category.film_id

Table: Address

All addresses, including staff and customers.

Column		Data Type	Description
PK	address_id	SMALLINT	Unique number assigned to each address.
	address	CHARACTER VARYING(50)	First line of address, maximum 50 characters.
	address2	CHARACTER VARYING(50)	Second line of address, maximum 50 characters.
	district	CHARACTER VARYING(20)	Area of city, maximum 20 characters.
FK	city_id	SMALLINT	Unique number assigned to a city.
	postal_code	CHARACTER VARYING(10)	Postal code, maximum 10 characters.
	phone	CHARACTER VARYING(20)	Phone number, maximum 20 characters.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date (without time zone) record was last updated.

Links To

Table		Join
>>	city	address.city_id = city.city_id

Links From

Table		Join
<<	customer	customer.address_id = address.address_id
<<	staff	staff.address_id = address.address_id
<<	store	store.address_id = address.address_id

Table: City

Connects city ID to city name and country ID.

Column		Data Type	Description
PK	city_id	SMALLINT	Unique number assigned to a city.
FK	city	CHARACTER VARYING(50)	Name of city, maximum 50 characters.
	country_id	SMALLINT	Unique number assigned to a country.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date (without time zone) record was last updated.

Links To

Table		Join
>>	country	city.country_id = country.country_id

Links From

Table		Join
<<	address	address.city_id = city.city_id

Table: Country

Connects city ID to city name and country ID.

Column		Data Type	Description
PK	country_id	SERIAL	Unique number assigned to a country.
	country	CHARACTER VARYING(50)	Name of country, maximum 50 characters.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date (without time zone) record was last updated.

Links From

Table		Join
<<	city	city.country_id = country.country_id