

ROCKBUSTER

Data Dictionary

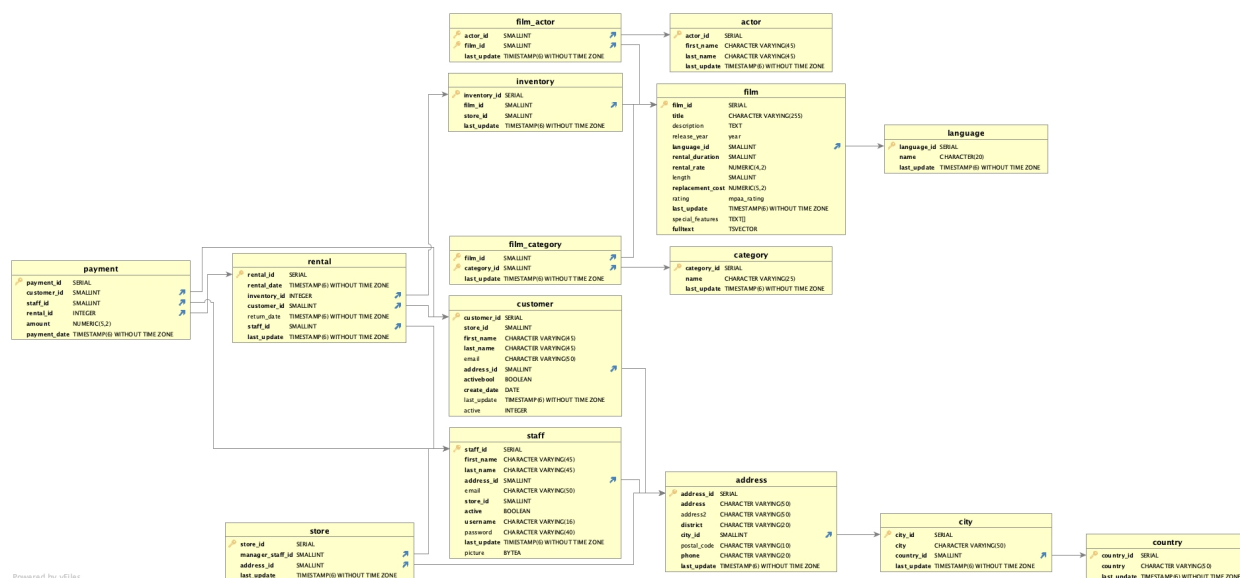
Tara Perrige

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1. Entity Relationship Diagram



2. Tables

2.1 Table: rental

Information about rentals, including rental date, return date, inventory ID, staff ID, and customer ID.

Columns

Name	Data Type	Description
rental_id	SERIAL	Unique ID number that represents each rental.
rental_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time that a rental was taken out.
inventory_id	INTEGER	Unique ID number that represents each piece of inventory.
customer_id	SMALLINT	Unique ID number that represents each customer.
return_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time that a rental was returned.
staff_id	SMALLINT	Unique ID number that represents each staff member.

last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time that table was last updated.
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Links to

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

Linked from

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

Unique keys

Columns	Description
rental_id	Primary key constraint

2.2 Table: payment

Information about payments, including amount, date, customer ID, rental ID, and staff ID.

Columns

Name	Data Type	Description
payment_id	SERIAL	Unique ID number that represents each payment.
customer_id	SMALLINT	Unique ID number that represents each customer.
staff_id	SMALLINT	Unique ID number that represents each staff member.
rental_id	INTEGER	Unique ID number that represents each rental.
amount	NUMERIC (5,2)	Amount of money paid.
payment_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of payment.

Links to

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

Linked from NONE

Unique keys

Columns	Description
payment_id	Primary key constraint

2.3 Table: inventory

Information about inventory, including film ID and store ID.

Columns

Name	Data Type	Description
inventory_id	SERIAL	Unique ID number that represents each piece of inventory.
film_id	SMALLINT	Unique ID number that represents each movie.
store_id	SMALLINT	Unique ID number that represents each store location.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time that table was last updated.

Links to

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

Linked from

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

Columns	Description
inventory_id	Primary key constraint

2.4 Table: film

Information about films, including title, description, release year, language ID, length, rating, rental duration, rental rate, and replacement cost.

Columns

Name	Data Type	Description
film_id	SERIAL	Unique ID number that represents each movie.
title	CHARACTER VARYING (255)	Title of each movie.
description	TEXT	Description of each movie.
release_year	SMALLINT	Year that each movie was released.
language_id	SMALLINT	Unique ID number that represents each language.
rental_duration	SMALLINT	Number of days that rental was taken out for.
rental_rate	NUMERIC (4,2)	Monetary rate charged for each rental.
length	SMALLINT	Length of each movie in minutes.
replacement_cost	NUMERIC (5,2)	Amount of money charged to replace each movie if rental was not returned.
rating	TEXT	Rating given to each movie by the MPAA.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time that table was last updated.
special_features	TEXT []	Special features available on the disc of each movie.
fulltext	TSVECTOR	List of tokens (lexemes-units of lexical meaning and pointers-positions of those lexemes) from the description of each movie,

		in order to make text searches easier.
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Links to

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

Linked from

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

Unique keys

Columns	Description
film_id	Primary key constraint

2.5 Table: film_actor

A table linking actor ID to film ID.

Columns

Name	Data Type	Description
actor_id	SMALLINT	Unique ID number that represents each actor.
film_id	SMALLINT	Unique ID number that represents each movie.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time that table was last updated.

Links to

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

Linked from NONE

Unique keys

Columns	Description
actor_id, film_id	Primary key constraint

2.6 Table: actor

Information about actors, including first name and last name.

Columns

Name	Data Type	Description
actor_id	SERIAL	Unique ID number that represents each actor.
first_name	CHARACTER VARYING (45)	First name of each actor.
last_name	CHARACTER VARYING (45)	Last name of each actor.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time that table was last updated.

Links to NONE

Linked from

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

Unique keys

Columns	Description
actor_id	Primary key constraint

2.7 Table: film_category

A table linking film ID to category ID.

Columns

Name	Data Type	Description
film_id	SMALLINT	Unique ID number that represents each movie.
category_id	SMALLINT	Unique ID number that represents each film category.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time that table was last updated.

Links to

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

Linked from NONE

Unique keys

Columns	Description
film_id, category_id	Primary key constraint

2.8 Table: category

Information about categories, including category name.

Columns

Name	Data Type	Description
category_id	SERIAL	Unique ID number that represents each film category.
name	CHARACTER VARYING (25)	Name of each film category.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time that table was last updated.

Links to NONE

Linked from

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

Unique keys

Columns	Description
category_id	Primary key constraint

2.9 Table: language

Information about languages, including language name.

Columns

Name	Data Type	Description
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language_id	SERIAL	Unique ID number that represents each language.
name	CHARACTER (20)	Name of each language.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time that table was last updated.

Links to NONE

Linked from

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

Unique keys

Columns	Description
language_id	Primary key constraint

2.10 Table: customer

Information about customers, including first name, last name, email, address ID, and store ID.

Columns

Name	Data Type	Description
customer_id	SERIAL	Unique ID number that represents each customer.
store_id	SMALLINT	Unique ID number that represents each store location.
first_name	CHARACTER VARYING (45)	First name of each customer.
last_name	CHARACTER VARYING (45)	Last name of each customer.
email	CHARACTER VARYING (50)	Email address of each customer.
address_id	SMALLINT	Unique ID number that represents each address.
activebool	BOOLEAN	Each customer is either true (an active customer) or false (not an active customer).
create_date	DATE	Date that the table was created.

last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time that table was last updated.
active	INTEGER	Each customer is either 1 (an active customer) or 0 (not an active customer).

Links to

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

Linked from

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

Unique keys

Columns	Description
customer_id	Primary key constraint

2.11 Table: staff

Information about staff, including first name, last name, email, username, password, address ID, and store ID.

Columns

Name	Data Type	Description
staff_id	SERIAL	Unique ID number that represents each staff member.
first_name	CHARACTER VARYING (45)	First name of each staff member.
last_name	CHARACTER VARYING (45)	Last name of each staff member.
address_id	SMALLINT	Unique ID number that represents each address.

email	CHARACTER VARYING (50)	Email address of each staff member.
store_id	SMALLINT	Unique ID number that represents each store location.
active	BOOLEAN	Each staff member is either true (an active employee) or false (not an active employee).
username	CHARACTER VARYING (16)	Username of each staff member.
password	CHARACTER VARYING (40)	Password of each staff member.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time that table was last updated.
picture	BYTEA	Binary string that stores picture data of each staff member.

Links to

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

Linked from

Table	Join	Description
payment	staff.staff_id = payment.staff_id	Foreign key constraint referencing staff.staff_id.
rental	staff.staff_id = rental.staff_id	Foreign key constraint referencing staff.staff_id.
store	staff.staff_id = store.manager_staff_id	Foreign key constraint referencing staff.staff_id.

Unique keys

Columns	Descriptions
staff_id	Primary key constraint

2.12 Table: store

Information about stores, including manager staff ID and address ID.

Columns

Name	Data Type	Description
store_id	SERIAL	Unique ID number that represents each store location.
manager_staff_id	SMALLINT	Unique ID number that represents the staff member who is the manager.
address_id	SMALLINT	Unique ID number that represents each address.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time that table was last updated.

Links to

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

Linked from

Table	Join	Description
customer	store.store_id = customer.store_id	Foreign key constraint referencing store.store_id.
inventory	store.store_id = inventory.store_id	Foreign key constraint referencing store.store_id.
staff	store.store_id = staff.store_id	Foreign key constraint referencing store.store_id.

Unique keys

Columns	Description
store_id	Primary key constraint

2.13 Table: address

Information about addresses, including street address line 1, street address line 2, district, city ID, postal code, and phone number.

Columns

Name	Data Type	Description
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address_id	SERIAL	Unique ID number that represents each address.
address	CHARACTER VARYING (50)	First line of each street address.
address2	CHARACTER VARYING (50)	Second line of each street address.
district	CHARACTER VARYING (20)	State/province/region/district of each address.
city_id	SMALLINT	Unique ID number that represents each city.
postal_code	CHARACTER VARYING (10)	Post code/ZIP code of each address.
phone	CHARACTER VARYING (20)	Phone number associated with each address.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time that table was last updated.

Links to

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

Linked from

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

Unique keys

Columns	Description
address_id	Primary key constraint

2.14 Table: city

Information about cities, including city name and country ID.

Columns

Name	Data Type	Description
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city_id	SERIAL	Unique ID number that represents each city.
city	CHARACTER VARYING (50)	Name of each city.
country_id	SMALLINT	Unique ID number that represents each country.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time that table was last updated.

Links to

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

Linked from

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

Unique keys

Columns	Description
city_id	Primary key constraint

2.15 Table: country

Information about countries, including country name.

Columns

Name	Data Type	Description
country_id	SERIAL	Unique ID number that represents each country.
country	CHARACTER VARYING (50)	Name of each country.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time that table was last updated.

Links to NONE

Linked from

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

Unique keys

Columns	Description
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country_id	Primary key constraint
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