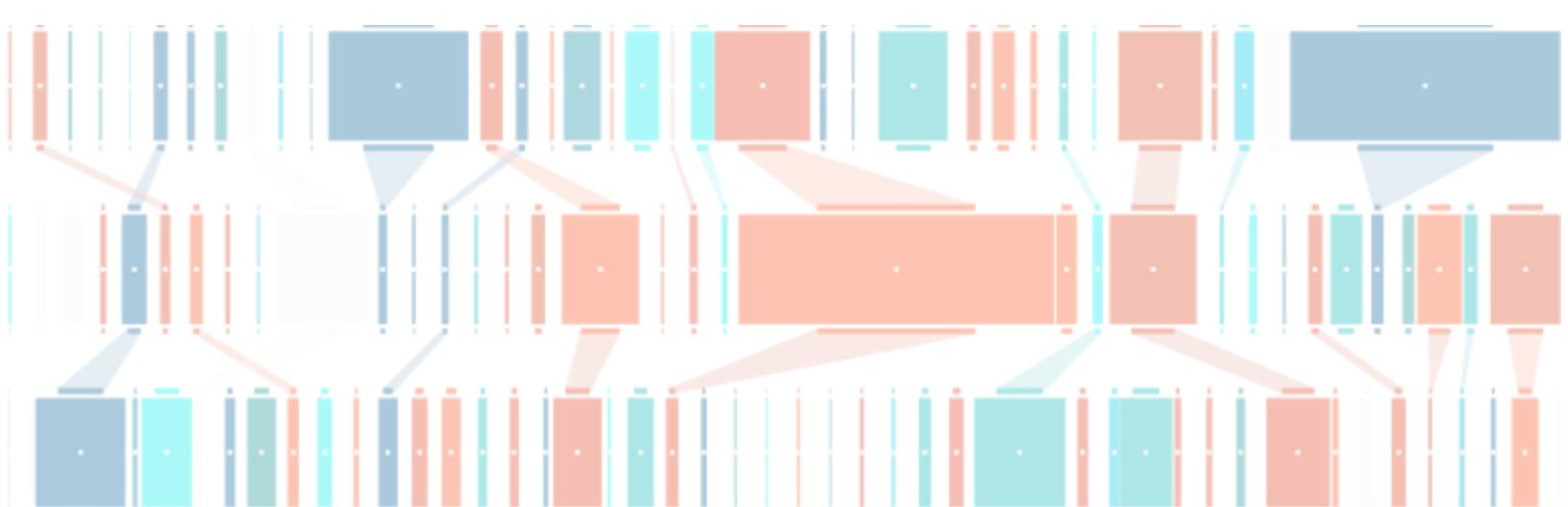


Rockbuster Stealth

Data Dictionary



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Legend

PK Primary key

FK Foreign key relation

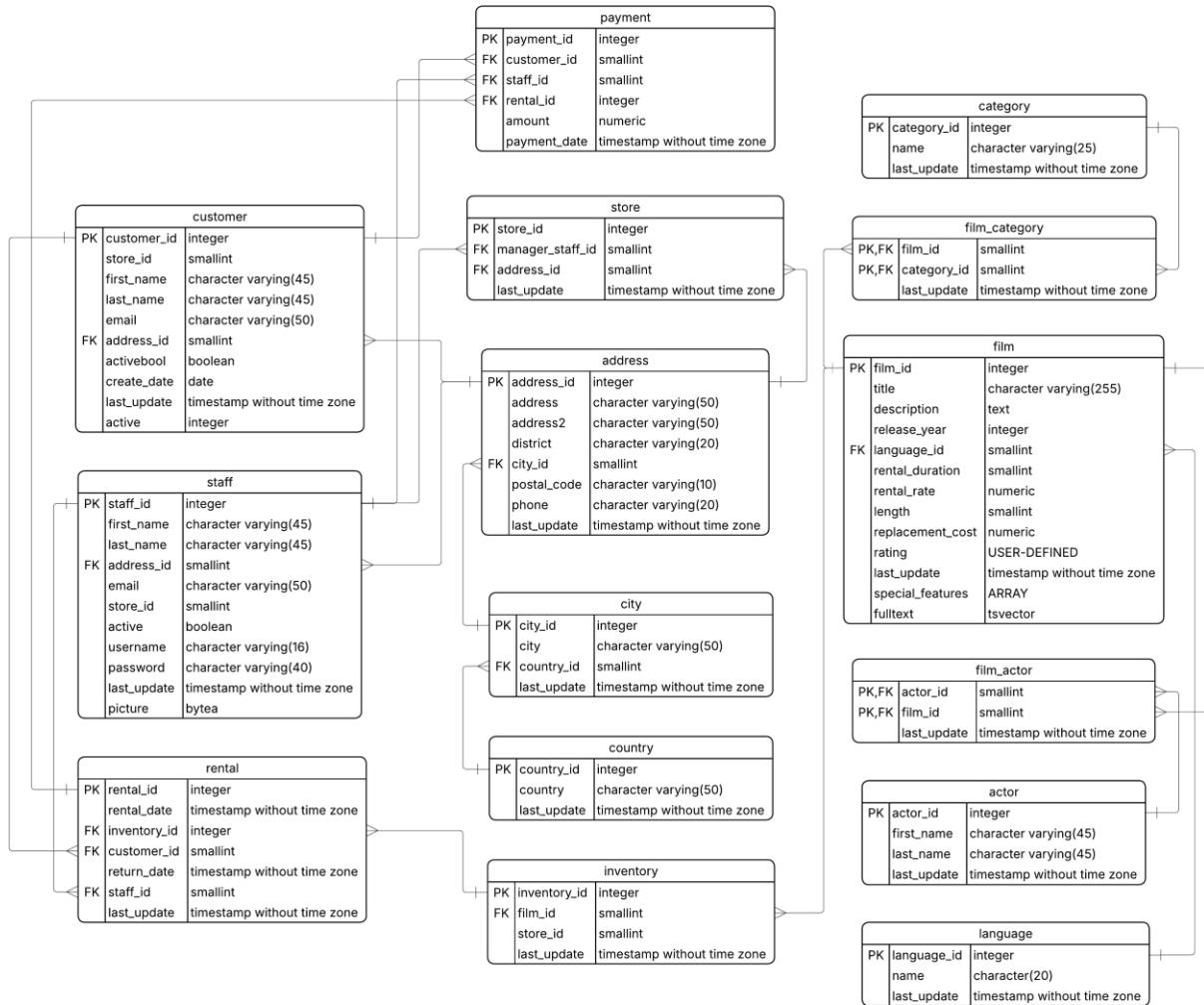
1. Rockbuster Stealth

Rockbuster Stealth LLC is a movie rental company that used to have stores around the world. The Rockbuster database contains information about Rockbuster's film inventory, customers, stores, staff, and payments.

You can download Rockbuster Stealth database here:

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

2. Entity Relation Diagram



Customers, staff, and stores have a common table for addresses. Those tables are linked to the payments table, which holds ID for all customers, staff, and rentals tables. The rentals table holds the inventory ID, which connects to the film's table. The film ID on the film's table connects to the tables for film category and film actor, and the language ID to the language table.

3. Tables

3.1 Payment

Fact table containing payment information from customers, staff, and rental.

Columns

	Name	Data type	Description
PK	payment_id	integer	Primary key
FK	customer_id	smallint	Foreign key to Customer.Customer_id
FK	staff_id	smallint	Foreign key to Staff.Staff_id
FK	rental_id	integer	Foreign key to Rental.Rental_id
	amount	numeric	Amount paid
	payment_date	timestamp without time zone	Date and time payment was made

Linked from

	Table	Join	Name / Description
FK	customer	payment.customer_id = customer.customer_id	payment.customer_id_fkey Foreign key constraint referencing Customer.Customer_id
FK	staff	payment.staff_id = staff.staff_id	payment.staff_id_fkey Foreign key constraint referencing Staff.Staff_id
FK	rental	payment.rental_id = rental.rental_id	payment.rental_id_fkey Foreign key constraint referencing Rental.Rental_id

Unique keys

	Name	Name / Description
PK	payment_id	payment_pkey / Primary key

3.2 Rental

Fact table mapping inventory, customer, and staff to rentals.

Columns

	Name	Data type	Description
PK	rental_id	integer	Primary key. Foreign key to Payment.Payment_id
	rental_date	timestamp without time zone	Date and time of rental start

FK	inventory_id	integer	Foreign key to Inventory.Inventory_id
FK	customer_id	smallint	Foreign key to Customer.Customer_id
	return_date	timestamp without time zone	Date and time of rental return
FK	staff_id	smallint	Foreign key to Staff.Staff_id
	last_update	timestamp without time zone	Date and time the record was last updated

Links to

	Table	Join	Name / Description
FK	payment	payment.rental_id = rental.rental_id	payment.rental_id_fkey Foreign key constraint referencing Payment.Rental_id

Linked from

	Table	Join	Name / Description
FK	customer	rental.customer_id = customer.customer_id	rental_customer_id_fkey Foreign key constraint referencing Customer.Customer_id
FK	staff	rental.staff_id = staff.staff_id	rental_staff_id_key Foreign key constraint referencing Staff.Staff_id
FK	inventory	rental.inventory_id = inventory.inventory_id	rental_inventory_id_fkey Foreign key constraint referencing Inventory.Inventory_id

Unique keys

	Name	Name / Description
PK	rental_id	rental_pkey / Primary key

3.3 Customer

Dimension table containing information from customers.

	Name	Data type	Description
PK	customer_id	integer	Primary key. Foreign key to Rental.Customer_id. Foreign key to Payment.Customer_id
FK	store_id	smallint	Unique Store ID
	first_name	character varying(45)	Customer first name
	last_name	character varying(45)	Customer last name
	email	character varying(45)	Customer email
FK	address_id	smallint	Foreign key to Address.Address_id

activebool	boolean	false = Inactive, true = Active
create_date	date	Date the record was created
last_update	timestamp without time zone	Date and time the record was last updated
active	integer	0 = Inactive, 1 = Active

Links to

Table		Join	Name / Description
FK	payment	payment.customer_id =	payment.customer_id_fkey
		customer.customer_id	Foreign key constraint referencing Payment.Customer_id
FK	rental	rental.customer_id =	rental_customer_id_fkey
		customer.customer_id	Foreign key constraint referencing Rental.Customer_id

Linked from

Table		Join	Name / Description
FK	address	customer.address_id =	customer_address_id_fkey
		address.address_id	Foreign key constraint referencing Address.Address_id

Unique keys

Name		Name / Description
PK	customer_id	customer_pkey / Primary key

3.4 Staff

Dimension table containing information from staff.

Name			Data type	Description
PK	staff_id		integer	Primary key. Foreign key to Payment.Staff_id Foreign key to Rental.Staff_id. Foreign key to Store.Manager_Staff_id
	first_name		character varying(45)	Staff first name
	last_name		character varying(45)	Staff last name
FK	address_id		smallint	Foreign key to Address.Address_id
	email		character varying(45)	Staff email
FK	store_id		smallint	Unique Store ID
	activebool		boolean	false = Inactive, true = Active
	username		character varying(45)	Staff username

password	character varying(45)	Staff password
last_update	timestamp without time zone	Date and time the record was last updated
picture	bytea	"binary data" = picture, "null" = no picture

Links to

Table				Join	Name / Description
FK				payment. staff_id = staff.staff_id	payment.staff_id_fkey Foreign key constraint referencing Payment.Staff_id
FK				rental.staff_id = staff.staff_id	rental_staff_id_key Foreign key constraint referencing Rental.Staff_id

Linked from

Table				Join	Name / Description
FK				staff.address_id = address.address_id	staff_address_id_fkey Foreign key constraint referencing Address.Address_id
FK				staff.staff_id = store.manager_staff_id	store_manager_staff_id_fkey Foreign key constraint referencing Store.Manager_Staff_id

Unique keys

Name				Name / Description
PK				staff_pkey / Primary key

3.4.1 Store

Dimension table containing information from the stores.

Name				Data type	Description
PK	store_id			integer	Primary key.
FK	manager_staff_id			smallint	Foreign key to Staff.Staff_id
FK	address_id			smallint	Foreign key to Address.Address_id
	last_update			timestamp without time zone	Date and time the record was last updated

Links to

Table			Join	Name / Description

FK	staff	staff.staff_id = store.manager_staff_id	store_manager_staff_id_fkey Foreign key constraint referencing Staff.Staff_id
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Linked from

Table		Join	Name / Description
FK	address	store.address_id = address.address_id	store_address_id_fkey Foreign key constraint referencing Address.Address_id

Unique keys

Name		Name / Description
PK	store_id	store_pkey / Primary key

3.5 Address

Dimension table with address information for customers, staff, and stores.

Name		Data type	Description
PK	address_id	integer	Primary key. Foreign key to Customer.Address_id. Foreign key to Staff.Address_id. Foreign key to Store.Address_id.
	address	character varying(50)	Address first line
	address2	character varying(50)	Address second line
	district	character varying(20)	Name of district
FK	city_id	smallint	Foreign key to City.City_id
	postal_code	character varying(10)	Postal code number
	phone	character varying(20)	Phone number
	last_update	timestamp without time zone	Date and time the record was last updated

Links to

Table		Join	Name / Description
FK	customer	customer.address_id = address.address_id	customer_address_id_fkey Foreign key constraint referencing Customer.Address_id
FK	staff	staff.address_id = address.address_id	staff_address_id_fkey Foreign key constraint referencing Staff.Address_id
FK	store	store.address_id = address.address_id	store_address_id_fkey Foreign key constraint referencing Store.Address_id

Linked from

Table		Join	Name / Description
FK	city	address.city_id = city.city_id	fk_address_city Foreign key constraint referencing City.City_id

Unique keys

Name		Name / Description
PK	address_id	address_pkey / Primary key

3.5.1 City

Dimension table with city information.

Name		Data type	Description
PK	city_id	integer	Primary key. Foreign key to Address.City_id.
	city	character varying(50)	Name of city
FK	country_id	smallint	Foreign key to Country.Country_id
	last_update	timestamp without time zone	Date and time the record was last updated

Links to

Table		Join	Name / Description
FK	address	address.city_id = city.city_id	fk_address_city Foreign key constraint referencing Address.City_id

Linked from

Table		Join	Name / Description
FK	country	city.country_id = country.country_id	fk_city Foreign key constraint referencing Country.Country_id

Unique keys

Name		Name / Description
PK	city_id	city_pkey / Primary key

3.5.2 Country

Dimension table with country information.

	Name	Data type	Description
PK	country_id	integer	Primary key. Foreign key to City.Country_id.
	country	character varying(50)	Name of country
	last_update	timestamp without time zone	Date and time the record was last updated

Links to

	Table	Join	Name / Description
FK	City	city.country_id = country.country_id	fk_city Foreign key constraint referencing City.Country_id

Unique keys

	Name	Name / Description
PK	country_id	country_pkey / Primary key

3.6 Inventory

Dimension table with inventory information for films and stores.

	Name	Data type	Description
PK	inventory_id	integer	Primary key. Foreign key to Rental.Inventory_id.
FK	film_id	smallint	Foreign key to Film.Film_id
	store_id	smallint	Unique Store ID
	last_update	timestamp without time zone	Date and time the record was last updated

Links to

	Table	Join	Name / Description
FK	rental	rental.inventory_id = inventory.inventory_id	rental_inventory_id_fkey Foreign key constraint referencing Rental.Inventory_id

Linked from

	Table	Join	Name / Description
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FK	film	inventory.film_id _id =	inventory_film_id_fkey
		film.film_id	Foreign key constraint referencing Film.Film_id

Unique keys

Name		Name / Description
PK	inventory_id	inventory_pkey / Primary key

3.7 Film

Dimension table with information from films.

Name			Data type	Description
PK	film_id		integer	Primary key. Foreign key to Film_Category.Film_id Foreign key to Inventory.Film_id. Foreign key to Film_Actor_Film_id
	title		character varying(255)	Film title
	description		text	Film description
	release_year		integer	Year film was released
FK	language_id		smallint	Foreign key to Language.Language_id
	rental_duration		smallint	Number of days the rental lasted
	rental_rate		numeric	Price of rental (4,2)
	length		smallint	Length of film (minutes)
	replacement_cost		numeric	Cost of replacement (5,2)
	rating		USER-DEFINED	Film rating (MPAA rating)
	last_update		timestamp without time zone	Date and time the record was last updated
	special_features		ARRAY	Special features included {Trailers,Commentaries,"Deleted Scenes","Behind the Scenes"}
	fulltext		tsvector	Data for full-text search operations ('darko':1 'dog':16 'dorado':2)

Links to

Table		Join	Name / Description
FK	inventory	inventory.film_id _id = film.film_id	inventory_film_id_fkey Foreign key constraint referencing Inventory.Film_id

Linked from

Table		Join	Name / Description
FK	film_category	film.film_id _id = film_category.film_id	film_category_film_id_fkey Foreign key constraint referencing Film_Category.Film_id
FK	film_actor	film.film_id _id = film_actor.film_id	film_actor_film_id_fkey Foreign key constraint referencing Film_Actor_Film_id
FK	language	film.language_id _id = language.language_id	film_language_id_fkey Foreign key constraint referencing Language.Language_id

Unique keys

Name		Name / Description
PK	film_id	film_pkey / Primary key

3.7.1 Film Category

Dimension table to cross-reference films and film category.

Name		Data type	Description
PK,	film_id	smallint	Primary key. Foreign key to Film.Film_id
FK			
PK,	category_id	smallint	Primary key. Foreign key to Category.Category_id
	last_update	timestamp without time zone	Date and time the record was last updated

Links to

Table		Join	Name / Description
FK	film	film.film_id _id = film_category.film_id	film_category_film_id_fkey Foreign key constraint referencing Film.Film_id

Linked from

Table		Join	Name / Description
FK	category	film_category.category_id = category.category_id	film_category_category_id_fkey Foreign key constraint referencing Category.Category_id

Unique keys

Name		Name / Description
PK	film_id	film_pkey / Primary key

PK	category_id	film_category_pkey / Primary key
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3.7.1.1 Category

Dimension table with film category name.

Name	Data type	Description
PK category_id	integer	Primary key. Foreign key to Film_Category.Category_id
name	character varying(25)	Category name
last_update	timestamp without time zone	Date and time the record was last updated

Links to

Table	Join	Name / Description	
FK film_category	film_category.category_id = category.category_id	film_category_category_id_fkey	Foreign key constraint referencing Film_Category.Category_id

Unique keys

Name	Name / Description
PK category_id	category_pkey / Primary key

3.7.2 Film Actor

Dimension table to cross-reference films and actors.

Name	Data type	Description
PK, actor_id	smallint	Primary key. Foreign key to Actor.Actor_id
FK		
PK, film_id	smallint	Primary key. Foreign key to Film.Film_id
FK		
last_update	timestamp without time zone	Date and time the record was last updated

Links to

Table	Join	Name / Description
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FK	film	film.film_id _id =	film_actor_film_id_fkey
		film_actor.film_id	Foreign key constraint referencing Film. Film_id

Linked from

Table		Join	Name / Description
FK	actor	film_actor.actor_id = actor.actor_id	film_actor_actor_id_fkey Foreign key constraint referencing Actor.Actor_id

Unique keys

Name		Name / Description
PK	film_id	film_pkey / Primary key
PK	actor_id	film_actor_pkey / Primary key

3.7.2.1 Actor

Dimension table with actors' name.

Name		Data type	Description
PK	actor_id	integer	Primary key. Foreign key to Film_Actor.Actor_id
	first_name	character varying(45)	Actor's first name
	last_name	character varying(45)	Actor's last name
	last_update	timestamp without time zone	Date and time the record was last updated

Links to

Table		Join	Name / Description
FK	film_actor	film_actor.actor_id = actor.actor_id	film_actor_actor_id_fkey Foreign key constraint referencing Film_Actor.Actor_id

Unique keys

Name		Name / Description
PK	actor_id	actor_pkey / Primary key

3.7.3 Language

Dimension table with film language information.

Name	Data type	Description
language_id	integer	Primary key. Foreign key to Film.Language_id
name	character varying(20)	Language name
last_update	timestamp without time zone	Date and time the record was last updated

Links to

Table	Join	Name / Description
FK film	film.language_id _id = language.language_id	film_language_id_fkey Foreign key constraint referencing Film.Language_id

Unique keys

Name	Name / Description
PK language_id	language_pkey / Primary key