Rockbuster Stealth LLC

Data Dictionary

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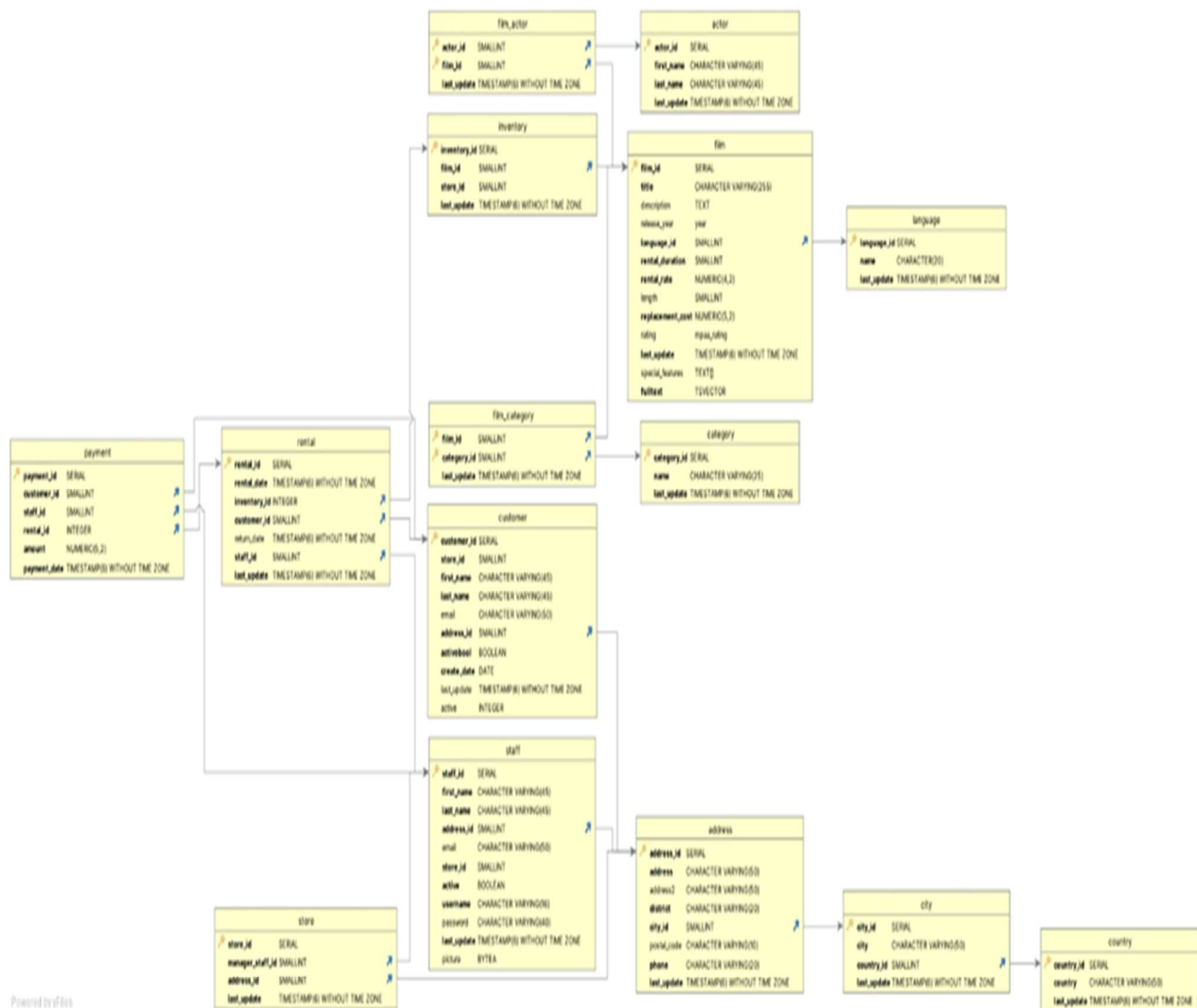June 2023

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Rockbuster Stealth LLC

Rockbuster Stealth LLC is a movie rental company that used to have stores around the world. Rockbuster's database is around 3MB and contains several files about films, rentals, customers, and stores. The data set can be loaded and analyzed into the PostgreSQL database.

Entity Relationship Diagram

Fact Tables

Table: Payment

	COLUMN NAME	Data Type	DESCRIPTION
🔑	payment_id	serial	Primary Key - payment unique ID
🔑	customer_id	int2	customer ID
🔑	staff_id	int2	staff ID
🔑	rental_id	int4	rental ID
	amount	numeric	amount paid
	payment_date	timestamp	payment date

🔑 Primary Key
🔑 Foreign Key

Links to:

Table	Joint	Description
customer	payment.customer_id = customer.customer_id	Foreign Key reference to customer table
staff	payment.staff_id = staff.staff_id	Foreign Key reference to staff table
rental	payment.rental_id = rental.rental_id	Foreign Key reference to rental table

Links from:

None

Unique Keys

COLUMN NAME	Data Type	DESCRIPTION
payment_id	Primary	Unique identifier for payment

Table: Rental

	COLUMN NAME	Data Type	DESCRIPTION
🔑	rental_id	serial	Primary Key - rental unique ID
	rental_date	timestamp	date of the rental
🔑	inventory_id	int4	inventory id
🔑	customer_id	int2	customer id
	return_date	timestamp	date of the return
🔑	staff_id	int2	staff id
	last_update	timestamp	Time of last update

🔑 Primary Key
🔑 Foreign Key

Links to:

Table	Joint	Description
inventory	rental.inventory_id = inventory.inventory_id	Foreign Key reference to inventory table
customer	rental.customer_id = customer.customer_id	Foreign Key reference to customer table
staff	rental.staff_id = staff.staff_id	Foreign Key reference to staff table

Links from:

Table	Joint	Description
payment	payment.rental_id = rental.rental_id	Foreign Key reference to rental table

Unique Keys

COLUMN NAME	Data Type	DESCRIPTION
rental_id	Primary	unique indentifier for rental
customer_id	Foreign	unique indentifier for customer
inventory_id	Foreign	unique indentifier for inventory

Dimension Tables

Table: Actor

COLUMN NAME	Data Type	DESCRIPTION
actor_id	serial	Primary Key - Actor unique ID
first_name	varchar	Actor first name
last_name	varchar	Actor last name
last_update	timestamp	Time of last update

Links to:

None

Links from:

Table	Joint	Description
film_actor	Actor.actor_id = film_actor.actor_id	Foreign Key reference to film_actor table

Unique Keys

COLUMN NAME	Data Type	DESCRIPTION
actor_id	Primary	Unique identifier for actor

Table: Address

	COLUMN NAME	Data Type	DESCRIPTION
🔑	address_id	serial	Primary Key - Address unique ID
	address	varchar	addess first line
	address2	varchar	addess complement
	district	varchar	district
🔑	city_id	int2	Foreing key reference city id
	postal_code	varchar	postal code
	phone	varchar	phone number
	last_update	timestamp	Time of last update

Links to:

Table	Joint	Description
city	address.city_id = city.city_id	Foreign Key reference to city table

Links from:

Table	Joint	Description
customer	address.address_id = customer.address_id	Foreign Key reference to customer table
staff	address.address_id = staff.address_id	Foreign Key reference to staff table
store	address.address_id = store.address_id	Foreign Key reference to rental table

Unique Keys

COLUMN NAME	Data Type	DESCRIPTION
address_id	Primary	unique indentifier for address

Table: Category

COLUMN NAME	Data Type	DESCRIPTION
category_id	serial	Primary Key - category unique ID
name	varchar	film category name
last_update	timestamp	Time of last update

Links to:

None

Links from:

Table	Joint	Description
film_category	category.category_id = film_category.category_id	Foreign Key reference to film_category table

Unique Keys

COLUMN NAME	Data Type	DESCRIPTION
category_id	Primary	unique indentifier for category

Table: Category

COLUMN NAME	Data Type	DESCRIPTION
city_id	serial	Primary Key - city unique ID
city	varchar	city name
country_id	int2	country id
last_update	timestamp	Time of last update

Links to:

Table	Joint	Description
country	city.country_id = country.country_id	Foreign Key reference to country table

Links from:

Table	Joint	Description
address	city.city_id = address.city_id	Foreign Key reference to address table

Unique Keys

COLUMN NAME	Data Type	DESCRIPTION
city_id	Primary	unique indentifier for city

Table: Country

COLUMN NAME	Data Type	DESCRIPTION
country_id	serial	Primary Key - country unique ID
country	varchar	country name
last_update	timestamp	Time of last update

Links to:

None

Links from:

Table	Joint	Description
city	city.country_id = city.country_id	Foreign Key reference to city table

Unique Keys

COLUMN NAME	Data Type	DESCRIPTION
country_id	Primary	unique indentifier for country

Table: Customer

	COLUMN NAME	Data Type	DESCRIPTION
🔑	customer_id	serial	Primary Key - customer unique ID
🔑	store_id	int2	store ID
	first_name	varchar	customer first name
	last_name	varchar	customer last name
	email	varchar	email address
🔑	address_id	int2	address id
	activebool	bool	if it's an active customer
	create_date	date	date customer was created
	last_update	timestamp	Time of last update
	active	int4	active 1 or 0

Links to:

Table	Joint	Description
address	customer.address_id = address.address_id	Foreign Key reference to address table

Links from:

Table	Joint	Description
rental	customer.customer_id = rental.customer_id	Foreign Key reference to rental table
payment	customer.customer_id = payment.customer_id	Foreign Key reference to payment table

Unique Keys

COLUMN NAME	Data Type	DESCRIPTION
customer_id	Primary	unique indentifier for customer

Table: Film

	COLUMN NAME	Data Type	DESCRIPTION
🔑	film_id	serial	Primary Key - film unique ID
	title	varchar	film title name
	description	text	film descripton
	release_year	year	film release year
🔑	language_id	int2	language unique ID
	rental_duration	int2	days allowed for rental
	rental_rate	numeric	rental rate
	length	int2	film duration
	replacement_cost	numeric	cost to replace in case the movie
	rating	mpaa_ratin	age rate recommendation
	last_update	timestamp	Time of last update
	special_features	_text	movie extra or special
	fulltext	tsvector	hastags / index

Links to:

Table	Joint	Description
language	film.film_id = language.film_id	Foreign Key reference to language table

Links from:

Table	Joint	Description
inventory	film.film_id = inventory.film_id	Foreign Key reference to inventory table
film_category	film.film_id = film_category.film_id	Foreign Key reference to film_category table
film_actor	film.film_id = film_actor.film_id	Foreign Key reference to film_actor table

Unique Keys

COLUMN NAME	Data Type	DESCRIPTION
film_id	Primary	unique indentifier for film

Table: Film_actor

COLUMN NAME	Data Type	DESCRIPTION
actor_id	int2	Primary Key - actor unique ID
film_id	int2	Primary Key - film unique ID
last_update	timestamp	Time of last update

Links to:

Table	Joint	Description
actor	film.actor_id = actor.actor_id	Foreign Key reference to actor table
film	film_actor.film_id = film.film_id	Foreign Key reference to film table

Links from:

None

Unique Keys

COLUMN NAME	Data Type	DESCRIPTION
actor_id	Primary	unique indentifier for actor
film_id	Primary	unique indentifier for film

Table: Film_category

COLUMN NAME	Data Type	DESCRIPTION
film_id	int2	Primary Key - film unique ID
category_id	int2	Primary Key - category unique ID
last_update	timestamp	Time of last update

Links to:

Table	Joint	Description
category	film_category.category_id = category.category_id	Foreign Key reference to category table
film	film_category.film_id = film.film_id	Foreign Key reference to film table

Links from:

None

Unique Keys

COLUMN NAME	Data Type	DESCRIPTION
category_id	Primary	unique indentifier for category
film_id	Primary	unique indentifier for film

Table: Inventory

	COLUMN NAME	Data Type	DESCRIPTION
🔑	inventory_id	serial	Primary Key - inventory unique ID
🔑	film_id	int2	film unique ID
🔑	store_id	int2	store unique ID
	last_update	timestamp	Time of last update

Links to:

Table	Joint	Description
film	inventory.film_id = film.film_id	Foreign Key reference to film table

Links from:

Table	Joint	Description
rental	inventory.inventory_id = rental.inventory_id	Foreign Key reference to rental table

Unique Keys

COLUMN NAME	Data Type	DESCRIPTION
inventory_id	Primary	unique indentifier for inventory

Table: Language

COLUMN NAME	Data Type	DESCRIPTION
language_id	serial	Primary Key - language unique ID
name	bpchar	language name
last_update	timestamp	Time of last update

Links to:

None

Links from:

Table	Joint	Description
film	language.language_id = film.language_id	Foreign Key reference to film table

Unique Keys

COLUMN NAME	Data Type	DESCRIPTION
language_id	Primary	unique indentifier for language

Table: Staff

COLUMN NAME	Data Type	DESCRIPTION
staff_id	serial	Primary Key - staff unique ID
first_name	varchar	staff first name
last_name	varchar	staff last name
address_id	int2	address id
email	varchar	staff email address
store_id	int2	store id
active	bool	if it's an active staff
username	varchar	staff username
password	varchar	staff password
last_update	timestamp	Time of last update
picture	bytea	staff picture

Links to:

Table	Joint	Description
address	staff.address_id = address.address_id	Foreign Key reference to address table

Links from:

Table	Joint	Description
store	staff.staff_id = store.staff_id	Foreign Key reference to store table
rental	staff.staff_id = rental.staff_id	Foreign Key reference to rental table
payment	staff.staff_id = payment.staff_id	Foreign Key reference to payment table

Unique Keys

COLUMN NAME	Data Type	DESCRIPTION
staff_id	Primary	unique indentifier for staff

Table: Store

COLUMN NAME	Data Type	DESCRIPTION
store_id	serial	Primary Key - storage unique ID
manager_staff_id	int2	staff id
address_id	int2	address id
last_update	timestamp	Time of last update

Links to:

Table	Joint	Description
staff	store.manager_staff_id = staff.manager_staff_id	Foreign Key reference to staff table
address	store.address_id = address.address_id	Foreign Key reference to address table

Links from:

None

Unique Keys

COLUMN NAME	Data Type	DESCRIPTION
store_id	Primary	unique indentifier for store
manager_staff_id	Primary	unique indentifier for staff