Rockbuster Stealth, LLC
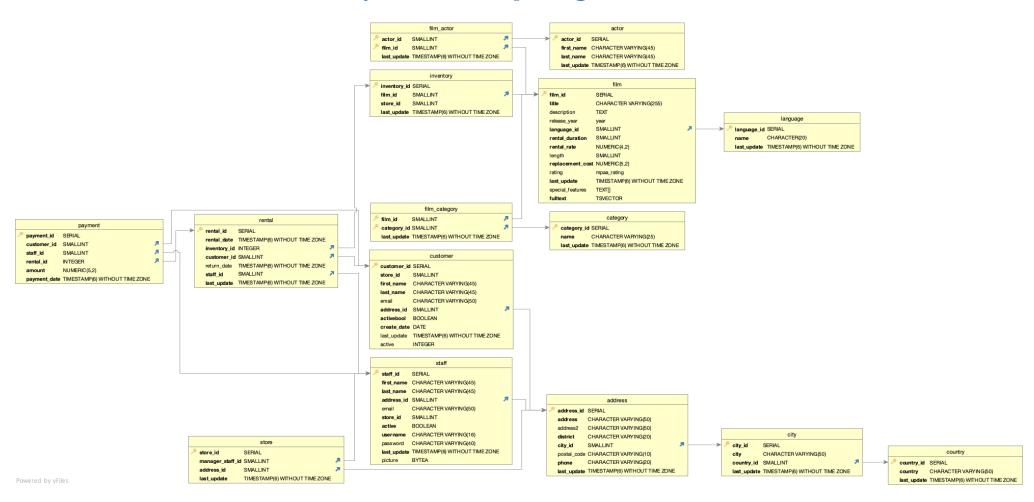
Data Dictionary

Last Update: March 30, 2023

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Entity Relationship Diagram Schema

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

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	

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

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	

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	

store

🔑 store_id	SERIAL	
manager_staff_id	SMALLINT	↗
address_id	SMALLINT	↗
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

Fact Tables

1. Payment

1.1 Tables: payment

Payment information including customer and date.

Columns

Key	Name	Data Type	Description
Y	payment_id	SERIAL	Primary key for payment records
	customer_id	SMALLINT	Primary key for customer records
	staff_id	SMALLINT	Primary key for staff records
	rental_id	INTEGER	Primary key for rental records
	amount	NUMERIC(5,2)	Total payment received
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of payment transaction

Links to

	Table	Join
	customer	payment.customer_id=customer.customer_id
	rental	payment.rental_id=rental.rental_id
	staff	payment.staff_id=staff.staff_id

2. Rental

2.1 Tables: rental

Rental information including customer and rental dates.

Columns

Key	Name	Data Type	Description
Y	rental_id	SERIAL	Primary key for rental records

	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date rental transaction occurred
	inventory_id	INTEGER	Primary key for inventory records
	customer_id	SMALLINT	Primary key for customer records
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date rental was returned
	staff_id	SMALLINT	Primary key for staff records
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time 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

Dimension Tables

3. Store

3.1 Tables: store

Store information.

Columns

Key	Name	Data Type	Description
Y	store_id	SERIAL	Primary key for store records
	manager_staff_id	SMALLINT	ID for manager of store

	address_id	SMALLINT	Primary key for address records
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time record was last updated

Links to

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

4. Staff

4.1 Tables: staff

Inventory information.

Columns

Key	Name	Data Type	Description
Y	staff_id	SERIAL	Primary key for staff records
	first_name	CHARACTER VARYING(45)	First name of staff
	last_name	CHARACTER VARYING(45)	Last name of staff
	address_id	SMALLINT	Primary key for address records
	email	CHARACTER VARYING(50)	Email of staff
	store_id	SMALLINT	Primary key for store records
	active	BOOLEAN	Indicates if staff record is active
	username	CHARACTER VARYING(16)	Staff username
	password	CHARACTER VARYING(40)	Staff password
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time record was last updated
	picture	BYTEA	Staff picture

Links to

	Table	Join
	address	staff.addres_id=address.address_id

Links from

	Table	Join
	payment	payment.staff_id=staff.staff_id

5. Inventory

5.1 Tables: inventory

Inventory information.

Columns

Key	Name	Data Type	Description
Y	inventory_id	SERIAL	Primary key for inventory records
	film_id	SMALLINT	Primary key for film records
	store_id	SMALLINT	Primary key for store records
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time 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

6. Film

6.1 Tables: film

Film information including rental information and replacement cost.

Columns

Key	Name	Data Type	Description
Y	film_id	SERIAL	Primary key for film records
	title	CHARACTER VARYING(255)	Film title
	description	TEXT	Film description
	release_year	YEAR	Year film was released
	language_id	SMALLINT	Primary key of language records
	rental_duration	SMALLINT	Length of rental
	rental_rate	NUMERIC(4,2)	Cost of rental
	length	SMALLINT	Length of film
	replacement_cost	NUMERIC(5,2)	Cost to replace the film
	rating	MPAA_RATING	Film's rating
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time record was last updated
	special_features	TEXT[]	Indicates special features included
	fulltext	TSVECTOR	Keywords to return the film during search

Links to

	Table	Join
	language	film.language_id=language.language_id

Links from

	Table	Join
	inventory	inventory.film_id=film.film_id
	film_category	film_category.film_id=film.film_id

	film_actor	film_actor.film_id=film.film_id

7. Film_Actor

7.1 Tables: film_actor

Film actor information.

Columns

Key	Name	Data Type	Description
Y	actor_id	SMALLINT	Primary key for actor records
Y	film_id	SMALLINT	Primary key for film records
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time record was last updated

Links to

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

8. Actor

8.1 Tables: actor

Actor information.

Columns

Key	Name	Data Type	Description
Y	actor_id	SERIAL	Primary key for actor records
	first_name	CHARACTER VARYING(45)	First name of actor
	last_name	CHARACTER VARYING(45)	Last name of actor

	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time record was last updated

Links from

	Table	Join
	film_actor	film_actor.actor_id=actor.actor_id

9. Language

9.1 Tables: language

Language information about film.

Columns

Key	Name	Data Type	Description
Y	language_id	SERIAL	Primary key of language records
	name	CHARACTER(20)	Name of language
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time record was last updated

Links from

	Table	Join
	film	film.language_id=language.language_id

10. Film_Category

10.1 Tables: film_category

Film category information.

Columns

Key	Name	Data Type	Description
Y	film_id	SMALLINT	Primary key for film records
Y	category_id	SMALLINT	Primary key for category records
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time record was last updated

Links to

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

11. Category

11.1 Tables: category

Film category information.

Columns

Key	Name	Data Type	Description
Y	category_id	SERIAL	Primary key for category records
	name	CHARACTER VARYING(25)	Category/genre of film
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time record was last updated

Links from

	Table	Join
	film_category	film_category.category_id=category.category_id

12. Customer

12.1 Tables: customer

Customer information including contact information.

Columns

Key	Name	Data Type	Description
Y	customer_id	SERIAL	Primary key for customer records
	store_id	SMALLINT	Primary key for store records

	first_name	CHARACTER VARYING(45)	First name of customer
	last_name	CHARACTER VARYING(45)	Last name of customer
	email	CHARACTER VARYING(50)	Email of customer
	address_id	SMALLINT	Primary key for address records
	activebool	BOOLEAN	Indicates if customer record is active
Y	create_date	DATE	Date customer record was created
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time record was last updated
	active	INTEGER	Date customer record was last active

Links to

	Table	Join
	address	customer.address_id=address.address_id

Links from

	Table	Join
	rental	rental.customer_id=customer.customer_id
	payment	payment.customer_id=customer.customer_id

13. Address

13.1 Tables: address

Address information.

Columns

Key	Name	Data Type	Description
Y	address_id	SERIAL	Primary key for address records
	address	CHARACTER VARYING(50)	Address line 1
	address2	CHARACTER VARYING(50)	Address line 2
	district	CHARACTER VARYING(20)	District/State of address

	city_id	SMALLINT	Primary key for city records
	postal_code	CHARACTER VARYING(10)	Postal code for address
	phone	CHARACTER VARYING(20)	Phone number connected to address
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time record was last updated

Links to

	Table	Join
	city	address.city_id=city.city_id

Links from

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

14. City

14.1 Tables: city

City information.

Columns

Key	Name	Data Type	Description
Y	city_id	SERIAL	Primary key for city records
	city	CHARACTER VARYING(50)	Name of city
	country_id	SMALLINT	Primary key for country records
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time 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

15.   Country

15.1 Tables: country

Country information.

Columns

Key	Name	Data Type	Description
Y	country_id	SERIAL	Primary key for country records
	country	CHARACTER VARYING(50)	Name of country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time record was last updated

Links from

	Table	Join
	city	city.country_id=country.country_id