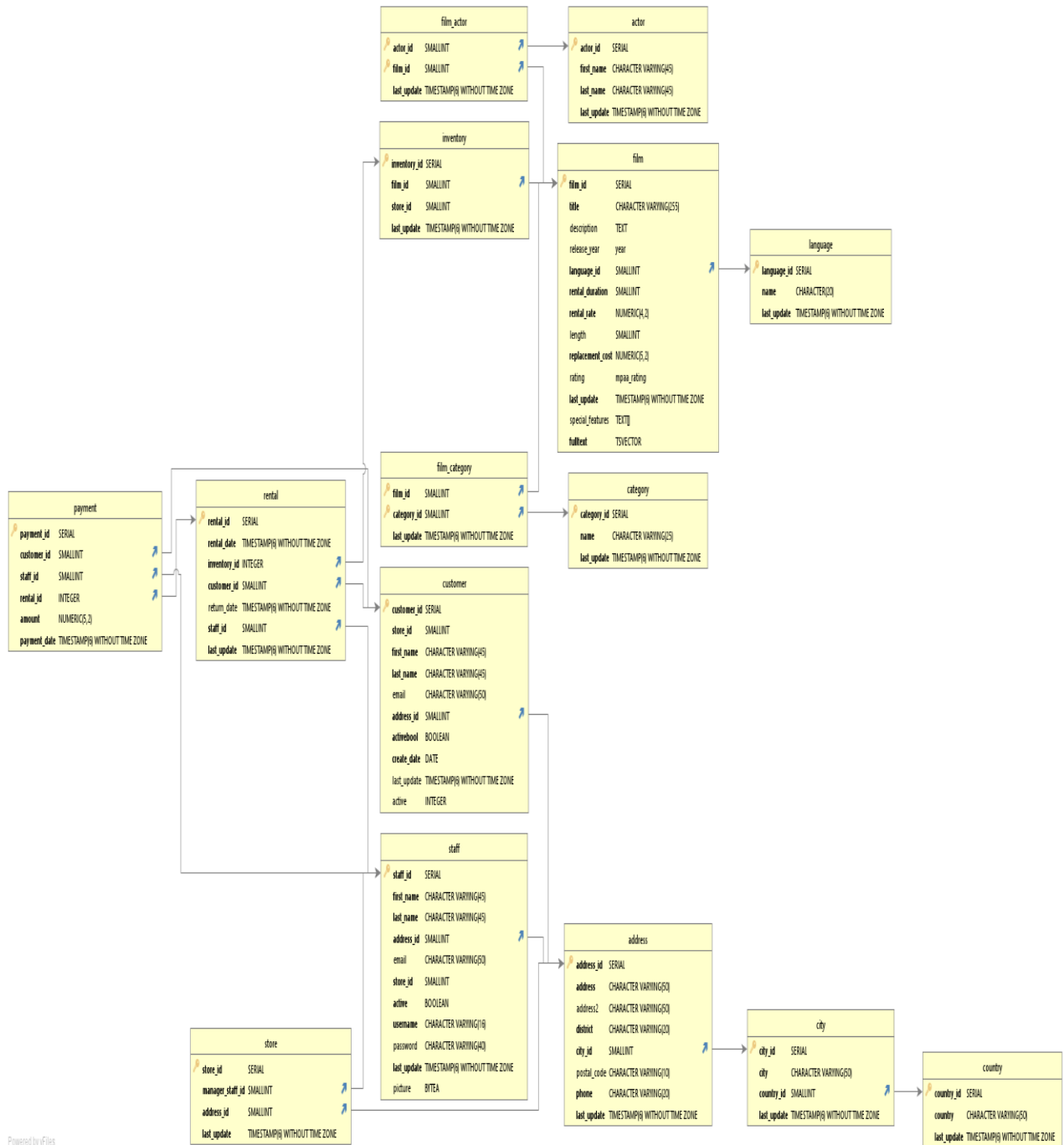


Rockbuster Stealth Data Dictionary

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Entity Relationship Diagram



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Data Dictionary

Fact table

rental table

Columns	Data type	Description
rental_id	SERIAL	Unique identifier for rent details. Data type - series of number.
rental_date	TIMESTAMP (6) WITHOUT TIMEZONE	The date when rental was made. Data type – date in the format of yyyy-mm-dd without timezone.
inventory_id	INTEGER	Unique inventory id from inventory table. Data type - integer value.
customer_id	SMALLINT	Unique customer id from customer table Data type - small integer value.
return_date	TIMESTAMP (6) WITHOUT TIMEZONE	The date when rental was returned. Data type – date in the format of yyyy-mm-dd without timezone.
staff_id	SMALLINT	Unique staff id from staff table. Data type - small integer value.
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	The date when rental status was last updated. Data type – date in the format of yyyy-mm-dd without timezone.

Linked to:

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

Linked from:

Table name	Join
payment	payment.rental_id = rental.rental_id

Unique Key:

Column Name	Decription
rental_id	Primary key
inventory_id	Foreign key
customer_id	Foreign key
staff_id	Foreign key

Dimensions table
payment table

Columns	Data type	Description
payment_id	SERIAL	Unique identifier for payment made for rentals. Data type - series of number.
customer_id	SMALLINT	Unique identifier to customer table. Data type - small integer value.
staff_id	SMALLINT	Unique identifier to staff table. Data type - small integer value.
rental_id	INTEGER	Unique identifier to rental table Data type - integer value.
amount	NUMERIC (5,2)	Payment made for the rental. Data type – numeric value containing 5 digits and 2 decimal values.
payment_date	TIMESTAMP (6) WITHOUT TIMEZONE	The date payment was made. Data type – date in the format of yyyy-mm-dd without timezone.

Linked to:

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

Unique Key:

Column Name	Decription
payment_id	Primary key
rental_id	Foreign key
customer_id	Foreign key
staff_id	Foreign key

store table

Columns	Data type	Description
store_id	SERIAL	Unique identifier for stores Data type - series of number.
manager_staff_id	SMALLINT	Unique identifier to staff table. Data type - small integer value
address_id	SMALLINT	Unique identifier to address table. Data type - small integer value
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	The date was last updated. Data type – date in the format of yyyy-mm-dd without timezone.

Linked to:

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

Unique Key:

Column Name	Decription
store_id	Primary key
manager_staff_id	Foreign key
address_id	Foreign key

film_actor

Columns	Data type	Description
actor_id	SMALLINT	actor_id and film_id form the composite key for film_actor table. Foreign key to actor table Data type - small integer value
film_id	SMALLINT	Actor_id and film_id form the composite key for film_actor table. Foreign key to film table. Data type - small integer value
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	The date when last updated. Data type – date in the format of yyyy-mm-dd without timezone.

Linked to:

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

Unique Key:

The two foreign keys together form the composite key for the film_actor table.

Column Name	Decription
actor_id	Foreign key
film_id	Foreign key

inventory table

Columns	Data type	Description
inventory_id	SERIAL	Unique identifier for inventory table. Data type - series of number.
film_id	SMALLINT	Unique identifier to film table. Data type - small integer value
store_id	SMALLINT	Unique identifier to store table. Data type - small integer value
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	The date when last updated. Data type – date in the format of yyyy-mm-dd without timezone.

Linked to:

Table name	Join
film	inventory.film_id = film.film_id
store	inventory.store_id = store.store_id

Linked from:

Table name	Join
rental	rental.inventory_id = inventory.inventory_id

Unique Key:

Column Name	Decription
inventory_id	Primary key
film_id	Foreign key
store_id	Foreign key

film_category

Columns	Data type	Description
film_id	SMALLINT	category_id and film_id form the composite key for film_category table. Foreign key to film table. Data type - small integer value
category_id	SMALLINT	Foreign key to category table. Data type - small integer value
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	The date when rental status was last updated. Data type – date in the format of yyyy-mm-dd without timezone.

Linked to:

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

Unique Key:

The two foreign keys together form the composite key for the film_category table.

Column Name	Decription
category_id	Foreign key
film_id	Foreign key

customer table

Details of all the customers like name, address, email, active status.

Columns	Data type	Description
customer_id	SERIAL	Unique identifier for customers. Data type - series of number.
store_id	SMALLINT	Unique identifier to store table. Data type – small integer value
first_name	CHARACTER VARYING (45)	First name of the customer. Data type – varying characters up to length of 45
last_name	CHARACTER VARYING (45)	Last name of the customer. Data type – varying characters up to length of 45
email	CHARACTER VARYING (50)	Email of the customer. Data type – varying characters up to length of 50
address_id	SMALLINT	Unique identifier to address table. Data type - small integer value
activebool	BOOLEAN	Indicating the status of the customer whether active or not. Data type – Boolean value (true or false)
create_date	DATE	Date when new customer was added
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	The date when last updated. Data type – date in the format of yyyy-mm-dd without timezone.
active	INTEGER	Indicating the status of the customer whether active or not. Data type – Integer value given to the status

Linked to:

Table name	Join
address	customer.address_id = address.address_id
store	customer.store_id = store.store_id

Linked from:

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

Unique Key:

Column Name	Decription
customer_id	Primary key
address_id	Foreign key
store_id	Foreign key

Staff

Details about the staff including the store they handle.

Columns	Data type	Description
staff_id	SERIAL	Unique identifier for staff table Data type - series of number.
first_name	CHARACTER VARYING (45)	First name of staff. Data type – varying characters up to length of 45.
last_name	CHARACTER VARYING (45)	Last name of staff. Data type – varying characters up to length of 45
address_id	SMALLINT	Unique identifier to address table. Data type - small integer value
email	CHARACTER VARYING(50)	Email of staff. Data type – varying characters up to length of 45
store_id	SMALLINT	Unique identifier to store table. Data type - small integer value
active	BOOLEAN	Staff status whether active or not. Data type – Boolean (true or false)
username	CHARACTER VARYING (16)	Username of staff. Data type – varying characters up to length of 45
password	CHARATER VARYING (40)	Password of staff. Data type – varying characters up to length of 45
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	The date when last updated. Data type – date in the format of yyyy-mm-dd without timezone.
picture	BYTEA	Picture of the staff

Linked to:

Table name	Join
address	staff.address_id = address.address_id
store	staff.store_id = store.store_id

Linked from:

Table name	Join
payment	payment.staff_id = staff.staff_id
rental	rental.staff_id = staff.staff_id

Unique Key:

Column Name	Decription
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staff_id	Primary key
address_id	Foreign key
store_id	Foreign key

actor table

Key	Columns	Data type	Description
Primary	actor_id	SERIAL	Primary Key – unique identifier for actor table. Data type - series of number.
	first_name	CHARACTER VARYING (45)	First name of the actor. Data type – varying characters up to length of 45
	last_name	CHARACTER VARYING (45)	Last name of the actor. Data type – varying characters up to length of 45
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	The date when last updated. Data type – date in the format of yyyy-mm-dd without timezone.

Linked from:

Table name	Join
film_actor	actor.actor_id = film_actor.actor_id

Unique Key:

Column Name	Decription
actor_id	Primary key

film table

Columns	Data type	Description
film_id	SERIAL	Unique identifier for film table. Data type - series of number.
title	CHARACTER VARYING (255)	Title of the film. Data type – varying characters up to length of 45
description	TEXT	Details about the film. Data type – Text
release_year	YEAR	Year when movie was released
language_id	SMALLINT	Unique identifier to language table Data type - small integer value
rental_duration	SMALLINT	Duration for which film was rented. Data type - small integer value
rental_rate	NUMERIC (4,2)	Rate for which the movie was rented. Data type – Numeric value with 4 digits and 2 decimal values
length	SMALLINT	Length of the movie Data type – Small integer value
replacement_cost	NUMERIC (5,2)	Data type – numeric value with 5 digits and 2 decimals
rating	M PAA_RATING	Rating given to the film
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	The date when last updated. Data type – date in the format of yyyy-mm-dd without timezone.
special_features	TEXT[]	Other features of the film Data type – text in brackets
fulltext	TSVECTOR	Text data

Linked to:

Table name	Join
language	film.language_id = language.language_id

Linked from:

Table name	Join
inventory	inventory.film_id = film.film_id
film_actor	film_actor.film_id = film.film_id

film_category	film_category.film_id = film.film_id
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Unique Key:

Column Name	Decription
film_id	Primary key
language_id	Foreign key

category table

Columns	Data type	Description
category_id	SERIAL	Unique identifier for category table. Data type - series of number.
name	CHARACTER VARYING (25)	Name of the genre of the film. Data type – varying characters up to length of 45
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	The date when last updated. Data type – date in the format of yyyy-mm-dd without timezone.

Linked from:

Table name	Join
film_category	film_category.category_id = category.category_id

Unique Key:

Column Name	Decription
category_id	Primary key

address table

Columns	Data type	Description
address_id	SERIAL	Unique identifier for address table Data type - series of number.
address	CHARACTER VARYING (50)	Address Data type – varying characters up to length of 50
address2	CHARACTER VARYING (50)	Second address line Data type – varying characters up to length of 50
district	CHARACTER VARYING (20)	District. Data type – varying characters up to length of 20
city_id	SMALLINT	Unique identifier to city table. Data type - small integer value
postal_code	CHARACTER VARYING (10)	Data type – varying characters up to length 10
phone	CHARACTER VARYING (20)	Data type – varying characters up to length 20 letters
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	The date when last updated. Data type – date in the format of yyyy-mm-dd without timezone.

Linked to:

Table name	Join
city	address.city_id = city.city_id

Linked from:

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

Unique Key:

Column Name	Decription
address_id	Primary key
city_id	Foreign key

language table

Key	Columns	Data type	Description
Primary	language_id	SERIAL	Unique identifier for language table. Data type - series of number.
	name	CHARACTER (20)	Language name Data type – varying characters up to length of 20
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	The date when last updated. Data type – date in the format of yyyy-mm-dd without timezone.

Linked from:

Table name	Join
film	film.language_id = language.language_id

Unique Key:

Column Name	Decription
language_id	Primary key

city table

Key	Columns	Data type	Description
Primary	city_id	SERIAL	Primary Key – unique identifier for city table. Data type - series of number.
	city	CHARACTER VARYING (50)	Data type – varying characters up to length of 50
Foreign	country_id	SMALLINT	Foreign key to country table. Data type - small integer value
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	The date when last updated. Data type – date in the format of yyyy-mm-dd without timezone.

Linked to:

Table name	Join
country	city.country_id = country.country_id

Linked from:

Table name	Join
address	address.city_id = city.city_id

Unique Key:

Column Name	Decription
city_id	Primary key
country_id	Foreign key

country table

Key	Columns	Data type	Description
Primary	country_id	SERIAL	Primary Key – unique identifier for country table. Data type - series of number.
	country	CHARACTERVARYING (50)	Data type – varying characters up to length of 50
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	The date when last updated. Data type – date in the format of yyyy-mm-dd without timezone.

Linked from:

Table name	Join
city	city.country_id = country.country_id

Unique Key:

Column Name	Decription
country_id	Primary key