Rockbuster Stealth LLC Data Dictionary

Version 1.0

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1. General Information

1.1. Legend

Icon	Name	Description
	Primary Key	A column or set of columns that acts as a unique identifier for each record in a table.
	Foreign Key	A column, or set of columns, that refers to the primary key in another table.
	Link	Links the foreign key to a primary key.

1.2. Version History

Version	Updated By	Approved By	Approval Date
1.0	Christoph Schöneseiffen		

2. Enterprise Relationship Diagram (ERD)

3. Tables

3.1. Table: rental

Rental information on date, customer, return and staff

Columns

Column	Data Type	Description
rental_id	SERIAL	identifier for rental
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date & time of rental
inventory_id	INTEGER	identifier for inventory
customer_id	SMALLINT	identifier for customer
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of rental return
staff_id	SMALLINT	identifier for staff
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last change date of the record

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

Linked from:

Table	Join
payment	rental.rental_id = payment.rental_id

Unique Keys:

Icon	Column
🔑	rental_id
↗	inventory_id
↗	customer_id
↗	staff_id

3.2. Table: actor

Information on actor first and last name

Columns:

Column	Data Type	Description
actor_id	SERIAL	Unique identifier for actor's record
first_name	CHARACTER VARYING (45)	Actor's first name
last_name	CHARACTER VARYING (45)	Actor's last name
last_update	TIMESTAMP WITHOUT TIME ZONE	last change date of the record

Linked from:

Table	Join
film_actor	actor.actor_id = film_actor.actor_id

Unique Keys:

Icon	Column
🔑	actor_id

3.3. Table: address

Information on contact information including address and phone

Columns:

Column	Data Type	Description
address_id	SERIAL	unique identifier for address
address	CHARACTER VARYING (50)	customer address
address2	CHARACTER VARYING (50)	additional customer address
district	CHARACTER VARYING (20)	Address district
city_id	SMALLINT	identifier for city
postal_code	CHARACTER VARYING (10)	post code customer's address
phone	CHARACTER VARYING (20)	customer's telephone number
last_update	TIMESTAMP WITHOUT TIME ZONE	last change date of the record

Links to:

Table	Join
city	address.city_id = city.city_id

Linked from:

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

Unique Keys:

Icon	Column
	address_id
	city_id

3.4. Table: category

Information on film categories

Columns:

Column	Data Type	Description
category_id	SERIAL	unique identifier for category
name	CHARACTER VARYING(25)	category name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last change date of the record

Linked from:

Table	Join
film_category	category.category_id = film_category.category_id

Unique Keys:

Icon	Column
🔑	category_id

3.5. Table: city

Information on city and country

Columns:

Column	Data Type	Description
city_id	SERIAL	unique identifier for city
city	CHARACTER VARYING (50)	City
country_id	SMALLINT	unique identifier for country
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last change date of the record

Links to:

Table	Join
country	city.country_id = country-country_id

Linked from:

Table	Join
address	city.city_id = addreses.city_id

Unique Keys:

Icon	Column
🔑	city_id
↗	country_id

3.6. Table: country

Information on country

Columns:

Column	Data Type	Description
country_id	SERIAL	unique identifier for country
country	CHARACTER VARYING (50)	Country
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last change date of the record

Linked from:

Table	Join
city	country.country_id = city.country_id

Unique Keys:

Icon	Column
🔑	country_id

3.7. Table: customer

Customer information on first and last name, email, address, active/non-active

Columns:

Column	Data Type	Description
customer_id	SERIAL	unique customer ID
store_id	SMALLINT	
first_name	CHARACTER VARYING (45)	Customer's first name
last_name	CHARACTER VARYING (45)	Customer's last name
email	CHARACTER VARYING (50)	Customer's emailaddress
address_id	SMALLINT	Customer's address identifier
activebool	Boolean	Identifier if customer is still active or not
create_date	DATE	creation date of customer record
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last change date of the record
active	INTEGER	integer value for active/inactive customer

Links to:

Table	Join
address	customer.address_id = address.address_id

Linked from:

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

Unique Keys:

Icon	Column
🔑	customer_id
↗	address_id

3.8. Table: film

Information on film including title, description, release year, length, language, rental rate, replacement cost, rating and special features

Columns:

Column	Data Type	Description
film_id	SERIAL	Identifier for the Film
title	CHARACTER VARYING (255)	Film/Movie Title
description	TEXT	Movie description
release_year	YEAR	Year in which the film was released
language_id	SMALLINT	identifier for film's language
rental_duration	SMALLINT	duration/length of film rental
rental_rate	NUMERIC(4,2)	Charge amount for rental
length	SMALLINT	Length of the film in minutes
replacement_cost	NUMERIC(5,2)	Replacement cost if film is lost/destroyed/damaged by customer
rating	mpaa_rating	Movie Rating/Age Restrictions
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last change date of the record
special_features	TEXT[]	Special features included in the movie
fulltext	TSVECTOR	film optimized for text search

Links to:

Table	Join
language	film.language_id = language.language_id

Linked from:

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

Unique Keys:

Icon	Column
🔑	film_id
↗	language_id

3.9. Table: film_actor

Information on actor and film relation

Columns:

Coloumn	Data Type	Description
actor_id	SMALLINT	identifier for actor
film_id	SMALLINT	identifier for film
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last change date of the record

Links to:

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

Unique Keys:

Icon	Column
🔑	actor_id
🔑	film_id
↗	actor_id
↗	film_id

3.10. Table: film_category

Information on film and category relation

Columns:

Column	Data Type	Description
film_id	SMALLINT	identifier for film
category_id	SMALLINT	identifier for category
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last change date of the record

Links to:

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

Unique Keys:

Icon	Column
🔑	film_id
🔑	category_id
↗	film_id
↗	category_id

3.11.   Table: inventory

Information on film inventory including film_id and store id

Columns:

Column	Data Type	Description
inventory_id	SERIAL	identifier for inventory
film_id	SMALLINT	identifier for film
store_id	SMALLINT	identifier for store
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last change date of the record

Links to:

Table	Join
film	inventory.film_id = film.film_id

Linked from:

Table	Join
rental	inventory.inventory_id = rental.inventory_id

Unique Keys:

Icon	Column
🔑	inventory_id
↗	film_id

3.12. Table: language

Information on language

Columns:

Column	Data Type	Description
language_id	SERIAL	identifier for film language
name	Character(20)	language
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last change date of the record

Linked from:

Table	Join
film	language.language_id = film.language_id

Unique Keys:

Icon	Column
🔑	language_id

3.13.   Table: payment

Payment Information including customer id, staff id, rental id, amount and payment date

Columns:

Column	Data Type	Description
payment_id	SERIAL	unique identifier for payment
customer_id	SMALLINT	identifier for customer
staff_id	SMALLINT	identifier for staff
rental_id	INTEGER	Identifier for rental
amount	NUMERIC(5,2)	Rent price
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date & time of payment

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

Unique Keys:

Icon	Column
🔑	payment_id
↗	customer_id
↗	staff_id
↗	rental_id

3.14. Table: staff

Staff information including first and last name, contact information, store, username, password and picture

Columns:

Column	Data Type	Description
staff_id	SERIAL	identifier for staff
first_name	CHARACTER VARYING (45)	Staff first name
last_name	CHARACTER VARYING (45)	Staff last name
address_id	SMALLINT	identifier for staff address
email	CHARACTER VARYING (50)	staff email address
store_id	SMALLINT	identifier for store
active	Boolean	active/inactive staff
username	CHARACTER VARYING (16)	staff username
password	CHARACTER VARYING (40)	staff password
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last change date of the record
picture	BYTEA	picture of staff

Links to:

Table	Join
address	staff.address_id = address.address_id

Linked from:

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

Unique Keys:

Icon	Column
🔑	staff_id
↗	address_id

3.15. Table: store

Store information including manager and address

Columns:

Column	Data Type	Description
store_id	SERIAL	identifier for store
manager_staff_id	SMALLINT	identifier for staff manager
address_id	SMALLINT	identifier for address
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last change date of the record

Links to:

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

Unique Keys:

Icon	Column
🔑	store_id
↗	manager_staff_id
↗	address_id