Rockbuster Stealth LLC

Data Dictionary

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Legend

Green Highlight = Fact Table
"A data table that records a process or something that happened."

Blue Highlight = Dimension Table
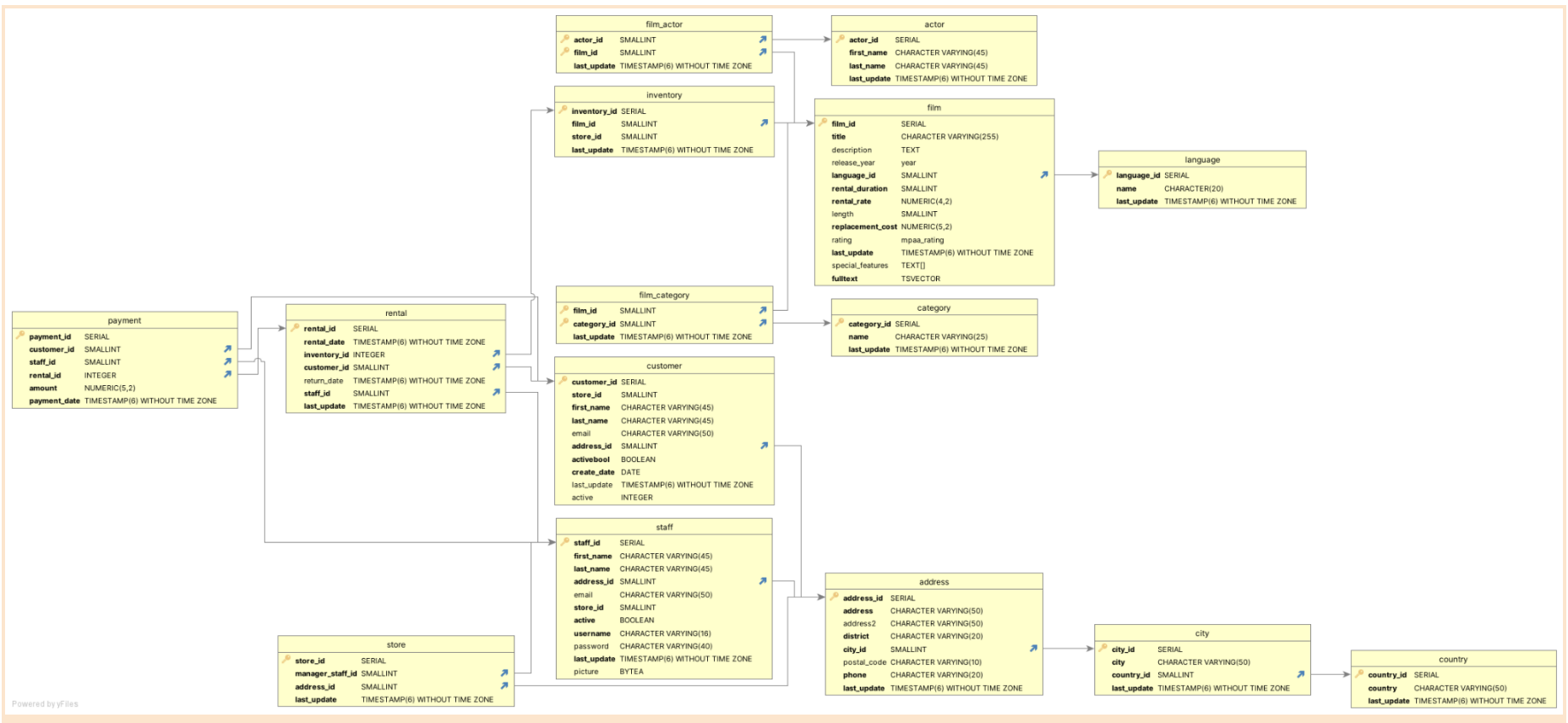"A data table that records information or characteristics about something."

Primary Key
"A column of data values that holds all unique data. It is used to distinguish each aspect of data in a column and can be linked to foreign keys."

Foreign Key
"A column of data that holds data values that correspond to a key from another data table. They can be used to create relationships between tables."

Entity Relationship Diagram

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

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

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

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

store
🔑 store_id	SERIAL
manager_staff_id	SMALLINT
address_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

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

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

Payment

Key	Column Name	Data Type	Description
🔑 (red)	Payment_id	SERIAL	Unique payment ID
🔑 (blue)	customer_id	SMALLINT	Unique customer ID
🔑 (blue)	staff_id	SMALLINT	Unique staff ID
🔑 (blue)	rental_id	INTEGER	Unique rental ID
	amount	NUMERIC (5,2)	Payment amount
	payment_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date of payment

Links to

Table	Joining Column
Customer	customer_id=customer_id
Staff	staff_id=staff_id
Rental	rental_id=rental_id

Rental

Key	Column Name	Data Type	Description
🔑	rental_id	SERIAL	Unique rental ID
	rental_date	TIMESTAMP (6) WITHOUT TIMEZONE	Date of rental
🔑	inventory_id	INTEGER	Unique item ID
🔑	customer_id	SMALLINT	Unique customer ID
	return_date	TIMESTAMP (6) WITHOUT TIMEZONE	Date item was returned
🔑	staff_id	SMALLINT	Unique staff ID
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last update

Links to

Table	Joining Column
Inventory	inventory_id=inventory_id
Customer	customer_id=customer_id
Staff	staff_id=staff_id

Links from

Table	Joining Column
Payment	payment_id=payment_id

Inventory

Key	Column Name	Data Type	Description
🔑 (red)	inventory_id	SERIAL	Unique item ID
🔑 (blue)	film_id	SMALLINT	Unique film ID
🔑 (blue)	store_id	SMALLINT	Unique store ID
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last update

Links to

Table	Joining Column
Film	film_id=film_id
Store	store_id=store_id

Links from

Table	Joining Column
Rental	inventory_id=inventory_id

Film Category

Key	Column Name	Data Type	Description
🔑 (red)	film_id	SMALLINT	Unique film ID
🔑 (blue)	category_id	SMALLINT	Unique film category ID
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last update

Links to

Table	Joining Column
Category	category_id=category_id
Film	film_id=film_id

Category

Key	Column Name	Data Type	Description
🔑	category_id	SERIAL	Unique category ID
	name	CHARACTER VARYING (25)	Name of film category
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last update

Links from

Table	Joining Column
Film Category	category_id=category_id

Customer

Key	Column Name	Data Type	Description
🔑 (red)	customer_id	SERIAL	Unique customer ID
🔑 (blue)	store_id	SMALLINT	Unique store ID
	first_name	CHARACTER VARYING(45)	Customer's first name
	last_name	CHARACTER VARYING(45)	Customer's last name
	email	CHARACTER VARYING(50)	Customer's email address
🔑 (blue)	address_id	SMALLINT	Customer's home address
	activebool	BOOLEAN	Is the customer active: true or false?
	create_date	DATE	Date of customer's profile creation
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last update

Links to

Table	Joining Column
Store	store_id=store_id
Address	address_id=address_id

Links from

Table	Joining Column
Rental	customer_id=customer_id
Payment	customer_id=customer_id

Staff

Key	Column Name	Data Type	Description	
🔑 (red)	staff_id	SERIAL	Unique staff ID	Links to
	first_name	CHARACTER VARYING (45)	Staff's first name	
	lasat_name	CHARACTER VARYING (45)	Staff's last name	
🔑 (blue)	address_id	SMALLINT	Staff's home address	
	email	CHARACTER VARYING (50)	Staff's email address	
🔑 (blue)	store_id	SMALLINT	Unique store ID	
	active	BOOLEAN	Is the staff active: true or false?	
	username	CHARACTER VARYING (16)	Staff's login username	
	password	CHARACTER VARYING (40)	Staff's login password	
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last update	
	picture	BYTEA	Picture of the staff	

Table	Joining Column
Address	address_id=address_id
Store	store_id=store_id

Links from

Table	Joining Column
Rental	staff_id=staff_id
Payment	staff_id=staff_id

Store

Key	Column Name	Data Type	Description
🔑 (red)	store_id	SERIAL	Unique store ID
	manager_staff_id	SMALLINT	Unique Id of the store manager
🔑 (blue)	address_id	SMALLINT	Unique store ID
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last update

Links to

Table	Joining Column
Address	address_id=address_id
Staff	store_id=store_id

Film Actor

Key	Column Name	Data Type	Description
🔑 (red)	actor_id	SMALLINT	Unique actor ID
🔑 (blue)	film_id	SMALLINT	Unique film ID
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last update

Links to

Table	Joining Column
Film	film_id=film_id
Actor	actor_id=actor_id

Actor

Key	Column Name	Data Type	Description
🔑	actor_id	SERIAL	Unique actor ID
	first_name	CHARACTER VARYING (45)	Actor's first name
	last_name	CHARACTER VARYING (45)	Actor's last name
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last update

Links from

Table	Joining Column
Film Actor	actor_id=actor_id

Film

Key	Column Name	Data Type	Description
🔑	film_id	SERIAL	Unique film ID
	title	CHARACTER VARYING (255)	Title of film
	description	TEXT	Description of the film
	release_year	year	Year of film's release
🔑	language_id	SMALLINT	Unique langue ID of film
	rental_duration	SMALLINT	How many days the film can be rented
	rental_rate	NUMERIC(4, 2)	Price of the rental
	length	SMALLINT	Length of the film in minutes
	replacement_cost	NUMERIC(5, 2)	Price to order a replacement film
	rating	mpaa_rating	MPAA Movie Rating

	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last update
	special_features	TEXT	List of film's special features
	fulltext	TSVECTOR	Keywords that can be searched to find the film

Links to

Table	Joining Column
Language	language_id=language_id

Links from

Table	Joining Column
Film Actor	film_id=film_id
Inventory	film_id=film_id
Film Category	film_id=film_id

Language

Key	Column Name	Data Type	Description
🔑	language_id	SERIAL	Unique language ID
	name	CHARACTER (20)	Name of language
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last update

Links from

Table	Joining Column
Film	language_id=language_id

Address

Key	Column Name	Data Type	Description
🔑	address_id	SERIAL	Unique address ID
	address	CHARACTER VARYING (50)	House number and street name
	address2	CHARACTER VARYING (50)	Secondary address
	district	CHARACTER VARYING (20)	State or Province
🔑	city_id	SMALLINT	Unique city ID
	postal_code	CHARACTER VARYING (10)	Postal code of city
	phone	CHARACTER VARYING (20)	Phone number
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last update

Links to

Table	Joining Column
City	city_id=city_id

Links from

Table	Joining Column
Store	address_id=address_id
Staff	address_id=address_id
Customer	address_id=address_id

City

Key	Column Name	Data Type	Description
🔑 (red)	city_id	SERIAL	Unique city ID
	city	CHARACTER VARYING (50)	Name of city
🔑 (blue)	country_id	SMALLINT	Unique country ID
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last update

Links to

Table	Joining Column
Country	country_id=country_id

Links from

Table	Joining Column
Address	city_id=city_id

Country

Key	Column Name	Data Type	Description
🔑	country_id	SERIAL	Unique country ID
	country	CHARACTER VARYING (50)	Name of country
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last update

Links from

Table	Joining Column
City	country_id=country_id