Data Dictionary

Rockbuster Stealth Analysis

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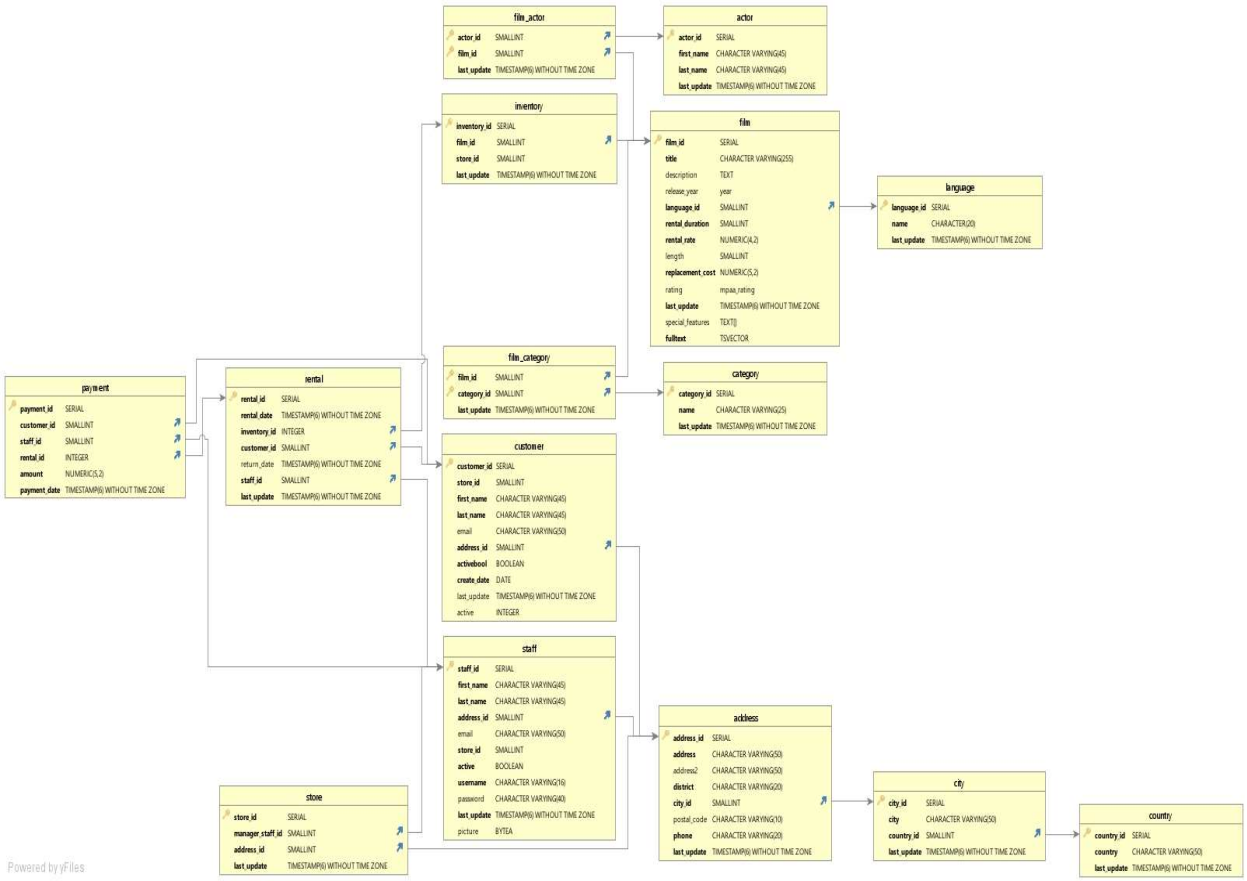
1. Entity Relationship Diagram



2. Data Tables

Legend

- PK = Primary Key
- FK = Foreign Key

2.1 Film Tables

2.1.1 Actor

Key	Columns	Data Type	Description
PK	actor_id	integer	a unique identifier for the actor
	first_name	character varying (45)	first name of the actor
	last_name	character varying (45)	last name of the actor
	last_update	timestamp without time zone	the date and time when the last update are made

Links **To**: **None**

Linked **From:**

Table Name	Linked Columns
film_actor	actor_id = actor_id

2.1.2 Category

Key	Columns	Data Type	Description
PK	category_id	integer	a unique identifier for category
	name	character varying (25)	name of the category
	last_update	timestamp without time zone	the date and time when the last update is made

Links **To**: **None**

Linked **From:**

Table Name	Linked Columns
film_category	category_id = category_id

2.1.3 Film

Key	Columns	Data Type	Description
PK	film_id	Integer	a unique identifier for film
	title	character varying (255)	the title of the film
	description	text	the description of the film
	release_year	integer	the year when the film is released

	language_id	smallint	a unique identifier for language
	rental_duration	smallint	the duration of the rental
	rental_rate	numeric	the date and time when the rental is made
	length	smallint	the length of the film
	replacement_cost	numeric	the cost of replacing the film
	rating	USER-DEFINED	the rating of the film
	last_update	timestamp without time zone	the date and time when the last update is made
	special_features	array	additional features in a movie
	fulltext	tsvector	index for full text

Links **To**:

Table Name	Linked Columns
language	language_id = language_id

Linked **From:**

Table Name	Linked Columns
film_actor	film_id = film_id
film_category	film_id = film_id

2.1.4 Film_actor

Key	Columns	Data Type	Description
PK, FK	actor_id	integer	a unique identifier for the actor
PK, FK	film_id	integer	a unique identifier for film
	last_update	timestamp without time zone	the date and time when the last update is made

Links **To**:

Table Name	Linked Columns
actor	actor_id = actor_id
film	film_id = film_id

Linked **From: None**

2.1.5 Film_Category

Key	Columns	Data Type	Description
PK, FK	film_id	integer	a unique identifier for film
PK, FK	category_id	integer	a unique identifier for category
	last_update	timestamp without time zone	the date and time when the last update is made

Links **To**:

Table Name	Linked Columns
film	film_id = film_id
category	category_id = category_id

Linked **From: None**

2.1.6 Language

Key	Columns	Data Type	Description
PK	language_id	integer	unique ID for language
	Name	character (20)	name of language
	last_update	timestamp without time zone	the date and time when the last update is made

Links **To**: **None**

Linked **From:**

Table Name	Linked Columns
film	language_id = language_id

2.3 Customer Tables

2.2.1 Customer

Key	Columns	Data Type	Description
PK	customer_id	integer	a unique identifier for customer
	store_id	smallint	a unique identifier for store
	first_name	character varying (45)	first name of the customer
	last_name	character varying (45)	last name of the customer
	email	character varying (50)	email of the customer
FK	address_id	smallint	a unique identifier for address
	activebool	boolean	status whether the customer is active or not
	create_date	date	the date when the customer is created in the system
	last_update	timestamp without time zone	the date and time when the last update is made
	active	integer	number

Links To:

Table Name	Linked Columns
address	address _id = address _id

Linked **From:**

Table Name	Linked Columns
rental	customer_id = customer_id

2.2.2 Rental

Key	Columns	Data Type	Description
PK	rental_id	Integer	A unique identifier for rental
	rental_date	timestamp without a time zone	the date and time when the rental is made
FK	inventory_id	integer	a unique identifier for inventory

FK	customer_id	smallint	a unique identifier for customer
	return_date	timestamp without a time zone	the date and time when the return is made
FK	staff_id	smallint	a unique identifier for staff
	last_update	timestamp without a time zone	the date and time when the last update is made

Links **To**:

Table Name	Linked Columns
inventory	inventory_id = inventory_id
customer	customer_id = customer_id
staff	staff_id = staff_id

Linked **From:**

Table Name	Linked Columns
payment	rental_id = rental_id

2.3 LOCATION TABLE

2.3.1 ADDRESS

Key	Columns	Data Type	Description
PK	address_id	integer	a unique identifier for address
	address	character varying (50)	the first line of an address
	address2	character varying (50)	an optional second line of an address
	district	character varying (20)	the region of an address
FK	city_id		the city of an address
	postal_code	character varying (10)	the postal code of an address
	phone	character varying (10)	the phone number for the address
	last_update	timestamp without time zone	the date and time when the last update is made

Links **To**:

Table Name	Linked Columns
city	city_id= city_id

Linked **From:**

Table Name	Linked Columns
city	city_id = city_id
customer	address_id = address_id

2.3.2 City

Key	Columns	Data Type	Description
PK	city_id	integer	a unique identifier for city
	city	character varying (50)	name of city
FK	country_id	smallint	a unique identifier for country
	last_update	timestamp without	the date and time when the last update is

		time zone	made

Links **To**:

Table Name	Linked Columns
country	country_id = country_id

Linked **From:**

Table Name	Linked Columns
address	city_id = city_id

2.3.3 Country

Key	Columns	Data Type	Description
PK	country_id	integer	a unique identifier for country
	country	character varying (50)	name of country
	last_update	timestamp without time zone	the date and time when the last update is made

Links **To**: **None**

Linked **From:**

Table Name	Linked Columns
city	city_id = city_id

2.4 Payment Tables

2.4.1 Payment

Key	Columns	Data Type	Description
PK	payment_id	integer	a unique identifier for payments
FK	customer_id	smallint	a unique identifier for customer
FK	staff_id	smallint	a unique identifier for staff
FK	rental_id	integer	a unique identifier for rental
	amount	numeric	amount paid by the customer
	payment_date	timestamp without time zone	the date and time when a payment is paid

Links To:

Table Name	Linked Columns
customer	customer_id = customer_id
staff	staff_id = staff_id
rental	rental_id = rental_id

Linked **From: None**

2.5 Operations Tables

2.5.1 Inventory

Key	Columns	Data Type	Description
PK	inventory_id	integer	unique ID for inventory
FK	film_id	integer	a unique identifier for film
	store_id	integer	a unique identifier for store
	last_update	timestamp without time zone	the date and time when the last update is made

Links To:

Table Name	Linked Columns
film	film_id = film_id

Linked **From:**

Table Name	Linked Columns
rental	inventory_id = inventory_id

2.5.3 Staff

Key	Columns	Data Type	Description
PK	staff_id	integer	a unique identifier for staff member
	first_name	character varying (45)	first name of the customer
	last_name	character varying (45)	last name of the customer
FK	address_id	smallint	a unique identifier for address
	email	character varying (50)	email of the customer
	store_id	smallint	a unique identifier for store
	active	boolean	status whether the customer is active or not
	username	character varying (16)	username for staff member
	password	character varying (40)	password for staff member
	last_update	timestamp without time zone	the date and time when the last update is made
	picture	bytea	staff member's picture.

Links To:

Table Name	Linked Columns
address	address_id = address_id

Linked **From:**

Table Name	Linked Columns
rental	staff_id = staff_id

2.5.3 Store

Key	Columns	Data Type	Description
PK	store_id	integer	a unique identifier for store
FK	manager_staff_id	integer	unique ID for inventory
FK	address_id	smallint	a unique identifier for address
	last_update	timestamp without time zone	the date and time when the last update is made

Links To:

Table Name	Linked Columns
staff	manager_staff_id = staff_id
address	address_id = address_id

Linked **From:** None