Rockbuster Stealth LLC

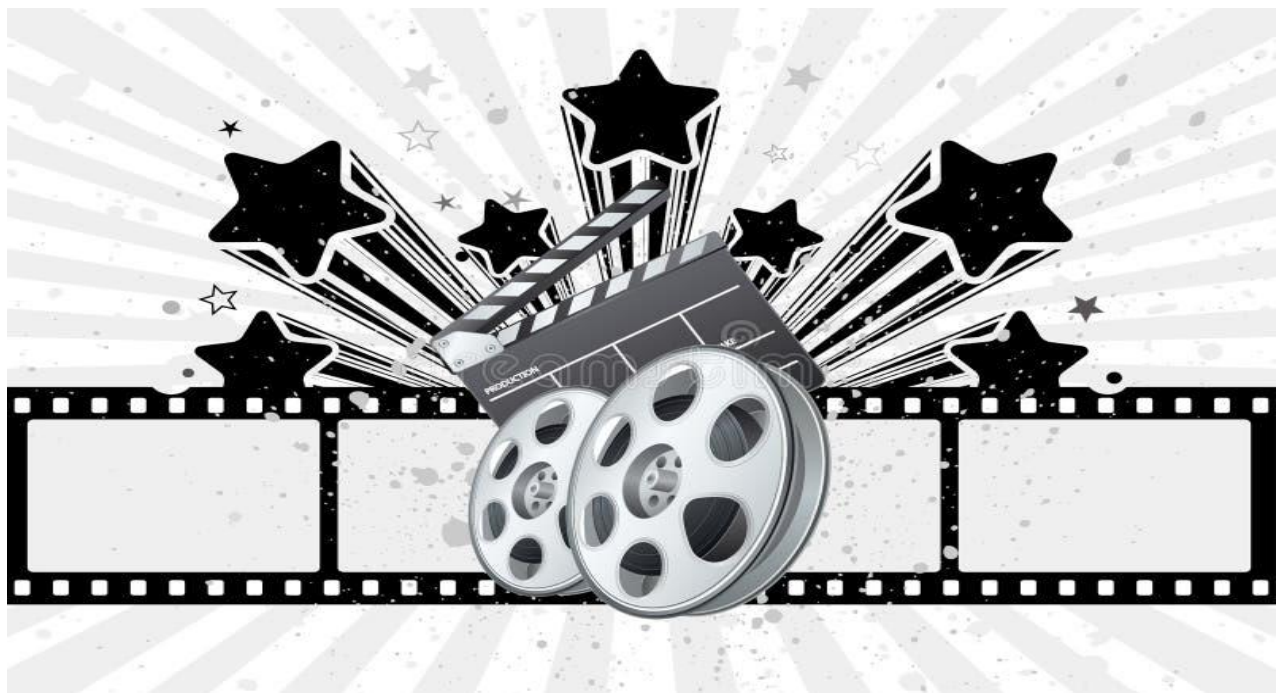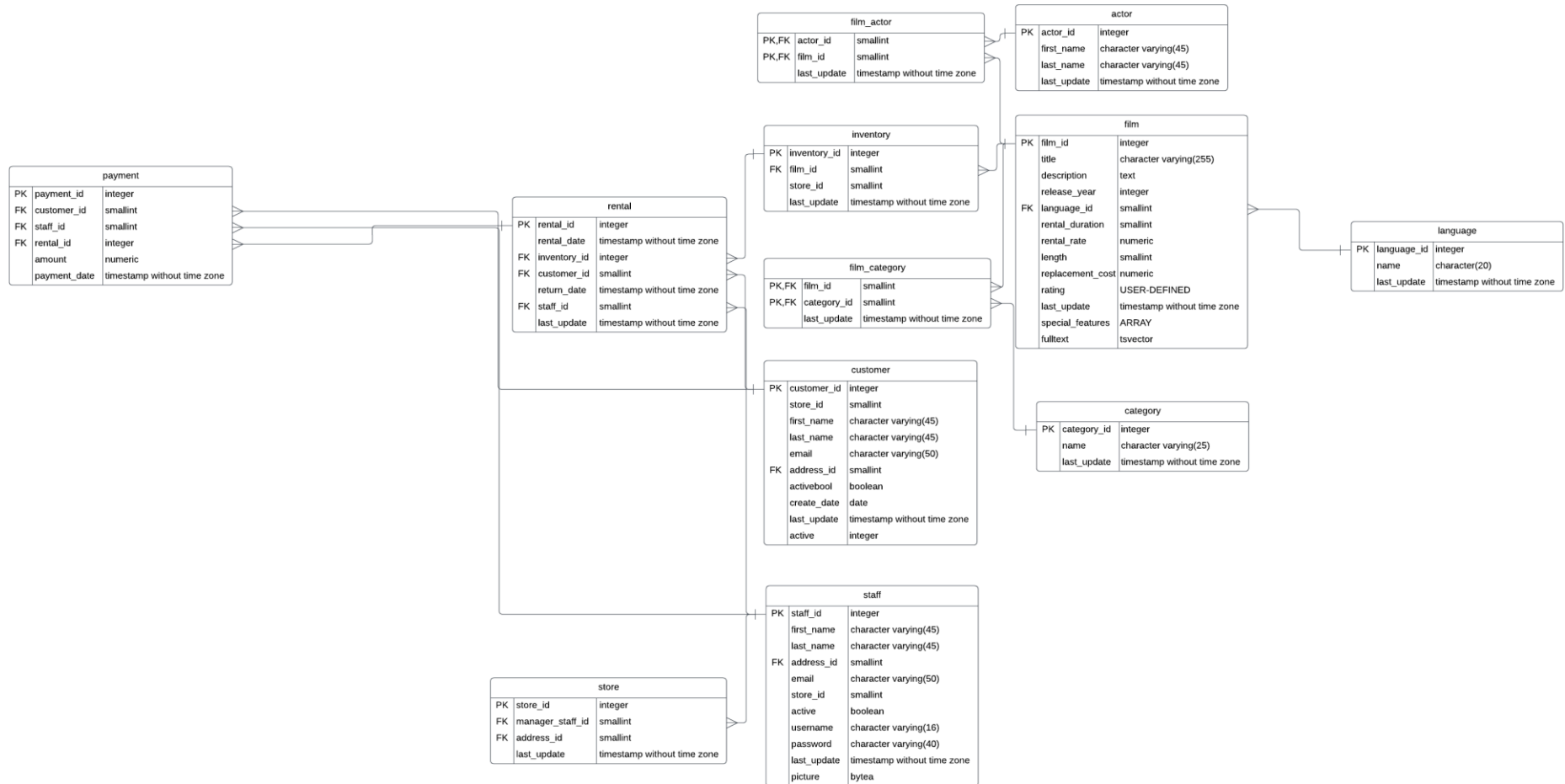Data Dictionary

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Rockbuster Stealth LLC

Rockbuster Stealth LLC is a movie rental company that plans to launch an online video rental service using its large database, including information on movies, customers, and staff. The data can be used to derive insights for the service's launch strategy, aiming to stay competitive against streaming services such as Netflix and Amazon Prime.

Entity Relationship Diagram

film_actor

PK,FK	actor_id	smallint
PK,FK	film_id	smallint
	last_update	timestamp without time zone

actor

PK	actor_id	integer
	first_name	character varying(45)
	last_name	character varying(45)
	last_update	timestamp without time zone

inventory

PK	inventory_id	integer
FK	film_id	smallint
	store_id	smallint
	last_update	timestamp without time zone

film

PK	film_id	integer
	title	character varying(255)
	description	text
	release_year	integer
FK	language_id	smallint
	rental_duration	smallint
	rental_rate	numeric
	length	smallint
	replacement_cost	numeric
	rating	USER-DEFINED
	last_update	timestamp without time zone
	special_features	ARRAY
	fulltext	tsvector

payment

PK	payment_id	integer
FK	customer_id	smallint
FK	staff_id	smallint
FK	rental_id	integer
	amount	numeric
	payment_date	timestamp without time zone

rental

PK	rental_id	integer
	rental_date	timestamp without time zone
FK	inventory_id	integer
FK	customer_id	smallint
	return_date	timestamp without time zone
FK	staff_id	smallint
	last_update	timestamp without time zone

film_category

PK,FK	film_id	smallint
PK,FK	category_id	smallint
	last_update	timestamp without time zone

language

PK	language_id	integer
	name	character(20)
	last_update	timestamp without time zone

customer

PK	customer_id	integer
	store_id	smallint
	first_name	character varying(45)
	last_name	character varying(45)
	email	character varying(50)
FK	address_id	smallint
	activebool	boolean
	create_date	date
	last_update	timestamp without time zone
	active	integer

category

PK	category_id	integer
	name	character varying(25)
	last_update	timestamp without time zone

staff

PK	staff_id	integer
	first_name	character varying(45)
	last_name	character varying(45)
FK	address_id	smallint
	email	character varying(50)
	store_id	smallint
	active	boolean
	username	character varying(16)
	password	character varying(40)
	last_update	timestamp without time zone
	picture	bytea

store

PK	store_id	integer
FK	manager_staff_id	smallint
FK	address_id	smallint
	last_update	timestamp without time zone

Fact Data

🔑-Primary key

🔑-Foreign-key

Payment

Column	Data Type	Description
🔑 Payment_ ID	Serial	Unique payment identifier
🔑 Customer_ ID	Small Int	Unique customer identifier
🔑 Staff_ ID	Small Int	Unique staff identifier
🔑 Rental_ ID	Integer	Unique rental identifier
Amount	Numeric (5,2)	Amount of payment received
Payment_ Date	Timestamp W/o Time Zone	Date of payment

Links To:

Table	Join	Description
Customer	Payment. customer_ id =Customer. Customer_ id	Foreign Key constraint referencing customer. Customer_ id.
Staff	Payment. staff_ id =staff. Staff_ id	Foreign Key constraint referencing staff. Staff_ id.
Rental	Payment. Rental_ id =rental. Rental_ id	Foreign Key constrain referencing rental. Rental_ id.

Links from:

This table doesn't link from any tables.

Unique Keys:

Columns	Description
🔑 Payment_ id	A unique Identifier for payment.
🔑 Customer_ id	A unique Identifier for the customer.
🔑 Staff_ id	A unique Identifier for staff.
🔑 Rental_ id	A unique Identifier for rental.

Rental

Column	Data Type	Description
🔑 Rental_ id	Serial	Unique rental identifier
Rental_ date	Timestamp w/o time zone	Date of rental
🔑 Inventory_ id	Integer	Unique inventory identifier
🔑 Customer_ id	Small Int	Unique customer identifier
Return_ date	Timestamp w/o time zone	Date of return
🔑 Staff_ id	Small Int	Unique staff identifier
Last_ update	Timestamp w/o time zone	Time of the last update

Link To:

Table	Join	Description
Inventory	Rental. Inventory_ id =inventory. Inventory_ id	Foreign key constraint referencing inventory. Inventory_ id.
Customer	Rental. Customer_ id =customer. Customer_ id	Foreign key constraint referencing customer. customer_ id.
Staff	Rental. Staff_ id =Staff. Staff_ id	Foreign key constraint referencing staff. Staff_ id.

Links from:

Table	Join	Description
Payment	Rental. Rental_ id =Payment. Rental_ id	Foreign key constraint referencing payment

Unique keys:

Columns	Description
Rental_ id	A unique identifier for rentals.
Inventory_ id	A unique identifier for inventory.
Customer_ id	A unique identifier for the customer.
Staff_ id	A unique identifier for staff.

Dimension Data

🔑-Primary key

🔑-Foreign key

Actor

Columns	Data Type	Description
🔑 Actor_ id	Serial	Unique identifier of actor
First_ name	Character Varying (45)	First name of an actor
Last_ name	Character Varying (45)	Last name of an actor
Last_ update	Timestamp w/o Time Zone	Time of the last update

Links to:

This table doesn't link to any tables.

Links from:

Table	Join	Description
Film_ actor	actor. actor_ id = film_ actor. actor_ id	Foreign key constraint referencing film_ actor. actor_ id

Unique keys:

Columns	Description
🔑 Actor_ id	A unique identifier for actor

Address

Columns	Data Type	Description
🔑 **Address_ id**	Serial	Unique identifier of the address
Address	Character Varying (50)	The first line of the address
Address2	Character Varying (50)	The second line of address
District	Character Varying (20)	District of address
🔑 **City_ id**	Small Int	Unique identifier of city
Postal_ code	Character Varying (10)	Postal code associated with the address
Phone	Character Varying (20)	The phone number for the address
Last_ update	Timestamp w/o Time Zone	Time of the last update

Links to:

Table	Join	Description
City	Address. city_ id = city. city_ id	Foreign key constraint referencing city. City_ id

Links from:

Table	Join	Description
Store	address. address_ id = store. address_ id	Foreign key constraint referencing store. Address_ id
Staff	address. address_ id = staff. address_ id	Foreign key constraint referencing staff. Address_ id
Customer	address. address_id = customer. address_ id	Foreign key constraint referencing customer. Address_ id

Unique keys:

Columns	Description
🔑 **Address_ id**	A unique identifier for the address
🔑 **City_ id**	A unique identifier for the city

Category

columns	Data Type	description
Category_ id	Serial	Unique identifier of the category
Name	Character Varying (25)	Name of category
Last_ update	Timestamp w/o Time Zone	Time of the last update

Links to:

This table doesn't link to any tables.

Links from:

Table	Join	Description
Film_ category	Category. Category_ id =film_ category. Category_id	Foreign key constraint referencing film_ category. Category_ id

Unique Keys:

Columns	Description
🔑 Category_ id	A unique identifier for the category

City

columns	Data Type	Description
🔑 City_ id	Serial	Unique identifier of city
City	Character Varying (50)	Name of city
🔑 Country_ id	Small Int	Unique identifier of the country
Last_ update	Timestamp w/o Time Zone	Time of the last update

Links to:

Table	Join	Description
country	City .country_ id = country .country_ id	Foreign key constraint referencing country.country_id

Links from:

Table	Join	Description
Address	city. city_ id = address. city_ id	Foreign key constraint referencing address .city_ id

Unique keys:

columns	Description
🔑 **City_ id**	A unique identifier for the city
🔑 **Country_ id**	A unique identifier for the country

Country

Columns	Data Type	description
🔑 **Country_ id**	Serial	Unique identifier of the country
Country	Character Varying (50)	Name of country
Last_ update	Timestamp w/o Time Zone	Time of the last update

Links to:

This table doesn't link to any tables.

Links from:

Table	Join	Description
City	country.country_id = city.country_id	Foreign key constraint referencing city.country_id.

Unique Keys:

Column	Description
Country_ id	A unique identifier for the country

Customer

Columns	Data Type	Description
🔑 **Customer_ id**	Small Int	Unique customer identifier
Store_ id	Small Int	Unique identifier of store
First_ name	Character Varying (45)	First name of customer
Last_ name	Character Varying (45)	Last name of customer
Email	Character Varying (50)	Email address of the customer
🔑 **Address_ id**	Small Int	Unique identifier of the address

Active bool	Boolean	Whether a customer is active
Create_ date	Date	Date of customer profile creation
Last_ update	Timestamp without time zone	the last time this entry's information was updated in the system.
Active	Integer	The same active status but displayed as an integer.

Links to:

Table	Join	Description
Address	customer.address_id = address.address_id	Foreign key constraint referencing address. Address_ id

Links from:

Table	Join	Description
Payment	customer.customer_id = payment.customer_id	Foreign key constraint referencing payment.customer_id
Rental	customer.customer_id = rental.customer_id	Foreign key constraint referencing rental.customer_id

Unique keys:

Columns	Description
🔑 Customer_ id	A unique identifier for customer
🔑 Address_ id	A unique identifier for the address

Film

Columns	Data types	Description
🔑 Film_ id	Serial	Unique identifier of film
Title	Character Varying (255)	Title of film
Description	Text	Description of film
Release_ year	Year	Year of film release
🔑 Language_ id	Small Int	Language of film
Rental_ duration	Small Int	Duration of rental
Rental_ rate	Numeric (4,2)	Rate of rental
Length	Small Int	Length of film
Replacement_ cost	Numeric (5,2)	Replacement cost of film
Rating	Mpaa_ rating	Rating of film
Last_ update	Timestamp w/o Time Zone	Time of the last update

Special_ features]	Text	Special features of the film
Fulltext	tsvector	The film index; contains a count of keywords in the description

Links to:

Table	Join	Description
Language	Film. Film_ id = language. Film_ id	Foreign key constraint referencing language. Film_ id

Links from:

Table	Join	Description
Film_ actor	film.film_id = film_actor.film_id	Foreign key constraint referencing film_actor.film_id.
Inventory	film.film_id = inventory.film_id	Foreign key constraint referencing inventory.film_id
Film_ category	film.film_id = film_category.film_id	Foreign key constraint referencing film_category.film_id

Unique keys:

Columns	Description
🔑 **Film _ id**	A unique identifier for film
🔑 **Language_ id**	A unique identifier for the language

Film_ Actor:

Column	Data Type	Description
🔑🔑 **Actor_ id**	Small Int	Unique identifier of actor
🔑🔑 **Film_ id**	Small Int	Unique identifier of film
Last_ update	Timestamp w/o time zone	Time of the last update

Links to:

Table	Join	Description
Actor	film_actor.actor_id = actor.actor_id	Foreign key constraint referencing actor.actor_id.
Film	Film_actor.film_id = film.film_id	Foreign key constraint referencing the film.film_id.

Links from:

This table doesn't link from any tables.

Unique keys:

Column	Description
🔑 Actor_ id	A unique identifier for actor
🔑 Film_ id	A unique identifier for the film

Film_ Category

column	Data type	description
🔑 Film_ id	Small Int	Unique identifier of film
🔑 Category_ id	Small Int	Unique identifier of the category
Last_ update	Timestamp w/o Time Zone	Time of the last update

Links to:

Table	Join	Description
Category	film_ category.category _id = category.category _id	Foreign key constraint referencing category. category _id.
Film	Film_ category.film_id = film.film_id	Foreign key constraint referencing the film.film_id.

Links from:

This table doesn't link from any tables

Unique keys:

Column	Description
🔑 Category_ id	A unique identifier for the category
🔑 Film_ id	A unique identifier for the film

Inventory

Column	Data Type	Description
🔑 Inventory_ id	Serial	Unique identifier of inventory
🔑 Film_ id	Small Int	Unique identifier of film
Store_ id	Small Int	Unique identifier of store
Last_ update	Timestamp w/o Time Zone	Time of the last update

Links to:

Table	Join	Description
film	Inventory. Film_ id = film. Film_ id	Foreign key constraint referencing the film. Film_ id

Links from:

Table	Join	Description
Rental	Inventory. Inventory_ id = rental. Inventory_ id	Foreign key constraint referencing rental. Inventory_ id

Unique Keys:

Column	Description
🔑 **Inventory_ id**	A unique identifier for the inventory
🔑 **Film_ id**	A unique identifier for the film

Language

Column	Data Type	Description
🔑 **Language_ id**	Serial	Unique identifier of language
Name	Character Varying (20)	Name of language
Last_ update	Timestamp w/o Time Zone	Time of the last update

Link to:

This table doesn't link to any tables.

Links from:

Table	Join	Description
film	Language. Language_ id = film. Language_ id	Foreign key constraint referencing the film.language_id.

Unique Key:

column	Description
🔑 **Language_ id**	A unique identifier for language.

Staff

Column	Data Type	Description
🔑 **Staff_ id**	Serial	Unique identifier of a staff member
First_ name	Character Varying (45)	First name of a staff member
Last_ name	Character Varying (45)	Last name of a staff member
🔑 **Address _id**	Small Int	Unique identifier of the address
Email	Character Varying (50)	Email address of staff member
Store_ id	Small Int	Unique identifier of store
Active	Boolean	Whether staff member is active
username	Character Varying (16)	Staff member's username
Password	Character Varying (40)	Staff member's password
Last_ update	Timestamp w/o Time Zone	Time of the last update
Picture	Bytea	Picture of a staff member

Link To:

Table	Join	Description
address	Staff.address_id = address.address_id	Foreign key constraint referencing address.address_id

Link from:

Table	Join	Description
Payment	Staff.staff_id = payment.staff_id	Foreign key constraint referencing payment.staff_id
Rental	Staff.staff_id = rental. Staff_ id	Foreign key constraint referencing rental.staff_id
Store	Staff. Store_id = store.store_id	Foreign key constraint referencing store.store_id

Unique keys:

Column	Description
🔑 **Staff_ id**	A unique identifier for staff
🔑 **Address_ id**	A unique identifier for the address

Store

Column	Data Type	Description
🔑 Store_ id	smallint	The unique id number for the store
🔑 Manager_ staff_ id	smallint	The id number of manager the works at this store.
🔑 Address_ id	smallint	The unique id for the address
Last_ update	Timestamp without time zone	The last time this entry's information was updated in the system.

Link to:

Table	Join	Description
Staff	store.store_id = staff.store_id	Foreign key constraint referencing staff. Store_ id
Address	store.address_id = address.address_id	Foreign key constraint referencing address. Address_ id

Link from:

The store table doesn't link from any other table.

Unique keys:

Column	Description
🔑 Store_ id	A unique identifier for the store
🔑 Address_ id	A unique identifier for the address
🔑 Manager_ staff_ id	A unique identifier for the manager