Rockbuster Stealth

Data Dictionary
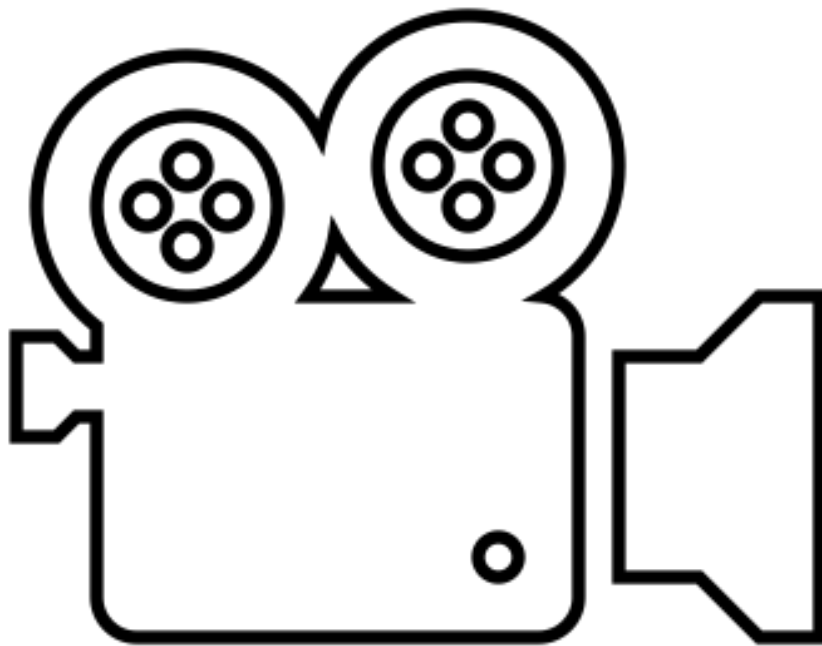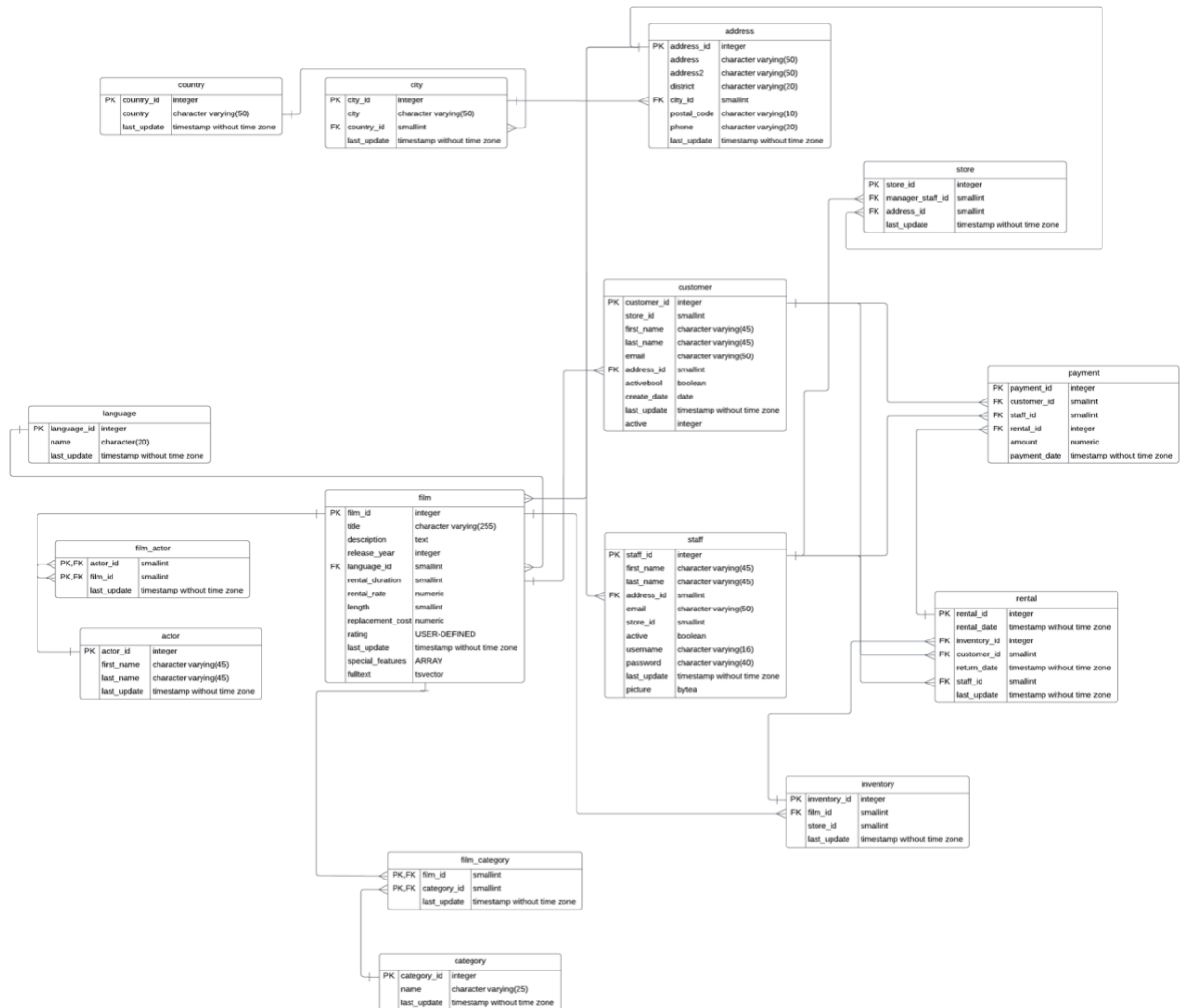
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Rockbuster Stealth LLC

Rockbuster Stealth LLC is a movie rental company with stores worldwide. The Rockbuster database has information on current film rentals. It can be used to help develop a launch strategy for the new online video service.

Entity Relationship Diagram

Fact Tables

Table: Payment

Primary key (PK)   Foreign Key (FK)

Column	Data Type	Description
payment_id (PK)	integer	Unique payment identifier
customer_id (FK)	smallint	Unique customer identifier
staff_id (FK)	smallint	Unique staff identifier
rental_id (FK)	integer	Unique rental identifier
amount	numeric	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 reference to customer table
staff	Payment.staff_id = staff.staff_id	Foreign Key reference to staff table
Rental	Payment.rental_id = rental.rental_id	Foreign Key reference to rental table

Linked from

The payment table does not link from any other tables.

Unique Keys:

Column	Key Type	Description
payment_id	Primary Key	Unique payment identifier
customer_id	Foreign Key	Unique customer identifier
staff_id	Foreign Key	Unique staff identifier
rental_id	Foreign Key	Unique rental identifier

Table: Rental

Column	Data Type	Description
rental_id (PK)	integer	Unique rental identifier
rental_date	Timestamp w/o Time Zone	date of rental
inventory_id (FK)	integer	Unique Inventory identifier
customer_id (FK)	smallint	Unique customer identifier
return_date	Timestamp w/o Time Zone	Date of return
staff_id (FK)	smallint	Unique staff identifier
last_update	Timestamp w/o Time Zone	Time of last update

Links to

Table	Join	Description
Customer	Rental.customer_id = Customer.customer_id	Foreign Key reference to customer table
staff	Rental.staff_id = staff.staff_id	Foreign Key reference to staff table
Inventory	Rental.inventory_id =inventory.inventory_id	Foreign Key reference to inventory table

Linked from

Table	Join	Description
payment	Rental.rental_id = Payment.rental_id	Foreign Key reference to payment table

Unique Keys:

Column	Key Type	Description
rental_id	Primary	Unique rental identifier
inventory_id	Foreign	Unique Inventory identifier
customer_id	Foreign	Unique customer identifier
staff_id	Foreign	Unique staff identifier

Dimension Tables

Table: actor

Column	Data Type	Description
actor_id (PK)	integer	Unique actor identifier
first_name	character varying(45)	First name of actor
last_name	character varying(45)	last name of actor
last_update	Timestamp w/o Time Zone	Time of last update

Links to

The actor table does not link to any other tables.

Links from

Table	Join	Description
Film_actor	actor.actor_id=film_actor.actore_id	Foreign Key reference to film_actor table

Unique Keys:

Column	Key Type	Description
actor_id	Primary	Unique actor identifier

Table: address

Column	Data Type	Description
address_id (PK)	integer	Unique address identifier
address	character varying(50)	First line of address
address2	character varying(50)	second line of address
district	character varying(50)	District of address
city_id (FK)	smallint	Unique identifier of city
postal_code	character varying(10)	Postal code associated with address
phone	character varying(20)	Phone number for address
last_update	Timestamp w/o Time Zone	Time of last update

Links to

Table	Join	Description
city	address.city_id=address.city_id	Foreign Key reference to city table

Links from

Table	Join	Description
store	address.address_id=store.address_id	Foreign Key reference to store table
customer	address.address_id=customer.address_id	Foreign Key reference to customer table
staff	address.address_id=staff.address_id	Foreign Key reference to staff table

Unique Keys:

Column	Key Type	Description
Address_id	Primary	Unique address identifier
city_id	Foreign	Unique city identifier

Table: category

Column	Data Type	Description
category_id (PK)	integer	unique category identifier
name	character varying(25)	Name of Category
last_update	Timestamp w/o Time Zone	Time of last update

Links to

The Category Table does not link to any other table.

Links from

Table	Join	Description
film_category	Category.category_id=film_category_film .category _id	Foreign Key reference to film_category table

Unique Keys:

Column	Key Type	Description
category_id	Primary	Unique Identifier for every film category

Table: city

Column	Data Type	Description
city_id (PK)	integer	Unique city identifier
city	character varying(50)	City name with 50 limitation of character
country_id (FK)	integer	Unique country identifier
last_update	Timestamp w/o Time Zone	Time of last update

Links to

Table	Join	Description
country	city.country_id=country.country_id	Foreign Key reference to country table

Links from

Table	Join	Description
address	city.city_id=address.city_id	Foreign Key reference to address table

Unique Keys:

Column	Key Type	Description
city_id	Primary	Unique identifier of city
country_id	Foreign	Unique country identifier

Table: country

Column	Data Type	Description
country_id (PK)	integer	Unique country identifier
country	character varying(50)	Country name with 50 limitation of character
last_update	Timestamp w/o Time Zone	Time of last update

Links to

The country table does not link to any other tables.

Links from

Table	Join	Description
city	country.country_id=city.country_id	Foreign Key reference to city table

Unique Keys:

Column	Key Type	Description
country_id	Primary	Unique country identifier

Table: customer

Column	Data Type	Description
customer_id (PK)	integer	Unique customer identifier
store_id	smallint	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 customer
address_id (FK)	smallint	Unique address identifier
activebool	boolean	Whether customer is active
create_date	date	Date of customer profile creation
last_update	Timestamp w/o Time Zone	Time of last update
activebool	integer	Active status represented by 0 or 1

Links to

Table	Join	Description
address	customer.address_id = address.address_id	Foreign Key reference to address table

Links from

Table	Join	Description
payment	customer.customer_id=payment.customer_id	Foreign Key reference to payment table
rental	customer.customer_id=rental.customer_id	Foreign Key reference to rental table

Unique Keys:

Column	Key Type	Description
customer_id	Primary	Unique customer identifier
store_id	Foreign	Unique store identifier
address_id	Foreign	Unique address identifier

Table: film

Column	Data Type	Description
flim_id (PK)	integer	Unique flim identifier
title	character varying(225)	Title of film
description	text	Description of film
release_year	integer	Year of film release
language_id (FK)	smallint	Unique language identifier
rental_duration	smallint	Duration of rental
rental_rate	numeric	Rate of rental
length	smallint	Length of film
replacement_cost	numeric	Replacement cost of film
rating	USER-DEFINED	Rating of film
last_update	Timestamp w/o Time Zone	Time of last update
special_features	ARRAY	Special features of film
fultext	tsvector	Film index; contains count of key words in description

Links to

Table	Join	Description
language	film.language_id=language.language_id	Foreign Key reference to language table

Links from

Table	Join	Description
film_actor	film.film_id=film_actor.film _id	Foreign Key reference to film_actor table
inventory	film.film_id = inventory.film_id	Foreign Key reference to inventory table
film_category	film.film_id = film_category.film_id	Foreign Key reference to film_category table

Unique Keys:

Column	Key Type	Description
film_id	Primary	Unique film identifier
language_id	Foreign	Primary key for language table

Table: film_actor

Column	Data Type	Description
actor_id (PK)	smallint	Unique actor identifier
flim_id (FK)	smallint	Unique flim identifier
last_update	Timestamp w/o Time Zone	Time of last update

Links to

Table	Join	Description
actor_id	film_actor.actor_id=actor.actor_id	Foreign Key reference to actor table
film_id	film_actor.film_id=film.film_id	Foreign Key reference to film table

Links from

The film_actor table does not link from any other tables.

Unique Keys:

Column	Key Type	Description
Film_id	foreign	Unique film identifier
actor	Foreign	Unique actor identifier

Table: film_category

Column	Data Type	Description
flim_id	smallint	Unique flim identifier
category_id	smallint	unique category identifier
last_update	Timestamp w/o Time Zone	Time of last update

Links to

Table	Join	Description
film_id	film_category.film_id=film.film _id	Foreign Key reference to film table
category_ id	film_category.category_id=category.category_id	Foreign Key reference to category table

Links from

The Film_Category Table does not link from any other table.

Unique Keys:

Column	Key Type	Description
film_id	Primary	Unique Identifier for every film
category_i d	Foreign Key	Primary Key for Category Table

Table: Inventory

Column	Data Type	Description
inventory_id (PK)	integer	Unique Inventory identifier
flim_id (FK)	smallint	Unique flim identifier
store_id	smallint	Unique identifier of store

Links to

Table	Join	Description
film	inventory.film_id_id=film.film _id	Foreign Key reference to film table

Links from

Table	Join	Description
rental	inventory.inventory_id_id=rental.inventory _id	Foreign Key reference to rental table

Unique Keys:

Column	key Type	Description
inventory_id	Primary	Unique Inventory identifier
flim_id	Foreign	Primary key for film table

Table: language

Column	Data Type	Description
language_id (PK)	integer	Unique language identifier
name	character(20)	Name of language
last_update	Timestamp w/o Time Zone	Time of last update

Links to

The language table does not link from any other tables.

Links from

Table	Join	Description
film	language.language_id = film.language_id	Foreign Key reference to film table

Unique Keys:

Column	Key Type	Description
language_id	Primary	Unique language identifier

Table: staff

Column	Data Type	Description
staff_id (PK_	integer	Unique identifier staff
first_name	character varying(45)	First name of staff
last_name	character varying(45)	Last name of staff
address_id (FK)	smallint	Unique address identifier
email	character varying(50)	Email address of staff member
store_id	smallint	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 last update
picture	bytea	Picture of a staff

Links to

Table	Join	Description
address	staff.address_id=address.address _id	Foreign Key reference to address table

Links from

Table	Join	Description
rental	staff.staff_id=rental.staff _id	Foreign Key reference to address table
payment	staff.staff_id=payment.staff _id	Foreign Key reference to staff table
store	staff.staff_id=store.staff _id	Foreign Key reference to store table

Unique Keys:

Column	Key Type	Description
staff_id	Primary	Unique staff identifier
address_id	Foreign	Primary key for address table
store_id	Foreign	Primary key for store table

Table: store

Column	Data Type	Description
store_id (PK_	integer	Unique identifier of store
manager_staff_id (FK)	smallint	Unique identifier manager staff
address_id	smallint	Unique address identifier
last_update	Timestamp w/o Time Zone	Time of last update

Links to

Table	Join	Description
address	store.address_id=store.address _id	Foreign Key reference to address table
staff_id	store.staff_id=staff.staff_id	Foreign Key reference to staff table

Links from

The store table does not link from any other tables.

Unique Keys:

Column	Key Type	Description
Store_id	Primary	Unique store identifier
address_id	Foreign	Unique address identifier
staff_id	Foreign	Unique staff identifier