ROCKBUSTER STEALTH LLC

Data Dictionary
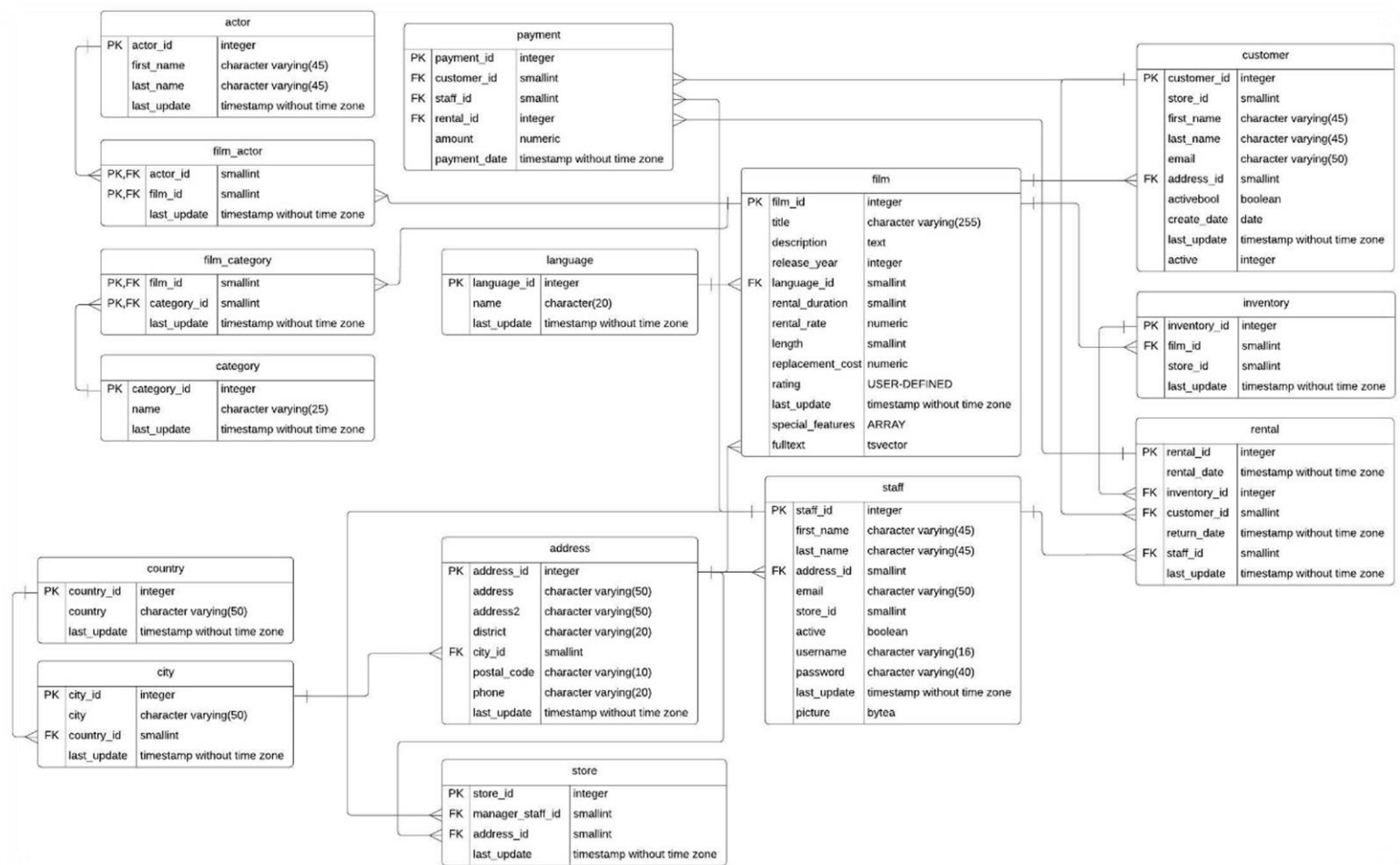
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1. Entity Relationship Diagram

2. Tables

2.1 RENTAL: Fact Table

Columns	Key	Data Type	Description
rental_id	primary key	Integer	Unique numerical rental identifier
rental_date		Timestamp without time zone	Date when the rental was purchased by customer

inventory_id	foreign key	Integer	Unique numerical inventory identifier
customer_id	foreign key	Smallint	Unique numerical customer identifier
return_date		Timestamp without time zone	Date when the rental was returned by customer
staff_id	foreign key	Smallint	Unique numerical staff identifier
last_update		Timestamp without time zone	Date when the table was last changed in any way

Links to:

Table	Join	Description
staff	Rental.staff_id = staff.staff_id	Foreign key constraint referencing staff.staff_id
customer	Rental.customer_id = customer.customer_id	Foreign key constraint referencing customer.customer_id
inventory	Rental.inventory_id = inventory.inventory_id	Foreign key constraint referencing inventory.inventory_id

Links from:

Table	Join	Description
payment	Payment.rental_id = rental.rental_id	Foreign key constraint referencing rental.rental_id

Unique Keys (Columns) : rental_id

2.2 PAYMENT: Fact Table

Columns	Key	Data Type	Description
payment_id	Primary key	Integer	Unique numerical payment identifier

customer_id	Foreign key	Smallint	Unique numerical customer identifier
staff_id	Foreign key	Smallint	Unique numerical staff identifier
rental_id	Foreign key	Integer	Unique numerical rental identifier
amount		Numeric	Amount charged to customer for rental
payment_date		Timestamp without time zone	Date customer paid for the rental

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 constraint referencing rental.rental_id

Links from: NONE

Unique Keys (Columns) : payment_id

2.3 FILM: Dimension Table

Columns	Key	Data Type	Description
film_id	Primary key	Integer	Unique numerical film identifier
title		Character varying (255)	Name of film
description		Text	Explanation of the film and its content
release_year		Integer	Year when film debuted

language_id	Foreign key	Smallint	Unique numerical language identifier
rental_duration		Smallint	Amount of time the film was rented for
rental_rate		Numeric	Price the film is rented for
length		Smallint	Duration of film (in minutes)
replacement_cost		Numeric	Cost to replace film if lost or stolen
rating		USER-DEFINED	Motion Picture Association rating
last_update		Timestamp without time zone	Date when the table was last changed in any way
special_features		ARRAY	Additional visual elements such as trailers, bloopers and deleted scenes
fulltext		Tsvector	---

Links to:

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

Links from:

Table	Join	Description
Film_cartegory	Film_category.film_id = film.film_id	Foreign key constraint referencing film.film_id
Film_actor	Film_actor.film_id = film.film_id	Foreign key constraint referencing film.film_id
inventory	inventory.film_id = film.film_id	Foreign key constraint referencing film.film_id

Unique Keys (Columns) : film_id / title / description

2.4 STAFF: Dimension Table

Columns	Key	Data Type	Description
staff_id	Primary key	Integer	Unique numerical staff identifier
first_name		Character varying (45)	First name
last_name		Character varying (45)	Last name
address_id	Foreign key	Smallint	Unique numerical address identifier
email		Character varying (50)	Email address
store_id		Smallint	Unique numerical store identifier
active		Boolean	Whether staff member is or isn't active
username		Character varying (16)	Account name
password		Character varying (40)	Account password
last_update		Timestamp without time zone	Date when the table was last changed in any way
picture		Bytea	Picture of staff member

Links to:

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

Links from:

Table	Join	Description
store	store.manager_staff_id = staff.staff_id	Foreign key constraint referencing staff.staff_id
rental	rental.staff_id = staff.staff_id	Foreign key constraint referencing staff.staff_id
payment	payment.staff_id = staff.staff_id	Foreign key constraint referencing staff.staff_id

2.5 CUSTOMER: Dimension Table

Columns	Key	Data Type	Description
customer_id	Primary key	Integer	Unique numerical customer identifier
store_id		Smallint	Unique numerical store identifier
first_name		Character varying (45)	Customer first name
last_name		Character varying (45)	Customer last name
email		Character varying (50)	Email address
address_id	Foreign key	Smallint	Unique numerical address identifier
activebool		Boolean	Whether customer is active
create_date		Date	Date customer profile was created
last_update		Timestamp without time zone	Date when the table was last changed in any way
active		integer	Active status, 1 means active, 0 means inactive

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	payment.customer_id = customer.customer_id	Foreign key constraint referencing customer.customer_id

rental	rental.customer_id = customer.customer_id	Foreign key constraint referencing customer.customer_id

Unique Keys (Columns) : customer_id

2.6 ADDRESS: Dimension Table

Columns	Key	Data Type	Description
address_id	Primary key	Integer	Unique numerical address identifier
address		Character varying (50)	Name of address
address2		Character varying (50)	Name of second address
district		Character varying (20)	Name of district
city_id	Foreign key	Smallint	Unique numerical city identifier
postal_code		Character varying (10)	Unique code representing region where the address is located
phone		Character varying (20)	Phone number of customer
last_update		Timestamp without time zone	Date when the table was last changed in any way

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	store.address_id = address.address_id	Foreign key constraint referencing address.address_id
staff	staff.address_id = address.address_id	Foreign key constraint referencing address.address_id
customer	customer.address_id = address.address_id	Foreign key constraint referencing address.address_id

Unique Keys (Columns) : address_id / address

2.7 INVENTORY: Dimension Table

Columns	Key	Data Type	Description
inventory_id	Primary key	Integer	Unique numerical inventory identifier
film_id	Foreign key	Smallint	Unique numerical film identifier
store_id		Smallint	Unique numerical store identifier
last_update		Timestamp without time zone	Date when the table was last changed in any way

Links to:

Table	Join	Description
film	inventory.film_id = film.film_id	Foreign key constraint referencing film.film_id

Links from:

Table	Join	Description
rental	rental.inventory_id = inventory.inventory_id	Foreign key constraint referencing inventory.inventory_id

2.8 ACTOR: Dimension Table

Columns	Key	Data Type	Description
actor_id		Integer	Unique numerical actor identifier
first_name		Character varying (45)	Actor's first name
last_name		Character varying (45)	Actor's last name
last_update		Timestamp without time zone	Date when the table was last changed in any way

Links to: NONE

Links from:

Table	Join	Description
film_actor	film_actor.actor_id = actor.actor_id	Foreign key constraint referencing actor.actor_id

Unique Keys (Columns) : actor_id

2.9 CITY: Dimension Table

Columns	Key	Data Type	Description
city_id	Primary key	Integer	Unique numerical city identifier
city		Character varying (50)	Name of city
country_id	Foreign key	Smallint	Unique numerical country identifier
last_update		Timestamp without time zone	Date when the table was last changed in any way

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

Links from:

Table	Join	Description
address	address.city_id = city.city_id	Foreign key constraint referencing city.city_id

Unique Keys (Columns) : city_id / city

2.10 STORE: Dimension Table

Columns	Key	Data Type	Description
store_id	Primary key	Integer	Unique numerical store identifier
manager_staff_id	Foreign key	Smallint	Unique numerical manager identifier
address_id	Foreign key	Smallint	Unique numerical address identifier
last_update		Timestamp without time zone	Date when the table was last changed in any way

Links to:

Table	Join	Description
staff	store.manager_staff_id = staff.staff_id	Foreign key constraint referencing staff.staff_id
address	store.address_id = address.address_id	Foreign key constraint referencing address.address_id

2.11 CATEGORY: Dimension Table

Columns	Key	Data Type	Description
category_id	Primary key	Integer	Unique numerical category identifier
name		Character varying (25)	Name of category
last_update		Timestamp without time zone	Date when the table was last changed in any way

Table	Join	Description
film_category	film_category.category_id = category.category_id	Foreign key constraint referencing category.category_id

2.12 COUNTRY: Dimension Table

Columns	Key	Data Type	Description
country_id	Primary key	Integer	Unique numerical country identifier
country		Character varying (50)	Name of country
last_update		Timestamp without time zone	Date when the table was last changed in any way

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

Unique Keys (Columns) : country_id / country

2.13 FILM_ACTOR: Dimension Table

Columns	Key	Data Type	Description
actor_id	Primary key	Smallint	Unique numerical actor identifier
film_id	Foreign key	smallint	Unique numerical film identifier
last_update		Timestamp without time zone	Date when the table was last changed in any way

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 film.film_id

Links from: NONE

Unique Keys (Columns) : actor_id

2.14 FILM_CATEGORY: Dimension Table

Columns	Key	Data Type	Description
film_id	Primary key	Smallint	Unique numerical film identifier

category_id	Foreign key	Smallint	Unique numerical category identifier
last_update		Timestamp without time zone	Date when the table was last changed in any way

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 film.film_id

Unique Keys (Columns) : film_id

2.15 LANGUAGE: Dimension Table

Columns	Key	Data Type	Description
language_id	Primary key	Integer	Unique numerical language identifier
name		Character (20)	Name of language
last_update		Timestamp without time zone	Date when the table was last changed in any way

Table	Join	Description
film	film.language_id = language.language_id	Foreign key constraint referencing language.language_id

Unique Keys (Columns) : language_id