Rockbuster

Data Dictionary
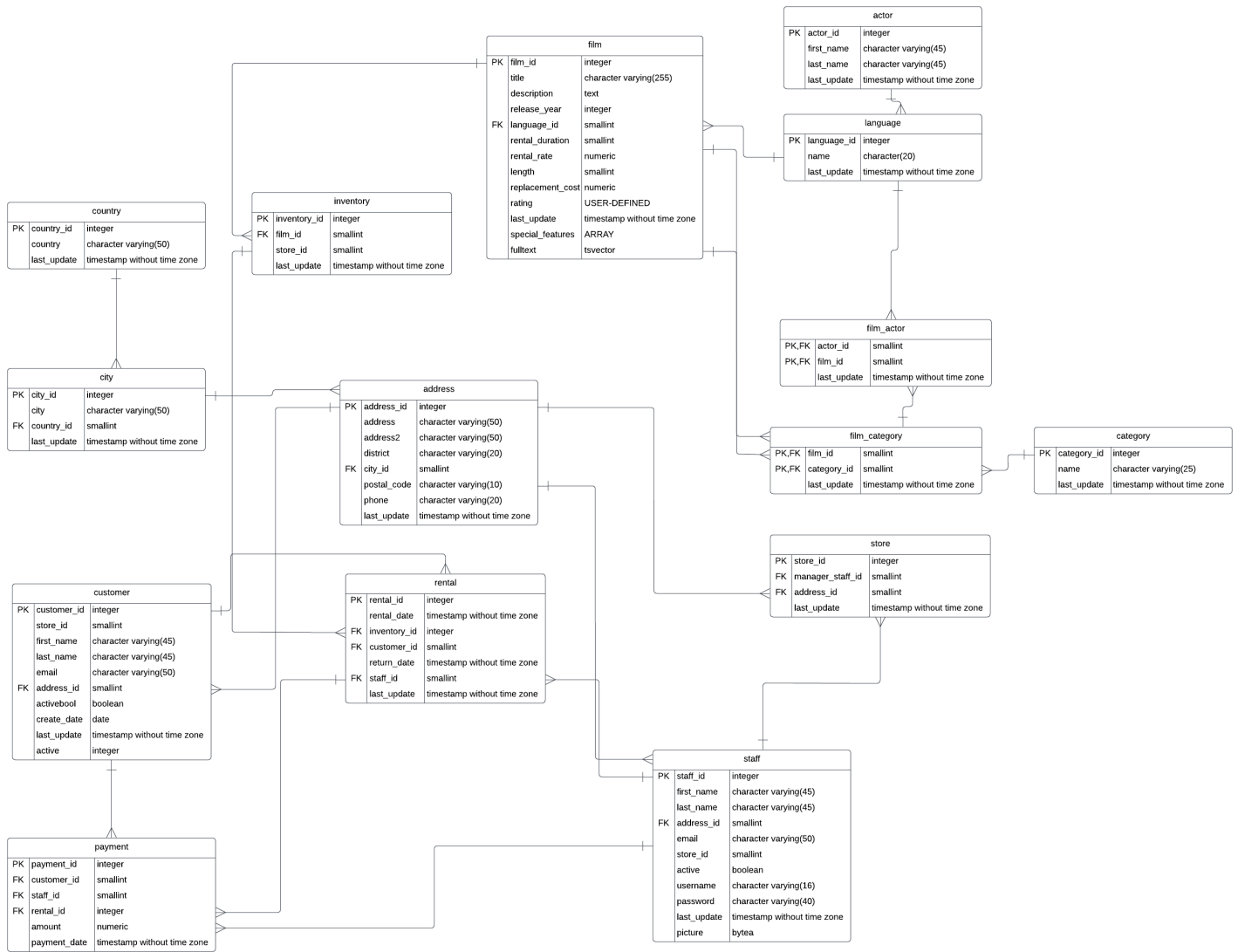
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1. Entity Relationship Diagram

Rockbuster Entity Relationship Diagram

Where:

PK: Primary Key
FK: Foreign Key

2. Dimension tables

Dimesion tables			

Table_Actor	Columns	Data_type	Description
Linked to: language	actor_id (PK)	integer	primary key in the actor table
	first_name	character varying(45)	refers to actor's first name
	last_name	character varying(45)	refers to the actor's last name
	last_update	timestamp without time zone	last time the info was updated

Address	Columns	Data_type	Description
Linked to: city, customer staff, store	address_id (PK)	integer	primary key in the address table
	address	character varying (50)	address information
	address2	character varying (50)	extra details about address
	district	character varying (50)	address location (city, state)
	city_id (FK)	smallint	secondary key aout city
	postal_code	character varying (10)	postal code number
	phone	character varying (20)	phone number of the customer
	last_update	timestamp without time zone	last time the information was updated

Category	Columns	Data_type	Description
Linked to: Film_category	category_id (PK)	integer	primary key about category
	name	character varying (50)	genre name (category)
	last_update	timestamp without time zone	last time the information was updated

City	Columns	Data_type	Description
Linked to: Country, address	city_id (PK)	integer	primary key city table
	city	character varying (50)	name of the city
	country_id (FK)	smallint	secondary key country table
	last_update	timestamp without time zone	last time the information was updated

Country	Columns	Data_type	Description
Linked to: city	country_id (PK)	integer	primary key country table
	country	character varying (50)	name of the country
	last_update	timestamp without time zone	last time the information was updated

Customer	Columns	Data_type	Description
Linked to: address, inventory, payment	customer_id (PK)	integer	primary key customer table
	store_id (FK)	smallint	secondary key from store details
	first_name	character varying (45)	details of the customer's name
	last_name	character varying (45)	details of the customer's last name
	email	character varying (50)	customer's email
	address_id (FK)	smallint	secondary key address table
	activebool	boolean	boolean for active or inactive customer (true/false)
	create_date	date	date when the customer account was created
	last_update	timestamp without time zone	last time the information was updated
	active	integer	active/inactive customer 1,0

Film	Columns	Data_type	Description
Linked to: inventory, language, film_category	film_id (PK)	integer	primary key customer table
	title	character varying (255)	Film's name
	description	text	film's general description
	release_year	integer	year when the film was released
	language_id (FK)	smallint	secondary key for language
	rental_duration	smallint	rental duration for that film
	rental_rate	numeric	cost of film's rent
	length	smallint	movie length in minutes
	replacement_cost	numeric	cost of the film in case it has to be replaced
	rating	USER-DEFINED	film rate by the customer
	last_update	timestamp without time zone	last time the information was updated
	special_features	ARRAY	additional features
	fulltext	tsvector	additional details

Film_actor	Columns	Data_type	Description
Linked to: Film_category language	actor_id (PK)	smallint	secondary key actor
	film_id (FK)	smallint	secondary key film
	last_update	timestamp without time zone	last time info was updated

Film_category	Columns	Data_type	Description
Linked to: category, film	film_id (FK)	smallint	secondary key actor
	category_id (PK)	smallint	primary key category
	last_update	timestamp without time zone	last time info was updated

Inventory	Columns	Data_type	Description
Film, rental	inventory_id (PK)	integer	primary key inventory
	film_id (FK)	smallint	secondary key from film table
	store_id (FK)	smallint	secondary key from store table
	last_update	timestamp without time zone	last time the information was updated.

Language	Columns	Data_type	Description
Linked to: actor, film	language_id (PK)	integer	primary key language
	name	character (20)	language name
	last_update	timestamp without time zone	last time information was updated

Payment	Columns	Data_type	Description
Linked to: customer, rental, staff	payment_id (PK)	inter	primary key payment
	customer_id (FK)	smallint	secondary key from customer table
	staff_id (FK)	smallint	secondary key from staff table
	rental_id (FK)	integer	secondary key from rental table
	amount	numeric	payment registered
	payment_date	timestamp without time zone	last time information was updated

Staff	Columns	Data_type	Description
Linked to: payment, rental, address, store	staff_id (PK)	inter	primary key staff table
	first_name	character varying (45)	staff person first name
	address_id (FK)	smallint	secondary key address table
	email	character varying (50)	staff person email
	store_id (FK)	smallint	secondary key store
	active	boolean	true/false staff is active
	username	character varying (16)	staff's username
	password	character varying (40)	staff's account password
	last_update	timestampt without time zone	last time information was updated
	picture	bytea	picture of the person (staff)

Store	Columns	Data_type	Description
Linked to: staff, address	store_id (PK)	integer	primary key store table
	manager_staff_id (FK)	smallint	secondary key from staff table
	address_id (FK)	smallint	secondary key from address table
	last_update	timestamp without time zone	last time information was updated

Fact tables

Rental	Columns	Data_type	Description
Linked to: customer, inventory, staff, payment	rental_id (PK)	integer	key primary rental table
	rental_date	timestamp without time zone	the date when the film was rented
	inventory_id (FK)	integer	secondary key inventory id (item rented)
	customer_id (FK)	smallint	secondary key from customer table
	return_date	timestamp without time zone	date when the film was returned
	staff_id (FK)	smallint	secondary key from staff table
	last_update	timestamp without time zone	las time information was updated