ROCKBUSTER STEALTH

DATA DICTIONARY
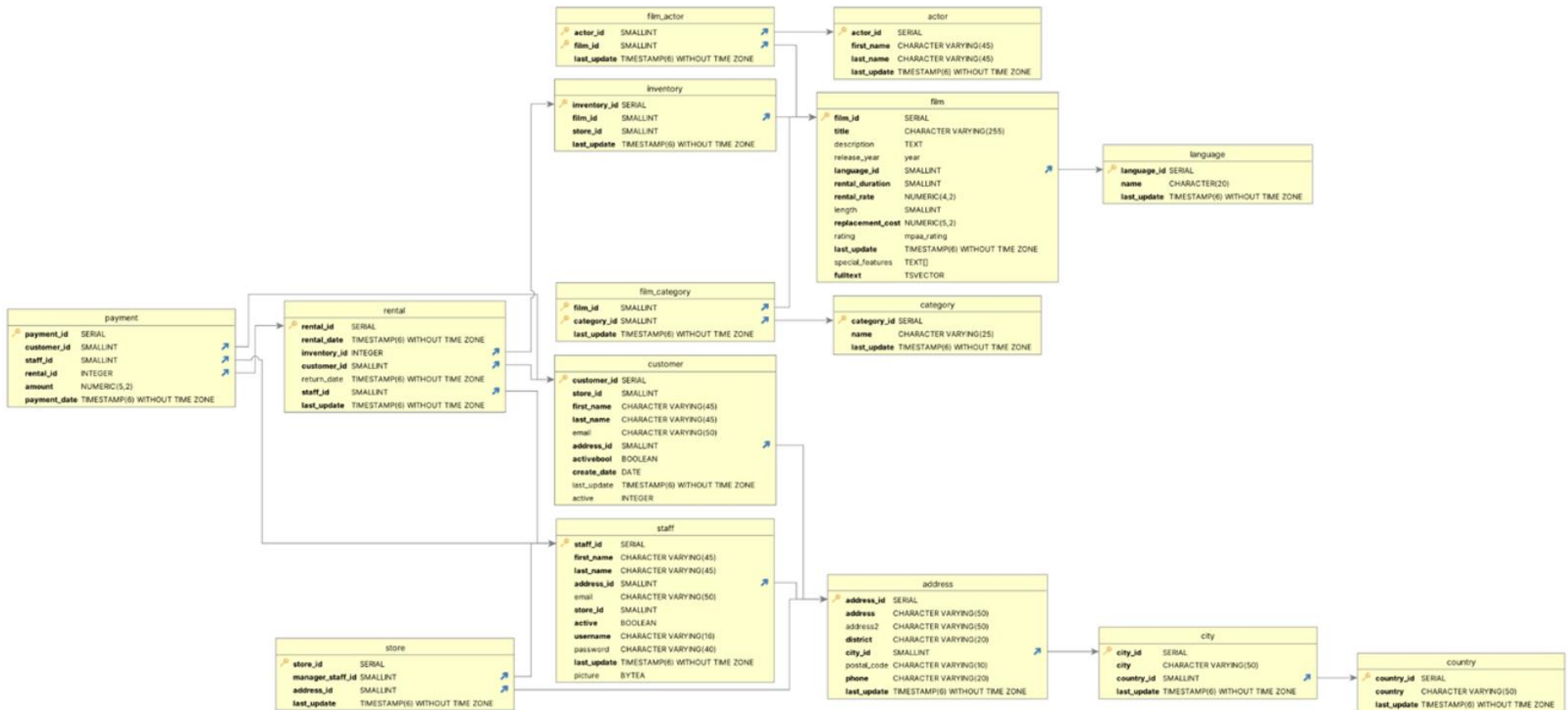
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CONTENTS

1. Introduction

This document is a Data Dictionary for the PostgreSQL database of Rockbuster Stealth's film business that contains information about their film inventory, customers, and payments, languages, genre (category), store count and more. It can be extracted from the following link:

Download the Rockbuster data set

There are two (2) fact tables and thirteen (13) dimension tables which totals to fifteen (15) total tables to this data source. Please see below for how it's represented in the ERD (Entity Relationship Diagram) and which columns are primary key or foreign key to represent corresponding relationships.

2. ERD (Entity Relationship Diagram)

3. Fact Tables

3.1 Payment

Key Type	Column	Data Type	Description	Links
Primary	payment_id	SERIAL	Unique identifier for a valid payment	
Foreign	customer_id	SMALLINT	Unique identifier for a valid customer	Customer
Foreign	staff_id	SMALLINT	Unique identifier for a valid staff	Staff
Foreign	rental_id	INTEGER	Unique identifier for a valid rental film	Rental
	amount	NUMERIC (5,2)	Total price recorded per transaction with 2 decimal spots	
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of when amount was made (format: yyyy-mm-dd + time (hours:minutes:sec))	

3.2 Rental

Key Type	Column	Data Type	Description	Links
Primary	rental_id	SERIAL	Unique identifier for a valid rental film, primary key	Payment
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of when rental occurred (format: yyyy-mm-dd + time (hours:minutes:sec))	
Foreign	inventory_id	INTEGER	Unique identifier for a valid inventory	Inventory
Foreign	customer_id	SMALLINT	Unique identifier for a valid customer	Customer
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of item returned (format: yyyy-mm-dd + time (hours:minutes:sec))	
Foreign	staff_id	SMALLINT	Unique identifier for a valid staff	Staff
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of when last update was made	

4. Dimension Tables

4.1 Inventory

Key Type	Column	Data Type	Description	Links
Primary	inventory_id	SERIAL	Unique identifier of an inventory	Rental
Foreign	film_id	SMALLINT	Unique identifier of a film	Film
	store_id	SMALLINT	Unique identifier of a store	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of record of when the item was last updated (format: yyyy-mm-dd + time (hours:minutes:sec))	

4.2 Film

Key Type	Column	Data Type	Description	Links
Primary	film_id	SERIAL	Unique identifier of a film	Film_actor, Inventory
	title	CHARACTER VARYING(255)	Title of movie	
	description	TEXT	Description of movie	
	release_year	year	Year of when the movie was released	
Foreign	language_id	SMALLINT	Unique identifier of the language	Language
	rental_duration	SMALLINT	# Days the item was rented for	
	rental_rate	NUMERIC(4,2)	Rating with maximum 4 digits, with 2 decimal spots	
	length	SMALLINT	Length of film in minutes	
	replacement_cost	NUMERIC(5,2)	Costs to replace the film	
	rating	mpaa_rating	Which age group can watch the film	
	last_update	TIMESTAMP(6_ WITHOUT TIME ZONE	Date and time of record last updated	
	special_features	TEXT[]	Extra videos that the audience can watch as supplementary to the film	
	fulltext	TSVECTOR	Text of them film	

4.3 Language

Key Type	Column	Data Type	Description	Links
Primary	language_id	SERIAL	Unique identifier of the language	Film
	name	CHARACTER(20)	Name of the language	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated	

4.4 Film Actor

Key Type	Column	Data Type	Description	Links
Primary, Foreign	actor_id	SMALLINT	Unique identifier of actor	Actor
Primary, Foreign	film_id	SMALLINT	Unique identifier of the film	Film
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated	

4.5 Actor

Key Type	Column	Data Type	Description	Links
Primary	actor_id	SERIAL	Unique identifier of actor	Film_actor
	first_name	CHARACTER VARYING(45)	First name of actor	
	last_name	CHARACTER VARYING(45)	Last name of actor	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated	

4.6 Film_category

Key Type	Column	Data Type	Description	Links
Primary, Foreign	film_id	SMALLINT	Unique identifier of film	Film
Primary, Foreign	category_id	SMALLINT	Unique identifier of category	Category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated	

4.7 Category

Key Type	Column	Data Type	Description	Links
Primary	category_id	SERIAL	Unique identifier of category	
	name	CHARACTER VARYING(25)	Name of category	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated	

4.8 Customer

Key Type	Column	Data Type	Description	Links
Primary	customer_id	SERIAL	Unique identifier of customer	City
	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 of customer	
Foreign	address_id	SMALLINT	Address of customer	Address
	activebool	BOOLEAN	Is the customer active or not (true, false, or null)	
	create_date	DATE	Date of being creasted	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated	
	active	INTEGER	Active or not	

4.9 Staff

Key Type	Column	Data Type	Description	Links
Primary	staff_id	SERIAL	Unique identifier of staff	Payment
	first_name	CHARACTER VARYING(45)	First name of staff	
	last_name	CHARACTER VARYING(45)	Last name of staff	
Foreign	address_id	SMALLINT	Address of staff	Address
	email	CHARACTER VARYING(50)	Email of staff	
	store_id	SMALLINT	Unique identifier of store	
	active	BOOLEAN	Is the customer active or not (true, false, or null)	
	username	CHARACTER VARYING(16)	Username of staff	
	password	CHARACTER VARYING(40)	Password of staff	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated	
	picture	BYTEA	Picture of employee	

4.10 Store

Key Type	Column	Data Type	Description	Links
Primary	store_id	SERIAL	Unique identifier of store	
Foreign	manager_staff_id	SMALLINT	Unique identifier of store manager	Staff
Foreign	address_id	SMALLINT	Address of store	Address
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated	

4.11 Address

Key Type	Column	Data Type	Description	Links
Primary	address_id	SERIAL	Unique identifier of address	Store, Staff
	address	CHARACTER VARYING(50)	Address information (ex: street name)	
	address2	CHARACTER VARYING(50)	Addition line item of address info if entered (ex: apt#)	
	district	CHARACTER VARYING(20)	Name of district	
Foreign	city_id	SMALLINT	Unique identifier of city	City
	postal_code	CHARACTER VARYING(10)	Zip code details	
	phone	CHARACTER VARYING(20)	Phone number details	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated	

4.12 City

Key Type	Column	Data Type	Description	Links
Primary	city_id	SERIAL	Unique identifier of city	Film_category
	city	CHARACTER VARYING(50)	Name of city	
Foreign	country_id	SMALLINT	Unique identifier of country	Country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated	

4.13 Country

Key Type	Column	Data Type	Description	Links
Primary	country_id	SERIAL	Unique identifier of a country	
	country	CHARACTER VARYING(50)	Name of country	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated	