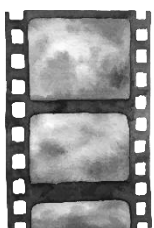# Rockbuster Stealth

Data Dictionary

BOUASKER Oussama

TABLE OF CONTENTS

I/
Rockbuster Stealth

Introduction

This is a data dictionary that describes the PostgreSQL database of Rockbuster Stealth, a film rental company. It presents the structure and main tables used for the analysis.

Dataset
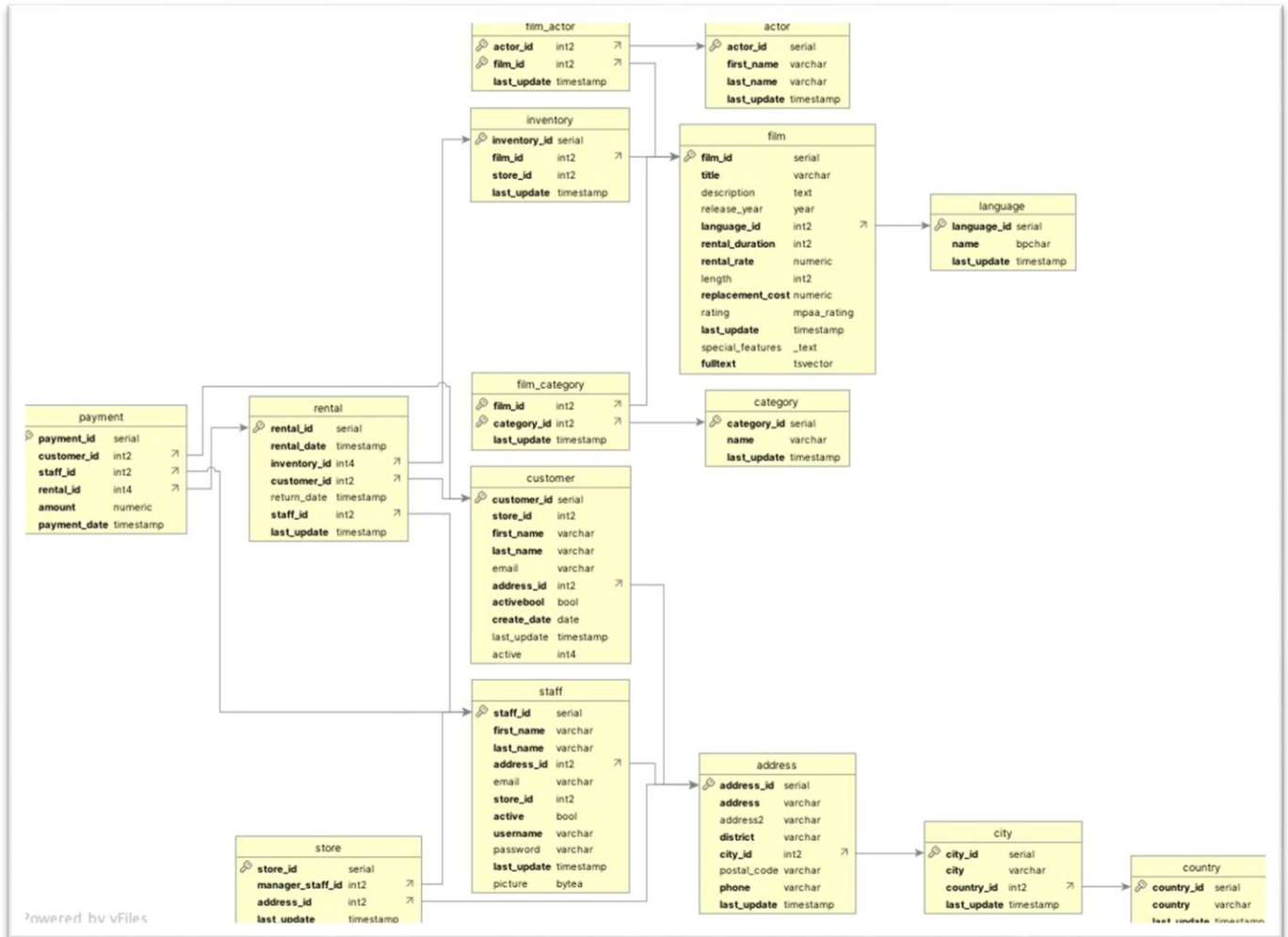
The dataset includes information's customers and their payments it also includes film ,inventory, rentals and stores

II/
Legend

Symbol	Signification
🔑	Primary Key
🔑	Foreign Key

Entity Relationship Diagram

Title: Rockbuster _Stealth ´s Entity Relationship Diagram_ **(ERD)**

IV/ Fact Tables

Payment			
Column Name	**Data Type**	**Description**	**Relationship**
payment_id	serial	Unique identifier for payment transaction	🔑
customer_id	smallint	Unique identifier for customer who made payment	🔑 links to rental and customer tables via customer_id
staff_id	smallint	Unique identifier for staff who processed transaction	🔑 links to rental and staff tables via staff_id
rental_id	integer	Rental record associated with payment	🔑 links to rental table via rental_id
amount	numeric(5,2)	Total amount customer paid for transaction	
payment_date	timestamp without time zone	Date and time when payment was recorded	

IV/ Fact Tables

Rental			
Column Name	**Data Type**	**Description**	**Relationship**
rental_id	serial	Rental record associated with payment	🔑
rental_date	timestamp without time zone	Date and time of rental	🔑
inventory_id	integer	Unique identifier for inventory	🔑
customer_id	smallint	Unique identifier for customer who made payment	🔑
return_date	timestamp without time zone	Date and time of rental return	
staff_id	smallint	Unique identifier for staff who processed transaction	🔑
last_update	timestamp without time zone	Date and time of last update	

V/ Dimension Tables

Actor			
Column Name	**Data Type**	**Description**	**Relationship**
actor_id	serial	Unique identifier for actor	🔑
first_name	varchar(45)	First name of actor	
last_name	varchar(45)	Last name of actor	
last_update	timestamp without time zone	Date and time of last update	

Address			
Column Name	**Data Type**	**Description**	**Relationship**
address_id	serial	Unique identifier for address	🔑
address	varchar(50)	Street address	
address2	varchar(50)	Additional address (may be null)	
district	varchar(20)	Districtm region, state, or prefecture of address	
city_id	smallint	Unique identifier for city	🔑
postal_code	varchar(10)	Zip or postal code of address	
phone	varchar(20)	Phone number	
last_update	timestamp without time zone	Date and time of last update	

V/ Dimension Tables

Category			
Column Name	**Data Type**	**Description**	**Relationship**
category_id	serial	Unique identifier for category	🔑
name	varchar(25)	Genre of film	
last_update	timestamp without time zone	Date and time of last update	

City			
Column Name	**Data Type**	**Description**	**Relationship**
city_id	serial	Unique identifier for city	🔑
city	varchar(50)	City name	
country_id	smallint	Unique identifier for country	🔑
last_update	timestamp without time zone	Date and time of last update	

Country			
Column Name	**Data Type**	**Description**	**Relationship**
country_id	serial	Unique identifier for country	🔑
country	varchar(50)	Country name	
last_update	timestamp without time zone	Date and time of last update	

V/ Dimension Tables

Customer			
Column Name	**Data Type**	**Description**	**Relationship**
customer_id	serial	Unique identifier for customer	🔑
store_id	smallint	Unique identifier for store	
first_name	varchar(45)	Customer first name	
last_name	varchar(45)	Customer last name	
email	varchar(50)	Customer email	
address_id	smallint	Unique identifier for customer address	🔑
activebool	boolean	Customer active status (true/false)	
create_date	date	Customer acquisition date	
last_update	timestamp without time zone	Date and time of last update	
active	integer	Customer active status (binary)	

V/ Dimension Tables

Film			
Column Name	**Data Type**	**Description**	**Relationship**
film_id	serial	Unique identifier for film	🔑
title	varchar(255)	Film title	
description	text	Film description	
release_year	integer	Year of film release	
language_id	smallint	Unique identifier for language of film	🔑
rental_duration	smallint	Number of days film was rented	
rental_rate	numeric(4,2)	Price of rental rate	
length	smallint	Length of film	
replacement_cost	numeric(5,2)	Price of rental (replacement cost)	
rating	Mpaa rating	Film rating	
last_update	timestamp without time zone	Date and time of last update	
special_features	text[ ]	Extra features (commentary, deleted scenes, BTS, trailers)	
fulltext	tsvector	Improves searches (keywords in film description)	

V/ Dimension Tables

Film Actor

Column Name	Data Type	Description	Relationship
actor_id	smallint	Unique identifier for actor	🔑 🔑
film_id	smallint	Unique identifier for film	🔑 🔑
last_update	timestamp without time zone	Date and time of last update	

Film Category

Column Name	Data Type	Description	Relationship
film_id	smallint	Unique identifier for film	🔑 🔑
category_id	smallint	Unique identifier for film category	🔑 🔑
last_update	timestamp without time zone	Date and time of last update	

Inventory

Column Name	Data Type	Description	Relationship
inventory_id	serial	Unique identifier for inventory item	🔑 🔑
film_id	smallint	Unique identifier for film	
store_id	smallint	Unique identifier for store	
last_update	timestamp without time zone	Date and time of last update	

V/ Dimension Tables

Language			
Column Name	**Data Type**	**Description**	**Relationship**
language_id	serial	Unique identifier for film language	🔑 🔑
name	char(20)	Language name	
last_update	timestamp without time zone	Date and time of last update	

Store			
Column Name	**Data Type**	**Description**	**Relationship**
store_id	serial	Unique identifier for store	🔑 🔑
manager_staff_id	smallint	Store manager ID	🔑
address_id	smallint	Store address ID	🔑
last_update	timestamp without time zone	Date and time of last update	

V/ Dimension Tables

Staff			
Column Name	**Data Type**	**Description**	**Relationship**
staff_id	serial	Unique identifier for staff member	🔑 🔑
first_name	varcahr(45)	Staff member first name	
last_name	varchar(45)	Staff member last name	
address_id	smallint	Unique identifier for address of staff member	🔑
email	varchar(50)	Staff member email	
store_id	smallint	Unique identifier for store	
active	boolean	Staff member active status (true/false)	
username	varchar(16)	Staff member use name	
password	varchar(40)	Staff member password	
last_update	timestamp without time zone	Date and time of last update	
picture	bytea	Staff member image	