




# ROCKBUSTER DATA DICTIONARY



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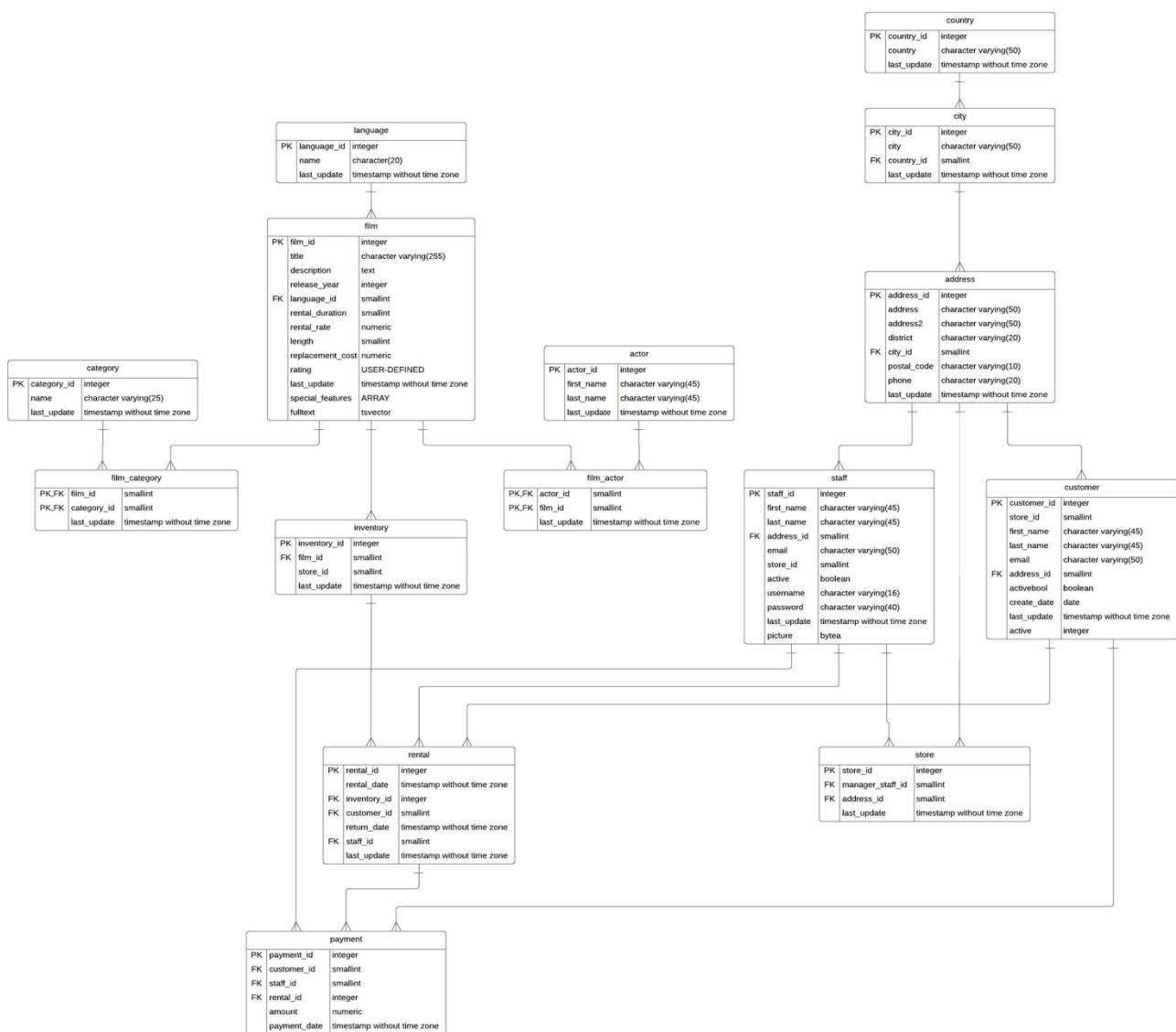
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## OVERVIEW

Rockbuster Stealth is a movie rental company looking to transition into the online movie rental and streaming market. The company used to have in-store movie rental locations globally. The following data dictionary outlines their current database, ranging from customer information to specific film location, as well as payment records and rental rates.

## ENTITY RELATIONSHIP DIAGRAM



## FACT TABLES

### PAYMENT

This table is used to reference payments made by customers within the Rockbuster Database.

Key?	Columns	Data Type	Description
PK	payment_id	integer	Unique payment identification #
UK	customer_id	smallint	Unique customer identification #
UK	staff_id	smallint	Unique staff identification #
UK	rental_id	Integer	Unique rental identification #
	amount	Numeric	Payment amount
	payment_date	Timestamp without time zone	

Table Joins:

Key	Links to Tables
payment_id	payment
customer_id	payment, rental, customer,
staff_id	payment, rental, staff, store
rental_id	payment, rental

## RENTAL

This table is used to reference a specific rental record.

Key?	Columns	Data Type	Description
PK	rental_id	integer	Unique rental identification #
	rental_date	Timestamp without time zone	Rental start date
UK	inventory_id	integer	Unique inventory identification #
UK	customer_id	smallint	Unique customer identification #
	return_date	Timestamp without time zone	Rental return date
UK	staff_id	smallint	Unique staff identification #
	last_update	Timestamp without time zone	Rental record last updated

Table Joins:

Key	Links to Tables
rental_id	rental, payment
inventory_id	rental, inventory
customer_id	rental, payment, customer
staff_id	rental, payment, staff, store

## DIMENSION TABLES

### ACTOR

This table is used to reference a specific actor that appears in films that are within the Rockbuster rental inventory.

Key?	Columns	Data Type	Description
PK	actor_id	integer	Unique payment identification #
	first_name	smallint	Unique customer identification #
	last_name	smallint	Unique staff identification #
	last_update	Integer	Unique rental identification #

Table Joins:

Key	Links to Tables
actor_id	actor, film_actor

## ADDRESS

This table references the customer address and links to the customer and city tables.

Key?	Columns	Data Type	Description
PK	address_id	Integer	Unique address identification #
	address	Character varying(50)	Street address 1
	address2	Character varying(50)	Street address 2
	district	Character varying(20)	District / county
UK	city_id	Smallint	Unique city identification #
	postal_code	Character varying(10)	Zip code
	phone	Character varying(20)	Phone number
	last_update	Timestamp without time zone	Address record last updated

Table Joins:

Key	Links to Tables
address_id	address, store, staff, customer
city_id	address, city, country

## CATEGORY

This table references specific film categories within the Rockbuster rental inventory.

Key?	Columns	Data Type	Description
PK	category_id	Integer	Unique category identification #
	Name	Character varying(25)	Category name
	last_update	Timestamp without time zone	Category record last updated

Table Joins:

Key	Links to Tables
category_id	category, film_category

## CITY

This table joined to the country and address tables and refers more specifically to the city in which a customer has made a rental.

Key?	Columns	Data Type	Description
PK	city_id	Integer	Unique city identification #
	City	Character varying(50)	City name
UK	country_id	Smallint	Unique country identification #
	last_update	Timestamp without time zone	Date city record last updated

Table Joins:

Key	Links to Tables
city_id	city, address
country_id	country, city, address



## COUNTRY

This table refers to the country in which a rental was made.

Key?	Columns	Data Type	Description
PK	country_id	Integer	Unique country identification #
	Country	Character varying(50)	Country name
	last_update	Timestamp without time zone	Date country record last updated

Table Joins:

Key	Links to Tables
country_id	country, city, address

## CUSTOMER

This table refers to a specific customer within the Rockbuster Database. These are customers that have made rentals and payments.

Key?	Columns	Data Type	Description
PK	customer_id	integer	Unique customer identification #
UK	store_id	smallint	Unique store identification #
	first_name	Character varying(45)	Customer first name
	last_name	Character varying(45)	Customer last name
	Email	Character varying(50)	Customer email
UK	address_id	smallint	Unique address identification #
	Activebool	boolean	Is active? Boolean
	create_date	Date	Customer creation date
	last_update	Timestamp without time zone	Date customer last updated
	Active	Integer	Is active? Integer

Table Joins:

Key	Links to Tables
customer_id	customer, rental, payment
store_id	store, staff, customer, inventory
address_id	address, store, staff, customer

## FILM

This table refers to a specific film within the Rockbuster database.

Key?	Columns	Data Type	Description
PK	film_id	integer	Unique film identification #
	title	Character varying(25)	Film title
	description	Text	Film description
	release_year	integer	Film release year
UK	language_id	smallint	Unique language identification #
	rental_duration	smallint	Length of rental
	rental_rate	numeric	Frequency / rate of rental
	length	smallint	Film length
	replacement_cost	numeric	Film replacement cost
	Rating	USER-DEFINED	Film as rated by user
	last_update	Timestamp without time zone	Date film last updated
	special_features	ARRAY	Film special features
	Fulltext	Tsvector	Film text

Table Joins:

Key	Links to Tables
film_id	film, film_actor, film_category, inventory
language_id	language, film

## FILM\_ACTOR

This table refers to an actor that appears in a film within the database.

Key?	Columns	Data Type	Description
PK	actor_id	Smallint	Unique actor identification #
UK	film_id	smallint	Unique film identification #
	Last_update	Timestamp without time zone	Date last updated

Table Joins:

Key	Links to Tables
actor_id	actor, film_actor
film_id	film, film_actor, film_category, inventory

## FILM\_CATEGORY

This table refers to the category or genre of any specific film within the rock buster database.

Key?	Columns	Data Type	Description
PK	film_id	Smallint	Unique film identification #
UK	category_id	Smallint	Unique category identification #
	last_update	Timestamp without time zone	Date last updated

Table Joins:

Key	Links to Tables
film_id	film, film_actor, film_category, inventory
category_id	category, film_category

## INVENTORY

This table refers to Rockbuster's current inventory, including the film and the store.

Key?	Columns	Data Type	Description
PK	inventory_id	Integer	Unique inventory identification #
UK	film_id	smallint	Unique film identification #
UK	store_id	smallint	Unique store identification #
	last_update	Timestamp without time zone	Date last updated

Table Joins:

Key	Links to Tables
inventory_id	inventory, rental
film_id	film, film_actor, film_category, inventory
store_id	store, staff, customer, inventory

## LANGUAGE

This table refers to the language of the films within the Rockbuster rental database.

Key?	Columns	Data Type	Description
PK	language_id	Integer	Unique language identification #
	Name	Character varying(20)	Language name
	last_update	Timestamp without time zone	Date last updated

Table Joins:

Key	Links to Tables
language_id	language, film

## STAFF

This table is used to store staff information for the Rockbuster store locations.

Key?	Columns	Data Type	Description
PK	staff_id	Integer	Unique staff identification #
	first_name	Character varying(45)	Staff first name
	last_name	Character varying(45)	Staff last name
UK	address_id	Smallint	Unique address identification #
	Email	Character varying(50)	Staff email
UK	store_id	Smallint	Unique store identification #
	Active	Boolean	Is active? Boolean
	Username	Character varying(16)	Staff username
	password	Character varying(40)	Staff password
	last_update	Timestamp without time zone	Date staff last updated
	Picture	Bytes	Staff picture
	staff_id	Integer	Unique staff identification #

Table Joins:

Key	Links to Tables
staff_id	rental, payment, staff, store
address_id	address, store, staff, customer
store_id	store, staff, customer, inventory

## STORE

This table refers to individual stores where rentals are conducted within the Rockbuster database.

Key?	Columns	Data Type	Description
PK	store_id	Integer	Unique store identification #
PK	manager_staff_id	smallint	Unique store manager identification #
UK	address_id	smallint	Unique store address identification #
UK	last_update	Timestamp without time zone	Date store last updated

Table Joins:

Key	Links to Tables
store_id	store, staff, customer, inventory
manager_staff_id	staff
address_id	address, store, staff, customer