Rockbuster Stealth LLC Data Dictionary

Table of contents
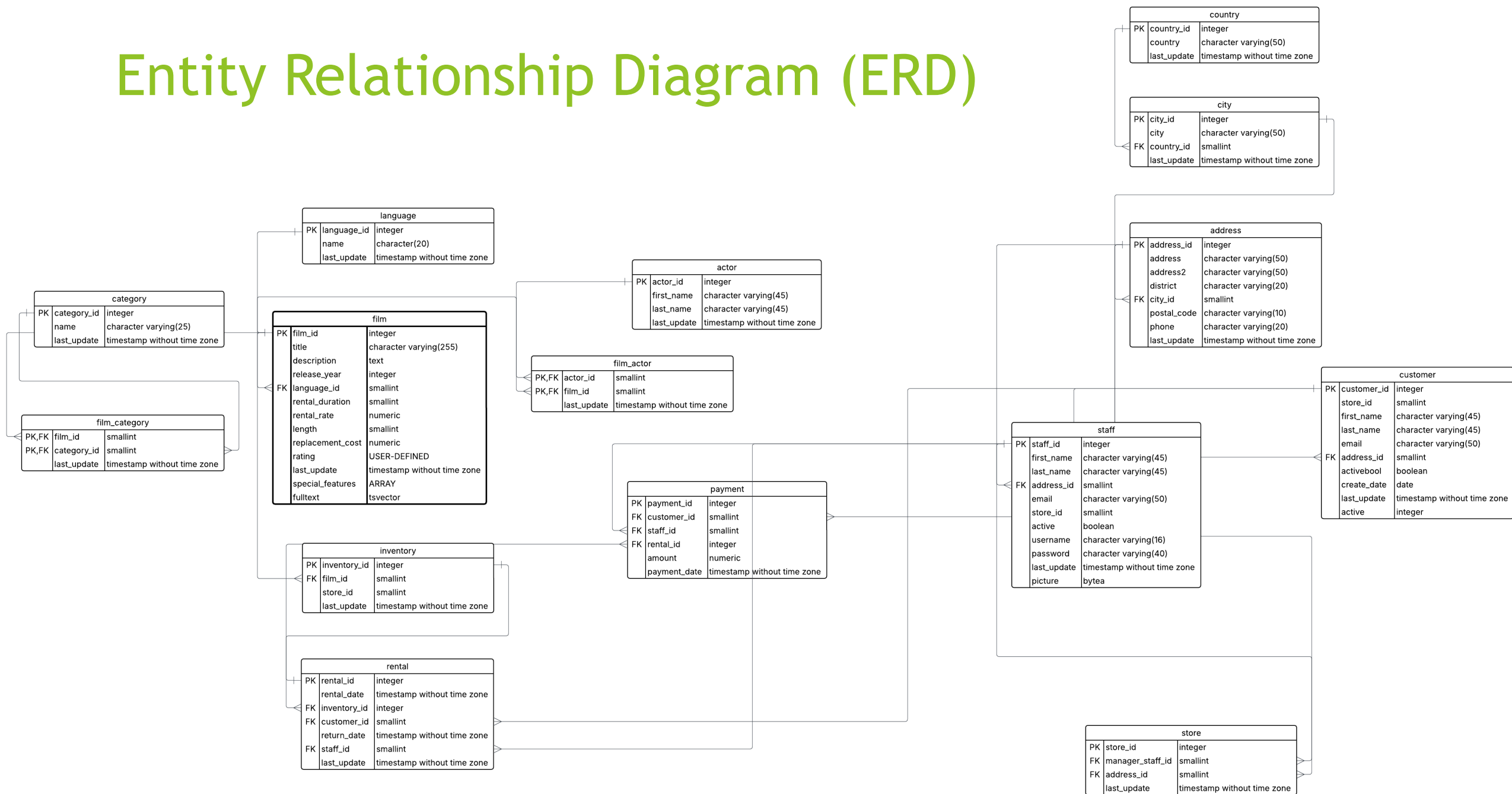
- Introduction
- Entity Relationship Diagram (ERD)
- Fact and Dimension Tables

Introduction

Rockbuster Stealth LLC is a former global movie rental chain now shifting to an online platform in response to growing competition from streaming services like Netflix and Amazon Prime. This transition will leverage the company's existing movie licenses.

This data dictionary supports an analysis project designed to guide the shift. The focus is on identifying top and bottom-performing rentals, average rental durations, high-value customers, geographic trends, and regional sales comparisons. The definitions provided ensure consistent, accurate use of data across teams involved in the analysis.

Entity Relationship Diagram (ERD)

Fact and Dimension Tables

Table Name	Column	Data Type	Description
payment	amount	numeric	Amount paid.
	customer_id	smallint	ID of the customer who made the payment.
	payment_date	timestamp	Date and time the payment was made.
	payment_id	integer	Unique ID for each payment.
	rental_id	integer	ID of the rental related to the payment.
	staff_id	smallint	ID of the staff member who processed the payment.

Links to
staff – staff_id (PK)
customer – customer_id (PK)
rental – customer_id (FK)

Table Name	Column	Data Type	Description
rental	customer_id	smallint	ID of the customer who rented the item.
	inventory_id	integer	ID of the rented inventory item.
	last_update	timestamp	Last time the rental record was updated.
	rental_date	timestamp	Date and time when the rental occurred.
	rental_id	integer	Unique ID for each rental transaction.
	return_date	timestamp	Date and time when the item was returned.
	staff_id	smallint	ID of the staff member who processed the rental.

Links to
staff – staff_id (PK)
customer – customer_id (PK)
inventory – inventory_id (PK)

Links from
payment - customer_id (FK)

Table Name	Column	Data Type	Description
actor	actor_id	integer	Unique ID of the actor.
	first_name	character varying(45)	First name of the actor.
	last_name	character varying(45)	Last name of the actor.
	last_update	timestamp	Last update of the actor record.

Links from
film_actor - actor_id (PK, FK)

Table Name	Column	Data Type	Description
address	address	character varying(50)	Primary address line.
	address2	character varying(50)	Secondary address line.
	address_id	integer	Unique ID of the address.
	city_id	smallint	City ID related to the address.
	district	character varying(20)	District of the address.
	last_update	timestamp	Last update of the address record.
	phone	character varying(20)	Phone number.
	postal_code	character varying(10)	Postal code of the address.

Links to
city- city_id (PK)

Links from
customer - address_id (FK)
staff - address_id (FK)
store - address_id (FK)

Table Name	Column	Data Type	Description
category	category_id	integer	Unique ID of the category.
	last_update	timestamp without time	Last update of the category record.
	name	character varying(25)	Name of the category.

Links from
film_category – category_id (PK)

Table Name	Column	Data Type	Description
city	city	character varying(50)	Name of the city.
	city_id	integer	Unique ID of the city.
	country_id	smallint	Country ID associated with the city.
	last_update	timestamp	Last update of the city record.

Links to
country – country_id (PK)

Links from
address – city_id (FK)

Table Name	Column	Data Type	Description
country	country	character varying(50)	Name of the country.
	country_id	integer	Unique ID of the country.
	last_update	timestamp	Last update of the country record.

Links from
city – country_id (FK)

Table Name	Column	Data Type	Description
customer	active	integer	Alternate field indicating active status.
	activebool	boolean	Indicates if the customer is active.
	address_id	smallint	ID of the address of the customer.
	create_date	date	Date when the customer was created.
	customer_id	integer	Unique ID of the customer.
	email	character varying(50)	Email address of the customer.
	first_name	character varying(45)	First name of the customer.
	last_name	character varying(45)	Last name of the customer.
	last_update	timestamp	Last update of the customer record.
	store_id	smallint	ID of the store associated with the customer.

Links to
address – address_id (PK)

Links from
payment – customer_id (FK)
rental – customer_id (FK)

Table Name	Column	Data Type	Description
film	description	text	Brief description of the film.
	film_id	integer	Unique ID for each film.
	fulltext	tsvector	Full-text search vector.
	language_id	smallint	ID of the language the film is in.
	last_update	timestamp	Last time the film record was updated.
	length	smallint	Length of the film in minutes.
	rating	varchar(10)	Rating of the film.
	release_year	integer	Year the film was released.
	rental_duration	smallint	Number of days the film can be rented.
	rental_rate	numeric	Cost to rent the film.
	replacement_cost	numeric	Cost to replace the film.
	special_features	text	List of special features for the film.
	title	character varying(255)	Title of the film.

Links to
language – language_id (FK)

Links from
film_actor – film_id (PK, FK)
inventory– film_id (FK)
film_category – film_id (PK, FK)

Table Name	Column	Data Type	Description
film_actor	actor_id	smallint	ID of the actor.
	film_id	smallint	ID of the film.
	last_update	timestamp	Last update of the film_actor record.

Links to
actor – actor_id (PK)
film – film_id (PK)

Table Name	Column	Data Type	Description
film_category	category_id	smallint	ID of the category.
	film_id	smallint	ID of the film.
	last_update	timestamp	Last update of the film_category record.

Links to
category – category_id (PK)
film – film_id (PK)

Table Name	Column	Data Type	Description
inventory	film_id	smallint	ID of the film in inventory.
	inventory_id	integer	Unique ID for each inventory item.
	last_update	timestamp	Last time the inventory record was updated.
	store_id	smallint	ID of the store where the item is located.

Links to
film – film_id (PK)

Links from
rental – inventory_id (FK)

Table Name	Column	Data Type	Description
language	language_id	integer	Unique ID of the language.
	last_update	timestamp	Last update of the language record.
	name	character(20)	Name of the language.

Links from
film – language_id (FK)

Table Name	Column	Data Type	Description
staff	active	boolean	Indicates if the staff is active.
	address_id	smallint	Address ID of the staff.
	email	character varying(50)	Email address of the staff.
	first_name	character varying(45)	First name of the staff.
	last_name	character varying(45)	Last name of the staff.
	last_update	timestamp	Last update of the staff record.
	password	character varying(40)	Login password.
	picture	bytea	Photo of the staff member.
	staff_id	integer	Unique ID of the staff member.
	store_id	smallint	Store ID where the staff works.
	username	character varying(16)	Login username.
	address_id	smallint	Address ID of the store.
	last_update	timestamp	Last update of the store record.
	manager_staff_id	smallint	ID of the manager (staff) of the store.
	store_id	integer	Unique ID of the store.

Links to
address – address_id (PK)

Links from
rental – staff_id (FK)
payment – staff_id (FK)
Store – address_id (FK)

Table Name	Column	Data Type	Description
Store	store_id	integer	Store ID
	manager_staff_id	smallint	Store manager unique ID
	address_id	smallint	Store address unique ID
	last_update	timestamp	Last update

Links to
Staff –address_id (FK)
address – address_id (PK)