Rockbuster Stealth LLC

Data Dictionary

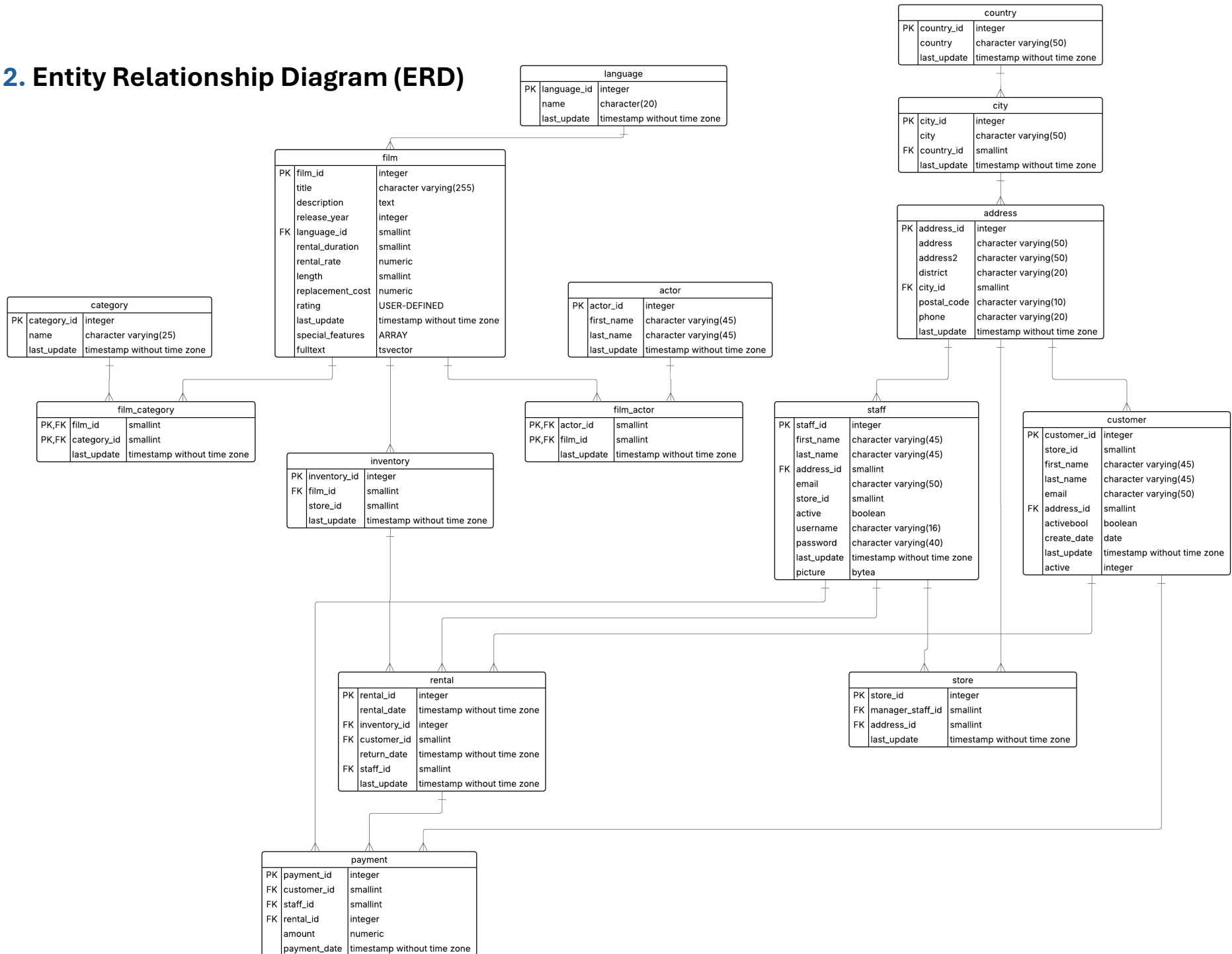Andrew Miller

Aug 2025

1. Table of Contents

2. Entity Relationship Diagram (ERD)

3. Fact Tables

3.1 Rental

Information relating to a rental transaction by a customer

	Columns	Data Type	Description
PK	rental_id	integer	The unique rental ID number
	rental_date	timestamp without time zone	Time of rental
FK	inventory_id	integer	Inventory ID number
FK	customer_id	smallint	Customer ID number who rented the movie
	return_date	timestamp without time zone	Date of return
FK	staff_id	smallint	Staff ID number
	last_update	timestamp without time zone	Time and date of last update

Links to

	Table	Join
	inventory	rental.inventory_id = inventory.inventory_id
	staff	rental.staff_id = staff.staff_id
	customer	rental.customer_id=customer.customer_id

Linked from

	Table	Join
	payment	rental.rental_id = payment.rental_id

Unique Keys

	Columns	Description
	rental_id	Primary key

3.2 Payment

Information relating to a payment made by a customer.

	Columns	Data Type	Description
PK	payment_id	integer	Unique payment ID number
FK	customer_id	smallint	Customer ID number of customer making payment
FK	staff_id	smallint	Staff ID number
FK	rental_id	integer	Rental ID number
	amount	numeric	Amount of payment
	payment_date	timestamp without time zone	Date of payment

Links to

	Table	Join
	staff	payment.staff_id = staff.staff_id
	rental	payment.rental_id = rental.rental_id
	customer	payment.customer_id = customer.customer_id

Linked from

	Table	Join
	-	

Unique Keys

	Columns	Description
	payment_id	Primary key
	rental_id	Unique identifier

4. Dimension Tables

4.1   Film

Information on each film licensed by Rockbuster.

	Columns	Data Type	Description
PK	film_id	integer	Unique film ID number
	title	character varying(255)	Film title
	description	text	A textual description of the film
	release_year	integer	Year film was released
FK	language_id	smallint	ID number of the film's language
	rental_duration	smallint	Duration of rental for this film
	rental_rate	numeric	Rental rate for this film
	length	smallint	Length of the film
	replacement_cost	numeric	Cost to replace film
	rating	USER-DEFINED	Age rating for the film
	last_update	timestamp without time zone	Time and date of last update
	special_features	ARRAY	Any special features that accompany the film
	fulltext	tsvector	Parts of the words from the description.

Links to

	Table	Join
	language	film.language_id = language.language_id

Linked from

	Table	Join
	film_category	film.film_id = film_category.film_id
	inventory	film.film_id = inventory.film_id
	film_actor	film.film_id = film_actor.film_id

Unique Keys

	Columns	Description
	film_id	Primary key

4.2 Language

Information relating to a rental transaction by a customer

	Columns	Data Type	Description
PK	language_id	integer	Unique ID number for the film's language
	name	character(20)	Name of the film's language
	last_update	timestamp without time zone	Time and date of last update

Links to

	Table	Join
	-	

Linked from

	Table	Join
	film	language.language_id = film.language_id

Unique Keys

	Columns	Description
	language_id	Primary key

4.3 Inventory

Information relating to films in the Rockbuster inventory

	Columns	Data Type	Description
PK	inventory_id	integer	Unique inventory ID number
FK	film_id	smallint	Film ID number
	store_id	smallint	Store ID number
	last_update	timestamp without time zone	Time and date of last update

Links to

	Table	Join
	film	inventory.film_id = film.film_id

Linked from

	Table	Join
	rental	inventory.inventory_id = rental.inventory_id

Unique Keys

	Columns	Description
	inventory_id	Primary key

4.4   Film_category

Information on the categories of each film

	Columns	Data Type	Description
PK,FK	film_id	smallint	Unique film ID number
PK,FK	category_id	smallint	Unique category ID number
	last_update	timestamp without time zone	Time and date of last update

Links to

	Table	Join
	film	film_category.film_id = film.film_id
	category	film_category.category_id = category.category_id

Linked from

	Table	Join
	-	

Unique Keys

	Columns	Description
	film_id	Primary key
	category_id	Primary key

4.5   Category

Information on the categories available for film classification

	Columns	Data Type	Description
PK	category_id	integer	Unique category ID number
	name	character varying(25)	Name of category (genre)
	last_update	timestamp without time zone	Time and date of last update

Links to

	Table	Join
	-	

Linked from

	Table	Join
	film_category	category.category_id = film_category.category_id

Unique Keys

	Columns	Description
	category_id	Primary key

4.6   Actor

Details relating to actors

	Columns	Data Type	Description
PK	actor_id	integer	Unique actor ID number
	first_name	character varying(45)	First name of actor
	last_name	character varying(45)	Last name of actor
	last_update	timestamp without time zone	Time and date of last update

Links to

	Table	Join
	-	

Linked from

	Table	Join
	film_actor	actor.actor_id = film_actor.actor_id

Unique Keys

	Columns	Description
	actor_id	Primary key

4.7　Film_actor

Information on actors in each film

	Columns	Data Type	Description
PK,FK	actor_id	smallint	Unique actor ID number
PK,FK	film_id	smallint	Unique film ID number
	last_update	timestamp without time zone	Time and date of last update

Links to

	Table	Join
	actor	film_actor.actor_id = actor.actor_id
	film	film_actor.film_id = film.film_id

Linked from

	Table	Join
	-	

Unique Keys

	Columns	Description
	actor_id	Primary key
	film_id	Primary key

4.8   Staff

Information on the staff working for Rockbuster

	Columns	Data Type	Description
PK	staff_id	integer	Unique staff ID number
	first_name	character varying(45)	Staff member's first name
	last_name	character varying(45)	Staff member's last name
FK	address_id	smallint	ID number associated with staff member's address
	email	character varying(50)	Staff member's email address
	store_id	smallint	ID of the store the person works in
	active	boolean	Are they an active member of staff or not
	username	character varying(16)	Staff member's username
	password	character varying(40)	Their password
	last_update	timestamp without time zone	Time and date of last update
	picture	bytea	Photo of staff member

Links to

	Table	Join
	address	staff.address_id = address.address_id

Linked from

	Table	Join
	payment	staff.staff_id = payment.staff_id
	rental	staff.staff_id = rental.staff_id
	store	staff.store_id = store.s

Unique Keys

	Columns	Description
	staff_id	Primary key

4.9   Store

Information on Rockbuster stores

	Columns	Data Type	Description
PK	store_id	integer	Unique store ID number
FK	manager_staff_id	smallint	Manager of the store's ID number
FK	address_id	smallint	ID number associated with the store's address
	last_update	timestamp without time zone	Time and date of last update

Links to

	Table	Join
	staff	store.store_id = staff.store_id

Linked from

	Table	Join
	-	

Unique Keys

	Columns	Description
	store_id	Primary key
	manager_staff_id	Unique identifier
	address_id	Unique identifier

4.10   Customer

Information about Rockbuster customers

	Columns	Data Type	Description
PK	customer_id	integer	Unique customer ID number
	store_id	smallint	Store ID number where customer joined
	first_name	character varying(45)	Customer's first name
	last_name	character varying(45)	Customer's last name
	email	character varying(50)	Customer's email address
FK	address_id	smallint	ID number associated with customer's address
	activebool	boolean	Is the customer active or not, True or False
	create_date	date	Date the customer record was created
	last_update	timestamp without time zone	Time and date of last update
	active	integer	Is the customer active or not, 1 or 0

Links to

	Table	Join
	address	customer.address_id = address.address_id

Linked from

	Table	Join
	payment	customer.customer_id = payment.customer_id
	rental	customer.customer_id = rental.customer_id

Unique Keys

	Columns	Description
	customer_id	Primary key

4.11   Address

Details of addresses of staff, customers and stores.

	Columns	Data Type	Description
PK	address_id	integer	ID number associated with address
	address	character varying(50)	1st line of address
	address2	character varying(50)	2nd line of address
	district	character varying(20)	District
FK	city_id	smallint	ID number of city
	postal_code	character varying(10)	Postcode
	phone	character varying(20)	Phone number for address
	last_update	timestamp without time zone	Time and date of last update

Links to

	Table	Join
	city	address.city_id = city.city=id

Linked from

	Table	Join
	customer	address.address_id = customer.address_id
	store	address.address_id = store.address_id
	staff	address.address_id = staff.address_id

Unique Keys

	Columns	Description
	address_id	Primary key

4.12   City

Information on the cities where the addresses are.

	Columns	Data Type	Description
PK	city_id	integer	ID number of city
	city	character varying(50)	Name of city
FK	country_id	smallint	ID number of country
	last_update	timestamp without time zone	Time and date of last update

Links to

	Table	Join
	country	city.country_id = country.country_id

Linked from

	Table	Join
	address	city.city_id = address.city_id

Unique Keys

	Columns	Description
	city_id	Primary key

4.13   Country

Information on the countries where the addresses are.

	Columns	Data Type	Description
PK	country_id	integer	ID number of country
	country	character varying(50)	Name of country
	last_update	timestamp without time zone	Time and date of last update

Links to

	Table	Join
	-	

Linked from

	Table	Join
	city	country.country_id = city.country_id

Unique Keys

	Columns	Description
	country_id	Primary key