

Rockbuster Stealth, LLC

## Data Dictionary

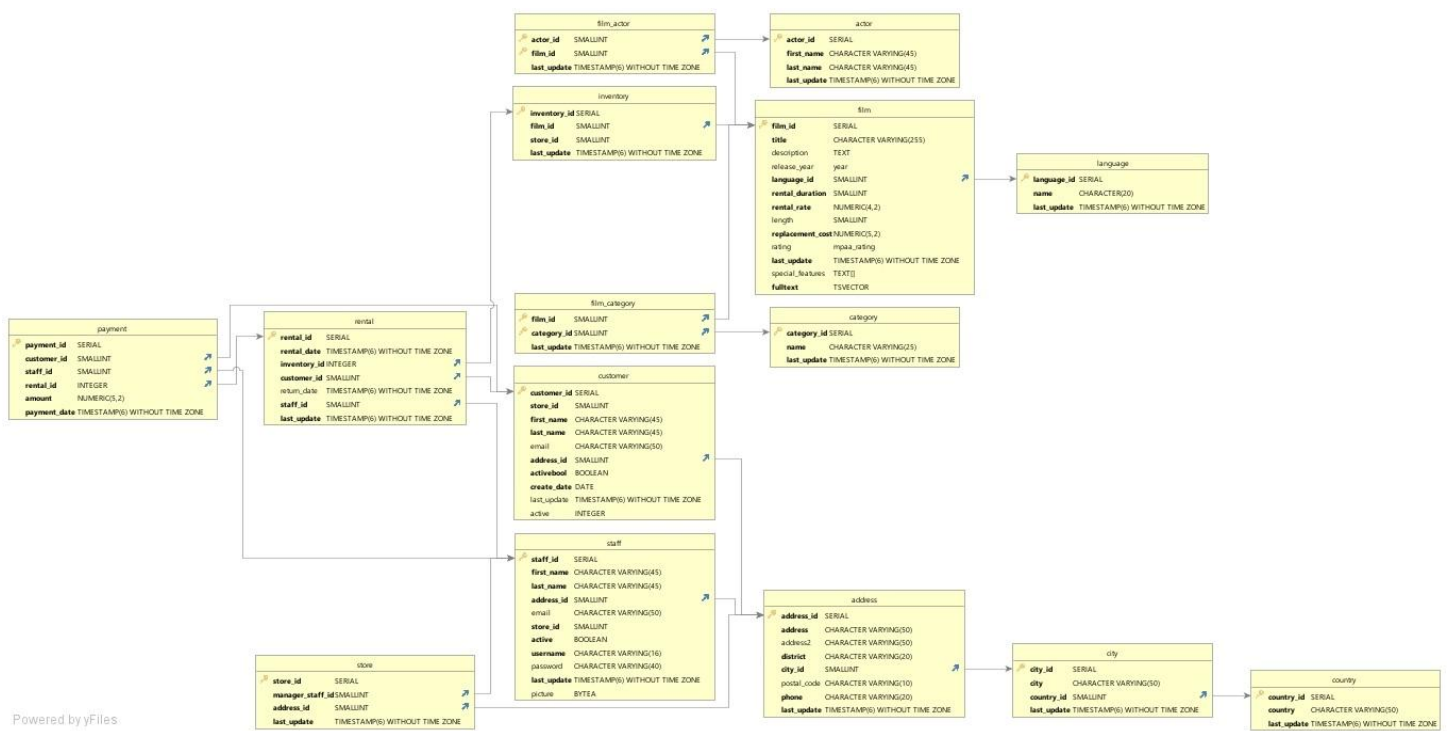
Lex Devlin, March 2022



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# 1. Entity Relationship Diagram (ERD)



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## 2. Legend





🔑 - primary/composite key

◆ - foreign key

### **3. Fact Tables**


#### **3.1. payment**

Information on every financial transaction conducted.

Key	Links from	Name	Data Type	Description	Links to
		Payment id	SERIAL	Integer numbering each payment made	
		Customer id	SMALLINT	Integer numbering each customer, refreshing from “1” within an unknown time frame	customer
		Staff id	SMALLINT	Integer numbering the staff involved in the rental sale	staff
		Rental id	INTEGER	The code for the movie being rented in order of time	rental
		amount	NUMERIC(5,2)	Dollar amount of the sale	
		Payment date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the sale	

### 3.2. rental




Information on every occurrence of a film being rented.

Key	Links from	Name	Data Type	Description	Links to
	payment	Rental id	SERIAL	The code for the movie being rented in order of time	
		Rental date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the sale	
♦		Inventory id	INTEGER	Code for each unique movie	inventory
♦		Customer id	SMALLINT	Code for each unique customer	customer
		Return date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of return	
♦		Staff id	SMALLINT	Integer numbering the staff involved in the rental sale	staff
		Last update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time and date any data on this table was updated	

## **4. Dimension Tables**



### **4.1. store**

Store information where a rental transaction took place.

Key	Links from	Name	Data Type	Description	Links to
		Store id	SERIAL	Which store did the rental take place at?	
		Manager staff id	SMALLINT	Code for the manager on duty at the time of rental	staff
		Address id	SMALLINT	Integer detailing the address of a location	address
		Last update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time and date any data on this table was updated	



### **4.2. inventory**

Tracks the number of copies of all films and which stores they are located in.

Key	Links from	Name	Data Type	Description	Links to
	rental	Inventory id	SMALLINT	Code for each unique movie	
		Film id	SMALLINT	Code for each unique film	film
		Store id	SMALLINT	Which store did the rental take place at?	
		Last update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time and date any data on this table was updated	
		amount	NUMERIC(5,2)	Dollar amount of the sale	



### 4.3. film

Information on every film in the library.

Key	Links from	Name	Data Type	Description	Links to
	inventory, film_category, film_actor	Film id	SERIAL	Code for each unique film	
		title	CHARACTER VARYING(255)	Title of the film	
		description	TEXT	Textual description of the film	
		Release year	year	Year the film was released	
		Language id	SMALLINT	Integer for the main language of the film	language
		Rental duration	SMALLINT	Number of days the film was rented for?	
		Rental rate	NUMERIC(5,2)	Dollar amount the film rents for	
		length	SMALLINT	How long the film is, in minutes	
		Replacement cost	NUMERIC(5,2)	How much does it cost to buy the film again, assuming it isn't getting returned	
		rating	mpaa_rating	Film rating (G, PG-13, etc)	
		Last update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time and date any data on this table was updated	
		Special features	TEXT	List of what special features come with the DVD	
		fulltext	TSVECTOR	Some form of collection of the words associated with the film's title and its description	


#### 4.4. film\_actor

Table assigning an actor id to actors who star in films from the Rockbuster library.

Key	Links from	Name	Data Type	Description	Links to
		Actor id	SMALLINT	Code for each unique actor	actor
		Film id	SMALLINT	Code for each unique film	film
		Last update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time and date any data on this table was updated	

#### 4.5. actor



Translates actor id into the name of the actor.

Key	Links from	Name	Data Type	Description	Links to
	film_actor	Actor id	SERIAL	Code for each unique actor	
		First name	CHARACTER VARYING(45)	Actor's first name	
		Last name	CHARACTER VARYING(45)	Actor's last name	
		Last update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time and date any data on this table was updated	




#### 4.6. film\_category

Assigns a film category id to each film.

Key	Links from	Name	Data Type	Description	Links to
		Film id	SMALLINT	Code for each unique film	film
		Category id	SMALLINT	Code for each unique category	category
		Last update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time and date any data on this table was updated	


#### 4.7. category

Translates the film category id into a named film category.

Key	Links from	Name	Data Type	Description	Links to
	film_category	Category id	SERIAL	Code for each unique category	
		name	CHARACTER VARYING(25)	Name of the category	
		Last update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time and date any data on this table was updated	



#### 4.8. language

Translates a film's language id into the name of the language.

Key	Links from	Name	Data Type	Description	Links to
	film	Language id	SERIAL	Code for each unique language	
		name	CHARACTER(20)	Name of the language	
		Last update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time and date any data on this table was updated	



#### 4.9. customer

Information on Rockbuster customers, including their name, email, home address and whether they are active.

Key	Links from	Name	Data Type	Description	Links to
	payment, rental	Customer id	SERIAL	Code for each unique customer	
		Store id	SMALLINT	Which store did their rental take place at?	
		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	
		Address id	SMALLINT	Integer related to the address of the customer	address
		activebool	BOOLEAN	True/false if the customer is "active"	
		Create date	DATE	Date this table was created, presumably	
		Last update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time and date any data on this table was updated	
		active	INTEGER	1/0 for true/false of activebool	



#### 4.10. staff

Information on Rockbuster staff, including their name, email, and login information.

Key	Links from	Name	Data Type	Description	Links to
	payment, rental	Staff id	SERIAL	Code for each unique staff member	
		First name	Character varying(45)	Staff member's first name	
		Last name	Character varying(45)	Staff member's last name	
		Address id	SMALLINT	Integer related to the address of the customer	address
		email	Character varying(50)	Staff member's email address	
		Store id	SMALLINT	Which store does this staff member work at?	
		username	CHARACTER VARYING(16)	The staff member's username	
		password	CHARACTER VARYING(40)	The staff member's password	
		Last update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time and date any data on this table was updated	
		picture	BYTEA	Perhaps an image file was somehow stored here in another system? One record says "binary data" and the other is null.	



#### 4.11. address

Translates a customer's address id into the full address. Also includes phone number.

Key	Links from	Name	Data Type	Description	Links to
	customer, staff, store	Address id	SERIAL	Surrogate key for each unique address?	
		address	CHARACTER VARYING(50)	The physical address	
		address2	CHARACTER VARYING(50)	Seems to be a null field	
		district	CHARACTER VARYING(20)	Country/State	
		City id	SMALLINT	Integer for each unique city	city
		Postal code	CHARACTER VARYING(10)	Zip code/postal code for the address	
		phone	CHARACTER VARYING(20)	Phone number associated with the address	
		Last update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time and date any data on this table was updated	


#### 4.12. city

Translates the city id from the address table into the name of a city. Assigns corresponding country id.

Key	Links from	Name	Data Type	Description	Links to
	address	City id	SERIAL	Integer for each unique city	
		city	CHARACTER VARYING(50)	The name of the city	
		Country id	SMALLINT	Integer for each unique country	country
		Last update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time and date any data on this table was updated	

#### 4.13. country

Translates country id into the name of a country.

Key	Links from	Name	Data Type	Description	Links to
	city	Country id	SERIAL	Integer for each unique country	
		country	CHARACTER VARYING(50)	The name of the country	
		Last update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time and date any data on this table was updated	