

# Rockbuster Stealth LLC

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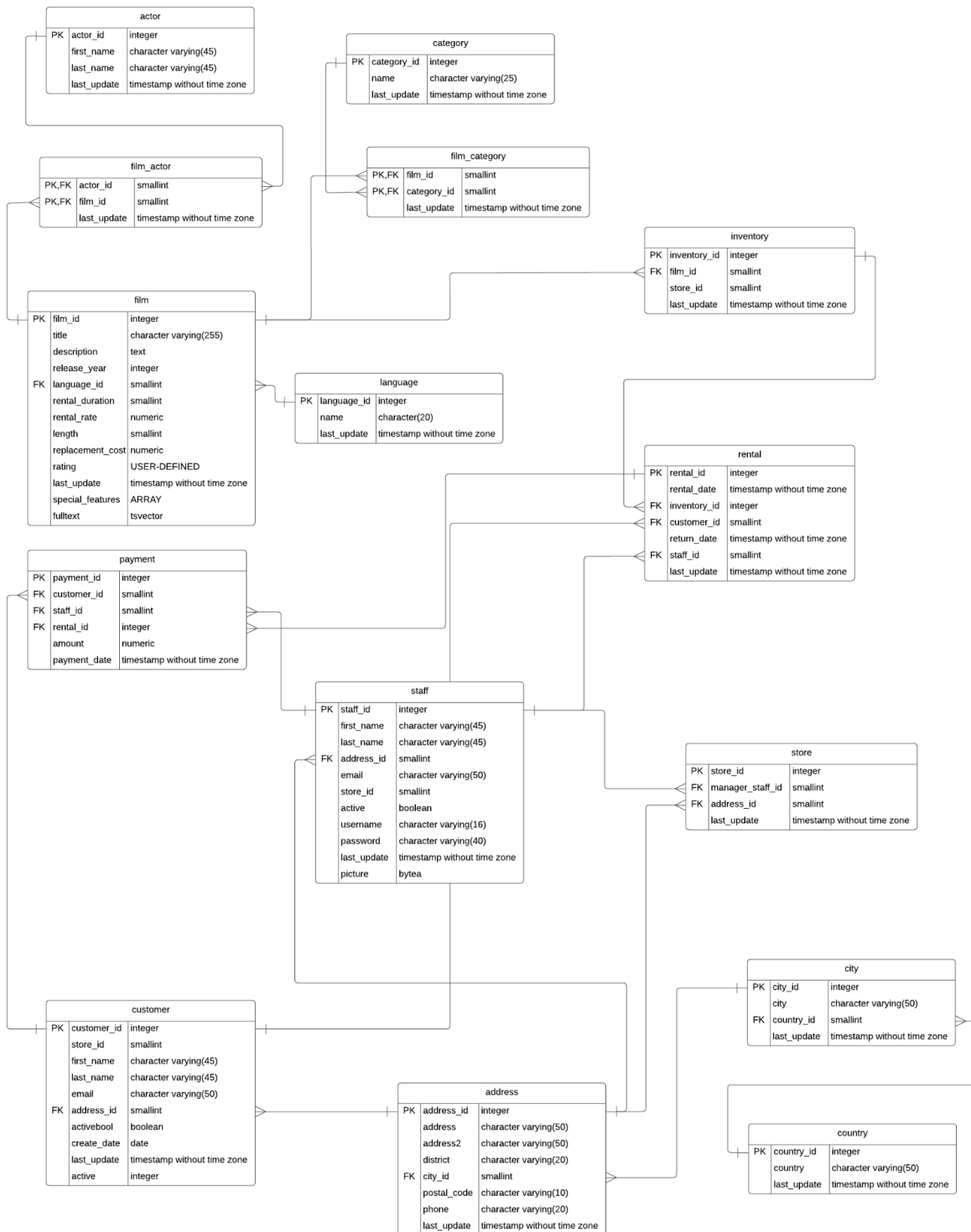
## Data Dictionary

v3\_03.09.2023

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# 1. Entity Relationship Diagram



## 2. Legend

 Primary key

 Foreign key

 Links to

 Linked from

### 3. Fact Tables

#### 3.1. Payment










Table		Column	Data type	Description
payment		payment_id	integer	Unique ID for payment
		customer_id	smallint	Unique ID for customer
		staff_id	smallint	Unique ID for staff
		rental_id	integer	Unique ID for rental
		amount	numeric	Amount paid for rental (USD)
		payment_date	timestamp without time zone	Date of payment (yyyy-mm-dd hh:mm:ss)

		Table	Join
Links to		rental	Payment.rental_id = Rental.rental_id
		staff	Payment.staff_id = Staff.staff_id
		customer	Payment.customer_id = Customer.customer_id
Linked from		-	-

		Column	Description
Unique keys		payment_id	Primary key of payment table

## 4. Dimension Tables

### 4.1. Actor



Table		Column	Data type	Description
actor		actor_id	integer	Unique ID for actor
		first_name	character varying(45)	Actor's first name
		last_name	character varying(45)	Actor's last name
		last_update	timestamp without time zone	Last update of info (yyyy-mm-dd hh:mm:ss)

		Table	Join
Links to		-	-
Linked from		film_actor	Film_actor.actor_id = Actor.actor_id

		Column	Description
Unique keys		actor_id	Primary key of actor table

### 4.2. Film\_actor






Table		Column	Data type	Description
film_actor		actor_id	smallint	Unique ID for actor
		film_id	smallint	Unique ID for film
		last_udupdate	timestamp without time zone	Last update of info (yyyy-mm-dd hh:mm:ss)

		Table	Join
Links to		actor	Film_actor.actor_id = Actor.actor_id
		film	Film_actor.film_id = Film.film_id
Linked from		-	-

### 4.3. Film






Table		Column	Data type	Description
film		film_id	integer	Unique ID for film
		title	character varying(225)	Film title
		description	text	Film description
		release_year	integer	Film year of release
		language_id	smallint	Unique ID for language
		rental_duration	smallint	Duration of film rental (days)
		rental_rate	numeric	Rate of film rental
		length	smallint	Length of film (min)
		replacement_cost	numeric	Cost to replace film if required
		rating	PG, R, NC-17, PG-13, G	Age rating of film
		last_update	timestamp without time zone	Last update of info (yyyy-mm-dd hh:mm:ss)
		special_features	text []	Special feature of film
		fulltext	tsvector	Film key words

		Table	Join
Links to		language	Film.language_id = Language.language_id
Linked from		inventory	Film.film_id = Inventory.film_id

		Column	Description
Unique keys		film_id	Primary key of film table

## 4.4. Film\_category



Table		Column	Data type	Description
film_category		film_id	smallint	Unique ID for film
		category_id	smallint	Unique ID for category
		last_update	timestamp without time zone	Last update of info (yyyy-mm-dd hh:mm:ss)

		Table	Join
Links to	➤	film	Film_category.film_id = Film.film_id
	➤	category	Film_category.category_id = Category.category_id
Linked from	➤	-	-

## 4.5. Category



Table		Column	Data type	Description
category		category_id	integer	Unique ID for category
		name	character varying(25)	Category description
		last_update	timestamp without time zone	Last update of info (yyyy-mm-dd hh:mm:ss)

		Table	Join
Links to	➤	-	-
Linked from	➤	film_category	Category.category_id = Film_category.category_id

		Column	Description
Unique keys		category_id	Primary key of category table



## 4.6. Inventory





Table		Column	Data type	Description
inventory		inventory_id	integer	Unique ID for inventory
		film_id	smallint	Unique ID for film
		store_id	smallint	Unique ID for store
		last_update	timestamp without time zone	Last update of info (yyyy-mm-dd hh:mm:ss)

		Table	Join
Links to	➤	film	Film_actor.film_id = Film.film_id
	➤	store	Inventory.store_id = Store.store_id
Linked from	⬅	rental	Inventory.inventory_id = Rental.inventory_id

		Column	Description
Unique keys		inventory_id	Primary key of inventory table

## 4.7. Language



Table		Column	Data type	Description
language		language_id	integer	Unique ID for language
		name	character(20)	Language description
		last_update	timestamp without time zone	Last update of info (yyyy-mm-dd hh:mm:ss)

		Table	Join
Links to	➤	-	-
Linked from	⬅	film	Language.language_id = Film.language_id

		Column	Description
Unique keys		language_id	Primary key of language table

## 4.8. Rental









Table		Column	Data type	Description
rental		rental_id	integer	Unique ID for rental
		rental_date	timestamp without time zone	Date of start of rental (yyyy-mm-dd hh:mm:ss)
		inventory_id	integer	Unique ID for inventory
		customer_id	smallint	Unique ID for customer
		return_date	timestamp without time zone	Date of film return (yyyy-mm-dd hh:mm:ss)
		staff_id	smallint	Unique ID for staff
		last_update	timestamp without time zone	Last update of info (yyyy-mm-dd hh:mm:ss)

	Table	Join
Links to	 inventory	Rental.inventory_id = Inventory.inventory_id
	 customer	Rental.customer_id = Customer.customer_id
	 staff	Rental.staff_id = Staff.staff_id
Linked from	 payment	Payment.rental_id = Rental.rental_id

	Column	Description
Unique keys	 rental_id	Primary key of rental table

## 4.9. Staff

Table		Column	Data type	Description
staff		staff_id	integer	Unique ID for staff
		first_name	character varying(45)	Staff first name
		last_name	character varying(45)	Staff last name
		address_id	smallint	Unique ID for address
		email	character varying(50)	Staff email
		store_id	smallint	Unique ID for store

	active	boolean	Staff status (active/inactive)
	username	character varying(16)	Staff username
	password	character varying(40)	Staff password
	last_update	timestamp without time zone	Last update of info (yyyy-mm-dd hh:mm:ss)
	picture	bytes	Staff picture

		Table	Join
Links to	➤	address	Staff.address_id = Address.address_id
Linked from	➤	payment	Staff.staff_id = Payment.staff_id

		Column	Description
Unique keys	🔑	staff_id	Primary key of staff table

## 4.10. Store

Table		Column	Data type	Description
store	🔑	store_id	integer	Unique ID for store
	🔑	manager_staff_id	smallint	Unique ID for staff manager
	🔑	address_id	smallint	Unique ID for address
		last_update	timestamp without time zone	Last update of info (yyyy-mm-dd hh:mm:ss)

		Table	Join
Links to	➤	staff	Store.manager_staff_id = Staff.staff_id
	➤	address	Store.address_id = Address.address_id
Linked from	➤	-	-

		Column	Description
Unique keys	🔑	store_id	Primary key of store table

## 4.11. Customer






Table		Column	Data type	Description
customer		customer_id	integer	Unique ID for customer
		store_id	smallint	Unique ID for store
		first_name	character varying(45)	Customer first name
		last_name	character varying(45)	Customer last name
		email	character varying(50)	Customer email
		address_id	smallint	Unique ID for address
		activebool	boolean	Customer status (active/inactive)
		create_date	date	Date of creation of customer account (yyyy-mm-dd)
		last_update	timestamp without time zone	Last update of info (yyyy-mm-dd hh:mm:ss)
		active	integer	Status (active 1/ inactive 0)

		Table	Join
Links to		address	Customer.address_id = Address.address_id
Linked from		rental	Customer.customer_id = Rental.customer_id

		Column	Description
Unique keys		customer_id	Primary key of customer table

## 4.12. Address

Table		Column	Data type	Description
address		address_id	integer	Unique ID for address
		address	character varying(50)	Customer address line 1
		address2	character varying(50)	Customer address line 1
		district	character varying(20)	Customer address district
		city_id	smallint	Unique ID for city
		postal_code	character varying(10)	Customer address postcode

	phone	character varying(20)	Customer phone number
	last_update	timestamp without time zone	Last update of info (yyyy-mm-dd hh:mm:ss)

	Table	Join
Links to	city	Address.city_id = City.city_id
Linked from	store	Address.address_id = Store.address_id
	staff	Address.address_id = Staff.address_id
	customer	Address.address_id = Customer.address_id

	Column	Description
Unique keys	address_id	Primary key of address table

### 4.13. City

Table	Column	Data type	Description
city	city_id	integer	Unique ID for city
	city	character varying(50)	City name
	country_id	smallint	Unique ID for country
	last_update	timestamp without time zone	Last update of info (yyyy-mm-dd hh:mm:ss)

	Table	Join
Links to	country	City.country_id = Country.country_id
Linked from	address	City.city_id = Address.city_id

	Column	Description
Unique keys	city_id	Primary key of city table

## 4.14. Country



Table		Column	Data type	Description
country		country_id	integer	Unique ID for country
		country	character varying(50)	Country name
		last_update	timestamp without time zone	Last update of info (yyyy-mm-dd hh:mm:ss)

		Table	Join
Links to	➤	-	-
Linked from	➤	city	Country.country_id = City.country_id

		Column	Description
Unique keys		country_id	Primary key of country table

## 5. Version updates

<b>v2 updates:</b>
Format added in dates (several columns/tables) Units added in currency to amount (payment) Units added to rental_duration (film) Data type updated for rating (film)
<b>v3 updates:</b>
Keys updated for film_actor table and film_category table