

Geetha

# Rockbuster Stealth LLC





## Data Dictionary



## Table of Contents

1.	Rockbuster Stealth LLC .....	4
2.	Entity Relationship Diagram (ERD) .....	5
3.	Tables.....	6
3.1	Table: payment.....	6
3.2	Table: rental.....	7
3.3	Table: store.....	8
3.4	Table: film_actor .....	8
3.5	Table: inventory.....	9
3.6	Table: film_category .....	10
3.7	Table: customer .....	10
3.8	Table: staff.....	11
3.9	Table: actor .....	12
3.10	Table: film.....	13
3.11	Table: category.....	14
3.12	Table: address .....	14
3.13	Table: language .....	15
3.14	Table: city.....	16
3.15	Table: country.....	17

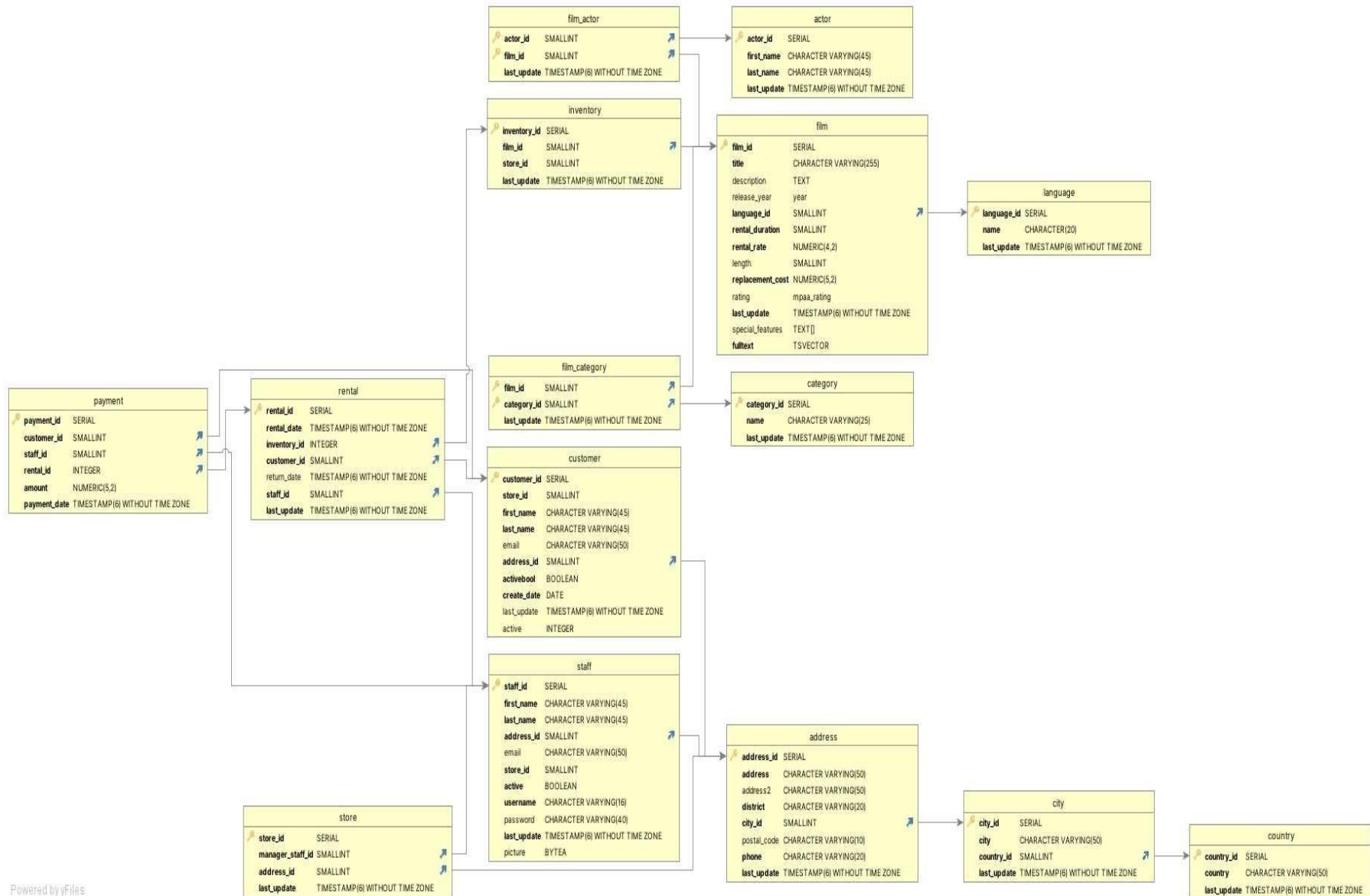
## Legend

-  Primary key
-  Unique key
-  Primary key relation
-  Foreign key relation

## 1. Rockbuster Stealth LLC

Rockbuster Stealth LLC is a movie rental company that used to have stores around the world. Facing stiff competition from streaming services such as Netflix and Amazon Prime, the Rockbuster Stealth management team is planning to use its existing movie licenses to launch an online video rental service in order to stay competitive.

## 2.Entity Relationship Diagram (ERD)



### 3. Tables

#### 3.1 Table: payment

##### Columns

	Name	Data Type	Description
🔑	payment_id	SERIAL	Primary key for payment records.
	customer_id	SMALLINT	Unique identification number for the customer.
	staff_id	SMALLINT	Unique identification number for the staff.
	rental_id	INTEGER	Unique identification number for the rental.
	amount	NUMERIC(5,2)	Amount of the payment.
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of the payment.

##### Links to

	Table	Join	Title / Name / Description
➤	customer	<b>payment</b> .customer_id = customer.customer_id	FK_payment_customer_customer_id Foreign key constraint referencing customer.customer_id.
➤	staff	<b>payment</b> .staff_id = staff.staff_id	FK_payment_staff_staff_id Foreign key constraint referencing staff.staff_id.
➤	rental	<b>payment</b> .rental_id = rental.rental_id	FK_payment_rental_rental_id Foreign key constraint referencing rental.rental_id.

##### Unique keys

	Columns	Name / Description
🔑	payment_id	PK_payment_payment_id Primary key (clustered) constraint
🔑	customer_id	FK_payment_customer_id Unique nonclustered index
🔑	staff_id	FK_payment_staff_id Unique nonclustered index
🔑	rental_id	FK_payment_rental_id Unique nonclustered index

### 3.2 Table: rental

#### Columns

	Name	Data Type	Description
🔑	rental_id	SERIAL	Primary key for rental records.
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of the rental.
🔑	inventory_id	INTEGER	Unique identification number for the inventory.
🔑	customer_id	SMALLINT	Unique identification number for the customer.
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of the return.
🔑	staff_id	SMALLINT	Unique identification number for the staff.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the rental record was last updated.

#### Links to

	Table	Join	Title / Name / Description
➤	Inventory	<b>Rental.inventory_id</b> = inventory.inventory_id	FK_rental_inventory_inventory_id Foreign key constraint referencing inventory.inventory_id
➤	Customer	<b>Rental.customer_id</b> = customer.customer_id	FK_rental_customer_customer_id Foreign key constraint referencing customer.customer_id
➤	staff	<b>Rental.staff_id</b> = staff.staff_id	FK_rental_staff_staff_id Foreign key constraint referencing staff.staff_id

#### Linked from




	Table	Join	Title / Name / Description
⬅	payment	<b>Rental.rental_id</b> = payment.rental_id	FK_payment_rental_rental_id Foreign key constraint referencing rental.rental_id

#### Unique keys



	Columns	Name / Description
🔑	Rental_id	PK_rental_rental_id Primary key (clustered) constraint
🔑	Inventory_id	FK_rental_inventory_id Unique nonclustered index
🔑	Customer_id	FK_rental_customer_id Unique nonclustered index
🔑	Staff_id	FK_rental_staff_id Unique nonclustered index

### 3.3 Table Store




#### Columns

	Name	Data Type	Description
	store_id	SERIAL	Primary key for store records.
	manager_staff_id	SMALLINT	Unique identification number for the staff manager.
	address_id	SMALLINT	Unique identification number for the address.
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date and time the store record was last updated.

#### Links to



	Table	Join	Title / Name / Description
	Manager	<b>Store</b> .manager_staff_id = manager.manager_staff_id	FK_store_manager_manager_staff_id Foreign key constraint referencing manager.manager_staff_id
	address	<b>Store</b> .address_id = address.address_id	FK_store_address_address_id Foreign key constraint referencing address.address_id

#### Unique keys

	Columns	Name / Description
	Store_id	PK_store_store_id Primary key (clustered) constraint
	Manager_staff_id	FK_store_manager_staff_id Unique nonclustered index
	Address_id	AK_store_address_id Unique nonclustered index

### 3.4 Table:

#### film\_actorColumns

	Name	Data Type	Description
	actor_id	SMALLINT	Primary key for actor records.
	film_id	SMALLINT	Unique identification number for the category.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the film actor record was last updated.



Links to

	Table	Join	Title / Name / Description
➤	Actor	<b>Film_actor</b> .actor_id = manager.actor_id	FK_film_actor_manager_actor_id Foreign key constraint referencing manager.actor_id
➤	film	<b>Film_actor</b> .film_id = film.film_id	FK_film_actor_film_film_id Foreign key constraint referencing film.film_id

Unique keys

	Columns	Name / Description
🔑	Actor_id	PK_film_actor_actor_id Primary key (clustered) constraint
🔑	Film_id	FK_film_actor_film_id Unique nonclustered index

### 3.5 Table: inventory

Columns

	Name	Data Type	Description
🔑	inventory_id	SERIAL	Primary key for inventory records.
🔑	film_id	SMALLINT	Unique identification number for the category.
🔑	store_id	SMALLINT	Unique identification number for the category.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the inventory record was last updated.

Links to



	Table	Join	Title / Name / Description
➤	film	<b>Inventory</b> .film_id = film.film_id	FK_inventory_film_film_id Foreign key constraint referencing film.film_id

Linked from



	Table	Join	Title / Name / Description
⬅	rental	<b>Inventory</b> .inventory_id = rental.inventory_id	FK_rental_inventory_inventory_id Foreign key constraint referencing inventory.inventory_id

Unique keys


	Columns	Name / Description
🔑	Inventory_id	PK_inventory_inventory_id Primary key (clustered) constraint

Columns		Name / Description
	Film_id	FK_inventory_film_id Unique nonclustered index
	Store_id	FK_inventory_store_id Unique nonclustered index



### 3.6 Table film\_category

Columns			
	Name	Data Type	Description
	film_id	SMALLINT	Primary key for film records.
	category_id	SMALLINT	Unique identification number for the category.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the film category record was last updated.



#### Links to

	Table	Join	Title / Name / Description
	Film	<b>Film_category.film_id</b> = film.film_id	FK_film_category_film_film_id Foreign key constraint referencing film.film_id
	category	<b>Film_category.category_id</b> = category.category_id	FK_film_category_category_category_id Foreign key constraint referencing category.category_id

#### Unique keys

Columns		Name / Description
	Film_id	PK_film_category_film_id Primary key (clustered) constraint
	Category_id	FK_film_category_category_id Unique nonclustered index

### 3.7 Table:customer

Columns			
	Name	Data Type	Description
	customer_id	SERIAL	Primary key for customer records.
	store_id	SMALLINT	Unique identification number for the category.
	first_name	CHARACTER VARYING(45)	First name of the customer.
	last_name	CHARACTER VARYING(45)	Last name of the customer.

	Name	Data Type	Description
	email	CHARACTER VARYING(45)	Email for the customer.
🔑	address_id	SMALLINT	Unique identification number for the category.
	activebool	BOOLEAN	Customer active status.
	create_date	DATE	Date the customer record was created.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the customer record was last updated.
	active	INTEGER	Customer active number.

Links to

	Table	Join	Title / Name / Description
➤	address	<b>Customer</b> .address_id = address.address_id	FK_customer_address_address_id Foreign key constraint referencing address.address_id

Linked from

	Table	Join	Title / Name / Description
⬅	payment	<b>Customer</b> .customer_id = payment.customer_id	FK_payment_rental_rental_id Foreign key constraint referencing rental.rental_id

Unique keys

	Columns	Name / Description
🔑	Customer_id	PK_customer_customer_id Primary key (clustered) constraint
🔑	Store_id	FK_customer_store_id Unique nonclustered index
🔑	Address_id	AK_customer_address_id Unique nonclustered index

### 3.8 Table: staff

Columns

	Name	Data Type	Description
🔑	staff_id	SERIAL	Primary key for staff records.
	first_name	CHARACTER VARYING(45)	First name of the staff.
	last_name	CHARACTER VARYING(45)	Last name of the staff.
🔑	address_id	SMALLINT	Unique identification number for the address.
	email	CHARACTER VARYING(50)	Email for the staff.
🔑	store_id	SMALLINT	Unique identification number for the store.

	Name	Data Type	Description
	active	BOOLEAN	Staff active status.
	username	CHARACTER VARYING(16)	Username for the staff.
	password	CHARACTER VARYING(40)	Password for the staff.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time the staff record was last updated.
	picture	BYTEA	Picture of the staff.

Links to

	Table	Join	Title / Name / Description
➤	address	<b>Staff</b> .address_id = address.address_id	FK_staff_address_address_id Foreign key constraint referencing address.address_id

Linked from

	Table	Join	Title / Name / Description
⬅	payment	<b>Staff</b> .staff_id = payment.staff_id	FK_payment_staff_staff_id Foreign key constraint referencing staff.staff_id

Unique keys

	Columns	Name / Description
🔑	Staff_id	PK_staff_staff_id Primary key (clustered) constraint
🔑	Address_id	AK_staff_address_id Unique nonclustered index
🔑	Store_id	FK_staff_store_id Unique nonclustered index

### 3.9. Table: actor

Columns

	Name	Data Type	Description
🔑	actor_id	SERIAL	Primary key for actor records.
	first_name	CHARACTER VARYING(45)	First name of the actor.
	last_name	CHARACTER VARYING(45)	Last name of the actor.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time the actor record was last updated.

Linked from

Table	Join	Title / Name / Description
← Film_actor	<b>Actor</b> .actor_id = film_actor.actor_id	FK_film_actor_actor_actor_id Foreign key constraint referencing actor.actor_id

Unique keys

Columns	Name / Description
🔑 Actor_id	PK_actor_actor_id Primary key (clustered) constraint

### 3.10.Table: film

Columns

	Name	Data Type	Description
🔑	film_id	SERIAL	Primary key for film records.
	title	CHARACTER VARYING(255)	Title of the film.
	description	TEXT	Description of the film.
	release_year	Year	Release year of the film.
🔑	language_id	SMALLINT	Unique identification number for the language.
	rental_duration	SMALLINT	Rental duration of the film.
	rental_rate	NUMERIC(4,2)	Rental rate of film.
	length	SMALLINT	Length of the film.
	replacement_cost	NUMERIC(5,2)	Replacement cost of the film.
	rating	Mpaa_rating	Rating of the film.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time the film record was last updated.
	special_features	TEXT[]	Special features of the film.
	fulltext	TSVECTOR	Full text of the film.



Links to

Table	Join	Title / Name / Description
➤ language	<b>Film</b> .language_id = language.language_id	FK_film_language_language_id Foreign key constraint referencing language.language_id

Linked from


Table	Join	Title / Name / Description
← inventory	<b>Film</b> .film_id = inventory.film_id	FK_inventory_film_film_id Foreign key constraint referencing film.film_id

### Unique keys

Columns		Name / Description
	Film_id	PK_film_film_id Primary key (clustered) constraint
	Language_id	FK_film_language_id Unique nonclustered index

### 3.11.Table: category

#### Columns

	Name	Data Type	Description
	category_id	SERIAL	Primary key for category records.
	name	CHARACTER VARYING(25)	Name of the category.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time the category record was last updated.

#### Linked from



	Table	Join	Title / Name / Description
	Film_category	<b>Category</b> .category_id = film_category.category_id	FK_film_category_category_category_id Foreign key constraint referencing category.category_id

### Unique keys

Columns		Name / Description
	Category_id	PK_category_category_id Primary key (clustered) constraint

### 3.12.Table: address

#### Columns

	Name	Data Type	Description
	address_id	SERIAL	Primary key for address records.
	address	CHARACTER VARYING(50)	First street address line.
	address2	CHARACTER VARYING(50)	Second street address line.
	district	CHARACTER VARYING(20)	Name of the district.
	city_id	SMALLINT	Unique identification number for the city.

	Name	Data Type	Description
	postal_code	CHARACTER VARYING(10)	Postal code for the street address.
	phone	CHARACTER VARYING(20)	Phone for this address.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time the address record was last updated.

Links to

	Table	Join	Title / Name / Description
➤	city	<b>Address.city_id</b> = city.city_id	FK_address_city_city_id Foreign key constraint referencing city.city_id

Linked from

	Table	Join	Title / Name / Description
⬅	Customer	<b>Address.address_id</b> = customer.address_id	FK_customer_address_address_id Foreign key constraint referencing address.address_id
⬅	Staff	<b>Address.address_id</b> = staff.address_id	FK_staff_address_address_id Foreign key constraint referencing address.address_id
⬅	store	<b>Address.address_id</b> = store.address_id	FK_store_address_address_id Foreign key constraint referencing address.address_id

Unique keys

	Columns	Name / Description
🔑	Address_id	PK_address_address_id Primary key (clustered) constraint
🔑	City_id	FK_address_city_id Unique nonclustered index

### 3.13.Table: language


Columns

	Name	Data Type	Description
🔑	language_id	SERIAL	Primary key for language records.
	name	CHARACTER(20)	Name of the language.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time the language record was last updated.

Linked from



	Table	Join	Title / Name / Description
⬅	film	<b>Language.language_id</b> = film.language_id	FK_film_language_language_id Foreign key constraint referencing language.language_id

### Unique keys

Columns		Name / Description
	Language_id	PK_language_language_id Primary key (clustered) constraint

### 3.14.Table: city

#### Columns

	Name	Data Type	Description
	city_id	SERIAL	Primary key for city records.
	city	CHARACTER VARYING(50)	Name of the city.
	country_id	SMALLINT	Unique identification number for the country.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time the city record was last updated.



#### Links to

	Table	Join	Title / Name / Description
	country	<b>City</b> .country_id = country.country_id	FK_city_country_country_id Foreign key constraint referencing country.country_id

#### Linked from

	Table	Join	Title / Name / Description
	address	<b>City</b> .city_id = address.city_id	FK_address_city_city_id Foreign key constraint referencing city.city_id

### Unique keys

Columns		Name / Description
	City_id	PK_city_city_id Primary key (clustered) constraint
	Country_id	FK_city_country_id Unique nonclustered index



### 3.15.Table:country

#### Columns

	Name	Data Type	Description
🔑	country_id	SERIAL	Primary key for country records.
	country	CHARACTER VARYING(50)	Name of the country.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time the country record was last updated.

#### Linked from

	Table	Join	Title / Name / Description
↩	city	<b>Country</b> .country_id = city.country_id	FK_city_country_country_id Foreign key constraint referencing country.country_id

#### Unique keys

	Columns	Name / Description
🔑	Country_id	PK_country_country_id Primary key (clustered) constraint