

# Rockbuster Stealth Data Analysis



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## 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.

### Legends


-  Primary key
-  Foreign key
-  Composite key
-  Links to
-  Linked from

## 2. Entity Relationship Diagram




## 3. Tables



### 3.1 Actor

Key	Column	Date Type	Description
	actor_id	SERIAL	Number given to actors
	first_name	CHARACTER VARYING(45)	First name of actor
	last_name	CHARACTER VARYING(45)	Last name of actor
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date/Time of last entry




#### Linked From

	Table	Join	Description
	film_actor	film_actor.actor_id = actor.actor_id	Foreign key constraint referencing actor.actor_id


### 3.2 Address

key	Column	Date Type	Description
	address_id	SERIAL	Number given to address
	address	CHARACTER VARYING(50)	First line of address
	address2	CHARACTER VARYING(50)	Second line of address
	district	CHARACTER VARYING(20)	District name
	city_id	SMALLINT	Number given to city
	postal_code	CHARACTER VARYING(10)	Postal code
	phone	CHARACTER VARYING(20)	Phone number
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date/Time of last entry


#### Linked From

	Table	Join	Description
	customer	customer.address_id = address.address_id	Foreign key constraint referencing address.address_id
	staff	staff.address_id = address.address_id	Foreign key constraint referencing address.address_id
	store	store.address_id = address.address_id	Foreign key constraint referencing address.address_id


#### Links to

	Table	Join	Description
	city	address.city_id = city.city_id	Foreign key constraint referencing city.city_id



### 3.3 Category

Key	Column	Date Type	Description
	category_id	SERIAL	Number given to category
	name	CHARACTER VARYING(20)	Category name
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date/Time of last entry


#### Linked From

	Table	Join	Description
	film_category	film_category.category_id = category.category_id	Foreign key constraint referencing category.category_id


### 3.4 City

key	Column	Date Type	Description
	city_id	SERIAL	Number given to city
	city	CHARACTER VARYING(50)	City name
	country_id	SMALLINT	Number given to country
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date/Time of last entry


#### Linked From

	Table	Join	Description
	address	address.city_id = city.city_id	Foreign key constraint referencing city.city_id


#### Links to

	Table	Join	Description
	country	city.country_id = country.country_id	Foreign key constraint referencing country.country_id




### 3.5 Country

key	Column	Date Type	Description
	country_id	SERIAL	Number given to country
	country	CHARACTER VARYING(50)	Country name
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date/Time of last entry

#### Linked From

	Table	Join	Description
	city	city.country_id = country.country_id	Foreign key constraint referencing country.country_id

### 3.6 Customer

key	Column	Date Type	Description
	customer_id	SERIAL	Number given to customer
	store_id	SMALLINT	Number given to store
	first_name	CHARACTER VARYING(50)	First name of customer
	last_name	CHARACTER VARYING(50)	Last name of customer
	email	CHARACTER VARYING(50)	Mail id of customer
	address_id	SMALLINT	Number given to address
	activebool	BOOLEAN	Whether the customer is active or

			not?
	create_date	DATE	Date when the entry is created
	active	INTEGER	Whether the customer is active or not?
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date/Time of last entry

#### Linked From

	Table	Join	Description
→	payment	payment.customer_id = customer.customer_id	Foreign key constraint referencing customer.customer_id
→	rental	rental.customer_id = customer.customer_id	Foreign key constraint referencing customer.customer_id

#### Links to

	Table	Join	Description
←	address	customer.address_id = address.address_id	Foreign key constraint referencing address.address_id

### 3.7 Film

key	Column	Data Type	Description
🔑	film_id	SERIAL	Number given to
	title	CHARACTER VARYING(25)	Title of the film
	description	TEXT	Description about the film
	release_year	YEAR	Year when film is released
🔑	language_id	SMALLINT	Number given to language
	rental_duration	SMALLINT	How many days film is rented by customer
	rental_rate	NUMERIC(4,2)	Price of film
	length	SMALLINT	Length of film
	replacement_cost	NUMERIC(5,2)	Cost of replacement
	rating	MPAA RATING	Film rating
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date/Time of last entry
	special_features	TEXT()	Special features
	fulltext	TSVECTOR	Text describing the film

#### Linked From

	Table	Join	Description
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→	film_category	film_category.film_id = film..film_id	Foreign key constraint referencing film..film_id
→	film_actor	film_actor.film_id = film..film_id	Foreign key constraint referencing film..film_id
→	inventory	inventory.film_id = film..film_id	Foreign key constraint referencing film..film_id

Links to

	Table	Join	Description
←	language	film.language_id = language.language_id	Foreign key constraint referencing language.language_id

### 3.8 Film actor

key	Column	Date Type	Description
🔑	actor-id	SMALLINT	Number given to actor
🔑	film_id	SMALLINT	Number given to film
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date/Time of last entry

Links to

	Table	Join	Description
←	actor	film.actor.actor_id = actor.actor_id	Foreign key constraint referencing actor.actor_id
←	film	film.actor.film_id = film.film_id	Foreign key constraint referencing film.film_id

### 3.9 Film category



key	Column	Date Type	Description
🔑	film_id	SMALLINT	Number given to film
🔑	category_id	SMALLINT	Number given to category of film
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date/Time of last entry

Links to


	Table	Join	Description
←	category	film.category.category_id = category.category_id	Foreign key constraint referencing category.category_id
←	film	film.category.film_id = film.film_id	Foreign key constraint referencing film.film_id




### 3.10 Inventory

key	Column	Date Type	Description
	inventory_id	SERIAL	Number given to inventory
	film_id	SMALLINT	Number given to film
	store_id	SMALLINT	Number given to store
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date/Time of last entry


#### Linked From

	Table	Join	Description
	rental	rental.inventory_id = inventory. inventory_id	Foreign key constraint referencing inventory. inventory_id


#### Links to

	Table	Join	Description
	film	inventory .film_id =film.film_id	Foreign key constraint referencing film.film_id





### 3.11 Language

key	Column	Date Type	Description
	language_id	SERIAL	Number given to language
	name	CHARACTERVARYING(20)	Name of the language
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date/Time of last entry

#### Linked From

	Table	Join	Description
	film	film.language_id = language. language_id	Foreign key constraint referencing language. language_id

### 3.12 Payment

key	Column	Date Type	Description
	payment_id	SERIAL	Number given to payment
	customer_id	SMALLINT	Number given to customer
	staff_id	SMALLINT	Number given to staff
	rental_id	INTEGER	Number given to rent
	amount	NUMERIC(5,2)	Rental amount received
	payment_date	TIMESTAMP(6) WITHOUT TIMEZONE	Date when payment is done

### Links to

	Table	Join	Description
←	customer	payment.customer_id = customer.customer_id	Foreign key constraint referencing customer.customer_id
←	rental	payment.rental_id = rental.rental_id	Foreign key constraint referencing rental.rental_id
←	staff	payment.staff_id = staff.staff_id	Foreign key constraint referencing staff.staff_id

### 3.13 Rental

key	Column	Date Type	Description
🔑	rental_id	SERIAL	Number given to rent
	rental_date	TIMESTAMP(6) WITHOUT TIMEZONE	Date when film is rented
🔑	inventory_id	INTEGER	Number given to inventory
🔑	customer_id	SMALLINT	Number given to customer
	return_date	TIMESTAMP(6) WITHOUT TIMEZONE	Date when film is returned
🔑	staff_id	SMALLINT	Number given to staff
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date/Time of last entry



### Linked From

	Table	Join	Description
→	payment	payment.rental_id = rental.rental_id	Foreign key constraint referencing rental.rental_id




### Links to

	Table	Join	Description
←	customer	rental.customer_id = customer.customer_id	Foreign key constraint referencing customer.customer_id
←	inventory	rental.inventory_id = inventory.inventory_id	Foreign key constraint referencing inventory.inventory_id
←	staff	rental.staff_id = staff.staff_id	Foreign key constraint referencing staff.staff_id


### 3.14 Staff

key	Column	Date Type	Description
	staff_id	SERIAL	Number given to
	first_name	CHARACTERVARYING(45)	First Name of staff
	last_name	CHARACTERVARYING(45)	Last name of staff
	address_id	SMALLINT	Number given to address
	email	CHARACTERVARYING(50)	Mail id of staff
	store_id	SMALLINT	Number given to store
	active	BOOLEAN	Is the staff active or not?
	username	CHARACTERVARYING(16)	Username of the staff
	password	CHARACTERVARYING(40)	Password of the staff
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date/Time of last entry
	picture	BYTEA	Photo of the staff




#### Linked From

	Table	Join	Description
	payment	payment.staff_id = staff.staff_id	Foreign key constraint referencing staff.staff_id
	store	store.staff_id =staff.staff_id	Foreign key constraint referencing staff.staff_id
	rental	rental.staff_id =staff.staff_id	Foreign key constraint referencing staff.staff_id


#### Links to

	Table	Join	Description
	address	staff.address_id= address .address_id	Foreign key constraint referencing address .address_id

### 3.15 Store

Key	Column	Date Type	Description
	store_id	SERIAL	Number given to store
	manager_staff_id	SMALLINT	Number given to manager
	address_id	SMALLINT	Number given to address
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date/Time of last entry

#### Links to

	Table	Join	Description
	address	store.address_id= address .address_id	Foreign key constraint referencing

			address .address_id
←	staff	store.staff_id=staff.staff_id	Foreign key constraint referencing staff.staff_id