

Rockbuster Stealth LLC

Data Dictionary

Created by Jennyfer Vik
June 2023

Table of Contents

Rockbuster Stealth LLC.....	3
Entity Relationship Diagram.....	4
Fact Tables.....	5
Rental Table.....	5
Payment Table.....	6
Dimension Tables.....	7
Film Category Table.....	7
Customer Table.....	7
Staff Table.....	8
Category Table.....	9
Film Table.....	10
Language Table.....	11
Inventory Table.....	11
Film Actor Table.....	12
Actor Table.....	12
Store Table.....	13
Address Table.....	13
City Table.....	14
Country Table.....	15

Rockbuster Stealth LLC

Rockbuster Stealth LLC is a movie rental company planning to launch an online video rental service. Previously having store locations, Rockbuster already owns a large quantity of movie licenses, and has well as an established customer base, the data of which can be analyzed for business strategy.

Entity Relationship Diagram



Powered by yFiles



Primary Key



Foreign Key

Fact Tables

Rental Table

	Column	Data Type	Description
	rental_id	Serial	The unique id attached to each rental as an identifier.
	rental_date	Timestamp(6) without time zone	Date the film was rented.
	inventory_id	Integer	The unique id attached to each inventory item as an identifier.
	customer_id	Smallint	The unique id attached to each customer as an identifier.
	return_date	Timestamp(6) without time zone	Date film was returned.
	staff_id	Smallint	The unique id attached to each staff member as an identifier.
	last_update	Timestamp(6) without time zone	Date of the last time the rental information was updated.

Links to

Table	Join	Description
inventory	rental.inventory_id = inventory.inventory_id	Foreign key linking to the inventory table
customer	rental.customer_id = customer.customer_id	Foreign key linking to the customer table
staff	rental.staff_id = staff.staff_id	Foreign key linking to the staff table

Links From

Table	Join	Description
payment	payment.rental_id = rental.rental_id	Foreign key reference from the payment table

Unique Keys

Column	Description
rental_id	Primary Key
inventory_id	Foreign Key
customer_id	Foreign Key
Staff_id	Foreign Key

Payment Table

	Column	Data Type	Description
	payment_id	Serial	The unique id attached to each payment as an identifier.
	customer_id	Smallint	The unique id attached to each customer as an identifier.
	staff_id	Smallint	The unique id attached to each staff member as an identifier.
	rental_id	Integer	The unique id attached to each rental as an identifier.
	amount	Numeric(5,2)	The amount that was paid.
	payment_date	Timestamp(6) without time zone	The date the payment was made.

Links to

Table	Join	Description
rental	rental.inventory_id = inventory.inventory_id	Foreign key linking to the rental table
customer	payment.customer_id = customer.customer_id	Foreign key linking to the customer table
staff	paymwnt.staff_id = staff.staff_id	Foreign key linking to the staff table

Links From

The payment table does not link from any other table.

Unique Keys

Column	Description
payment_id	Primary Key
customer_id	Foreign Key
staff_id	Foreign Key
rental_id	Foreign Key

Dimension Tables

Film Category Table

	Column	Data Type	Description
	film_id	Smallint	The unique id attached to each film as an identifier.
	category_id	Smallint	The unique id attached to each category as an identifier.
	last_update	Timestamp (6) without time zone	Date of when the film was updated in the system.

Links to

Table	Join	Description
Film	film_category.film_id = film.film_id	Foreign key linking to the film table
Category	film_category.category_id = category.category_id	Foreign key linking to the category table

Links From

The film category table does not link from any other table.

Unique Keys

Column	Description
film_id	Primary & Foreign Key
category_id	Primary & Foreign Key

Customer Table

	Column	Data Type	Description
	customer_id	Serial	The unique id attached to each customer as an identifier.
	store_id	Smallint	The unique id attached to each store as an identifier.
	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	The unique id attached to each customer address as an identifier.
	activebool	Boolean	Notes whether the customer is active or not
	create_date	Date	The date the customer created an account
	last_update	Timestamp(6) without time zone	Date of the last update on the account

	active	Integer	Integers assigned to whether the customer is active or not
--	--------	---------	--

Links to

Table	Join	Description
Address	customer.address_id = address.address_id	Foreign key linking to the address table

Links From

Table	Join	Description
rental	rental.customer_id = customer.customer_id	Foreign key reference from the rental table
payment	payment.customer_id = customer.customer_id	Foreign key reference from the payment table

Unique Keys

Column	Description
customer_id	Primary Key
address_id	Foreign Key

Staff Table

	Column	Data Type	Description
	staff_id	Serial	The unique id attached to each staff member as an identifier.
	first_name	Character Varying (45)	Staff member's first name.
	last_name	Character Varying (45)	Staff member's last name.
	address_id	Smallint	The unique id attached to each store address as an identifier.
	email	Character Varying (50)	Staff member's email address.
	store_id	Smallint	The unique id attached to each store as an identifier.
	active	Boolean	Notes whether the staff member is active or not
	username	Character Varying (16)	Staff member's username.
	password	Character Varying (40)	Staff member's password.
	last_update	Timestamp(6) without time zone	Date of when staff member's information was updated.
	picture	Bytea	Photo of the staff member.

Links to

Table	Join	Description
Address	staff.address_id = address.address_id	Foreign key linking to the address table

Links From

Table	Join	Description
payment	payment.staff_id = staff.staff_id	Foreign key reference from the payment table
rental	rental.staff_id = staff.staff_id	Foreign key reference from the rental table
store	store.staff_id = staff.staff_id	Foreign key reference from the store table

Unique Keys

Column	Description
staff_id	Primary Key
address_id	Foreign Key

Category Table

	Column	Data Type	Description
	category_id	Serial	The unique id attached to each category as an identifier.
	name	Character Varying (25)	Name of the category.
	last_update	Timestamp(6) without time zone	Date of the last time the category was updated.

Links to

The Category table does not link to any other table.

Links From

Table	Join	Description
film_category	film_category.category_id = category.category_id	Foreign key reference from the film category table

Unique Keys

Column	Description
category_id	Primary Key

Film Table

	Column	Data Type	Description
	film_id	Serial	The unique id attached to each film as an identifier.
	title	Character Varying (255)	Film title.
	description	Text	Description of the film.
	Release_year	Year	Year the film was released.
	language_id	Smallint	The unique id attached to a film's language as an identifier.
	rental_duration	Smallint	Length of the rental.
	rental_rate	Numeric(4,2)	The cost of each rental.
	length	Smallint	Length of the film.
	replacement_cost	Numeric(5,2)	Cost to replace the film.
	rating	mpaa_rating	Film rating.
	last_update	Timestamp(6) without time zone	Date of the last time the film information was updated.
	special_features	Text[]	Additional special features included in the film/rental.
	fulltext	Tsvector	Key search words for film.

Links to

Table	Join	language
language	film.language_id = language.language_id	Foreign key linking to the address table

Links From

Table	Join	Description
film_category	film_category.language_id = language.language_id	Foreign key reference from the film category table

Unique Keys

Column	Description
film_id	Primary Key
language_id	Foreign Key

Language Table

	Column	Data Type	Description
	language_id	Serial	The unique id attached to each language as an identifier.
	name	Character Varying (20)	The name of the language.
	last_update	Timestamp(6) without time zone	Date of the last time the language information was updated.

Links to

The language table does not link to any other table.

Links From

Table	Join	Description
film	film.language_id = language.language_id	Foreign key reference from the film table

Unique Keys

Column	Description
language_id	Primary Key

Inventory Table

	Column	Data Type	Description
	inventory_id	Serial	The unique id attached to each inventory item as an identifier.
	film_id	Smallint	The unique id attached to each film as an identifier.
	store_id	Smallint	The unique id attached to each store as an identifier.
	last_update	Timestamp(6) without time zone	Date of the last time the inventory item's information was updated.

Links to

Table	Join	Description
film	inventory.film_id = film.film_id	Foreign key linking to the film table

Links From

Table	Join	Description
rental	rental.inventory_id = inventory.inventory_id	Foreign key reference from the rental table

Unique Keys

Column	Description
inventory_id	Primary Key
film_id	Foreign Key

Film Actor Table

	Column	Data Type	Description
	actor_id	Smallint	The unique id attached to each actor as an identifier.
	film_id	Smallint	The unique id attached to each film as an identifier.
	last_update	Timestamp(6) without time zone	Date of the last time the actor information was updated.

Links to

Table	Join	language
actor	film_actor.actor_id = actor.actor_id	Foreign key linking to the actor table
film	film_actor.film_id = film.film_id	Foreign key linking to the film table

Links From

The film actor table does not link from any other table.

Unique Keys

Column	Description
actor_id	Primary & Foreign Key
film_id	Primary & Foreign Key

Actor Table

	Column	Data Type	Description
	actor_id	Serial	The unique id attached to each actor as an identifier.
	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	Date of the last time the actor information was updated.

Links to

The actor table does not link to any other table.

Links From

Table	Join	Description
film_actor	film_actor.actor_id = actor.actor_id	Foreign key reference from the film_actor table

Unique Keys

Column	Description
actor_id	Primary Key

Store Table

	Column	Data Type	Description
	store_id	Serial	The unique id attached to each store as an identifier.
	staff_id	Smallint	The unique id attached to each staff member as an identifier.
	address_id	Smallint	The unique id attached to each store's address as an identifier.
	last_update	Timestamp(6) without time zone	Date of the last time the store information was updated.

Links to

Table	Join	language
staff	store.staff_id = staff.staff_id	Foreign key linking to the staff table
address	store.address_id = address.address_id	Foreign key linking to the address table

Links From

The store table does not link from any other table.

Unique Keys

Column	Description
store_id	Primary Key
staff_id	Foreign Key
address_id	Foreign Key

Address Table

	Column	Data Type	Description
	address_id	Serial	The unique id attached to each store address as an identifier.
	address	Character Varying (50)	Address of the store
	address2	Character Varying (50)	Address of the store
	district	Character Varying (20)	District of the store
	city_id	Smallint	The unique id attached to each city as an identifier.
	postal_code	Character Varying (10)	Postal code of the store

	phone	Character Varying (20)	Phone number of the store
	last_update	Timestamp(6) without time zone	Date of the last time the store address information was updated.

Links to

Table	Join	Description
city	address.city_id = city.city_id	Foreign key linking to the city table

Links From

Table	Join	Description
customer	customer.address_id = address.address_id	Foreign key reference from the rental table
store	store.address_id = address.address_id	Foreign key reference from the store table
staff	staff.address_id = address.address_id	Foreign key reference from the staff table

Unique Keys

Column	Description
address_id	Primary Key
city_id	Foreign Key

City Table

	Column	Data Type	Description
	city_id	Serial	The unique id attached to each city as an identifier.
	city	Character Varying (50)	Name of the city
	country_id	Smallint	The unique id attached to each country as an identifier.
	last_update	Timestamp(6) without time zone	Date of the last time the city information was updated.

Links to

Table	Join	Description
country	city.country_id = country.country_id	Foreign key linking to the country table

Links From

Table	Join	Description
address	address.city_id = city.city_id	Foreign key reference from the address table

Unique Keys

Column	Description
city_id	Primary Key
country_id	Foreign Key

Country Table

	Column	Data Type	Description
	country_id	Serial	The unique id attached to each country as an identifier.
	country	Character Varying (50)	Name of the country.
	last_update	Timestamp(6) without time zone	Date of the last time the country information was updated.

Links to

The country table does not link to any other table.

Links From

Table	Join	Description
city	city.country_id = country.country_id	Foreign key reference from the city table

Unique Keys

Column	Description
country_id	Primary Key