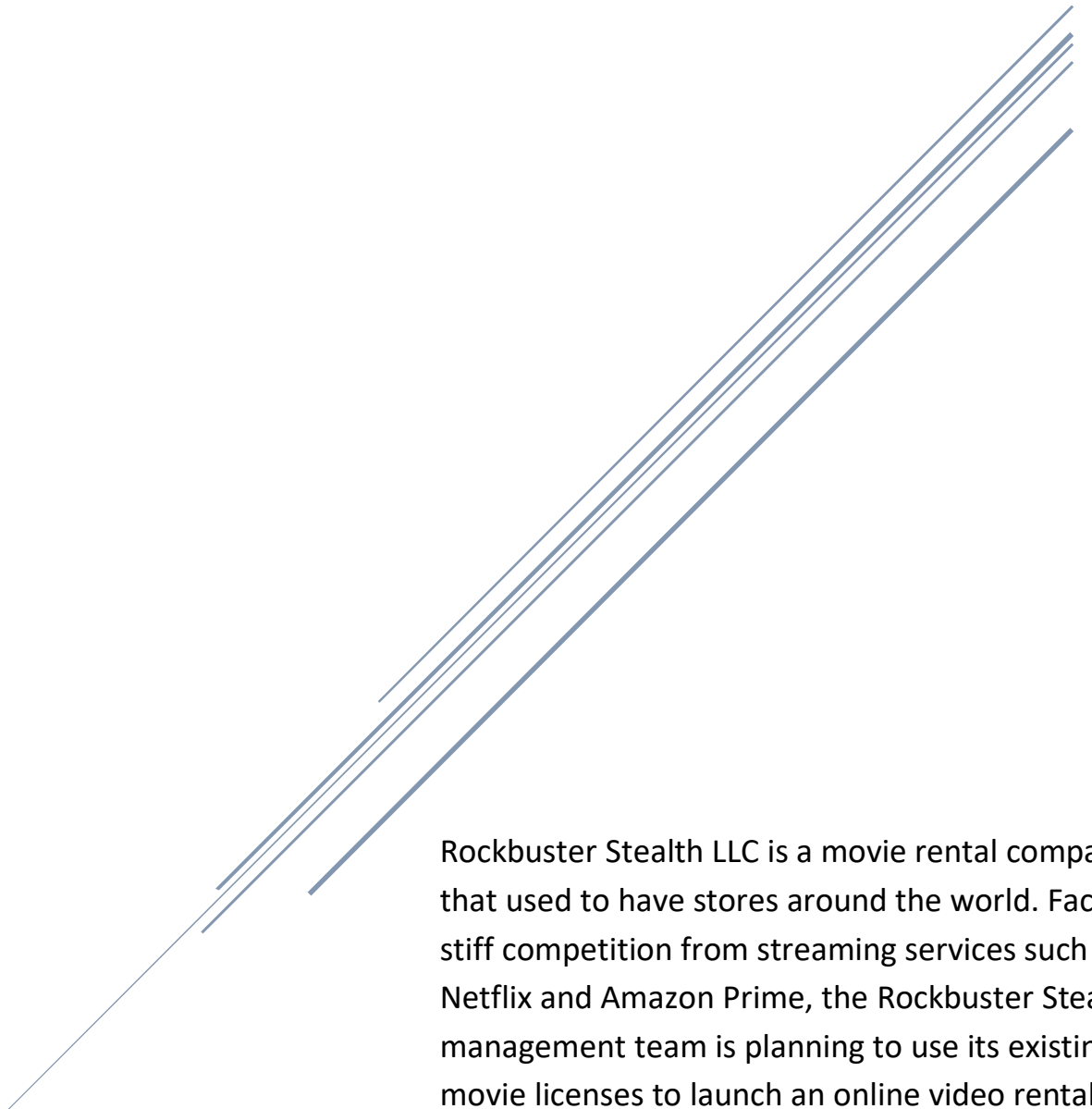


ROCKBUSTER STEALTH LLC

Data Dictionary



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.

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1. Entity Relationship Diagram (ERD)



2. Fact Tables

Table: Payment

Column	Key	Data Type	Description
payment_id	Primary	SERIAL	Primary Key, unique serial number for each transaction
customer_id	Foreign	SMALLINT	Unique identifier for customer
staff_id	Foreign	SMALLINT	Unique identifier for staff member
rental_id	Foreign	INTEGER	Unique identifier for rental
amount		NUMERIC (5,2)	Cost of rental
payment_date		TIMESTAMP(6) WITHOUT TIME ZONE	Time and date payment was made

Links to

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

Links from

This table does not link from any tables.

Table: Rental

Column	Key	Data Type	Description
rental_id	Primary	SERIAL	Primary Key, unique serial number for each rental
rental_date		TIMESTAMP(6) WITHOUT TIME ZONE	Date and time rental was made
inventory_id	Foreign	INTEGER	Unique identifier of inventory
customer_id	Foreign	SMALLINT	Unique identifier for customer
return_date		TIMESTAMP(6) WITHOUT TIME ZONE	Date and time rental was returned
staff_id	Foreign	SMALLINT	Unique identifier for staff member
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Time of last update

Links to

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

Links from

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

3. Dimension Tables

Table: Store

Column	Key	Data Type	Description
store_id	Primary	SERIAL	Primary Key, unique serial number for each store
manager_staff_id	Foreign	SMALLINT	Unique identifier for store manager
address_id	Foreign	SMALLINT	Unique identifier for store address
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Time of last update

Links to

Table	Join	Description
Staff	store.store_id = staff.store_id	Foreign key constraint referencing staff.store_id
Address	store.address_id = address.address_id	Foreign key constraint referencing address.address_id

Links from

This table does not link from any tables.

Table: Staff

Column	Key	Data Type	Description
staff_id	Primary	SERIAL	Primary Key, unique serial number for staff members
first_name		CHARACTER VARYING (45)	First name of staff member
last_name		CHARACTER VARYING (45)	Last name of staff member
address_id	Foreign	SMALLINT	ID of store address
email		CHARACTER VARYING (50)	Email of staff member
store_id		SMALLINT	Unique identifier for store address
active		BOOLEAN	Note if staff member is active
username		CHARACTER VARYING (16)	Username for staff member
password		CHARACTER VARYING (40)	Password for staff member login
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Time of last update
picture		BYTEA	Picture of staff member

Links to

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

Links from

Table	Join	Description
Store	staff.store_id = store.store_id	Foreign key constraint referencing store.store_id

Table: Address

Column	Key	Data Type	Description
address_id	Primary	SERIAL	Primary Key, unique serial number for each store address
address		CHARACTER VARYING (50)	First line of address
address2		CHARACTER VARYING (50)	Second line of address
district		CHARACTER VARYING (20)	District of address
city_id	Foreign	SMALLINT	Unique identifier for store city
postal_code		CHARACTER VARYING (10)	Postal code for address
phone		CHARACTER VARYING (20)	Phone number
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Time of last update

Links to

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

Links from

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

Table: City

Column	Key	Data Type	Description
city_id	Primary	SERIAL	Primary Key, unique serial number for each city
city		CHARACTER VARYING (50)	City name
country_id	Foreign	SMALLINT	Unique identifier for store country
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Time of last update

Links to

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

Links from

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

Table: Country

Column	Key	Data Type	Description
country_id	Primary	SERIAL	Primary Key, unique serial number for each country
country		CHARACTER VARYING (50)	Country name
last_update		CHARACTER VARYING (50)	Time of last update

Links to

This table does not link to any tables.

Links from

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

Table: Customer

Column	Key	Data Type	Description
customer_id	Primary	SERIAL	Primary Key, unique serial number for each customer
store_id		SMALLINT	Unique identifier for each store
first_name		CHARACTER VARYING (45)	First name of customer
last_name		CHARACTER VARYING (45)	Last name of customer
email		CHARACTER VARYING (50)	Email of customer
address_id	Foreign	SMALLINT	Unique identifier for each customer address
activebool		BOOLEAN	Note if customer is active
create_date		DATE	Date customer account started
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Time of last update
active		INTEGER	Activity status by integer

Links to

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

Links from

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

Table: Film_category

Column	Key	Data Type	Description
film_id	Primary/Foreign	SMALLINT	Primary Key, unique identifier for each film
category_id	Primary/Foreign	SMALLINT	Primary Key, unique identifier for each category of film
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Time of last update

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

Links from

This table does not link from any tables.

Table: Category

Column	Key	Data Type	Description
category_id	Primary	SERIAL	Primary Key, unique serial number for each category of film
name		CHARACTER VARYING (25)	Name of category
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Time of last update

Links to

This table does not link to any tables.

Links from

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

Table: Inventory

Column	Key	Data Type	Description
inventory_id	Primary	SERIAL	Primary Key, unique serial number for inventory of films
film_id	Foreign	SMALLINT	Unique identifier for each film
store_id		SMALLINT	Unique identifier for each store
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Time of last update

Links to

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

Links from

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

Table: Film_actor

Column	Key	Data Type	Description
actor_id	Primary/Foreign	SMALLINT	Primary Key, unique identifier for actor
film_id	Primary/Foreign	SMALLINT	Primary Key, unique identifier for film
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Time of last update

Links to

Table	Join	Description
Actor	film_actor.actor_id = actor.actor_id	Foreign key constraint referencing actor.actor_id
Film_category	film_actor.film_id = film_category.film_id	Foreign key constraint referencing film_category.film_id

Links from

This table does not link from any tables.

Table: Actor

Column	Key	Data Type	Description
actor_id	Primary	SERIAL	Primary Key, unique serial number for each actor
first_name		CHARACTER VARYING (45)	First name of actor
last_name		CHARACTER VARYING (45)	Last name of actor
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Time of last update

Links to

This table does not link to any tables.

Links from

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

Table: Film

Column	Key	Data Type	Description
film_id	Primary	SERIAL	Primary Key, unique serial number for each film
title		CHARACTER VARYING (255)	Title of film
description		TEXT	Description of film
release_year		year	Year film was released
language_id	Foreign	SMALLINT	Unique identifier of language used in film
rental_duration		SMALLINT	Duration of rental period
rental_rate		NUMERIC(4,2)	Cost of film rental
length		SMALLINT	Length of film
replacement_cost		NUMERIC(5,2)	Cost to replace film rental
rating		mpaa_rating	Rating of film
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Time of last update
special_features		TEXT()	Special features of film
fulltext		TSVECTOR	Full text index

Links to

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

Links from

Table	Join	Description
Film_actor	film.film_id = film_actor.film_id	Foreign key constraint referencing film_actor.film_id
Inventory	film.film_id = inventory.film_id	Foreign key constraint referencing inventory.film_id
Film_category	film.film_id = film_category.film_id	Foreign key constraint referencing film_category.film_id

Table: Language

Column	Key	Data Type	Description
language_id	Primary	SERIAL	Primary Key, unique serial number of language used in film
name		CHARACTER VARYING (20)	Name of language used in film
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Time of last update

Links to

This table does not link to any tables.

Links from

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