

ROCKBUSTER STEALTH LLC

DATA DICTIONARY

October 10, 2023

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1. LEGEND



Key



Foreign Key

2. ROCKBUSTER STEALTH LLC

Rockbuster Stealth LLC is a movie rental company. The dataset includes a wide variety of information including but not limited to film inventory, customer data, payments, and store information¹.

¹ Download the Rockbuster Stealth LLC database [here](#).

3. ENTITY RELATIONSHIP DIAGRAM (ERD)



The tables do not all link to one central table, and instead branch out with tables having sub-dimension tables.





4. TABLES

4.1 FACT TABLES

4.1.1 Payment Table

Information on payments made for rentals.

Columns

	Name	Data Type	Description
	payment_id	SERIAL	Unique identification number for payment transaction.
	customer_id	SMALLINT	Unique identification number for customer.
	staff_id	SMALLINT	Unique identification number for staff member.
	rental_id	INTEGER	Unique identification number for rental transaction.
	amount	NUMERIC(5,2)	Monetary amount of payment.
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of payment.

Links To

Table	Join
customer	payment.customer_id = customer.customer_id
staff	payment.staff_id = staff.staff_id
rental	payment.rental_id = rental.rental_id





Linked From

Does not link from any table.

4.1.2 Rental Table

Information on the rentals.

Columns

	Name	Data Type	Description
	rental_id	SERIAL	Unique identification number for rental.
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of rental.
	inventory_id	INTEGER	Unique identification number for film in inventory.
	customer_id	SMALLINT	Unique identification number for customer making rental.
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of return of rental.
	staff_id	SMALLINT	Unique identification number for staff member.

Name	Data Type	Description
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time data was updated.

Links To

Table	Join
inventory	rental.inventory_id = inventory.inventory_id
customer	rental.customer_id = customer.customer_id
staff	rental.staff_id = staff.staff_id

Linked From



Table	Join
payment	payment.rental_id = rental.rental_id

4.2 DIMENSION TABLES

4.2.1 Inventory Table

Information on film and store inventory.

Columns

	Name	Data Type	Description
	inventory_id	SERIAL	Unique identification number for inventory.
	film_id	SMALLINT	Unique identification number for film.
	store_id	SMALLINT	Unique identification number for store.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time data was updated.

Links To

Table	Join
film	inventory.film_id = film.film_id


Linked From


Table	Join
rental	rental.inventory_id = inventory.inventory_id

4.2.2 Film Table

Information on the films.

Columns

	Name	Data Type	Description
	film_id	SERIAL	Unique identification number for film.
	title	CHARACTER VARYING(255)	Title of film.
	description	TEXT	Description of film.

	Name	Data Type	Description
	release_year	year	Year the film was released.
	language_id	SMALLINT	Unique identification number for the language of the film.
	rental_duration	SMALLINT	Number of days the film was rented for.
	rental_rate	NUMERIC(4,2)	Monetary cost per day to rent film.
	length	SMALLINT	Length of film in minutes.
	replacement_cost	NUMERIC(5,2)	Monetary cost to replace film.
	rating	mpaa_rating	Motion Picture Association of America parental rating of film.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time data was updated.
	special_features	TEXT[]	List of special features included in rental.
	fulltext	TSVECTOR	Keywords for search engine to find film.

Links To

Table	Join
language	film.language_id = language.language_id

Linked From

Table	Join
film_actor	film_actor.film_id = film.film_id
inventory	inventory.film_id = film.film_id
film_category	Film_category.film_id = film.film_id

4.2.3 Language Table

Information on the language films are in.

Columns

	Name	Data Type	Description
	language_id	SERIAL	Unique identification number for film language.
	name	CHARACTER(20)	Name of language.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time data was updated.

Links To

Does not link to any table.




Linked From

Table	Join
film	film.language_id = language.language_id

4.2.4 Film_actor Table

Defining identification numbers and links for films and actors/actresses.

Columns

	Name	Data Type	Description
	actor_id	SMALLINT	Unique identification number for actor/actress.
 	film_id	SMALLINT	Unique identification number for film.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time data was updated.

Links To

Table	Join
actor	film_actor.actor_id = actor.actor_id
film	film_actor.film_id = film.film_id


Linked From

Does not link from any table.

4.2.5 Actor Table

Information on the actors/actresses in films.

Columns

	Name	Data Type	Description
	actor_id	SERIAL	Unique identification number for actor/actress.
	first_name	CHARACTER VARYING(45)	First name of actor/actress.
	last_name	CHARACTER VARYING(45)	Last name of actor/actress.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time data was updated.

Links To

Does not link to any table.

Linked From

Table	Join
film_actor	film_actor.actor_id = actor.actor_id

4.2.6 Film_category Table

Defining identification numbers and links for film categories.

Columns

	Name	Data Type	Description
	film_id	SMALLINT	Unique identification number for film.

	Name	Data Type	Description
	category_id	SMALLINT	Unique identification number for film category.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time data was updated.

Links To

Table	Join
film	film_category.film_id = film.film_id
category	film_category.category_id = category.category_id


Linked From

Does not link from any table.

4.2.7 Category Table

Information on the film categories.

Columns

	Name	Data Type	Description
	category_id	SERIAL	Unique identification number for film category.
	name	CHARACTER VARYING(25)	Name of film category.
	last_name	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time data was updated.

Links To

Does not link to any table.



Linked From

Table	Join
film_category	film_category.category_id = category.category_id

4.2.8 Customer Table

Information on the customers.

Columns

	Name	Data Type	Description
	customer_id	SERIAL	Unique identification number for customer.
	store_id	SMALLINT	Unique identification number for store.
	first_name	CHARACTER VARYING(45)	First name of customer.
	last_name	CHARACTER VARYING(45)	Last name of customer.
	email	CHARACTER VARYING(50)	Email address of customer.
	address_id	SMALLINT	Unique identification number for customer address.
	activebool	BOOLEAN	True/False result if customer is active or inactive.

	Name	Data Type	Description
	create_date	DATE	Date customer record was created.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time data was updated.
	active	INTEGER	1/0 result if customer is active or inactive.

Links To

Table	Join
address	customer.address_id = address.address_id



Linked From

Table	Join
payment	payment.customer_id = customer.customer_id
rental	rental.customer_id = customer.customer_id

4.2.9 Staff Table

Information on the staff.

Columns

	Name	Data Type	Description
	staff_id	SERIAL	Unique identification number for staff member.
	first_name	CHARACTER VARYING(45)	First name of staff member.
	last_name	CHARACTER VARYING(45)	Last name of staff member.
	address_id	SMALLINT	Unique identification number for staff member address.
	email	CHARACTER VARYING(50)	Email of staff member.
	store_id	SMALLINT	Unique identification number for store.
	active	BOOLEAN	True/False result if staff member is active.
	username	CHARACTER VARYING(16)	Username of staff member.
	password	CHARACTER VARYING(40)	Password of staff member.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time data was updated.

Links To

Table	Join
address	staff.address_id = address.address_id




Linked From

Table	Join
payment	payment.staff_id = staff.staff_id
rental	rental.staff_id = staff.staff_id
store	store.manager_staff_id = staff.staff_id

4.2.10 Store Table

Information on the stores.

Columns

	Name	Data Type	Description
	store_id	SERIAL	Unique identification number for store.
	manager_staff_id	SMALLINT	Unique identification number for staff manager.
	address_id	SMALLINT	Unique identification number for store address.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time data was updated.

Links To

Table	Join
staff	store.manager_staff_id = staff.staff_id
address	store.address_id = address.address_id



Linked From

Does not link from any table.

4.2.11 Address Table

Information on the addresses of customers, staff, and stores.

Columns

	Name	Data Type	Description
	address_id	SERIAL	Unique identification number for address.
	address	CHARACTER VARYING(50)	Street of address.
	address2	CHARACTER VARYING(50)	Secondary address. Null column.
	district	CHARACTER VARYING(20)	Name of district in address.
	city_id	SMALLINT	Unique identification number of city in address.
	postal_code	CHARACTER VARYING(10)	Postal code of address.
	phone	CHARACTER VARYING(20)	Phone number associated with address.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time data was updated.

Links To

Table	Join
city	address.city_id = city.city_id

Linked From

Table	Join
customer	customer.address_id = address.address_id

staff	staff.address_id = address.address_id
store	store.address_id = address.address_id

4.2.12 City Table

Cities of the addresses in Address table.

Columns

	Name	Data Type	Description
	city_id	SERIAL	Unique identification number of city in address.
	city	CHARACTER VARYING(50)	Name of city.
	country_id	SMALLINT	Unique identification number for country.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time data was updated.

Links To

Table	Join
country	city.country_id = country.country_id


Linked From

Table	Join
address	address.city_id = city.city_id

4.2.13 Country Table

Countries of the addresses in Address table.

Columns

	Name	Data Type	Description
	country_id	SERIAL	Unique identification number for the country.
	country	CHARACTER VARYING(50)	Name of country.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time data was updated.

Links To

Does not link to any table.

Linked From

Table	Join
city	city.country_id = country.country_id