

Rockbuster Stealth LLC

Data Dictionary

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ENTITY RELATIONSHIP DIAGRAM (ERD)



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FACT TABLE

Rental

Columns	Data Type	Description	Key	Links To	Links From
rental_id	SERIAL	Same as integer, PostgreSQL automatically general populate value into serial column for rental	Primary	Inventory, customer, staff	payment (rental_id; customer_id; staff_id)
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Store both date and time values for rental but without time zone			
inventory_id	INTEGER	4-byte integer that has range from -2,147,483,648 to 2,147,483,647, store the rental inventory id	Foreign	inventory (inventory_id)	
customer_id	SMALLINT	2 byte signed integer that has a range from -32,768 to 32,767, store customer id.	Foreign	customer (customer_id)	
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Store both date and time values for the rental-return but without time zone			
staff_id	SMALLINT	2 byte signed integer that has a range from -32,768 to 32,767, store staff id.	Foreign	staff (staff_id)	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Store both date and time values for the latest update (data entry) on the rental information, e.g., rental date, inventory id, customer id, return date and staff id but without time zone			

Payment

Columns	Data Type	Description	Key	Links To	Links From
payment_id	SERIAL	Same as integer, PostgreSQL automatically general populate value into serial column for payment	Primary		
customer_id	SMALLINT	2 byte signed integer that has a range from -32,768 to 32,767, store customer id.	Foreign	customer (customer_id)	
staff_id	SMALLINT	2 byte signed integer that has a range from -32,768 to 32,767, store staff id.	Foreign	staff (staff_id)	
rental_id	INTEGER	4-byte integer that has range from -2,147,483,648 to 2,147,483,647, store the rental id	Foreign	rental (rental_id)	
amount	NUMERIC(5,2)	Real/Exact number with 5 digits with 2 number after the decimal point – store the exact payment amount			
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Store both date and time values for the payment information (data entry) e.g., customer id, staff id, rental id, and amount of payment but without time zone			

DIMENSION TABLE

Store

Columns	Data Type	Description	Key	Links To	Links From
store_id	SERIAL	Same as integer, PostgreSQL automatically general populate value into serial column for store	Primary		
Manager_staff_id	SMALLINT	2 byte signed integer that has a range from -32,768 to 32,767, store manager staff id.	Foreign	staff (staff_id)	
address_id	SMALLINT	2 byte signed integer that has a range from -32,768 to 32,767, store address id.	Foreign	address (address_id)	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Store both date and time values for the latest update (data entry) on the store data but without time zone			

Film Actor

Columns	Data Type	Description	Key	Links To	Links From
actor_id	SMALLINT	2 byte signed integer that has a range from -32,768 to 32,767, store actor id.	Primary	actor (actor_id)	
film_id	SMALLINT	2 byte signed integer that has a range from -32,768 to 32,767, store film id.	Foreign	film (film_id)	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Store both date and time values for the latest update (data entry) on the film id and actor id but without time zone			

Inventory

Columns	Data Type	Description	Key	Links To	Links From
inventory_id	SERIAL	Same as integer, PostgreSQL automatically general populate value into serial column for inventory	Primary		rental (inventory_id)
film_id	SMALLINT	2 byte signed integer that has a range from -32,768 to 32,767, store film id.	Foreign	film (film_id)	
store_id	SMALLINT	2 byte signed integer that has a range from -32,768 to 32,767, state store id.			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Store both date and time values for the latest update (data entry) on the inventory information e.g., film id and store id but without time zone			

Film Category

Columns	Data Type	Description	Key	Links To	Links From
film_id	SMALLINT	2 byte signed integer that has a range from -32,768 to 32,767, store film id.	Primary	film (film_id)	
category_id	SMALLINT	2 byte signed integer that has a range from -32,768 to 32,767, state category id.	Foreign	category (category_id)	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Store both date and time values for the latest update (data entry) on the film category but without time zone			

Customer

Columns	Data Type	Description	Key	Links To	Links From
customer_id	SERIAL	Same as integer, PostgreSQL automatically general populate value into serial column for customer	Primary		rental, payment (customer_id)
store_id	SMALLINT	2 byte signed integer that has a range from -32,768 to 32,767, state store id.			
first_name	CHARACTER VARYING (45)	Variable length character string store up to 45 character – customer first name			
last_name	CHARACTER VARYING (45)	Variable length character string store up to 45 character – customer last name			
email	CHARACTER VARYING (50)	Variable length character string store up to 50 character – customer email address			
address_id	SMALLINT	2 byte signed integer that has a range from -32,768 to 32,767, store address id.	Foreign	address (address_id)	
activebool	BOOLEAN	Hold one of three possible values: true, false or null.			
create_date	DATE	Store the date of creation customer information.			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Store both date and time values for the latest update (data entry) on the customer information but without time zone			
active	INTEGER	4-byte integer that has range from -2,147,483,648 to 2,147,483,647, store customer active or non-active			

Staff

Columns	Data Type	Description	Key	Links To	Links From
staff_id	SERIAL	Same as integer, PostgreSQL automatically general populate value into serial column for staff	Primary		store, payment, rental (staff_id)
first_name	CHARACTER VARYING (45)	Variable length character string store up to 45 character – customer first name			
last_name	CHARACTER VARYING (45)	Variable length character string store up to 45 character – customer last name			
address_id	SMALLINT	2 byte signed integer that has a range from -32,768 to 32,767, store address id.	Foreign	address (address_id)	
email	CHARACTER VARYING (50)	Variable length character string store up to 50 character – customer email address			
store_id	SMALLINT	2 byte signed integer that has a range from -32,768 to 32,767, state store id.			
active	BOOLEAN	Hold one of three possible values: true, false or null.			
username	CHARACTER VARYING (16)	Variable length character string store up to 16 character – username			
password	CHARACTER VARYING (40)	Variable length character string store up to 40 character – password			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Store both date and time values for the latest update (data entry) on the staff information but without time zone			
picture	BYTEA	Picture of employee			

Actor

Columns	Data Type	Description	Key	Links To	Links From
actor_id	SERIAL	Same as integer, PostgreSQL automatically general populate value into serial column for actor	Primary		firm_actor (actor_id)
first_name	CHARACTER VARYING (45)	Variable length character string store up to 45 character – customer first name			
last_name	CHARACTER VARYING (45)	Variable length character string store up to 45 character – customer last name			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Store both date and time values for the latest update (data entry) on the actor information but without time zone			

Film

Columns	Data Type	Description	Key	Links To	Links From
film_id	SERIAL	Same as integer, PostgreSQL automatically general populate value into serial column for film	Primary		film_actor, inventory, film category (film_id)
title	CHARACTER VARYING (255)	Variable length character string store up to 255 character – to describe the title of film			
description	TEXT	Variable-length character string, with unlimited length to describe the film			
release_year	Year	Store the release year			
language_id	SMALLINT	2 byte signed integer that has a range from -32,768 to 32,767, store language id.	Foreign	language (language_id)	
rental_duration	SMALLINT	2 byte signed integer that has a range from -32,768 to 32,767, store rental duration			
rental_rate	NUMERIC(4,2)	Real/Exact number with 4 digits with 2 number after the decimal point – store the exact rental rate			
length	SMALLINT	2 byte signed integer that has a range from -32,768 to 32,767, state length			
replacement_cost	NUMERIC(5,2)	Real/Exact number with 5 digits with 2 number after the decimal point – store the exact replacement cost			
rating	mpaa_rating	Store the film rating			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Store both date and time values for the latest update (data entry) on the film information but without time zone			
special_features	TEXT[]	Variable-length character string, with unlimited length to describe the film			
fulltext	TSVECTOR	A full text describes the film			

Category

Columns	Data Type	Description	Key	Links To	Links From
category_id	SERIAL	Same as integer, PostgreSQL automatically general populate value into serial column for category	Primary		Film_category (category_id)
name	CHARACTER VARYING (25)	Variable length character string store up to 25 character – to describe the name of category			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Store both date and time values for the latest update (data entry) on the category information but without time zone			

Address

Columns	Data Type	Description	Key	Links To	Links From
address_id	SERIAL	Same as integer, PostgreSQL automatically general populate value into serial column for address	Primary		staff, customer, store (address_id)
address	CHARACTER VARYING (50)	Variable length character string store up to 50 character – to store the address			
address2	CHARACTER VARYING (50)	Variable length character string store up to 50 character – to store the address			
district	CHARACTER VARYING (20)	Variable length character string store up to 20 character – to store the district			
city_id	SMALLINT	2 byte signed integer that has a range from -32,768 to 32,767, store city id.	Foreign	city (city_id)	
postal_code	CHARACTER VARYING (10)	Variable length character string store up to 10 character – to store the postal code			
phone	CHARACTER VARYING (20)	Variable length character string store up to 20 character – to store the phone number			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Store both date and time values for the latest update (data entry) on the address information but without time zone			

Language

Columns	Data Type	Description	Key	Links To	Links From
language_id	SERIAL	Same as integer, PostgreSQL automatically general populate value into serial column for language	Primary		film (language_id)
name	CHARACTER(20)	Fixed length character with space padded, store the name of language			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Store both date and time values for the latest update (data entry) on the language name but without time zone			

City

Columns	Data Type	Description	Key	Links To	Links From
city_id	SERIAL	Same as integer, PostgreSQL automatically general populate value into serial column for city	Primary		address (city_id)
city	CHARACTER VARYING (50)	Variable length character string store up to 50 character – to store the city name			
country_id	SMALLINT	2 byte signed integer that has a range from -32,768 to 32,767, store country id.	Foreign	country (country_id)	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Store both date and time values for the latest update (data entry) on the city name but without time zone			

Country

Columns	Data Type	Description	Key	Links To	Links From
country_id	SERIAL	Same as integer, PostgreSQL automatically general populate value into serial column for country	Primary		city (country_id)
country	CHARACTER VARYING (50)	Variable length character string store up to 50 character – to store the country name			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Store both date and time values for the latest update (data entry) on the country name but without time zone			