

# Rockbuster Stealth LLC Data Dictionary

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# ENTITY RELATIONSHIP DIAGRAM (ERD)



## FACT TABLES

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PAYMENT TABLE			
KEY	COLUMNS	DATA TYPE	DESCRIPTION
PRIMARY	payment_id	SERIAL	Unique ID # of payments for rentals
FOREIGN	customer_id	SMALLINT	Unique ID # to identify customers
FOREIGN	staff_id	SMALLINT	ID # to identify staff
FOREIGN	rental_id	INTEGER	ID # for rental transaction
	amount	NUMERIC [5,2]	Price of rental
	payment_date	TIMESTAMP [6] WITHOUT TIME ZONE	Date of when payment was made

### Payment Table Links To:

TABLE	LINK
Customer	payment.customer_id = customer.customer_id
Staff	payment.staff_id = staff.staff_id
Rental	payment.rental_id = rental.rental_id

Payment Table Links From: N/A

RENTAL TABLE			
KEY	COLUMNS	DATA TYPE	DESCRIPTION
PRIMARY	rental_id	SERIAL	ID # for rental transaction
	rental_date	TIMESTAMP [6] WITHOUT TIME ZONE	Date of when rental was made
FOREIGN	inventory_id	INTEGER	ID# for rental item
FOREIGN	customer_id	SMALLINT	Unique ID # to identify customers
	return_date	TIMESTAMP [6] WITHOUT TIME ZONE	Date of when rental was returned
FOREIGN	staff_id	SMALLINT	ID # to identify staff
	last_update	TIMESTAMP [6] WITHOUT TIME ZONE	Date of when data was last updated

#### Rental Table Links To:

TABLE	LINK
Inventory	rental.inventory_id = inventory.inventory_id
Customer	rental.customer_id = customer.customer_id
Staff	rental.staff_id = staff.staff_id

#### Rental Table Links From:

TABLE	LINK
Payment	payment.rental_id = rental.rental_id

## DIMENSION TABLES

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### STORE TABLE

KEY	COLUMNS	DATA TYPE	DESCRIPTION
PRIMARY	store_id	SERIAL	ID # to identify stores
FOREIGN	manager_staff_id	SMALLINT	ID # for managers
FOREIGN	address_id	SMALLINT	ID # for store's address
	last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Date of when data was last updated

#### Store Table Links To:

TABLE	LINK
Staff	store.manager_staff_id = staff.staff_id
Address	store.address_id = address.address_id

#### Store Table Links From: N/A

### STAFF TABLE

KEY	COLUMNS	DATA TYPE	DESCRIPTION
PRIMARY	staff_id	SERIAL	ID # to identify staff
	first_name	CHARACTER VAR(45)	Staff first name
	last_name	CHARACTER VAR(45)	Staff last name
FOREIGN	address_id	SMALLINT	ID # for store's address
	email	CHARACTER VAR (50)	Staff member's email address
	store_id	SMALLINT	ID # to identify stores
	active	BOOLEAN	Active or not, true/false
	username	CHARACTER VAR(16)	Staff member's username
	password	CHARACTER VAR (40)	Staff member's password
	last_update	TIMESTAMP [6] WITHOUT TIME ZONE	Date of when data was last updated
	picture	BYTEA	Staff's photo

#### Staff Table Links To:

TABLE	LINK
Address	staff.address_id = address.address_id

### Store Table Links From:

TABLE	LINK
<b>Store</b>	store.manager_staff_id = staff.staff_id
<b>Rental</b>	rental.staff_id = staff.staff_id
<b>Payment</b>	payment.staff_id = staff.staff_id

## ADDRESS TABLE

KEY	COLUMNS	DATA TYPE	DESCRIPTION
PRIMARY	address_id	SERIAL	ID # for address
	address	CHARACTER VAR(50)	Street address
	address2	CHARACTER VAR (50)	Street address cont.
	district	CHARACTER VAR (20)	District (City, State, Country, etc.)
FOREIGN	city_id	SMALLINT	ID # for city
	postal_code	CHARACTER VAR (10)	Postal code
	phone	CHARACTER VAR (20)	Phone #
	last_update	TIMESTAMP [6] WITHOUT TIME ZONE	Date of when data was last updated

### Address Table Links To:

TABLE	LINK
<b>City</b>	address._city_id = city.city_id

### Address Table Links From:

TABLE	LINK
<b>Staff</b>	staff.address_id = address.address_id
<b>Store</b>	store.address_id = address.address_id
<b>Customer</b>	customer.address_id = address.address_id

## CITY TABLE

KEY	COLUMNS	DATA TYPE	DESCRIPTION
PRIMARY	city_id	SERIAL	ID # for city
	city	CHARACTER VAR (50)	City name
FOREIGN	country_id	SMALLINT	ID # for counties

	last_update	TIMESTAMP [6] WITHOUT TIME ZONE	Date of when data was last updated
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#### City Table Links To:

TABLE	LINK
Country	city.country_id = country.country_id

#### City Table Links From:

TABLE	LINK
Address	address.city_id = city.city_id

COUNTRY TABLE			
KEY	COLUMNS	DATA TYPE	DESCRIPTION
PRIMARY	country_id	SERIAL	ID # for country
	country	CHARACTER VAR (50)	Country name
	last_update	TIMESTAMP [6] WITHOUT TIME ZONE	Date of when data was last updated

#### Country Table Links To: N/A

#### Country Table Links From:

TABLE	LINK
City	city.country_id = country.country_id

CUSTOMER TABLE			
KEY	COLUMNS	DATA TYPE	DESCRIPTION
PRIMARY	customer_id	SERIAL	ID # for customers
	store_id	SMALLINT	ID # for stores
	first_name	CHARACTER VAR(45)	Customer first name
	last_name	CHARACTER VAR (45)	Customer last name
	email	CHARACTER VAR (50)	Customer email
FOREIGN	address_id	SMALLINT	Customer address
	activebool	BOOLEAN	Active or not (true/false)



	create_date	DATE	Date when customer account first created
	last_update	TIMESTAMP [6] WITHOUT TIME ZONE	Date of when data was last updated
	active	INTEGER	Integer indicating if active or not

#### Customer Table Links To:

TABLE	LINK
Address	customer.address_id = address.address_id

#### Customer Table Links From:

TABLE	LINK
Rental	rental.customer_id = customer.customer_id
Payment	payment.customer_id = customer.customer_id

FILM CATEGORY TABLE			
KEY	COLUMNS	DATA TYPE	DESCRIPTION
PRIMARY/FOREIGN	film_id	SMALLINT	ID # for film
PRIMARY/FOREIGN	category_id	SMALLINT	ID # for category
	last_update	TIMESTAMP [6] WITHOUT TIME ZONE	Date of when data was last updated

#### Film Category Table Links To:

TABLE	LINK
Category	film_category.category_id = category.category_id
Film	film_category.film_id = film.film_id

#### Film Category Table Links From: N/A

CATEGORY TABLE			
KEY	COLUMNS	DATA TYPE	DESCRIPTION
PRIMARY	category_id	SERIAL	ID # for category
	name	CHARACTER VAR(25)	Category name

	last_update	TIMESTAMP [6] WITHOUT TIME ZONE	Date of when data was last updated
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**Category Table Links To: N/A**

**Category Table Links From:**

TABLE	LINK
<b>Film Category</b>	film_category.category_id = category.category_id

INVENTORY TABLE			
PRIMARY	inventory_id	SERIAL	ID # for inventory
FOREIGN	film_id	SMALLINT	ID # for film
	store_id	SMALLINT	ID # for stores
	last_update	TIMESTAMP [6] WITHOUT TIME ZONE	Date of when data was last updated

**Inventory Table Links To:**

TABLE	LINK
<b>Film</b>	inventory.film_id = film.film_id

**Inventory Table Links From:**

TABLE	LINK
<b>Rental</b>	rental.inventory_id = inventory.inventory_id

FILM TABLE			
KEY	COLUMNS	DATA TYPE	DESCRIPTION
PRIMARY	film_id	SERIAL	ID # for film
	title	CHARACTER VAR(255)	Movie title
	description	TEXT	Movie description
	release_year	Year	Movie release year
FOREIGN	language_id	SMALLINT	ID # of movie language
	rental_duration	SMALLINT	Duration of rental (Days?)
	rental_rate	NUMERIC (4,2)	Price to rent
	length	SMALLINT	Movie length

	replacement_cost	NUMERIC (5,2)	Price to replace movie
	rating	mpaa_rating	Movie rating
	last_update	TIMESTAMP [6] WITHOUT TIME ZONE	Date of when data was last updated
	special_features	TEXT	Features included in movie
	fulltext	TSVECTOR	Index for movie

#### Film Table Links To:

TABLE	LINK
Language	film.language_id = language.language_id

#### Film Table Links From:

TABLE	LINK
Film Category	film_category.film_id = film.film_id
Inventory	inventory.film_id = film.film_id
Film Actor	film_actor.film_id = film.film_id

LANGUAGE TABLE			
KEY	COLUMNS	DATA TYPE	DESCRIPTION
PRIMARY	language_id	SERIAL	ID # for languages
	name	CHARACTER (20)	Language name
	last_update	TIMESTAMP [6] WITHOUT TIME ZONE	Date of when data was last updated

#### Language Table Links To: N/A

#### Language Table Links From:

TABLE	LINK
Film	film.language_id = language.language_id

FILM ACTOR			
KEY	COLUMNS	DATA TYPE	DESCRIPTION
PRIMARY/FOREIGN	actor_id	SMALLINT	ID # for movie actors
PRIMARY/FOREIGN	film_id	SMALLINT	ID # for movies

	last_update	TIMESTAMP [6] WITHOUT TIME ZONE	Date of when data was last updated
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#### Film Actor Table Links To:

TABLE	LINK
<b>Film</b>	film_actor.film_id = film.film_id
<b>Actor</b>	film_actor.actor_id = actor.actor_id

#### Film Actor Table Links From: N/A

ACTOR TABLE			
KEY	COLUMNS	DATA TYPE	DESCRIPTION
PRIMARY	actor_id	SERIAL	ID # for actors
	first_name	CHARACTER VAR (45)	Actor first name
	last_name	CHARACTER VAR (45)	Actor last name
	last_update	TIMESTAMP [6] WITHOUT TIME ZONE	Date of when data was last updated

#### Actor Table Links To: N/A

#### Actor Table Links From:

TABLE	LINK
<b>Film Actor</b>	film_actor.actor_id = actor.actor_id