

# Rockbuster Stealth LLC Data Dictionary



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# Entity Relationship Diagram



## Fact Tables

### Payment Table

Key Type	Columns	Data Type	Description
Primary	payment_id	SERIAL	A unique id to identify the payment.
Foreign	customer_id	SMALLINT	A unique id to identify the customer.
Foreign	staff_id	SMALLINT	A unique id to identify the staff.
Foreign	rental_id	INTEGER	A unique id to identify the rental.
	amount	NUMERIC(5,2)	The total amount that the customer paid.
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	The date that the payment was made.

Links to

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

### Rental Table

Key Type	Columns	Data Type	Description
Primary	rental_id	SERIAL	A unique ID that identifies the rental.
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	The date when the rental was purchased.
Foreign	inventory_id	INTEGER	A unique ID that identifies the item in inventory.
Foreign	customer_id	SMALLINT	A unique ID that identifies the customer.
	return_date	TIMESTAMP(6) WIHTOUT TIME ZONE	The date when the rental was returned.
Foreign	staff_id	SMALLINT	A unique number that identifies the employee.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The date and time when the row was last updated.

Links from

Table	Join
payment	payment.rental_id = rental.rental_id

Links to

Table	Join
inventory	rental.inventory_id = inventory.inventory_id

customer	rental.customer_id = customer.custoimer_id
staff	rental.staff_id = staff.staff_id

## Dimension Tables

### Store Table

Key Type	Column	Data Type	Description
Primary	store_id	SERIAL	A unique ID that identifies the store.
Foreign	manager_staff_id	SMALLINT	A unique ID that identifies the manager.
Foreign	address_id	SMALLINT	A unique ID that identifies the store address.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The date and time when the row was last updated.

Links to

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

### Film Actor Table

Key Type	Column	Data Type	Description
Composite (Primary and Foreign)	actor_id	SMALLINT	A unique ID that identifies the actor.
Composite (Primary and Foreign)	film_id	SMALLINT	A unique ID that identifies the film.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The date and time when a row was last updated.

Links to

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

### Inventory Table

Key Type	Column	Data Type	Description
Primary	inventory_id	SERIAL	A unique ID that identifies the item in inventory.
Foreign	film_id	SMALLINT	A unique ID that identifies the film.
	store_id	SMALLINT	A unique ID that identifies the store.

	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The date and time when the row was last updated.
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Links from

Table	Join
rental	rental.inventory_id = inventory.inventory_id

Links to

Table	Join
film	inventory.film_id = film.film_id

### Film Category Table

Key Type	Column	Data Type	Description
Composite Key (Primary and Foreign)	film_id	SMALLINT	A unique ID that identifies the film.
Composite Key (Primary and Foreign)	category_id	SMALLINT	A unique ID that identifies the category.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The date and time when the row was last updated.

Links to

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

### Customer Table

Key Type	Column	Data Type	Description
Primary	customer_id	SERIAL	A unique ID that identifies the customer.
	store_id	SMALLINT	A unique ID that identifies the store
	first_name	CHARCTER VARYING(45)	The first name of the customer.
	last_name	CHARCTER VARYING(45)	The last name of the customer.
	email	CHARCTER VARYING(45)	Email information of the customer.
Foreign	address_id	SMALLINT	Address information of the customer.
	activebool	BOOLEAN	Whether the customer is active or not.
	create_date	DATE	The date when the account was created.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time when the row was last updated.

	active	INTEGER	Whether the customer is active or not.
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Links from

Table	Join
rental	rental.customer_id = customer.customer_id

Links to

Table	Join
address	customer.address_id = address.address_id

### Staff Table

Key Type	Column	Data Type	Description
Primary	staff_id	SERIAL	A unique ID of the employee.
	first_name	CHARACTER VARYING(45)	The first name of the employee.
	last_name	CHARACTER VARYING(45)	The last name of the employee.
Foreign	address_id	SMALLINT	The address information of the employee.
	email	CHARACTER VARYING(50)	The email information of the employee.
	store_id	SMALLINT	A unique ID of the store.
	active	BOOLEAN	Whether the employee is active or not.
	username	CHARACTER VARYING(16)	The username of the employee account.
	password	CHARACTER VARYING(40)	The password of the employee account.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The date and name the row was last updated.

Links from

Table	Join
payment	payment.staff_id = staff.staff_id

Links to

Table	Join
address	staff.address_id = address.address_id

### Actor Table

Key Type	Column	Data Type	Description
Primary	actor_id	SERIAL	A unique ID that identifies the actor.
	first_name	CHARACTER VARYING(45)	First name of the actor.
	last_name	CHARACTER VARYING(45)	Last name of the actor.



	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The date and time the row was last updated.
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Links from

Table	Join
film_actor	film_actor.actor_id = actor.actor_id

### Category Table

Key Type	Column	Data Type	Description
Primary	category_id	SERIAL	A unique ID that identifies the category.
	name	CHARCTER VARYING(25)	Name of the category.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The date and time the row was last updated.

Links from

Table	Join
film_category	film_category.category_id = category.category_id

### Film Table

Key Type	Column	Data Type	Description
	film_id	SERIAL	A unique ID that identifies the film.
	title	CHARCTER VARYING(255)	
	description	TEXT	It describes the story of the film.
	release_year	year	The year the film released.
	language_id	SMALLINT	The language of the film.
	rental_duration	SMALLINT	How long the film was rented.
	rental_rate	NUMERIC(4,2)	The date the film was rented.
	length	SMALLINT	The length of the film.
	replacement_cost	NUMERIC(5,2)	The cost to replace the film if it gets lost.
	rating	mpaa_rating	The rating of the film.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The date and time the row was last updated.
	special_features	TEXT	The features that the film offers.
	fulltext	TSVECTOR	Some keywords about the film.

Links from

Table	Join
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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

Links to

Table	Join
language	film.language_id = language.language_id

## Address Table

Key Type	Column	Data Type	Description
Primary	address_id	SERIAL	A unique ID that identifies the address of the customer.
	address	CHARACTER VARYING(50)	The address of the customer.
	address2	CHARACTER VARYING(50)	Second address of the customer if it applies.
	district	CHARACTER VARYING(20)	The district that the customer lives in.
Foreign	city_id	SMALLINT	The city that the customer lives in.
	postal_code	CHARACTER VARYING(10)	The postal code of the customer's address.
	phone	CHARACTER VARYING(20)	The customer's phone number.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The date and time the row last updated.

Links from

Table	Join
customer	customer.address_id = address.address_id
staff	staff.address_id = address.address_id
store	store.address_id = address.address_id

Links to

Table	Join
city	address.city_id = city.city_id

## City Table

Key Type	Column	Data Type	Description
Primary	city_id	SERIAL	A unique ID that identifies the city the customer lives in.
	city	CHARACTER VARYING(50)	The city the customer lives in.
Foreign	country_id	SMALLINT	A unique ID that identifies the country

			where the customer lives in.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The date and time the row last updated.

Links to

Table	Join
country	city.country_id = country.country_id

Country Table

Key Type	Column	Data Type	Description
Primary	country_id	SMALLINT	A unique ID that identifies the country where the customer lives in.
	country	CHARACTER VARYING(50)	The country the customer lives in.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The date and time the row last updated.

Links from

Table	Join
city	city.country_id = country.country_id