



# ROCKBUSTER STEALTH LLC





Data Dictionary

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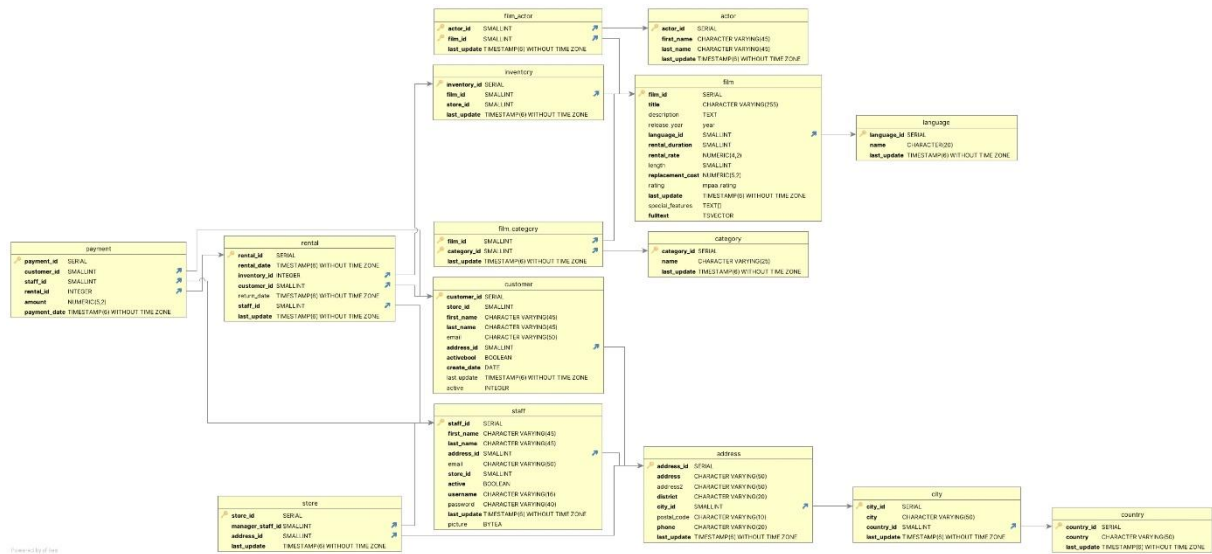
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## Legend

-  Primary Key
-  Foreign Key
-  Links to another table
-  Linked from another table

# Entity Relationship Diagram



## Fact Tables

### Table: payment

#### Columns

	Name	Data Type	Description
+	payment_id	SERIAL	Primary key, gives each payment a unique identifier.
+	customer_id	SMALLINT	Gives each customer a unique identifier. Foreign key, links to customer table.
+	staff_id	SMALLINT	Gives each staff member a unique identifier. Foreign key, links to staff table.
+	rental_id	INTEGER	Gives each rental activity a unique identifier. Foreign key, links to rental table.
	amount	NUMERIC (5,2)	The amount of payment.
	payment_date	TIMESTAMP (6) WITHOUT TIME ZONE	The time of payment.

## 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.

## Unique Keys

	Columns	Description
+	payment_id	Primary key constraint.

## Table: rental

### Columns

	Name	Data Type	Description
+	rental_id	SERIAL	Primary key, gives each rental activity a unique identifier.
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	The time of the rental.
±	inventory_id	INTEGER	Gives each item a unique identifier. Foreign key, links to inventory table.
±	customer_id	SMALLINT	Gives each customer a unique identifier. Foreign key, links to customer table.
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	The time of return.
±	staff_id	SMALLINT	Gives each staff member a unique identifier. Foreign key, links to staff table.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The time of the 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.

Linked from

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

Unique Keys

	Columns	Description
†	Rental_id	Primary key constraint.

## Dimension Tables

Table: film\_actor

Columns

	Name	Data Type	Description
† ⌘	actor_id	SMALLINT	Composite Key, gives each actor a unique identifier. Foreign key, links to actor table.
† ⌘	film_id	SMALLINT	Composite key, gives each film a unique identifier. Foreign key, links to film table.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The 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	film_actor.film_id = film.film_id	Foreign key constrain referencing film.film_id

Unique Keys

	Columns	Description
†	actor_id	Primary key constraint.
†	film_id	Primary key constraint.

Table: inventory

Columns

	Name	Data Type	Description
+	inventory_id	SERIAL	Primary key, gives each item a unique identifier.
⌘	film_id	SMALLINT	Gives each film title a unique identifier. Foreign key, links to film table.
⌘	store_id	SMALLINT	Gives each store a unique identifier. Foreign key, links to store table.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The time of last update.

Links to

	Table	Join	Description
←	film	inventory.film_id = film.film_id	Foreign key constraint referencing film.film_id.

Linked from

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

Unique Keys

	Columns	Description
+	inventory_id	Primary key constraint.

Table: film\_category

Columns

	Name	Data Type	Description
+	film_id	SMALLINT	Composite key, gives each film a unique identifier. Foreign key, links to film table.
⌘	category_id	SMALLINT	Composite key, gives each category a unique identifier. Foreign key, links to category table.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The time of last update.

### Links to

	Table	Join	Description
←	film	film_category.film_id = film.film_id	Foreign key constraint referencing film.film_id.
←	category	film_category.category_id = category.category_id	Foreign key constraint referencing category.category_id.

### Unique Keys

	Columns	Description
†	film_id	Primary key constraints.
†	category_id	Primary key constraints.

### Table: customer

#### Columns

	Name	Data Type	Description
†	customer_id	SERIAL	Primary key, gives each customer a unique identifier.
	store_id	SMALLINT	Gives each store a unique identifier.
	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	Gives each address a unique identifier. Foreign key, links to address table.
	activebool	BOOLEAN	Whether the customer is active or not.
	create_date	DATE	The date of creation.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The time of last update.
	active	INTEGER	Whether the customer is active or not.

### Links to

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



### Linked from

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

### Unique Keys

	Columns	Description
†	customer_id	Primary key constraints.

### Table: staff

#### Columns

	Name	Data Type	Description
†	staff_id	SERIAL	Primary key, gives each staff member a unique identifier.
	first_name	CHARACTER VARYING(45)	First name of staff member.
	last_name	CHARACTER VARYING(45)	Last name of staff member.
‡	address_id	SMALLINT	Gives each address a unique identifier. Foreign key, links to address table.
	email	CHARACTER VARYING(50)	Email address of staff member.
	store_id	SMALLINT	Gives each store a unique identifier.
	active	BOOLEAN	Whether the staff member account is active or not.
	username	CHARACTER VARYING(16)	The username of the staff member.
	password	CHARACTER VARYING(40)	The password of the staff member.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The time of last update.
	picture	BYTEA	A picture of the staff member.

### Links to

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

#### Linked from

	Table	Join	Description
➡	payment	staff.staff_id = payment.staff_id	Foreign key constraint referencing staff.staff_id.

#### Unique Keys

	Columns	Description
†	staff_id	Primary key constraints.

#### Table: actor

##### Columns

	Name	Data Type	Description
†	actor_id	SERIAL	Primary key, gives each actor a unique identifier.
	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	The time of last update.

#### Linked from

	Table	Join	Description
➡	film_actor	actor.actor_id = film_actor.actor_id	Foreign key constraints referencing actor.actor_id.

#### Unique Keys

	Columns	Description
†	actor_id	Primary key constraint.

Table: film

#### Columns

	Name	Data Type	Description
†	film_id	SERIAL	Primary key, gives each film a unique identifier.
	title	CHARACTER VARYING(255)	The title of the film.
	description	TEXT	A description of the film.
	release_year	year	The year of film release.
‡	language_id	SMALLINT	Gives each language a unique identifier. Foreign key, links to language table.
	rental_duration	SMALLINT	Duration of the film rental.
	rental_rate	NUMERIC(4,2)	Rate of the rental.
	length	SMALLINT	Length of the film.
	replacement_cost	NUMERIC(5,2)	Replacement cost in case of loss.
	rating	mpaa_rating	Rating of the film.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The time of last update.
	special_feature	TEXT []	Special features of the film.
	fulltext	TSVECTOR	Text of the film.

#### Links to

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

#### Linked from

	Table	Join	Description
→	film_actor	film.film_id = film_actor.film_id	Foreign key constraint referencing film.film_id.
→	inventory	film.film_id = inventory.film_id	Foreign key constraint referencing film.film_id.
→	film_category	film.film_id = film_category.film_id	Foreign key constraint referencing film.film_id.

#### Unique Keys

	Columns	Description
†	film_id	Primary key constraints.

## Table: category

### Columns

	Name	Data Type	Description
†	category_id	SERIAL	Primary key, gives each category a unique identifier.
	Name	CHARACTER VARYING(25)	Name of the category.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The time of last update.

### Linked from

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

### Unique Keys

	Columns	Description
†	category_id	Primary key constraint.

## Table: address

### Columns

	Name	Data Type	Description
†	address_id	SERIAL	Primary key, gives each address a unique identifier.
	address	CHARACTER VARYING(50)	The address.
	address2	CHARACTER VARYING(50)	Additional address information.
	district	CHARACTER VARYING(20)	Name of the district.
‡	city_id	SMALLINT	Gives each city a unique identifier. Foreign key, links to city table.
	postal_code	CHARACTER VARYING (10)	The postal code of the city.
	phone	CHARACTER VARYING(20)	The phone number.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The time of last update.

### Links to

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

### Linked from

	Table	Join	Description
➡	customer	address.address_id = customer.address_id	Foreign key constraint referencing address.address_id.
➡	staff	address.address_id = staff.address_id	Foreign key constraint referencing address.address_id.
➡	store	address.address_id = store.address_id	Foreign key constraint referencing address.address_id.

### Unique Keys

	Columns	Description
†	address_id	Primary key constraint.

### Table: language

#### Columns

	Name	Data Type	Description
†	language_id	SERIAL	Primary key, gives each language a unique identifier.
	name	CHARACTER(20)	Name of the language.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The time of last update.

### Linked from

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

### Unique Keys

	Columns	Description
†	language_id	Primary key constraint.

## Table: city

### Columns

	Name	Data Type	Description
†	city_id	SERIAL	Primary key, gives each city a unique identifier.
	city	CHARACTER VARYING(50)	Name of the city.
‡	country_id	SMALLINT	Gives each country a unique identifier. Foreign key, links to country table.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The time of last update.

### Links to

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

### Linked from

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

### Unique Keys

	Columns	Description
†	city_id	Primary key constraint.

## Table: country

### Columns

	Name	Data Type	Description
†	country_id	SERIAL	Primary key, gives each country a unique identifier.
	Country	CHARACTER VARYING(50)	Name of the country.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The time of last update.

### Linked from

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

### Unique Keys

	Columns	Description
†	country_id	Primary key constraint.

### Table: store

#### Columns

	Name	Data Type	Description
†	store_id	SERIAL	Primary key, gives each store a unique identifier.
‡	manager_staff_id	SMALLINT	Gives each staff member a unique identifier. Foreign key, links to staff table.
‡	address_id	SMALLINT	Gives each address a unique identifier. Foreign key, links to address table.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The time of last update.

#### Links to

	Table	Join	Description
←	staff	store.manager_staff_id = staff.staff_id	Foreign key constraint referencing staff.staff_id.
←	address	store.address_id = address.address_id	Foreign key constraint referencing address.address_id.

### Unique Keys

	Columns	Description
†	store_id	Primary key constraint.