

# ROCKBUSTER STEALTH LLC

## DATA DICTIONARY

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# 1. Entity Relationship Diagram (ERD)



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## Legend

Primary Key


Joins/links

## 2. FACT TABLES

### 2.1 payment

Each payment made to Rockbuster from customers

#### Columns

Key	Columns	Data Type	Description
	payment_id	Integer	Primary Key – unique ID number for each payment
	customer_id	Integer (small)	Unique ID number for each customer
	staff_id	Integer (small)	Unique ID number for each staff member
	rental_id	Integer	Unique ID number for each rental
	amount	numeric (currency, 2 decimal places)	Price of each payment to two decimal places
	payment_date	Date and Time (timestamp)	Date and time of payment in the format yyyy-mm-dd hh:mm:ss (without timezone)


#### 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

### 2.2 rental

Each rental instance

#### Columns

	Columns	Data Type	Description
	rental_id	Integer (serial)	Primary Key – unique ID number for each rental transaction
	rental_date_id	Date and Time (timestamp)	Date and time of rental in the format yyyy-mm-dd hh:mm:ss (without timezone)
	inventory_id	Integer	Unique ID number for each address
	customer_id	Integer (small)	Unique ID number for each customer

	return_date	Date and Time (timestamp)	Date and time of return of rental in the format yyyy-mm-dd hh:mm:ss (without timezone)
	staff_id	Integer (small)	Unique ID number for each staff member
	last_update	Date and Time (timestamp)	Date and time of payment in the format yyyy-mm-dd hh:mm:ss (without timezone)

Links to

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

Linked from


Table	Join
payment	payment.rental_id = rental.rental_id

### 3. DIMENSION TABLES

#### 3.1 store

Each store location and manager

Columns

	Columns	Data Type	Description
	store_id	Integer (Serial)	Primary Key – unique ID number for each store
	manager_staff_id	Integer (small)	Unique ID number for store manager
	address_id	Integer (small)	Unique ID number for each address
	last_update	Date and Time (timestamp)	Date and time of payment in the format yyyy-mm-dd hh:mm:ss (without timezone)



Links to

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

### 3.2 film\_actor

Each film actor id and film id

#### Columns

	Columns	Data Type	Description
	actor_id	Integer (small)	Primary Key – unique ID number for each actor
	film_id	Integer (small)	Unique ID number for each film
	last_update	Date and Time (timestamp)	Date and time of last update in the format yyyy-mm-dd hh:mm:ss (without timezone)


#### Links to

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

### 3.3 inventory

Films in each store

#### Columns

	Columns	Data Type	Description
	inventory_id	Integer (serial)	Primary Key – unique ID number for each item of inventory
	film_id	Integer (small)	Unique ID number for each film
	store_id	Integer (small)	Unique ID number for each store
	last_update	Date and Time (timestamp)	Date and time of last update in the format yyyy-mm-dd hh:mm:ss (without timezone)

#### Links to

Table	Join
film	inventory_film_id = film.inventory_id


#### Linked from

Table	Join
rental	rental.inventory_id = inventory.inventory_id

### 3.4 film\_category

Each film assigned a category ID

#### Columns

	Columns	Data Type	Description
	film_id	Integer (small)	Primary Key - Unique ID number for each film
	category_id	Integer (small)	Unique ID number for each film category
	last_update	Date and Time (timestamp)	Date and time of last update in the format yyyy-mm-dd hh:mm:ss (without timezone)


#### Links to

Table	Join
film	film_category_film_id = film.film_id
category	film_category_id = category.category_id

### 3.5 customer

Customer account details

#### Columns

	Columns	Data Type	Description
	customer_id	Integer (small)	Primary Key - Unique ID number for each customer
	store_id	Integer (small)	Unique ID number for each store
	first_name	Character Varying (45)	Customer's first name (string, up to 45 characters)
	last_name	Character Varying (45)	Customer's last name (string, up to 45 characters)
	email	Character Varying (45)	Customer's email address (string, up to 45 characters)
	address_id	Integer (small)	ID number for customer's address
	activebool	Boolean	A TRUE or FALSE (Boolean) entry to signify if the customer account is active (True) or not (False)
	username	Character Varying (16)	Customer's username (string, up to 16 characters)
	password	Character Varying (40)	Customer's password (string, up to 40 characters)

	last_update	Date and Time (timestamp)	Date and time of last update in the format yyyy-mm-dd hh:mm:ss (without timezone)
	picture	BYTEA	Customer picture in the form of digitized information

Links to

Table	Join
address	customer.address_id = address.address_id


Linked from

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

### 3.6 staff

Customer account details

Columns

	Columns	Data Type	Description
	staff_id	Integer (small)	Primary Key - Unique ID number for each customer
	first_name	Character Varying (45)	Customer's first name (string, up to 45 characters)
	last_name	Character Varying (45)	Customer's last name (string, up to 45 characters)
	address_id	Integer (small)	ID number for customer's address
	email	Character Varying (45)	Customer's email address (string, up to 45 characters)
	store_id	Integer (small)	Unique ID number for each store
	active	Boolean	A TRUE or FALSE (Boolean) entry to signify if the customer account is active (True) or not (False)
	username	Character Varying (16)	Customer's username (string, up to 16 characters)
	password	Character Varying (40)	Customer's password (string, up to 40 characters)



	last_update	Date and Time (timestamp)	Date and time of last update in the format yyyy-mm-dd hh:mm:ss (without timezone)
	picture	BYTEA	Customer picture in the form of digitized information


Links to

Table	Join
address	staff.address_id = address.address_id

Linked from

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


### 3.7 actor

	Columns	Data Type	Description
	actor_id	Integer (serial)	Primary Key – unique ID number for each actor
	first_name	Character Varying (45)	Actor's first name (string, up to 45 characters)
	last_name	Character Varying (45)	Actor's last name (string, up to 45 characters)
	last_update	Date and Time (timestamp)	Date and time of last update in the format yyyy-mm-dd hh:mm:ss (without timezone)

Linked from

Table	Join
film_actor	Film_actor.actor_id = film. actor_id

### 3.8 film

	Columns	Data Type	Description
	film_id	Integer (small)	Primary Key - Unique ID number for each film
	title	Character Varying (255)	Film title
	description	text	Description of film

	release_year	year	Year film was released
	language_id	Integer (small)	Primary language of film
	rental_duration	Integer (small)	Number of days film was rented for
	Rental_rate	Numeric (four integers and 2 deicmals)	Price of rental to customer
	length	Integer (small)	Length of film in minutes
	replacement_lost	Numeric (five integers and 2 deicmals)	Cost to replace film if lost or damaged
	rating	mpaa_rating	The film's rating as assigned by MPAA
	last_update	Date and Time (timestamp)	Date and time of last update in the format yyyy-mm-dd hh:mm:ss (without timezone)
	special_features	TEXT[]	Details of special features (if any) accompanying the film
	fulltext	TSVECTOR	Index of stored search terms


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	film_inventory.film_id = film.film_id
film_category	film_category.film_id = film.film_id


### 3.9 category

	Columns	Data Type	Description
	category_id	Integer (small)	Primary Key - Unique ID number for each film category
	name	Character Varying (25)	Category name (string, up to 25 characters)
	last_update	Date and Time (timestamp)	Date and time of last update in the format yyyy-mm-dd hh:mm:ss (without timezone)

Linked from

Table	Join
film_category	film_category.category_id = category.category_id

### 3.10 address

	Columns	Data Type	Description
	address_id	Integer (small)	Primary Key – unique ID number for address
	address	Character Varying (50)	Customer's street address, building number and streetname (string, up to 50 characters)
	address2	Character Varying (50)	Further address detail, if required
	district	Character Varying (20)	Name of district (string, up to 20 characters)
	city_id	Integer (small)	Unique ID number for city
	postal_code	Character Varying (10)	Customer's postal code
	phone	Character Varying (20)	Customer's phone number
	last_update	Date and Time (timestamp)	Date and time of last update in the format yyyy-mm-dd hh:mm:ss (without timezone)


#### 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

### 3.11 language


	Columns	Data Type	Description
	language_id	Integer	Primary Key – unique ID number for language
	name	Character Varying (20)	Name of language

	last_update	Date and Time (timestamp)	Date and time of last update in the format yyyy-mm-dd hh:mm:ss (without timezone)
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Linked from

Table	Join
film	film.language_id = language.language_id

### 3.12 city

	Columns	Data Type	Description
	city_id	Integer (serial)	Primary Key – unique ID number for each city
	city	Character Varying (50)	Name of city
	country_id	Integer (small)	Unique ID number for each country
	last_update	Date and Time (timestamp)	Date and time of last update in the format yyyy-mm-dd hh:mm:ss (without timezone)


Links to

Table	Join
country	city.country_id = country.country_id

Linked from

Table	Join
address	address.city_id = city.city_id

### 3.13 country

	Columns	Data Type	Description
	country_id	Integer (small)	Unique ID number for each country
	country	Character Varying (50)	Name of country
	last_update	Date and Time (timestamp)	Date and time of last update in the format yyyy-mm-dd hh:mm:ss (without timezone)

Linked from

Table	Join
city	city.country_id = country.country_id