
DATA DICTIONARY

ROCKBUSTER STEALTH ANALYSIS
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1. ENTITY RELATIONSHIP DIAGRAM



LEGEND

- PK = Primary Key
- FK = Foreign Key

2.1 LOCATION TABLES

2.1.1 ADDRESS

Key?	Columns	Data Type	Description
PK	address_id	INTEGER	Unique ID for address
	address	CHARACTER VARYING(50)	1 st line of address
	address2	CHARACTER VARYING(50)	2 nd line of address
	district	CHARACTER VARYING(20)	State / Province / or District for address
FK	city_id	SMALLINT	Unique ID for city
	postal_code	CHARACTER VARYING(10)	Postal code for address
	phone	CHARACTER VARYING(10)	Phone number for address
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time/date entry was last updated

➤ Links To:

Table Name	Linked Columns
city	city_id = city_id

+ Links From

Table Name	Linked Columns
store	address_id = address_id

customer	address_id = address_id
staff	address_id = address_id

2.1.2 CITY

	Columns	Data Type	Description
PK	city_id	INTEGER	Unique ID for city
	city	CHARACTER VARYING(50)	Name of city
FK	country_id	SMALLINT	Unique ID for country
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time/date entry was last updated

➤ Links To:

Table Name	Linked Columns
country	country_id = country_id

+ Links From

Table Name	Linked Columns
address	city_id = city_id

2.1.3 COUNTRY

	Columns	Data Type	Description
PK	country_id	INTEGER	Unique ID for country
	country	CHARACTER VARYING(50)	Name of country
	last_update	TIMESTAMP WITHOUT TIMEZONE	Time/date entry was last updated

➤ Links To: NONE

+ Links From

Table Name	Linked Columns
city	country_id = country_id

2.2 FILM AND FILM ATTRIBUTE TABLES

2.2.1 ACTOR

	Columns	Data Type	Description
PK	actor_id	SERIAL	Unique ID for actor
	first_name	CHARACTER VARYING(45)	Actor's first name
	last_name	CHARACTER VARYING(45)	Actor's last name
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time/date entry was last updated

➤ Links To: NONE + Links From

Table Name	Linked Columns
film_actor	actor_id = actor_id

2.2.2 CATEGORY

	Columns	Data Type	Description
PK	category_id	INTEGER	Unique ID for movie genre
	name	CHARACTER VARYING(25)	Name of movie genre
	last_update	TIMESTAMP WITHOUT TIMEZONE	Time/date entry was last updated

➤ Links To: NONE

+ Links From

Table Name	Linked Columns
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film_category	category_id = category_id
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2.2.3 FILM

	Columns	Data Type	Description
PK	film_id	INTEGER	Unique ID for film
	title	CHARACTER VARYING(255)	Name of film
	description	TEXT	Description of film
	release_year	INTEGER	Year film was released
FK	language_id	SMALLINT	Unique ID for language
	rental_duration	SMALLINT	Amount of time movie can be rented
	rental_rate	NUMERIC	Cost of renting movie per day
	length	SMALLINT	Length of time (in minutes) of movie
	replacement_cost	NUMERIC	Cost of replacing movie
	rating	USER-DEFINED	Rating of movie
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time/date entry was last updated
	special_features	ARRAY	Additional features in movie
	fulltext	TSVECTOR	Index for full text

➤ Links To:

Table Name	Linked Columns
language	language_id = language_id

+ Links From

Table Name	Linked Columns
film_actor	film_id = film_id
film_category	film_id = film_id
inventory	film_id = film_id

2.2.4 FILM_ACTOR

	Columns	Data Type	Description
PK,FK	actor_id	SMALLINT	Unique ID for actor
PK,FK	film_id	SMALLINT	Unique ID for film
	last_update	TIMESTAMP WITHOUT TIMEZONE	Time/date entry was last updated

➤ Links To:

Table Name	Linked Columns
actor	actor_id = actor_id
film	film_id = film_id

+ Links From: NONE

2.2.5 FILM_CATEGORY

	Columns	Data Type	Description
PK,FK	film_id	SMALLINT	Unique ID for film
PK,FK	category_id	SMALLINT	Unique ID for category
	last_update	TIMESTAMP WITHOUT TIMEZONE	Time/date entry was last updated

➤ Links To:

Table Name	Linked Columns
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film	film_id = film_id
category	category_id = category_id

+ Links From: NONE

2.2.6 LANGUAGE

	Columns	Data Type	Description
PK	language_id	INTEGER	Unique ID for language
	name	CHARACTER(20)	Name of language
	last_update	TIMESTAMP WITHOUT TIMEZONE	Time/date entry was last updated

> Links To: NONE

+ Links From

Table Name	Linked Columns
film	language_id = language_id

2.3 CUSTOMER TABLE(S)

2.3.1 CUSTOMER

	Columns	Data Type	Description
PK	customer_id	INTEGER	Unique ID for customer
	store_id	SMALLINT	Unique ID for store
	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
FK	address_id	SMALLINT	Unique ID for address
	activebool	BOOLEAN	Indicator (0,1) for if customer is active
	create_date	DATE	Date for when customer created in system
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time/date entry was last updated
	active	INTEGER	Integer indicator (0,1) for if customer is active

> Links To:

Table Name	Linked Columns
address	address_id = address_id

+ Links From

Table Name	Linked Columns
rental	customer_id = customer_id
payment	customer_id = customer_id

2.3.2 RENTAL

	Columns	Data Type	Description
PK	rental_id	INTEGER	Unique ID for rental transaction
	rental_date	TIMESTAMP WITHOUT TIME ZONE	Date of rental transaction
FK	inventory_id	INTEGER	Unique ID for inventory
FK	customer_id	SMALLINT	Unique ID for customer
	return_date	TIMESTAMP WITHOUT TIME ZONE	Date of rental return transaction
FK	staff_id	SMALLINT	Unique ID for staff member

	last_update	TIMESTAMP WITHOUT TIMEZONE	Time/date entry was last updated
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➤ Links To:

Table Name	Linked Columns
inventory	inventory_id = inventory_id
customer	customer_id = customer_id
staff	staff_id = staff_id

+ Links From

Table Name	Linked Columns
payment	rental_id = rental_id

2.4 PAYMENT TABLE(S)

2.4.1 PAYMENT

	Columns	Data Type	Description
PK	payment_id	INTEGER	Unique ID for payment
FK	customer_id	SMALLINT	Unique ID for customer
FK	staff_id	SMALLINT	Unique ID for staff member
FK	rental_id	INTEGER	Unique ID for rental transaction
	amount	NUMERIC	Payment dollar amount
	payment_date	TIMESTAMP WITHOUT TIME ZONE	Payment date

➤ Links To:

Table Name	Linked Columns
customer	customer_id = customer_id
staff	staff_id = staff_id
rental	rental_id = rental_id

+ Links From: NONE

2.5 BUSINESS OPERATIONS TABLE(S)

2.5.1 INVENTORY

	Columns	Data Type	Description
PK	inventory_id	INTEGER	Unique ID for inventory
FK	film_id	SMALLINT	Unique ID for film
	store_id	SMALLINT	Unique ID for store
	last_update	TIMESTAMP WITHOUT TIMEZONE	Time/date entry was last updated

➤ Links To:

Table Name	Linked Columns
film	film_id = film_id

+ Links From

Table Name	Linked Columns
rental	inventory_id = inventory_id

2.5.2 STAFF

	Columns	Data Type	Description
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PK	staff_id	INTEGER	Unique ID for staff member
	first_name	CHARACTER VARYING(45)	First name for staff member
	last_name	CHARACTER VARYING(45)	Last name for staff member
FK	address_id	SMALLINT	Unique ID for an address
	email	CHARACTER VARYING(50)	Staff member's email address
	store_id	SMALLINT	Unique ID for store
	active	BOOLEAN	Indicator (0,1) for if customer is active
	username	CHARACTER VARYING(16)	Username for staff member
	password	CHARACTER VARYING(40)	Password for staff member
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time/date entry was last updated
	picture	BYTEA	Picture of staff member

➤ Links To:

Table Name	Linked Columns
address	address_id = address_id

+ Links From

Table Name	Linked Columns
rental	staff_id = staff_id
payment	staff_id = staff_id
store	store_id = store_id

2.5.3 STORE

	Columns	Data Type	Description
PK	store_id	INTEGER	Unique ID for store
FK	manager_staff_id	SMALLINT	Unique ID for staff manager
FK	address_id	SMALLINT	Unique ID for address
	last_update	TIMESTAMP WITHOUT TIMEZONE	Time/date entry was last updated

➤ Links To:

Table Name	Linked Columns
staff	store_id = store_id
address	address_id = address_id

+ Links From: NONE