

Data Dictionary

Rockbuster Stealth LLC

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1. Entity Relationship Diagram



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2. Data Tables

Legend



Primary Key




Foreign Key

2.1 Film Tables

2.1.1 Table: actor

Descriptive table for names of film actors.


	COLUMN NAME	DATA TYPE	COLUMN DESCRIPTION/ATTRIBUTES
	actor_id	SERIAL	Unique id number for each actor.
	first_name	CHARACTER VARYING(45)	Actor's first name.
	last_name	CHARACTER VARYING(45)	Actor's surname.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp of last update to this entry.

LINKED FROM

Table	Join
film_actor	film_actor.actor_id = actor.actor_id

2.1.2 Table: category

Descriptive table for film categories.



	COLUMN NAME	DATA TYPE	COLUMN DESCRIPTION/ATTRIBUTES
	category_id	SERIAL	Unique id number for each category.
	name	CHARACTER VARYING(25)	Category name.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE CHARACTER VARYING(45)	Timestamp of last update to this entry.

LINKED FROM

Table	Join
film_category	film_category.category_id = category.category_id

2.1.3 Table: film

Descriptive information on films in Rockbuster inventory.

	COLUMN NAME	DATA TYPE	COLUMN DESCRIPTION/ATTRIBUTES
	film_id	SERIAL	Unique id number for each film.
	title	CHARACTER VARYING(255)	Title of the film.
	description	TEXT	Text description of the film.
	release_year	Year	Year the film was released.
	language_id	SMALLINT	Unique id number for the film's language.
	rental_duration	SMALLINT	Length of rental.
	rental_rate	NUMERIC(4,2)	Rate of rental/day.
	length	SMALLINT	The length of the film in minutes.
	replacement_cost	NUMERIC(5,2)	Replacement cost of the film.
	rating	Mpaa_rating	MPAA rating.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp of last update to this entry.
	special_features	TEXT[]	Special features included with film.
	fulltext	TSVECTOR	Search tags for the film.

LINKS TO



Table	Join
language	film.language_id = language.language_id

LINKED FROM

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

2.1.4 Table: film_actor

Cross-reference table identifying which actors are in which films.



	COLUMN NAME	DATA TYPE	COLUMN DESCRIPTION/ATTRIBUTES
	actor_id	SMALLINT	Combined Primary Key. Unique id number for each actor.
	film_id	SMALLINT	Combined Primary Key. Unique id number for each film.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE CHARACTER VARYING(45)	Timestamp of last update to this entry.

LINKS TO

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

2.1.5 Table: film_category

Cross-reference table identifying how each film is categorized.




	COLUMN NAME	DATA TYPE	COLUMN DESCRIPTION/ATTRIBUTES
	film_id	SMALLINT	Combined Primary Key. Unique id number for each film.
	category_id	SMALLINT	Combined Primary Key. Unique id number for each category.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE CHARACTER VARYING(45)	Timestamp of last update to this entry.

LINKS TO

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

2.1.6 Table: inventory

Table on the inventory of films and where the inventory is located.

	COLUMN NAME	DATA TYPE	COLUMN DESCRIPTION/ATTRIBUTES
	inventory_id	SERIAL	Unique id number for each unit in inventory.
	film_id	SMALLINT	Unique id number for each film.
	store_id	SMALLINT	Unique id number for store where inventory unit is located.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE CHARACTER VARYING(45)	Timestamp of last update to this entry.

LINKS TO


Table	Join
film	inventory.film_id = film.film_id

LINKED FROM

TABLE	Join
rental	rental.inventory_id = inventory.inventory_id

2.1.7 Table: language

Lookup table for language.

	COLUMN NAME	DATA TYPE	COLUMN DESCRIPTION/ATTRIBUTES
	language_id	SERIAL	Unique id number for each language.
	name	CHARACTER VARYING(20)	Name of language.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE CHARACTER VARYING(45)	Timestamp of last update to this entry.





LINKED FROM

Table	Join
film	film.language_id = language.language_id

2.2 Payment Tables

2.2.1 Table: payment

Fact table recording payment information.





	COLUMN NAME	DATA TYPE	COLUMN DESCRIPTION/ATTRIBUTES
	payment_id	SERIAL	Unique id number for each payment.
	customer_id	SMALLINT	Unique id number for customer.
	staff_id	SMALLINT	Unique id number for staff member handling payment.
	rental_id	INTEGER	Unique id number for rental transaction.
	amount	NUMERIC(5,2)	Payment amount.
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date payment was made.

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

2.2.2 Table: rental

Fact table recording information on each rental transaction.

	COLUMN NAME	DATA TYPE	COLUMN DESCRIPTION/ATTRIBUTES
	rental_id	SERIAL	Unique id number for each rental transaction.
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of rental.
	inventory_id	CHARACTER VARYING(45)	Unique id number for inventory unit rented.
	customer_id	SMALLINT	Unique id number for customer renting inventory.
	return_date	CHARACTER VARYING(50)	Scheduled return date for rental.
	staff_id	SMALLINT	Unique id number for staff handling rental.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp of last update to this entry.

LINKS TO

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




LINKED FROM

Table	Join
payment	payment.rental_id = rental.rental_id

2.3 People Tables

2.3.1 Table: customer

Table containing customer information including cross references to address.

	COLUMN NAME	DATA TYPE	COLUMN DESCRIPTION/ATTRIBUTES
	customer_id	SERIAL	Unique id number for each customer.
	store_id	SMALLINT	Store id number for the customer.
	first_name	CHARACTER VARYING(45)	Customer's first name.
	last_name	CHARACTER VARYING(45)	Customer's surname.
	email	CHARACTER VARYING(50)	Customer's email address.
	address_id	SMALLINT	Unique id number representing customer's address.
	activebool	BOOLEAN	True/False value based on the customer's activity.
	create_date	DATE	Date created.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp of last update to this entry.
	active	INTEGER	Active status of customer.

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

2.3.2 Table: staff

Table containing staff member information including cross-references to store and address.

	COLUMN NAME	DATA TYPE	COLUMN DESCRIPTION/ATTRIBUTES
	staff_id	SERIAL	Unique id number for each staff member.
	first_name	CHARACTER VARYING(45)	Staff member's first name
	last_name	CHARACTER VARYING(45)	Staff member's surname.
	address_id	SMALLINT	Unique id number representing staff members's address.
	email	CHARACTER VARYING(50)	Staff member's email address.
	store_id	SMALLINT	Store id number where the staff member works.
	active	BOOLEAN	True/False value based on the staff member's employment status.
	username	CHARACTER VARYING(16)	Staff member's username.
	password	CHARACTER VARYING(40)	Staff member's password.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp of last update to this entry.
	picture	BYTEA	Staff member's picture .

LINKS TO




Table	Join
address	staff.address_id = address.address_id

LINKED FROM

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

2.3.3 Table: store

Table recording information on Rockbuster stores.

	COLUMN NAME	DATA TYPE	COLUMN DESCRIPTION/ATTRIBUTES
	store_id	SERIAL	Unique id number for each store.
	manager_staff_id	SMALLINT	Unique id number for store manager.
	address_id	SMALLINT	Unique id number for each address.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp of last update to this entry.



LINKS TO

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

2.4 Location Tables

2.4.1 Table: address

Street address information for customers, employees, and stores

	COLUMN NAME	DATA TYPE	COLUMN DESCRIPTION/ATTRIBUTES
	address_id	SERIAL	Unique id number for each address.
	address	CHARACTER VARYING(50)	First line of street address.
	address2	CHARACTER VARYING(50)	Second line of street address.
	district	CHARACTER VARYING(20)	District where address is located.
	city_id	SMALLINT	Unique identifier for each city.
	postal_code	CHARACTER VARYING(10)	Postal code.
	phone	CHARACTER VARYING(20)	Phone number.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp of last update to this entry.

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

2.4.2 Table: city

City address information for customers, employees, and stores.

	COLUMN NAME	DATA TYPE	COLUMN DESCRIPTION/ATTRIBUTES
	city_id	SERIAL	Unique id number for each city.
	city	CHARACTER VARYING(50)	Name of city.
	country_id	SMALLINT	Unique id number representing each country.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp of last update to this entry.

LINKS TO


Table	Join
country	city.country_id = country.country_id

LINKED FROM

Table	Join
address	address.city_id = city.city_id

2.4.3 Table: country

Country address information for customers, employees, and stores.

	COLUMN NAME	DATA TYPE	COLUMN DESCRIPTION/ATTRIBUTES
	country_id	SERIAL	Unique id number for each country.
	country	CHARACTER VARYING(50)	Name of country.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp of last update to this entry.

LINKED FROM

Table	Join
city	country.country_id = city.country_id