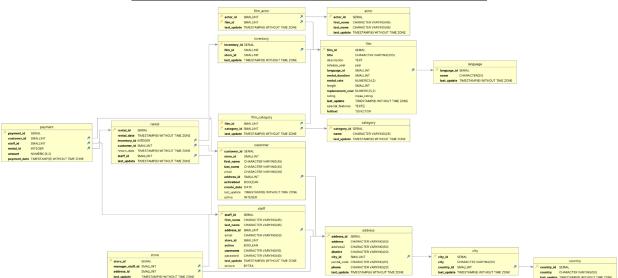
Rockbuster Stealth LLC Data Dictionary

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Rockbuster Entity Relationship Diagram (ERD)



Fact Tables

Payment

Key Type	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
Primary	payment_id	SERIAL	Primary key, integer, unique value to identify payment
Foreign	customer_id	SMALLINT	Foreign key, small integer, unique number used to identify the customer
Foreign	staff_id	SMALLINT	Foreign key, small integer, unique number used to identify the personnel member of Rockbuster
Foreign	rental_id	INTEGER	Foreign key, larger integer, unique number used to identify the rental transaction
	amount	NUMERIC(5,2)	Monetary amount, number with max 5 digits, including and 2 digits in fraction part; max value 999.99
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date (yyyy-mm-dd) and time (hours:minutes:sec)

Links To

<u>Table</u>	<u>Join</u>
customer	Payment.customer_id = customer.customer_id
rental	Payment.rental_id = rental.rental_id
staff	Payment.staff_id = staff.staff_id

Rental

Key Type	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
Primary	rental_id	ISERIAI	Primary key, integer, unique number used to identify the rental transaction
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date (yyyy-mm-dd) and time (hours:minutes:sec) used to indicate the date and time the rent has started
Foreign	inventory_id	INTEGER	Foreign key, larger integer, unique number used to identify a film or item to be rented by customers
Foreign	customer_id	SMALLINT	Foreign key, small integer, unique number used to identify the customer
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date (yyyy-mm-dd) and time (hours:minutes:sec). The date and time set as a deadline when the rental items to be returned
Foreign	staff_id	SMALLINT	Foreign key, small integer, unique number used to identify the personnel member of Rockbuster

last	last undata	TIMESTAMP(6) WITHOUT TIME	Temporal data, store both date (yyyy-mm-dd) and
last_	_update	ZONE	time (hours:minutes:sec)

<u>Table</u>	<u>Join</u>
payment	Payment.rental_id = rental.rental_id

Links To

<u>Table</u>	<u>Join</u>
inventory	Rental.inventory_id = inventory.inventory_id
customer	Rental.customer_id = customer.customer_id
staff	Rental.staff_id = staff.staff_id

Dimension Tables

Inventory

Key Type	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
Primary	inventory_id	INFRIAI	Primary key, larger integer, unique number used to identify a film or item to be rented by customers
Foreign	film_id	INNIATION	Foreign key, integer, unique number used to identify each film; linked to Film table
	store_id	INMALLINI	Small integer, unique number used to identify the store in Rockbuster classification
	last_update	` '	Temporal data, store both date (yyyy-mm-dd) and time (hours:minutes:sec)

Links From

<u>Table</u>	<u>Join</u>
rental	Rental.inventory_id = inventory.inventory_id

Links To

<u>Table</u>	<u>Join</u>
film	Inventory.film_id = film.film_id

Film

Key Type	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
Primary	film_id	ISERIAI	Primary key, integer, unique number used to identify the rental transaction
	title	I(HARA(IER VARYIN(3(755)	Film title, fixed-length character with max 255 characters, including spaces

	description	TEXT	Film synopsis with unlimited length
	release_year	year	Integer, the year the film was released
Foreign	language_id	SMALLINT	Foreign key, unique number used to identify the language of film audio; linked to Language table
	rental_duration	SMALLINT	Small integer, the number of days the item was rented for
	rental_rate	NUMERIC(4,2)	Rating, number with max 4 digits, including and 2 digits in fraction part
	length	SMALLINT	Small integer, the length of film (minutes)
	replacement_cost	NUMERIC(5,2)	The cost the customer can be charged in case of lost or damage of rental items. Monetary amount, number with max 5 digits, including and 2 digits in fraction part.
	rating	mpaa_rating	Film rating introduced by Movie Picture Association
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date (yyyy-mm-dd) and time (hours:minutes:sec)
	special_features	TEXT[]	Extra videos related to the film available for audience
	fulltext	TSVECTOR	Text-searchable data where we can use a word as an index

<u>Table</u>	<u>Join</u>
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

<u>Table</u>	<u>Join</u>
language	Film_category.language_id = language.language_id

Language

Key Type	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
Primary	language_id	ISERIAI	Primary key, unique number used to identify the language in this table
	name	CHARACTER(20)	The name of the language of the film audio
	last_update	• •	Temporal data, store both date (yyyy-mm-dd) and time (hours:minutes:sec)

<u>Table</u>	<u>Join</u>
film	Language.language_id = film.language_id

Film Actor

Key Type	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
Composite Key (Primary and Foreign)	_	SMALLINT	Composite key, unique number used to identify the actor in this database. Foreign key connecting link to Actor table.
Composite Key (Primary and Foreign)	_	SMALLINT	Composite key, unique number used to identify the film in this database. Foreign key connecting link to Film table.
	last_update	1	Temporal data, store both date (yyyy-mm-dd) and time (hours:minutes:sec)

Links To

<u>Table</u>	<u>Join</u>
actor	Film_actor.actor_id = actor.actor_id
film	Film_actor.film_id = film.film_id

Actor

Key Type	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
Primary	actor_id	ISERIAI	Primary key, integer, unique number used to identify the rental transaction
	first_name	CHARACTER VARYING(45)	Actors first name, max 45 characters
	last_name	CHARACTER VARYING(45)	Actors last name, max 45 characters
	last_update		Temporal data, store both date (yyyy-mm-dd) and time (hours:minutes:sec)

Links From

<u>Table</u>	<u>Join</u>
film_actor	Actor.actor_id = film_actor.actor_id

Film Category

Key Type	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
Composite Key (Primary and Foreign)	_	SMALLINT	Composite key, unique number used to identify the film in this database. Foreign key connecting link to Film table.
Composite Key (Primary and Foreign)	· · —	SMALLINT	Composite key, unique number used to identify the film category in this database. Foreign key connecting link to Category table.

last undate	TIMESTAMP(6) WITHOUT TIME	Temporal data, store both date (yyyy-mm-dd) and
last_update	ZONE	time (hours:minutes:sec)

Links To

<u>Table</u>	<u>Join</u>
film	Film_category.film_id = film.film_id
category	Film_category.category_id = category.category_id

Category

Key Type	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
Primary	category_id	ISERIAL	Primary key, unique number used to identify the film category
	name	CHARACTER VARYING(25)	The name of the film category, max 25 characters
	last_update	• •	Temporal data, store both date (yyyy-mm-dd) and time (hours:minutes:sec)

Links From

<u>Table</u>	<u>Join</u>
film_category	Category.category_id = film_category.category_id

Customer

Key Type	<u>Column</u>	Data Type	<u>Description</u>
Primary	customer_id	SERIAL	Primary key, unique number used to identify the customer in this database
	store_id	SMALLINT	Small integer, unique number used to identify the store in Rockbuster classification
	first_name	CHARACTER VARYING(45)	Customer's first name, max 45 characters
	last_name	CHARACTER VARYING(45)	Customer's last name, max 45 characters
	email	CHARACTER VARYING(50)	Customer's email. Max 50 characters
Foreign	address_id	SMALLINT	Foreign key, customer's address, linked to Address table
	activebool	BOOLEAN	True or false statement to indicate the customer account status. Boolean data can hold three possible values: true, false or null.
	activebool	DATE	The date when the customer account was created. Temporal date (yyyy-mm-dd)
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date (yyyy-mm-dd) and time (hours:minutes:sec)
	active	INTEGER	Integer, a number to indicate whether the customer account is active or not

<u>Table</u>	<u>Join</u>
rental	Customer.customer_id = rental.customer_id

Links To

<u>Table</u>	<u>Join</u>
address	Customer.address_id = address.address_id

Staff

Key Type	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
Primary	staff_id	SERIAL	Primary key, unique number used to identify the personnel member
	first_name	CHARACTER VARYING(45)	Employee's first name, max 45 characters
	last_name	CHARACTER VARYING(45)	Employee's last name, max 45 characters
Foreign	address_id	SMALLINT	Foreign key, employee's address, linked to Address table
	email	CHARACTER VARYING(50)	Employee's email. Max 50 characters
	store_id	SMALLINT	Small integer, unique number used to identify the store in Rockbuster classification
	active	BOOLEAN	True or false statement to indicate the employee's status. Boolean data can hold three possible values: true, false or null.
	username	CHARACTER VARYING(16)	Employee's username / log-in ID for internal account, max 16 characters
	username	CHARACTER VARYING(40)	Employee's password used to log in to internal account, max 40 characters
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date (yyyy-mm-dd) and time (hours:minutes:sec)
	picture	ВҮТЕА	Employee's picture. Bytea data type is used to store raw binary data, e.g. images

Links From

<u>Table</u>	<u>Join</u>
payment	Staff.staff_id = payment.staff_id

Links To

<u>Table</u>	<u>Join</u>
address	Staff.address_id = address.address_id

Store

Key Type	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
Primary	store_id	ISERIAI	Primary key, unique number used to identify the store in Rockbuster classification
Foreign	manager_staff_id	ISMANTINI	Foreign key, unique number used to identify the manager staff, linked to Staff table
Foreign	address_id	INMALLINI	Foreign key, unique number used to identify the store address, linked to Address table
	last_update		Temporal data, store both date (yyyy-mm-dd) and time (hours:minutes:sec)

Links To

<u>Table</u>	<u>Join</u>
staff	Store.staff_id = staff.staff_id
address	Store.address_id = address.address_id

Address

Key Type	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
Primary	adress_id	SERIAL	Primary key, unique number used to identify the address in this table
	address	CHARACTER VARYING(50)	Any address in this database - line1 (street number and street name)
	address2	CHARACTER VARYING(50)	Any address in this database - line2, it can be used as a secondary address designator such as apartment number or building name
	district	CHARACTER VARYING(20)	Any address in this database - district / state / region name
Foreign	city_id	SMALLINT	Foreign key, small integer, unique number used to identify the city in this database, linked to City table
	postal_code	CHARACTER VARYING(10)	Any address in this database - postal code, max 10 characters
	postal_code	CHARACTER VARYING(20)	Phone number related to the address in this database, max 20 characters
	postal_code	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date (yyyy-mm-dd) and time (hours:minutes:sec)

Links From

<u>Table</u>	<u>Join</u>
customer	Address.address_id = customer.address_id
staff	Address.address_id = staff.address_id
store	Address.address_id = store.address_id

Links To

<u>Table</u>	<u>Join</u>
city	Address.city_id = city.city_id

City

Key Type	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
Primary	city_id	INFRIAI	Primary key, unique number used to identify the city in this database
	city	CHARACTER VARYING(50)	City name in the address in this database
Foreign	country_id	ICNANTINI	Foreign key, unique number used to identify the country in this database, linked to Country table
	last_update		Temporal data, store both date (yyyy-mm-dd) and time (hours:minutes:sec)

Links To

<u>Table</u>	<u>Join</u>
country	City.country_id = country.country_id

Country

Key Type	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
Primary	country_id	INFRIAI	Primary key, unique number used to identify the country in this database
	country	CHARACTER VARYING(50)	Country name in the address in this database
	last_update	• •	Temporal data, store both date (yyyy-mm-dd) and time (hours:minutes:sec)

Links From

<u>Table</u>	<u>Join</u>
city	Country.country_id = city.country_id