

Rockbuster Stealth LLC

Data Dictionary

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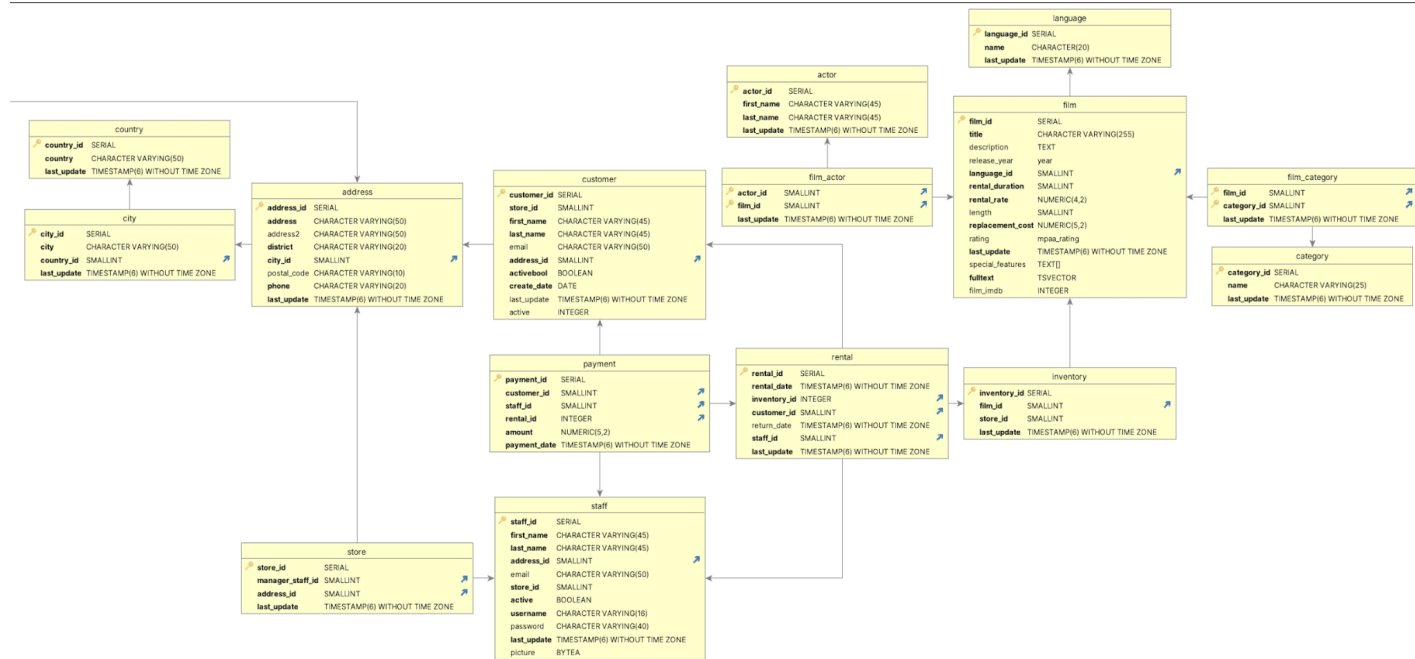
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Rockbuster Stealth LLC

Rockbuster Stealth LLC is a movie rental company that used to have stores around the world. The Rockbuster Stealth management team is planning to use its existing movie licenses to launch an online video rental service. The relational database management system utilized for the Rockbuster database was Postgre.

Entity Relationship Diagram (ERD)



Fact tables:

Payment table:

Table	Columns	Data Type	Description
Payment	payment_id	SERIAL	Unique payment identifier
	customer_id	SMALLINT	Unique customer identifier
	staff_id	SMALLINT	Unique staff identifier
	rental_id	INTEGER	Unique rental identifier
	amount	NUMERIC(5,2)	Amount of payment
	payment_date	TIMESTAMP (6) WITHOUT TIMEZONE	Payment date and time

Links to:

Table	Join	Title/Name/Description
customer	payment.customer_id=customer.customer_id	Foreign key constraint that referencing customer.customer_id
staff	payment.staff_id=staff.staff_id	Foreign key constraint that referencing staff.staff_id
rental	payment.rental_id=rental.rental_id	Foreign key constraint that referencing rental.rental_id

Links from:

No table

Unique keys:

Key	Columns	Description
PK	payment_id	Unique payment identifier
FK	customer_id	Unique customer identifier
FK	staff_id	Unique staff identifier
FK	rental_id	Unique rental identifier

Rental table:

Table	Columns	Data Type	Description
Rental	rental_id	SERIAL	Unique rental identifier
	rental_date	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time of rent
	inventory_id	INTEGER	Unique inventory identifier
	customer_id	SMALLINT	Unique customer identifier
	return_date	TIMESTAMP (6) WITHOUT TIMEZONE	Returning date and time
	staff_id	SMALLINT	Unique staff identifier
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time of update

Links to:

Table	Join	Title/Name/Description
customer	rental.customer_id=customer.customer_id	Foreign key constraint that referencing customer.customer_id
staff	rental.staff_id=staff.staff_id	Foreign key constraint that referencing staff.staff_id
inventory	rental.inventory_id=inventory.inventory_id	Foreign key constraint that referencing inventory.inventory_id

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Links from:

Table	Join	Title/Name/Description
payment	rental.rental_id= payment.rental_id	Foreign key constraint that referencing payment.rental_id

Unique keys:

Key	Columns	Description
PK	rental_id	Unique rental identifier
FK	customer_id	Unique customer identifier
FK	staff_id	Unique staff identifier
FK	inventory_id	Unique inventory identifier

Dimension Tables

Customer Table:

Table	Columns	Data Type	Description
customer	customer_id	SERIAL	Unique customer identifier
	store_id	SMALLINT	Unique store identifier
	first_name	CHARACTER VARYING (45)	Customer's first name
	last_name	CHARACTER VARYING (45)	Customer's last name
	email	CHARACTER VARYING (50)	Customer's email address
	address_id	SMALLINT	Unique address identifier
	activebool	BOOLEAN	True (or false)
	create_date	DATE	Customer created in system date

	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update
	active	INTEGER	If customer is active or not (1 or 0)

Links to:

Table	Join	Title/Name/Description
address	customer.address_id=address.address_id	Foreign key constraint that referencing address.address_id

Links from:

Table	Join	Title/Name/Description
payment	customer.customer_id=payment.customer_id	Foreign key constraint that referencing payment.customer_id
rental	customer.customer_id=rental.customer_id	Foreign key constraint that referencing rental.customer_id

Unique keys:

Key	Columns	Description
PK	customer_id	Unique customer identifier
FK	address_id	Unique address identifier

Staff table:

Table	Columns	Data Type	Description
staff	staff_id	SERIAL	Unique staff identifier
	first_name	CHARACTER VARYING (45)	Employee's first name
	last_name	CHARACTER VARYING (45)	Employee's last name

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	address_id	SMALLINT	Unique address identifier
	email	CHARACTER VARYING (50)	Employee's email address
	store_id	SMALLINT	Unique store identifier
	active	BOOLEAN	Active or not (true or false)
	username	CHARACTER VARYING (16)	Employee's username for system
	password	CHARACTER VARYING (40)	Employee's password for system
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update
	picture	BYTEA	Employee's photo

Links to:

Table	Join	Title/Name/Description
address	staff.address_id=address.address_id	Foreign key constraint that referencing address.address_id

Links from:

Table	Join	Title/Name/Description
payment	staff.staff_id=payment.staff_id	Foreign key constraint that referencing payment.staff_id
rental	staff.staff_id=rental.staff_id	Foreign key constraint that referencing rental.staff_id
store	staff.store_id=store.store_id	Foreign key constraint that referencing store.store_id

Unique keys:

Key	Columns	Description
PK	staff_id	Unique staff identifier
FK	address_id	Unique address identifier

Address table:

Table	Columns	Data Type	Description
address	address_id	SERIAL	Unique address identifier
	address	CHARACTER VARYING (50)	Number and street name
	address2	CHARACTER VARYING (50)	Extra address
	district	CHARACTER VARYING (20)	State or district name
	city_id	SMALLINT	Unique city identifier
	postal_code	CHARACTER VARYING (10)	Zip code
	phone	CHARACTER VARYING (20)	Phone number
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update

Links to:

Table	Join	Title/Name/Description
city	address.city_id= city.city_id	Foreign key constraint that referencing city.city_id

Links from:

Table	Join	Title/Name/Description
customer	address.address_id= customer.address_id	Foreign key constraint that referencing customer.address_id
store	address.address_id= store.address_id	Foreign key constraint that referencing store.address_id
staff	address.address_id= staff.address_id	Foreign key constraint that referencing staff.address_id

Unique keys:

Key	Columns	Description
PK	address_id	Unique address identifier
FK	city_id	Unique city identifier

Country table:

Table	Columns	Data Type	Description
country	country_id	SERIAL	Unique country identifier
	country	CHARACTER VARYING (50)	Country name
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update

Links to

No table

Links from:

Table	Join	Title/Name/Description
city	city.country_id= country.country_id	Foreign key constraint that referencing city.country_id

Unique keys:

Key	Columns	Description
PK	country_id	Unique country identifier

City table:

Table	Columns	Data Type	Description
city	city_id	SERIAL	Unique city identifier
	city	CHARACTER VARYING (50)	City name
	country_id	SMALLINT	Unique country identifier
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update

Links to:

Table	Join	Title/Name/Description
country	city.country_id= country.country_id	Foreign key constraint that referencing country.country_id

Links from:

Table	Join	Title/Name/Description
address	address.city_id= city.city_id	Foreign key constraint that referencing address.city_id

Unique keys:

Key	Columns	Description
PK	city_id	Unique city identifier
FK	country_id	Unique country identifier

Store table:

Table	Columns	Data Type	Description
store	store_id	SERIAL	Unique store identifier
	manager_staff_id	SMALLINT	Unique manager identifier
	address_id	SMALLINT	Unique address identifier
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update

Links to:

Table	Join	Title/Name/Description
address	store.address_id= address.address_id	Foreign key constraint that referencing address.address_id
staff	store.address_id= staff.address_id	Foreign key constraint that referencing staff.address_id

Links from

No table

Unique keys:

Key	Columns	Description
PK	store_id	Unique store identifier
FK	manager_staff_id	Unique manager identifier
FK	address_id	Unique address identifier

Inventory table:

Table	Columns	Data Type	Description
inventory	inventory_id	SERIAL	Unique inventory identifier
	film_id	SMALLINT	Unique film identifier
	store_id	SMALLINT	Unique store identifier
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time of last update

Links to:

Table	Join	Title/Name/Description
film	inventory.film_id= film.film_id	Foreign key constraint that referencing film.film_id

Links from:

Table	Join	Title/Name/Description
rental	inventory.inventory_id= rental.inventory_id	Foreign key constraint that referencing rental.inventory_id

Unique keys:

Key	Columns	Description
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PK	inventory_id	Unique inventory identifier
FK	film_id	Unique film identifier

Film table:

Table	Columns	Data Type	Description
film	film_id	SERIAL	Unique film identifier
	title	CHARACTER VARYING (255)	Film title
	description	TEXT	Short description of a movie
	release_year	year	Movie released year
	language_id	SMALLINT	Unique language identifier
	rental_duration	SMALLINT	Number of movie rental days
	rental_rate	NUMERIC (4,2)	Cost of movie rent
	length	SMALLINT	Movie duration (in min)
	replacement_cost	NUMERIC (5,2)	Cost of replacement of lost movie
	rating	mpaa_rating	Age rating of movie
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update
	special_features	TEXT []	What's included in a disc
	fulltext	TSVECTOR	Key words

Links to:

Table	Join	Title/Name/Description
language	film.language_id= language.language_id	Foreign key constraint that referencing language.language_id

Links from:

Table	Join	Title/Name/Description
inventory	film.film_id= inventory.film_id	Foreign key constraint that referencing inventory.film_id
film_category	film.film_id= film_category.film_id	Foreign key constraint that referencing film_category.film_id
film_actor	film.film_id= film_actor.film_id	Foreign key constraint that referencing film_actor.film_id

Unique keys:

Key	Columns	Description
PK	film_id	Unique film identifier
FK	language_id	Unique language identifier

Language table:

Table	Columns	Data Type	Description
language	language_id	SERIAL	Unique language identifier
	name	CHARACTER (20)	Movie language
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update

Links to

No table

Links from:

Table	Join	Title/Name/Description
film	film.language_id= language.language_id	Foreign key constraint that referencing film.language_id

Unique keys:

Key	Columns	Description
PK	language_id	Unique language identifier

Film_category table:

Table	Columns	Data Type	Description
film_category	film_id	SMALLINT	Unique film identifier
	category_id	SMALLINT	Unique category identifier
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time of last update

Links to:

Table	Join	Title/Name/Description
film	film_category.film_id= film.film_id	Foreign key constraint that referencing film.film_id
category	film_category.category_id= category.category_id	Foreign key constraint that referencing category.category_id

Links from

No table

Unique keys:

Key	Columns	Description
PK/FK	film_id	Unique film identifier
PK/FK	category_id	Unique category identifier

Category table:

Table	Columns	Data Type	Description
category	category_id	SERIAL	Unique category identifier
	name	CHARACTER VARYING (25)	Movie genre
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update

Links to

No table

Links from:

Table	Join	Title/Name/Description
film_category	film_category.category_id=category.category_id	Foreign key constraint that referencing film_category.category_id

Film_actor table:

Table	Columns	Data Type	Description
film_actor	actor_id	SMALLINT	Unique actor identifier
	film_id	SMALLINT	Unique film identifier
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time of update

Links to:

Table	Join	Title/Name/Description
actor	film_actor.film_id= actor.actor_id	Foreign key constraint that referencing actor.actor_id
film	film_actor.film_id= film.film_id	Foreign key constraint that referencing film.film_id

Links from

No table

Unique keys:

Key	Columns	Description
PK/FK	actor_id	Unique actor identifier
PK/FK	film_id	Unique film identifier

Actor table:

Table	Columns	Data Type	Description
actor	actor_id	SERIAL	Unique actor identifier
	first_name	CHARACTER VARYING (45)	Actor's first name
	last_name	CHARACTER VARYING (45)	Actor's last name
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update

Links to

No table

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Links from:

Table	Join	Title/Name/Description
film_actor	film_actor.actor_id= actor.actor_id	Foreign key constraint that referencing actor.actor_id

Unique keys:

Key	Columns	Description
PK	actor_id	Unique actor identifier