Data dictionary

ROCKBUSTER STEALTH LLC

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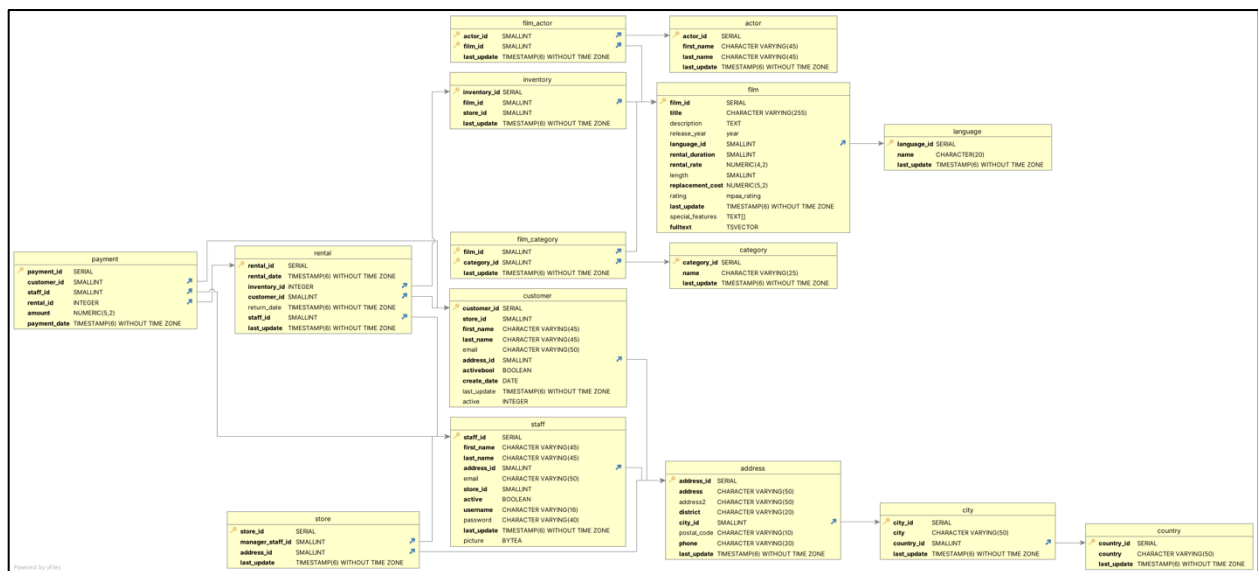
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ROCKBUSTER STEALTH LCC

Rockbuster stealth LLC is a movie rental company, planning to launch an online video rental service. The database of the company includes information about movies, customers, geographic regions, revenue, and so on. We can derive important insights from this database which can be useful while making strategies for online video rental services.

ENTITY RELATIONSHIP DIAGRAM

🔑 Primary Key

🗝 Foreign Key

FACT TABLES:

PAYMENT TABLE

Column	Data Type	Description
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)	
Payment_date	Timestamp (6) without time zone	Date and time of payment

It links to

Table	Join	Discussion
customer	payment.customer_id = customer.customer_id	Foreign key reference to the customer table
staff	payment.staff_id = staff.staff_id	Foreign key reference to the staff table
rental	payment.rental_id = rental.rental_id	Foreign key reference to the rental table

Payment table does not link from any table.

Unique keys

Column	Key Type	Description
payment_id	Primary key	Unique identifier for a payment
rental_id	Foreign key	Unique identifier for a payment

RENTAL TABLE

Column	Data Type	Description
rental_id 🔑	SERIAL	Rental identifier
rental_date	TIMESTAMP (6) WITHOUT TIMEZONE	Date when rental happened
inventory_id 🔑	INTEGER	Inventory identifier
customer_id 🔑	SMALLINT	Customer identifier
return_date	TIMESTAMP (6) WITHOUT TIMEZONE	Date when a film should be returned
staff_id 🔑	SMALLINT	Staff identifier
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date when rental was last time updated

It links to

Table	Join	Discription
inventory	rental.inventory_id = inventory.inventory_id	Foreign key reference to the inventory table
customer	rental.customer_id = customer.customer_id	Foreign key reference to the customer table
staff	rental.staff_id = staff.staff_id	Foreign key reference to the staff table

It links From

Table	Join	Discription
payment	payment.rental_id = rental.rental_id	Foreign key reference from the payment table

Unique keys

Column	Key Type	Discription
Rental_id	Primary key	Unique identifier for a rental

DIMENTION TABLE

CUSTOMER TABLE

Column	Data Type	Description
customer_id 🔑	SERIAL	Customer identifier
store_jd	SMALLINT	Store identifier
first_name	CHARACTER VARYING (45)	First name of a customer

last_name	CHARACTER VARYING (45)	Last name of a customer
email	CHARACTER VARYING (50)	Email of a customer
address_id 🔑	SMALLINT	Address identifier
activebool	BOOLEAN	Boolean Indicator whether customer is active or inactive
create_date	DATE	Date when user was registered
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of the user's last update in the table
active	INTEGER	Numeric indicator of customer's activity

It links to

Table	Join	Discussion
address	customer.address_id = address.address_id	Foreign key reference to the address table

It links From

Table	Join	Discussion
rental	rental.customer_id = customer.customer_id	Foreign key reference from the rental table

Unique keys

Column	Key Type	Description
customer_id	Primary key	Unique identifier for a customer

STAFF TABLE

Column	Data type	Description
Staff_id 🔑	SERIAL	Identifier of a staff member
First_name	CHARACTER VARYING (45)	First name of a staff member
Last_name	CHARACTER VARYING (45)	Last name of a staff member
Address_id. 🔑	SMALLINT	Staff member's address identifier

email	CHARACTER VARYING (50)	Email address of a staff member
Store-id	SMALLINT	Store identifier
active	BOOLEAN	Boolean indicator of staff member's activity
username	CHARACTER VARYING (16)	Staff member's username
password	CHARACTER VARYING (40)	Staff member's password
Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of the last update in the staff table
picture	BYTEA	Picture of a staff member

It links to

Table	Join	Discussion
address	staff.address_id = address.address_id	Foreign key reference to the address table

It links From

Table	Join	Discussion
rental	rental.customer_id = customer.customer_id	Foreign key reference from the rental table

Unique keys

Column	Key Type	Description
staff_id	Primary key	Unique identifier for a staff member

INVENTORY TABLE

Column	Data Type	Description
inventory_id	SERIAL	Inventory identifier
film_id	SMALLINT	Film identifier
store_id	SMALLINT	Store identifier
last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date of the last update in the inventory table

Table	Join	Discussion
film	inventory.film_id = film.film_id	Foreign key reference to the film table

It links From

Table	Join	Discussion
rental	rental.inventory_id = inventory.inventory_id	Foreign key reference from the rental table

Unique keys

Column	Key Type	Description
inventory	Primary key	Unique identifier for a inventory

STORE TABLE

Column	Data Type	Description
store_id 🔑	SERIAL	Store identifier
manager_staff_id 🔑	SMALLINT	Staff manager identifier
address_id 🔑	SMALLINT	Address identifier
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of the last update in the store table

It links to

Table	Join	Discussion
staff	store.manager_staff_id = staff.staff_id	Foreign key reference to the staff table
address	store.address_id = address.address_id	Foreign key reference to the address table

The Store table does not link from any other tables.

Unique keys

Column	Key Type	Description
store_id	Primary key	Unique identifier for a store
address_id	Foreign key	Unique identifier for an address

ADDRESS TABLE

Column	Data Type	Description
Address_id 🔑	SERIAL	Address identifier
address	CHARACTER VARYING (50)	Primary address
Address 2	CHARACTER VARYING (50)	Secondary address
district	CHARACTER VARYING (20)	District where an address is located
City_id 🔑	SMALLINT	City identifier
Postal_code	CHARACTER VARYING (10)	Postal code of a address
phone	CHARACTER VARYING (20)	Phone number of a corresponding address
Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of the last update in the address table

It links to

Table	Join	Discussion
city	address.city_id = city.city_id	Foreign key reference to the city table

It links From

Table	Join	Discussion
customer	customer.address_id = address.address_id	Foreign key reference from the customer table
staff	staff.address_id = address.address_id	Foreign key reference from the staff table
store	store.address_id = address.address_id	Foreign key reference from the store table

Unique keys

Column	Key Type	Description
address	Primary key	Unique identifier for an address

CITY TABLE

Column	Data Type	Description
city_id	SERIAL	City identifier
city	CHARACTER VARYING(50)	Name of a city
country_id	SMALLINT	Identifier of a country where city is located
last update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of the last update in the city table

It links to

Table	Join	Discussion
country	city.country_id = country.country_id	Foreign key reference to the country table

It links from

Table	Join	Discussion
address	address.city_id = city.city_id	Foreign key reference from the address table

Unique keys

Column	Key Type	Description
city_id	Primary key	Unique identifier for a city

COUNTRY TABLE

| Column	Data Type	Description
country_id 🔑	SERIAL	Country identifier
country	CHARACTER VARYING(50)	Name of a country
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of the last update in the country table

Country table does not link to any other table.

It links from

Table	Join	Discussion
city	city.country_id = country.country_id	Foreign key reference from the city table

Unique keys

Column	Key Type	Description
country_id	Primary key	Unique identifier for a country

FILM CATEGORY TABLE

Column	Data Type	Description
film_id 🔑 🔑	SMALLINT	Film identifier
category_id 🔑 🔑	SMALLINT	Category identifier
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of the last update in the film_category table

It links to

Table	Join	Discussion

film	film_category.film_id = film.film_id	Foreign key reference to the film table
category	film_category.category_id = category.category_id	Foreign key reference to the category table

Film category table does not link from any other table.

Unique keys

Column	Key Type	Description
film_id	Primary key	Unique identifier for a film
category_id	Primary key	Unique identifier for a category

CATEGORY TABLE

Column	Data Type	Description
category_id 🔑	SERIAL	Category identifier
name	CHARACTER VARYING(25)	Category name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of the last update in the category table

Category table does not link to any other table.

It links from

Table	Join	Discussion
film_category	film_category.category_id = category.category_id	Foreign key reference from the film_category table

Unique keys

Column	Key Type	Description
category_id	Primary key	Unique identifier for a category

FILM TABLE

Column	Data Type	Description
Film_id 🔑	SERIAL	Film identifier
title	CHARACTER VARYING (255)	Title of a film
description	TEXT	Description of a film
release_year	year	Year when film was released
Language_id 🔑	SMALLINT	Language used in a film
rental_duration	SMALLINT	Rental duration of a film
Rental_rate	Numeric (4,2)	Rental rate of a film
length	SMALLINT	Length of a film
Replacement_cost	Numeric (5,2)	Cost that needs to be covered if a film is lost or damaged
rating	Mpaa_rating	MPAA rating of the film
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update
special_features	TEXT []	Special features that might come with a film
fulltext	TSVECTOR	Full text of a film

It links to

Table	Join	Discussion
language	film.language_id = language.language_id	Foreign key reference to the language table

It links from

Table	Join	Discussion
film_actor	film_actor.film_id = film.film_id	Foreign key reference from the film_actor table
inventory	inventory.film_id = film.film_id	Foreign key reference from the inventory table
film_category	film_category.film_id = film.film_Id	Foreign key reference from the film_category table

Column	Key Type	Description
film_id	Primary key	Unique identifier for a film

LANGUAGE TABLE

Column	Data Type	Description
language_id 🔑	SERIAL	Language identifier
name	CHARACTER(20)	Name of a language
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of the last update in the language table

Language table does not link to any other tables.

It links from

Table	Join	Discussion
film	film.language_id = language.language_id	Foreign key reference from the film table

Unique keys

Column	Key Type	Description
language_id	Primary key	Unique identifier for a language

FIML ACTOR TABLE

Column	Data Type	Description
actor_id 🔑 🔑	SMALLINT	Actor identifier
film_id 🔑 🔑	SMALLINT	Film identifier
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of the last update in the film_actor table

Table	Join	Discussion
actor	film_actor.actor_id = actor.actor_id	Foreign key reference to the actor table
film	film_actor.film_id = film.film_id	Foreign key reference to the film table

Film actor table does not link from any other table.

Unique keys

Column	Key Type	Description
actor_id	Primary key	Unique identifier for an actor
film_id	Primary key	Unique identifier for a film

ACTOR TABLE

Column	Data Type	Description
actor_id 🔑 s	SERIAL	Actor identifier
first_name	CHARACTER VARYING (45)	First name of an actor
last_name	CHARACTER VARYING(45)	Last name of an actor
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of the last update in the actor table

Actor table does not link to any other tables.

It links from

Table	Join	Discussion
film_actor	film_actor.actor_id = actor.actor_id	Foreign key reference from the film_actor table

Unique keys

Column	Key Type	Description
actor_id	Primary key	Unique identifier for an actor