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Rockbuster Stealth LLC

DATA DICTIONARY
JAKOV HORVAT

Table of Contents

Rockbuster Stealth LLC.....	1
Entity Relationship Diagram	2
Fact Tables	3
Table: payment	3
Table: rental.....	4
Dimension Tables.....	5
Table: customer	5
Table: staff	6
Table: inventory	7
Table: store	8
Table: address	9
Table: city.....	10
Table: country	11
Table: film_category	12
Table: category.....	13
Table: film	14
Table: language	16
Table: film_actor	17
Table: actor	18

Rockbuster Stealth LLC

Rockbuster Stealth LLC is the video rental company which stores its data about films, stores, customers, payments, etc., in the PostgreSQL database management system. The data can be used for an analysis and generating new information from it.

Entity Relationship Diagram







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 - Primary Key

 - Foreign Key

Fact Tables

Table: payment

Column	Data Type	Description
payment_id 	SERIAL	Payment identifier
customer_id 	SMALLINT	Customer identifier
staff_id 	SMALLINT	Staff identifier
rental_id 	INTEGER	Rental identifier
amount	NUMERIC(5, 2)	Amount of a payment
payment_date	TIMESTAMP(6) WITHOUT TIMEZONE	Date when payment occurred

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

The payment table does not link from any other tables.

Unique keys:

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

Table: rental

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

Links to:

Table	Join	Discussion
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

Links from:



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

Unique keys:

Column	Key Type	Description
rental_id	Primary key	Unique identifier for a rental

Dimension Tables

Table: customer

Column	Data Type	Description
customer_id 	SERIAL	Customer identifier
store_id	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

Links to:

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



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

Table: staff

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

Links to:

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



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

Table: inventory

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

Links to:

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




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

Table: store

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

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

Table: address

Column	Data Type	Description
address_id 	SERIAL	Address identifier
address	CHARACTER VARYING(50)	Primary address
address2	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

Links to:

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



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

Table: city

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

Links to:

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


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

Table: country

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

The country table does not link to any other tables.





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

Table: film_category

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

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

The film_category table does not link from any other tables.

Unique keys:

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

Table: category

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

The category table does not link to any other tables.



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

Table: film

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)	Rate at which movie is rented
length	SMALLINT	Length of a film
replacement_cost	NUMERIC(5,2)	Cost that needs to be covered if a film is damaged or lost
rating	mpaa_rating	MPAA rating of a film
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of the last update in the film table
special_features	TEXT[]	Special features that might come with a film
fulltext	TSVECTOR	Full text of a film (???) All conversations in a film (???)

Links to:

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


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

Unique keys

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

Table: language

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

Links from:





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

The language table does not link to any other tables.

Unique keys:

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

Table: film_actor

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

The film_actor table does not link from any other tables.


Links to:

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

Unique keys:

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

Table: actor

Column	Data Type	Description
actor_id 	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

Links from:

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

The actor table does not link to any other tables.

Unique keys:

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