Rockbuster
Data Dictionary

3/2023

Rockbuster Data Dictionary

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Entity Relationships Diagram (ERD) Rockbuster Database

Fact Tables:

Rental

Tables	Relationships	Columns	Data Type	Description
Rental	Primary Key	rental_id	serial	ID of rental transaction
		rental_date	Timestamp w/o timezone	Date of rental
	Foreign Key	inventory_id	integer	ID for item rented
	Foreign Key	customer_id	smallint	ID for customer
		staff_id	smallint	ID for staff performing transaction
	Foreign Key	last_update	Timestamp w/o timezone	When table was updated

Linked tables

Table Name	Join	To/ From
Payment	rental_id = rental_id	From
Staff	staff_id =staff_id	To
Customer	customer_id=customer_id	To
Inventory	inventory_id = inventory_id	To

Payment

Tables	Relationships	Columns	Data Type	Description
Payment	Primary Key	payment_id	serial	Unique ID of payment for rental
	Foreign Key	customer_id	smallint	ID for customer
	Foreign Key	staff_id	smallint	ID for staff performing transaction
	Foreign Key	rental_id	integer	ID of rental transaction
		Amount	numeric	Cost of rental/amount paid
		payment_date	Timestamp w/o tz	Date of payment

Linked Tables

Table Name	Join	To/ From
Rental	rental_id = rental_id	To
Customer	customer_id= customer_id	To
Staff	staff_id = staff_id	To

Dimension Tables:

Store

Tables	Relationships	Columns	Data Type	Description
store	Primary Key	store_id	serial	Unique ID for store
	Foreign Key	manager_staff_id	smallint	ID for manager of store
	Foreign Key	address_id	smallint	Address Id for the store
		last_update	Timestamp w/o tz	Last update of table

Linked tables

Table Name	Join	To/ From
Staff	store_id = store_id	To
Address	address_id = adress_id	To

Staff

Tables	Relationships	Columns	Data Type	Description
staff	Primary Key	staff_id	serial	Unique ID for staff member
		first_name	Character var(45)	First name of staff member
		last_name	Character var(45)	Last name of staff member
	Foreign Key	address_id	smallint	Address Id for the store
		email	Character var(45)	Email of staff member
	Foreign Key	store_id	smallint	Unique ID for store
		active	boolean	Active or not/ yes or no
		username	Character var(45)	Username of staff member
		password	Character var(45)	Password of staff member
		last_update	Timestamp w/o tz	Last update of table
		picture	bytea	Picture of staff member

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Linked tables

Table Name	Join	To/ From
rental	rental_id =rental_id	From
payment	staff_id =staff_id	From
store	store_id = store_id	From
address	address_id = adress_id	To

Customer

Tables	Relationships	Columns	Data Type	Description
customer	Primary Key	customer_id	serial	ID for customer
	Foreign key	store_id	smallint	Unique ID for store
		first_name	Character var(45)	First name of customer
		last_name	Character var(45)	Last name of customer
		email	Character var(45)	Email of customer
	Foreign key	address_id	smallint	Address Id for the store
		activebool	boolean	true/false customer active
		create_date	date	Date when customer is first entered
		last_update	Timestamp w/o tz	Last update of table
		active	integer	Active integer

Linked tables

Table Name	Join	To/ From
payment	customer_id = customer_id	From
rental	rental_id = rental_id	From
address	address_id = adress_id	To

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Address

Tables	Relationships	Columns	Data Type	Description
address	Primary Key	address_id	serial	Unique Id for address
		address	Character var(50)	Address
		address2	Character var(50)	Address cont.
		district	Character var(20)	District
	Foreign Key	city_id	smallint	ID of city
		postal_code	Character var(10)	Postal code
		phone	Character var(20)	Phone #
		last_update	Timestamp w/o tz	Last update of table

Linked tables

Table Name	Join	To/ From
staff	address_id = adress_id	From
customer	address_id = adress_id	From
store	address_id = adress_id	From
city	city_id = city_id	To

City

Tables	Relationships	Columns	Data Type	Description
city	Primary Key	city_id	serial	Unique city id
		city	Character var(50)	City names
	Foreign Key	country_id	smallint	Unique id of country
		Last update	Timestamp w/o tz	Last update of table

Linked tables

Table Name	Join	To/ From
address	address_id = address_id	From
Country	country_id = country_id	To

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Country

Tables	Relationships	Columns	Data Type	Description
country	Primary Key	country _id	serial	Unique id for country
		country	Character var(50)	Country name
		last_update	Timestamp w/o tz	Last update of table

Linked tables

Table Name	Join	To/ From
city	city_id = city_id	From

Film Category

Tables	Relationships	Columns	Data Type	Description
film_category	Primary Key	film_id	smallint	Unique id for film
	Foreign Key	category_id	smallint	Unique id for category
		last_update	Timestamp w/o tz	Last update of table

Linked tables

Table Name	Join	To/ From
category	category_id = category_id	To
film	film_id = film_id	To

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Inventory

Tables	Relationships	Columns	Data Type	Description
inventory	Primary key	inventory_id	serial	Unique ID for inventory item
	Foreign Key	film_id	smallint	Unique id for film
	Foreign Key	store_id	smallint	Unique ID for store
		last_update	Timestamp w/o tz	Last update of table

Linked tables

Table Name	Join	To/ From
rental	rental_id = rental_id	From
film	film_id = film_id	To

film_actor

Tables	Relationships	Columns	Data Type	Description
film_actor	Primary Key	actor_id	smallint	Unique id for actor
	Foreign Key	film_id	smallint	Unique id for film
		last_update	Timestamp w/o tz	Last update of table

Linked tables

Table Name	Join	To/ From
actor	actor_id = actor_id	To
film	film_id = film_id	To

Actor

Tables	Relationships	Columns	Data Type	Description
actor	Primary Key	actor_id	serial	Unique id for actor
		first_name	Character var(45	First name of actor
		last_name	Character var(45	Last name of actor
		last_update	Timestamp w/o tz	Last update of table

Linked tables

Table Name	Join	To/ From
film_actor	actor_id = actor_id	From

Film

Tables	Relationships	Columns	Data Type	Description
film	Primary Key	film_id	serial	Unique id for film
		title	Character var(45	Title of film
		description	text	Description of film
		release_year	year	Year film released
	Foreign Key	language_id	smallint	Unique id for the language of the film
		rental_duration	smallint	Duration of rental in days
		rental_rate	numeric(4.2)	Cost of rental
		length	smallint	Length of film
		replacement_cost	numeric(5.2)	Cost of replacing if rental not returned
		rating	Mpaa _rating	Rating of movie (ex. PG, R)
		last_update	Timestamp w/o tz	Last update of table
		special_features	text[]	Features of the film (ex. Deleted scenes, trailers)
		fullext	tsvector	Index for film

Linked tables

Table Name	Join	To/ From
film_actor	film_actor = film_actor	From
inventory	film_id = film_id	From
film_category	film_id = film_id	From
language	language_id = language_id	To

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Language

Tables	Relationships	Columns	Data Type	Description
language	Primary Key	language_id	serial	Unique id for language
		name	character(20)	Name of the language
		last_update	Timestamp w/o tz	Last update of table

Linked tables

Table Name	Join	To/ From
film	language_id = language_id	From

Category

Tables	Relationships	Columns	Data Type	Description
category	Primary Key	category_id	serial	Unique id for the category
		name	Character var(25	Name of category
		last_update	Timestamp w/o tz	Last update of table

Linked tables

Table Name	Join	To/ From
film_category	category_id = category_id	From