Rockbuster

Streaming Service Transition Project

Data Dictionary

Kaci Erwin

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1. Tables

Table: Payment

Records payment information for each rental transaction.

Columns

Column Name	Data Type	Description
payment_id	SERIAL	Unique identifier for each payment
customer_id	SMALLINT	Identifier for the customer making the payment
staff_id	SMALLINT	Identifier for the staff processing the payment
rental_id	INTEGER	Identifier for the rental associated with payment
amount	NUMERIC(5,2)	The amount of the payment
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time when the payment was made

Links To

Table	Join Using
customer	customer_id
rental	rental_id
staff	staff_id

Linked From

Table	Join Using

Unique Key

Column	Description
payment_id	primary key

Table:Rental

This table records each movie rental transaction.

Columns

Column Name	Data Type	Description
rental_id	SERIAL	Unique identifier for each rental
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time when the rental started
inventory_id	INTEGER	Identifier for the inventory item rented
customer_id	SMALLINT	Identifier for the customer renting the item
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time when the item was returned
staff_id	SMALLINT	Identifier for the staff handling the rental
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update timestamp for this record

Links To

Table	Join Using
inventory	inventory_id
customer	customer_id
staff	staff_id

Linked From

Table	Join Using
payment	rental_id

Unique Key

Column	Description
rental_id	primary key

Table: Film_actor

This table links actors to the films they have appeared in.

Columns

Column Name	Data Type	Description
actor_id	SMALLINT	Identifier for the actor
film_id	SMALLINT	Identifier for the film
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update timestamp for this record

Links To

Table	Join Using
actor	actor_id
film	film_id

Linked From

Table	Join Using

Unique Key

Column	Description
actor_id	primary key
film_id	candidate key

Table: Inventory

This table tracks each copy of a film available at the store.

Columns

Column Name	Data Type	Description
inventory_id	SERIAL	Unique identifier for each inventory item
film_id	SMALLINT	Identifier for the film in the inventory
store_id	SMALLINT	Identifier for the store holding the item
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update timestamp for this record

Links To

Table	Join Using
film	film_id

Linked From

Table	Join Using

Unique Key

Column	Description
inventory_id	primary key

Table: Film_category

This table associates films with their respective genres.

Columns

Column Name	Data Type	Description
film_id	SMALLINT	Identifier for the film
category_id	SMALLINT	Identifier for the category of the film
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update timestamp for this record

Links To

Table	Join Using
film	film_id
category	category_id

Linked From

Table	Join Using

Unique Key

Column	Description
film_id	primary key
category_id	candidate key

Table: Customer

This table contains information about customers.

Columns

Column Name	Data Type	Description
customer_id	SERIAL	Unique identifier for each customer
store_id	SMALLINT	Identifier for the store where the customer is registered
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	Identifier for the customer's address
activebool	BOOLEAN	Boolean flag for customer's active status
create_date	DATE	Date when the customer was created
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update timestamp for this record
active	INTEGER	Numerical status for customer's activity

Links To

Table	Join Using
address	address_id

Linked From

Table	Join Using
rental	customer_id
payment	customer_id

Unique Key

Column	Description
customer_id	primary key

Table: Staff

This table holds information about the store staff.

Columns

Column Name	Data Type	Description
staff_id	SERIAL	Unique identifier for each staff member
first_name	CHARACTER VARYING(45)	Staff member's first name
last_name	CHARACTER VARYING(45)	Staff member's last name
address_id	SMALLINT	Identifier for the staff's address
email	CHARACTER VARYING(50)	Staff member's email address
store_id	SMALLINT	Identifier for the store where the staff works
active	BOOLEAN	Boolean flag for staff's active status
username	CHARACTER VARYING(16)	Staff member's username
password	CHARACTER VARYING(40)	Staff member's password
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update timestamp for this record
picture	BYTEA	Binary data for the staff member's picture

Links To

Table	Join Using
address	address_id

Linked From

Table	Join Using
payment	staff_id

Unique Key

Column	Description
staff_id	primary key

Table: Store

This table contains information about each store.

Columns

Column Name	Data Type	Description
store_id	SERIAL	Unique identifier for each store
manager_staff_id	SMALLINT	Identifier for the store's manager
address_id	SMALLINT	Identifier for the store's address
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update timestamp for this record

Links To

Table	Join Using
staff	store_id
adress	adress_id

Linked From

Table	Join Using

Unique Key

Column	Description
store_id	primary key

Table: Actor

This table maintains information about actors.

Columns

Column Name	Data Type	Description
actor_id	SERIAL	Unique identifier for each actor
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	Last update timestamp for this record

Links To

Table	Join Using

Linked From

Table	Join Using
film_actor	actor_id

Unique Key

Column	Description
actor_id	primary key

Table: Film

Holds information about each movie that is available for rent.

Columns

Column Name	Data Type	Description
film_id	SERIAL	Unique identifier for each film
title	CHARACTER VARYING(255)	Title of the film
description	TEXT	Description of the film
release_year	year	Year when the film was released
language_id	SMALLINT	Identifier for the language of the film
rental_duration	SMALLINT	Duration for which the film can be rented
rental_rate	NUMERIC(4,2)	Rate at which the film can be rented
length	SMALLINT	Length of the film in minutes
replacement_cos t	NUMERIC(5,2)	Cost to replace the film
rating	mpaa_rating	MPAA rating of the film
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update timestamp for this record
special_features	TEXT[]	List of special features of the film
fulltext	TSVECTOR	Full text for search indexing

Links To

Table	Join Using
language	language_id

Linked From

Table	Join Using
film_actor	film_id
inventory	film_id
film_category	film_id

Unique Key

Column	Description
film_id	primary key

Table: Category

Contains a list of different film categories or genres.

Columns

Column Name	Data Type	Description
category_id	SERIAL	Unique identifier for each category
name	CHARACTER VARYING(25)	Name of the category
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update timestamp for this record

Links To

Table	Join Using

Linked From

Table	Join Using
film_category	category_id

Unique Key

Column	Description
category_id	primary key

Table: Address

Stores address information for stores, customers, and staff.

Columns

Column Name	Data Type	Description
address_id	SERIAL	Unique identifier for each address
address	CHARACTER VARYING(50)	Address line 1
address2	CHARACTER VARYING(50)	Address line 2 (optional)
district	CHARACTER VARYING(20)	District or area of the address
city_id	SMALLINT	Identifier for the city of the address
postal_code	CHARACTER VARYING(10)	Postal code of the address
phone	CHARACTER VARYING(20)	Phone number associated with the address
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update timestamp for this record

Links To

Table	Join Using
city	city_id

Linked From

Table	Join Using
store	address_id
staff	address_id
customer	address_id

Unique Key

Column	Description
address_id	primary key

Table: Language

Keeps track of languages available for films.

Columns

Column Name	Data Type	Description
language_id	SERIAL	Unique identifier for each language
name	CHARACTER(20)	Name of the language
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update timestamp for this record

Links To

Table	Join Using

Linked From

Table	Join Using
film	language_id

Unique Key

Column	Description
language_id	primary key

Table: City

Contains details of cities.

Columns

Column Name	Data Type	Description
city_id	SERIAL	Unique identifier for each city
city	CHARACTER VARYING(50)	Name of the city
country_id	SMALLINT	Identifier for the country of the city
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update timestamp for this record

Links To

Table	Join Using
country	country_id

Linked From

Table	Join Using
adress	city_id

Unique Key

Column	Description
city_id	primary key

Table: Country

Holds information on countries.

Columns

Column Name	Data Type	Description
country_id	SERIAL	Unique identifier for each country
country	CHARACTER VARYING(50)	Name of the country
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update timestamp for this record

Links To

Table	Join Using

Linked From

Table	Join Using
city	country_id

Unique Key

Column	Description
country_id	primary key