ROCKBUSTER STEALTH DATA ANALYSIS PROJECT

Data Dictionary

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ENTITY RELATIONSHIP DIAGRAM

film_actor

actor_id	SMALLINT
film_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

actor

actor_id	SERIAL
first_name	CHARACTER VARYING(45)
last_name	CHARACTER VARYING(45)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

inventory

inventory_id	SERIAL
film_id	SMALLINT
store_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

film

film_id	SERIAL
title	CHARACTER VARYING(255)
description	TEXT
release_year	year
language_id	SMALLINT
rental_duration	SMALLINT
rental_rate	NUMERIC(4,2)
length	SMALLINT
replacement_cost	NUMERIC(5,2)
rating	mpaa_rating
last_update	TIMESTAMP(6) WITHOUT TIME ZONE
special_features	TEXT[]
fulltext	TSVECTOR

language

language_id	SERIAL
name	CHARACTER(20)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

film_category

film_id	SMALLINT
category_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

category

category_id	SERIAL
name	CHARACTER VARYING(25)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

payment

payment_id	SERIAL
customer_id	SMALLINT
staff_id	SMALLINT
rental_id	INTEGER
amount	NUMERIC(5,2)
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE

rental

rental_id	SERIAL
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE
inventory_id	INTEGER
customer_id	SMALLINT
return_date	TIMESTAMP(6) WITHOUT TIME ZONE
staff_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

customer

customer_id	SERIAL
store_id	SMALLINT
first_name	CHARACTER VARYING(45)
last_name	CHARACTER VARYING(45)
email	CHARACTER VARYING(50)
address_id	SMALLINT
activebool	BOOLEAN
create_date	DATE
last_update	TIMESTAMP(6) WITHOUT TIME ZONE
active	INTEGER

staff

staff_id	SERIAL
first_name	CHARACTER VARYING(45)
last_name	CHARACTER VARYING(45)
address_id	SMALLINT
email	CHARACTER VARYING(50)
store_id	SMALLINT
active	BOOLEAN
username	CHARACTER VARYING(16)
password	CHARACTER VARYING(40)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE
picture	BYTEA

address

address_id	SERIAL
address	CHARACTER VARYING(50)
address2	CHARACTER VARYING(50)
district	CHARACTER VARYING(20)
city_id	SMALLINT
postal_code	CHARACTER VARYING(10)
phone	CHARACTER VARYING(20)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

store

store_id	SERIAL
manager_staff_id	SMALLINT
address_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

city

city_id	SERIAL
city	CHARACTER VARYING(50)
country_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

country

country_id	SERIAL
country	CHARACTER VARYING(50)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

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FACT TABLES

Payment

Key	Columns	Data Type	Description
Primary	payment_id	SERIAL	Unique identifier for payments
Foreign	customer_id	SMALLINT	Unique identifier for customers
Foreign	staff_id	SMALLINT	Unique identifier for staff
Foreign	rental_id	INTEGER	Unique identifier for rentals
	amount	NUMERIC (5,2)	Amount paid (5 total digits, 2 digits to the right of the decimal point)
	payment_date	TIMESTAMP (6) WIHTOUT TIME ZONE	Date (yyyy-mm-dd) and time (hours:minutes:sec) of the payment

Rental

Key	Columns	Data Type	Description
Primary	rental_id	SERIAL	Unique identifier for rentals
	rental_date	TIMESTAMP (6) WIHTOUT TIME ZONE	Date (yyyy-mm-dd) and time (hours:minutes:sec) of the rental
Foreign	inventory_id	INTEGER	Unique identifier for rented item
Foreign	customer_id	SMALLINT	Unique identifier for customers
	return_date	TIMESTAMP (6) WIHTOUT TIME ZONE	Date (yyyy-mm-dd) and time (hours:minutes:sec) of the return deadline
Foreign	staff_id	SMALLINT	Unique identifier for staff
	last_update	TIMESTAMP (6) WIHTOUT TIME ZONE	Date (yyyy-mm-dd) and time (hours:minutes:sec) of last update

DIMENSION TABLES

Actor

Key	Columns	Data Type	Description
Primary	actor_id	SERIAL	Unique identifier for actors
	first_name	CHARACTER VARYING(45)	Actor's first name, max 45 characters
	last_name	CHARACTER VARYING(45)	Actor's last name, max 45 characters
	last_update	TIMESTAMP(6) WIHTOUT TIME ZONE	Date (yyyy-mm-dd) and time (hours:minutes:sec) of last update

Address

Key	Columns	Data Type	Description
Primary	address_id	SERIAL	Unique identifier for addresses
	address	CHARACTER VARYING(50)	Address information, line 1
	address2	CHARACTER VARYING(50)	Address information, line 2
	district	CHARACTER VARYING(20)	District/state/region
Foreign	city_id	SMALLINT	Unique identifier for cities, linked to city table
	postal_code	CHARACTER VARYING(10)	Postal code, max 10 characters
	phone	CHARACTER VARYING(20)	Phone number, max 20 characters
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date (yyyy-mm-dd) and time (hours:minutes:sec) of last update

Category

Key	Columns	Data Type	Description
Primary	category_id	SERIAL	Unique identifier for films
	name	CHARACTER VARYING(25)	Name of the film category, max 25 characters
	last_update	TIMESTAMP(6) WIHTOUT TIME ZONE	Date (yyyy-mm-dd) and time (hours:minutes:sec) of last update

City

Key	Columns	Data Type	Description
Primary	city_id	SERIAL	Unique identifier for cities
	city	CHARACTER VARYING(50)	Name of the city
Foreign	country_id	SMALLINT	Foreign key, unique identifier for counties, linked to country table
	last_update	TIMESTAMP(6) WIHTOUT TIME ZONE	Date (yyyy-mm-dd) and time (hours:minutes:sec) of last update

Customer

Key	Columns	Data Type	Description
Primary	customer_id	SERIAL	Unique identifier for customers
	store_id	SMALLINT	Small integer, unique identifier for stores
	first_name	CHARACTER VARYING(45)	Customer's first name, max 45 characters
	last_name	CHARACTER VARYING(45)	Customer's last name, max 45 characters
	email	CHARACTER VARYING(50)	Customer's email, max 50 characters
Foreign	address_id	SMALLINT	Customer's address, linked to address table
	activebool	BOOLEAN	True (active) or false (inactive) statement to indicate the customer account's status
	create_date	DATE	The date when the customer's account was created (yyyy-mm-dd)
	last_update	TIMESTAMP(6) WIHTOUT TIME ZONE	Date (yyyy-mm-dd) and time (hours:minutes:sec) of last update
	active	INTEGER	Active or inactive statement to indicate the customer account's status

Film

Key	Columns	Data Type	Description
Primary	film_id	SERIAL	Unique identifier for films
	title	CHARACTER VARYING(255)	Film title, max 255 characters
	description	TEXT	Film synopsis with unlimited length
	release_year	year	Year of the film release
	language_id	SMALLINT	Foreign key, unique identifier for language, linked to language table
	rental_duration	SMALLINT	Number of days the film was rented for
	rental_rate	NUMERIC(4,2)	Rating, numeric value with 4 digits, including 2 decimals
	length	SMALLINT	Length of the film (minutes)
	replacement_cost	NUMERIC(5,2)	Cost of rental item if lost or damaged. Numeric value with 5 digits, including 2 decimals
	rating	mpaa_rating	Motion Picture Association of America film rating
	last_update	TIMESTAMP(6) WIHTOUT TIME ZONE	Date (yyyy-mm-dd) and time (hours:minutes:sec) of last update
	special_features	TEXT[]	Extra information available in the film
	fulltext	TVSECTOR	Extra information about content

Film category

Key	Columns	Data Type	Description
Composite	film_id	SMALLINT	Unique identifier for actors, and foreign key linked to film table
Composite	category_id	SMALLINT	Unique identifier for film categories and foreign key linked to category table
	last_update	TIMESTAMP(6) WIHTOUT TIME ZONE	Date (yyyy-mm-dd) and time (hours:minutes:sec) of last update

Inventory

Key	Columns	Data Type	Description
Primary	inventory_id	SERIAL	Unique identifier for rented films
Foreign	film_id	SMALLINT	Unique identifier for films, linked to film table
	store_id	SMALLINT	Unique identifier for stores
	last_update	TIMESTAMP(6) WIHTOUT TIME ZONE	Date (yyyy-mm-dd) and time (hours:minutes:sec) of last update

Language

Key	Columns	Data Type	Description
Primary	language_id	SERIAL	Unique identifier for languages
	name	CHARACTER(20)	Name of the language of the film
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date (yyyy-mm-dd) and time (hours:minutes:sec) of last update

Staff

Key	Columns	Data Type	Description
Primary	staff_id	SERIAL	Unique identifier for staff
	first_name	CHARACTER VARYING(45)	Employee's first name, max 45 characters
	last_name	CHARACTER VARYING(45)	Employee's last name, max 45 characters
Foreign	address_id	SMALLINT	Employee's address, linked to address table
	email	CHRACTER VARYING(50)	Employee's email, max 50 characters
	store_id	SMALLINT	Unique identifier for stores
	active	BOOLEAN	True (active) or false (inactive) statement to indicate the employee's status
	username	CHARACTER VARYING(16)	Employee's username used for log-in purposes, max 16 characters
	password	CHRACTER VARYING(40)	Employee's password used for log-in purposes, max 40 characters

Store

Key	Columns	Data Type	Description
Primary	store_id	SERIAL	Unique identifier for stores
Foreign	manager_staff_id	SMALLINT	Unique identifier for manager staff (linked to staff table)
Foreign	address_id	SMALLINT	Unique identifier for stores address (linked to address table)
	last_update	TIMESTAMP (6) WIHTOUT TIME ZONE	Date (yyyy-mm-dd) and time (hours:minutes:sec) of last update