



Rockbuster Stealth LLC

Data Dictionary

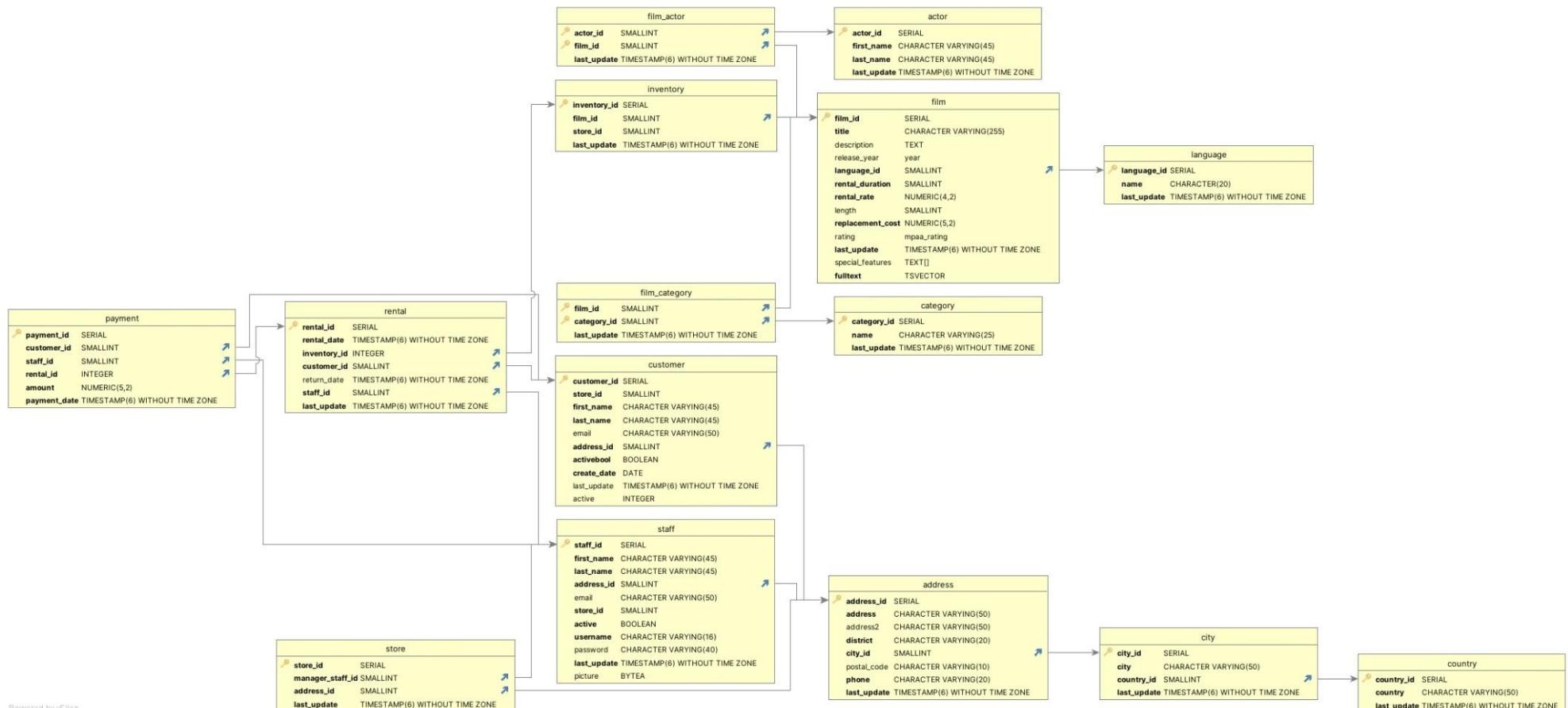
Oumaima Salmi

31.05.2024

Contents

Entity relationship diagram.....	2
Fact table: film	3
Fact table: payment	4
Fact table: rental	4
Dimension table: film_category.....	5
Dimension table: actor.....	6
Dimension table: film_actor	6
Dimension table: inventory.....	6
Dimension table: customer.....	7
Dimension tables: staff	7
Dimension table: store.....	8
Dimension table: address	8
Dimension tables: city.....	9
Dimension tables: country.....	9

Entity relationship diagram



Powered by yFiles

Legend:

🔑 Primary key

↗ Foreigner key

Fact table: film

Columns	Data Type	Description
Film_id 🔑	SERIAL	Identification nbr in the database
Title	CHAR(255)	Title of the film
Description	TEXT	Description of the movie
Release_year	Year	The year the film has been released
Language_id ↗	SMALLINT	Nbr identification of the films' language
Rental_duration	SMALLINT	The amount of time the film is rented
Rental_rate	NUMERIC (4,2)	The rate at which the film is rented (if popular the rate will be higher)
Length	SMALLINT	Length of the film (in minutes)
Replacement_cost	NUMERIC (5,2)	The price of the film replacement
Rating	Mpaa_rating	Rates the minimum age required to watch the film
Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	When the movie has last seen any update on the database (for example update of info on the movie)
Special_features	TEXT[]	If the film also has behind the scenes, deleted scenes or a simple trailer
Fulltext	TSVECTOR	A merger of the title and description of the movie

Fact table: payment

Columns	Data Type	Description
Payment_id 	SERIAL	The id nbr of the payment action
Customer_id 	SMALLINT	The unique id nbr of the customer in the database
Staff_id 	SMALLINT	The id nbr of the staff that did the rental transaction with the customer
Rental_id 	INTEGER	The id nbr of the rental in the database
Amount	NUMERIC (5,2)	The price of the rental
Payment_date	TIMESTAMP (6) WITHOUT TIME ZONE	The date when the payment happened

Fact table: rental

Columns	Data Type	Description
Rental_id 	SERIAL	The id nbr of the rental in the database
Rental_date	TIMESTAMP (6) WITHOUT TIME ZONE	When the film was rented
Inventory_id 	INTEGER	The id nbr of the movie in the inventory
Customer_id 	SMALLINT	The unique id nbr of the customer in the database
Return_date	TIMESTAMP (6) WITHOUT TIME ZONE	The date when the movie was returned
Staff_id 	SMALLINT	The id nbr of the staff that did the rental transaction with the customer
Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	When the rental section has last seen any update on the database (ex: address change)

Dimension table: film_category

Columns	Data Type	Description
Film_id  	SMALLINT	Identification nbr in the database
Category_id  	SMALLINT	The category/genre of the films
Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	When the movie has last seen any update on the database (for example update of info on the movie)

1. Dimension table: category

Columns	Data Type	Description
Category_id 	SERIAL	Nbr category of the genre of the film
Name	CHARVAR (25)	Full name of the category
Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	When the categories have last seen any update on the database (for example update of info on the movie)

2. Dimension table: language

Columns	Data Type	Description
Language_id 	SMALLINT	Nbr identification of the films' language
Name	CHARACTER (20)	The full name of the language (English, French, Mandarin...)

Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	When the language section has last seen any update on the database.
-------------	---------------------------------	---

Dimension table: actor

Columns	Data Type	Description
Actor_id	SERIAL	Nbr ID of actors in the database
First_name	CHARVAR (45)	First name of the actor
Last_name	CHARVAR (45)	Last name of the actor
Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	When the actor section has last seen any update on the database.

Dimension table: film_actor

Columns	Data Type	Description
Actor_id  	SMALLINT	Nbr ID of actors in the database
Film_id  	SMALLINT	The id of the film in the database
Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	When the actor section has last seen any update on the database.

Dimension table: inventory

Columns	Data Type	Description
Inventory_id 	SERIAL	The id nbr that films have in the database
Film_id 	SMALLINT	The id nbr of the film in the database

Store_id	SMALLINT	The id nbr of the store where the movie is located
Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	When the inventory section has last seen any update on the database.

Dimension table: customer

Columns	Data Type	Description
Customer_id 	SERIAL	The unique id nbr of the customer in the database
Store_id	SMALLINT	The id nbr of the store where the movie is located
First_name	CHARVAR (45)	First name of the customer
Last_name	CHARVAR (45)	Last name of the customer
Email	CHARVAR (50)	Email address of the customer
Address_id 	SMALLINT	Id nbr of the postal address of the customer
Activebool	BOOLEAN	If it is an active customer (only true)
Create_date	DATE	First time the customer created his account
Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	When the customer section has last seen any update on the database (ex: address change)
Active	INTEGER	If the customer is still active (1 or 0)

Dimension tables: staff

Columns	Data Type	Description
Staff_id 	SERIAL	The id nbr of the staff that did the rental transaction with the customer

First_name	CHARVAR (45)	First name of the staff member
Last_name	CHARVAR (45)	Last name of the staff member
Address_id ↗	SMALLINT	The id nbr of the location of the store
Email	CHARVAR (45)	Email address of the store staff
Store_id	SMALLINT	The id nbr of the store where the movie is located
Active	BOOLEAN	If the staff member still active or not (true)
Username	CHARVAR (16)	Username of the staff member
password	CHARVAR (40)	Password of the staff member in the system
Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	When the staff section has last seen any update on the database (ex: new password)
Picture	BYTEA	Picture of the staff member (not visible)

Dimension table: store

Columns	Data Type	Description
Store_id ⚡	SERIAL	The id nbr of the store where the movie is located
Manager_staff_id ↗	SMALLINT	The id number of the staff manager
Address_id ↗	SMALLINT	The id nbr of the location of the store
Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	When the store section has last seen any update on the database (ex: address change)

Dimension table: address

Columns	Data Type	Description
Address_id ⚡	SERIAL	The id nbr of the location of the store
Address	CHARVAR (50)	Address of the store

Address2	CHARVAR (50)	Complementary address of the store
district	CHARVAR (20)	District address of the store
City_id ↗	SMALLINT	The id nbr of the city
Postal_code	CHARVAR (10)	Postal code of the store location
phone	CHARVAR (20)	Phone number of the store
Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	When the store address section has last seen any update on the database (ex: phone number change)

Dimension tables: city

Columns	Data Type	Description
City_id ↗	SERIAL	The id nbr of the city store location
City	CHARVAR (50)	The name of the city store location
Country_id ↗	SMALLINT	The id nbr of the country of the store location
Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	When the store city section has last seen any update on the database

Dimension tables: country

Columns	Data Type	Description
Country_id ↗	SERIAL	The id nbr of the country of the store location
country	CHARVAR (50)	The name of the country store location
Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	When the store country section has last seen any update on the database