



MARCH 17, 2024

ROCKBUSTER STEALTH ANALYSIS

DATA DICTIONARY

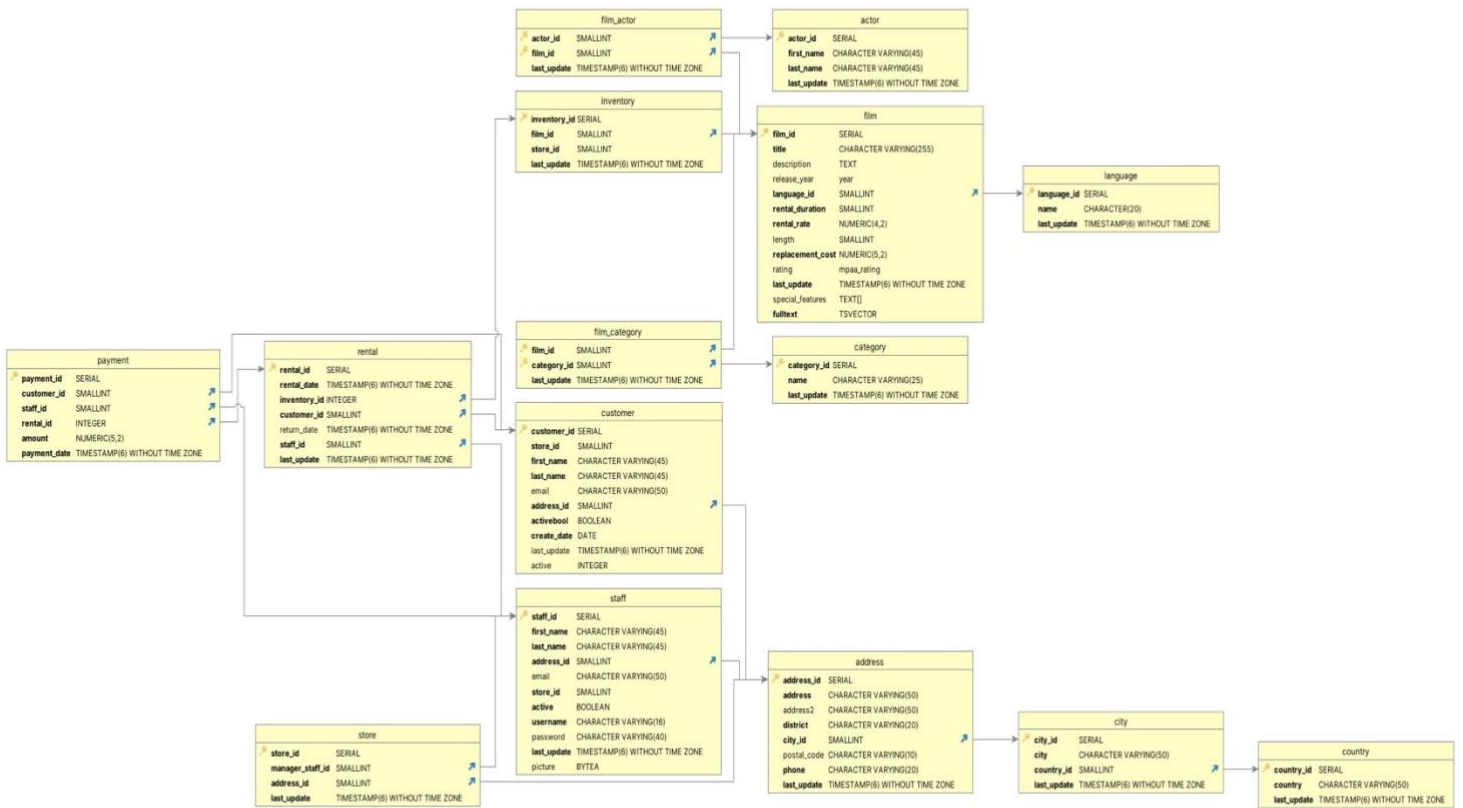
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1. Entity Relationship Diagram (ERD)



2. Fact Tables

Payment

Columns	Data Type	Key	Description
payment_id	SERIAL	PK	Unique id associated with each payment.
customer_id	SMALLINT	FK	Unique id associated with each customer
staff_id	SMALLINT	FK	Unique id associated with each employee
rental_id	INTEGER	FK	Unique id associated with each rental
amount	NUMERIC(5,2)		Price of rental
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE		When the rental was paid for

Links to

Table	Join
rental	rental_id
customer	customer_id
staff	staff_id

Rental

Columns	Data Type	Key	Description
rental_id	SERIAL	PK	Unique id associated with each rental
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE		date rented
inventory_id	INTEGER	FK	Unique id associated with inventory details
customer_id	SMALLINT	FK	Unique id associated with each customer
return_date	TIMESTAMP(6) WITHOUT TIME ZONE		date returned
staff_id	SMALLINT	FK	Unique id associated with each employee
last_update	TIMESTAMP(6) WITHOUT TIME ZONE		Date and time of last update of information

Links to

Table	Join
inventory	inventory_id
customer	customer_id
staff	staff_id

Links from

Table	Join
payment	rental_id

3. Dimension Tables

film_actor

Columns	Data Type	Key	Description
actor_id	SMALLINT	CK	Unique id associated with each actor
film_id	SMALLINT	CK	Unique id associated with each film
last_update	TIMESTAMP(6) WITHOUT TIME ZONE		Date and time of last update of information

Links to

Table	Join
actor	actor_id
film	film_id

Inventory

Columns	Data Type	Key	Description
inventory_id	SERIAL	PK	Unique id associated with inventory details
film_id	SMALLINT	FK	Unique id associated with each film
store_id	SMALLINT		Unique id for each store
last_update	TIMESTAMP(6) WITHOUT TIME ZONE		Date and time of last update of information

Links to

Table	Join
film	film_id

Links from

Table	Join
rental	inventory_id

film_category

Columns	Data Type	Key	Description
film_id	SMALLINT	CK	Unique id associated with each film
category_id	SMALLINT	CK	Unique id for each film category
last_update	TIMESTAMP(6) WITHOUT TIME ZONE		Date and time of last update of information

Links to

Table	Join
category	category_id
film	film_id

Customer

Columns	Data Type	Key	Description
customer_id	SERIAL	PK	Unique id associated with each customer
store_id	SMALLINT		Unique id for each store
first_name	CHARACTER VARYING(45)		First name of customer
last_name	CHARACTER VARYING(45)		Last name of customer
email	CHARACTER VARYING(50)		Email address of customer
address_id	SMALLINT	FK	Unique id for each address
activebool	BOOLEAN		Active customer, true or false
create_date	DATE		Date of creation of customer in system
last_update	TIMESTAMP(6) WITHOUT TIME ZONE		Date and time of last update of information
active	INTEGER		Active customer

Links to

Table	Join
address	address_id

Links from

Table	Join
rental	customer_id
payement	customer_id

Staff

Columns	Data Type	Key	Description
staff_id	SERIAL	PK	Unique id for each staff member
first_name	CHARACTER VARYING(45)		Staff member first name
last_name	CHARACTER VARYING(45)		Staff member last name
address_id	SMALLINT	FK	Unique id for staff address
email	CHARACTER VARYING(50)		Staff member email
store_id	SMALLINT		Unique id for each store
active	BOOLEAN		Staff member active, true or false
username	CHARACTER VARYING(16)		Staff member username
password	CHARACTER VARYING(40)		Staff member password
last_update	TIMESTAMP(6) WITHOUT TIME ZONE		Date and time of last update of information
picture	BYTEA		Staff photo

Links to

Table	Join
address	address_id

Links from

Table	Join
rental	address_id
payment	staff_id
store	address_id

Store

Columns	Data Type	Key	Description
store_id	SERIAL	PK	Unique id for each store
manager_staff_id	SMALLINT	FK	Unique id for manager of store
address_id	SMALLINT	FK	Unique id for store address

last_update	TIMESTAMP(6) WITHOUT TIME ZONE		date and time of last update of information
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Links to

Table	Join
staff	manager_staff_id
address	address_id

Actor

Columns	Data Type	Key	Description
actor_id	SERIAL	PK	Unique id associated with each actor
first_name	CHARACTER VARYING(45)		Actor first name
last_name	CHARACTER VARYING(45)		Actor last name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE		date and time of last update of information

Links from

Table	Join
film_actor	actor_id

Film

Columns	Data Type	Key	Description
film_id	SERIAL	PK	Unique id associated with each film
title	CHARACTER VARYING(255)		Film title
description	TEXT		Film description
release_year	year		Film release year
language_id	SMALLINT	FK	Unique id for language of film
rental_duration	SMALLINT		length of rental in days
rental_rate	NUMERIC(4,2)		cost of rental
length	SMALLINT		length of film in minutes
replacement_cost	NUMERIC(5,2)		cost to replace film
rating	mpaa_rating		film rating
last_update	TIMESTAMP(6) WITHOUT TIME ZONE		date and time of last update of information
special_features	TEXT[]		available special features
fulltext	TSVECTOR		tags of movie description

Links to

Table	Join
language	language_id

Links from

Table	Join
film_actor	film_id
inventory	film_id
film_category	film_id

Category

Columns	Data Type	Key	Description
category_id	SERIAL	PK	Unique id for each film category
name	CHARACTER VARYING(25)		Category name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE		Date and time of last update of information

Links from

Table	Join
film_category	category_id

Address

Columns	Data Type	Key	Description
address_id	SERIAL	PK	Unique id for address
address	CHARACTER VARYING(50)		Address
address2	CHARACTER VARYING(50)		Address
district	CHARACTER VARYING(20)		State or Country
city_id	SMALLINT	FK	Unique id for each city
postal_code	CHARACTER VARYING(10)		Postal code
phone	CHARACTER VARYING(20)		Phone number
last_update	TIMESTAMP(6) WITHOUT TIME ZONE		Date and time of last update of information

Links to

Table	Join
city	city_id

Links from

Table	Join
customer	address_id
staff	address_id
store	address_id

Language

Columns	Data Type	Key	Description
language_id	SERIAL	PK	Unique id for language of film
name	CHARACTER(20)		Name of language
last_update	TIMESTAMP(6) WITHOUT TIME ZONE		Date and time of last update of information

Links from

Table	Join
film	language_id

City

Columns	Data Type	Key	Description
city_id	SERIAL	PK	Unique id for each city
city	CHARACTER VARYING(50)		City
country_id	SMALLINT	FK	Unique id for each Country
last_update	TIMESTAMP(6) WITHOUT TIME ZONE		Date and time of last update of information

Links to

Table	Join
country	country_id

Links from

Table	Join
address	city_id

Country

Columns	Data Type	Key	Description
country_id	SERIAL	PK	Unique id for each Country
country	CHARACTER VARYING(50)		Country
last_update	TIMESTAMP(6) WITHOUT TIME ZONE		Date and time of last update of information

Links from

Table	Join
city	country_id