

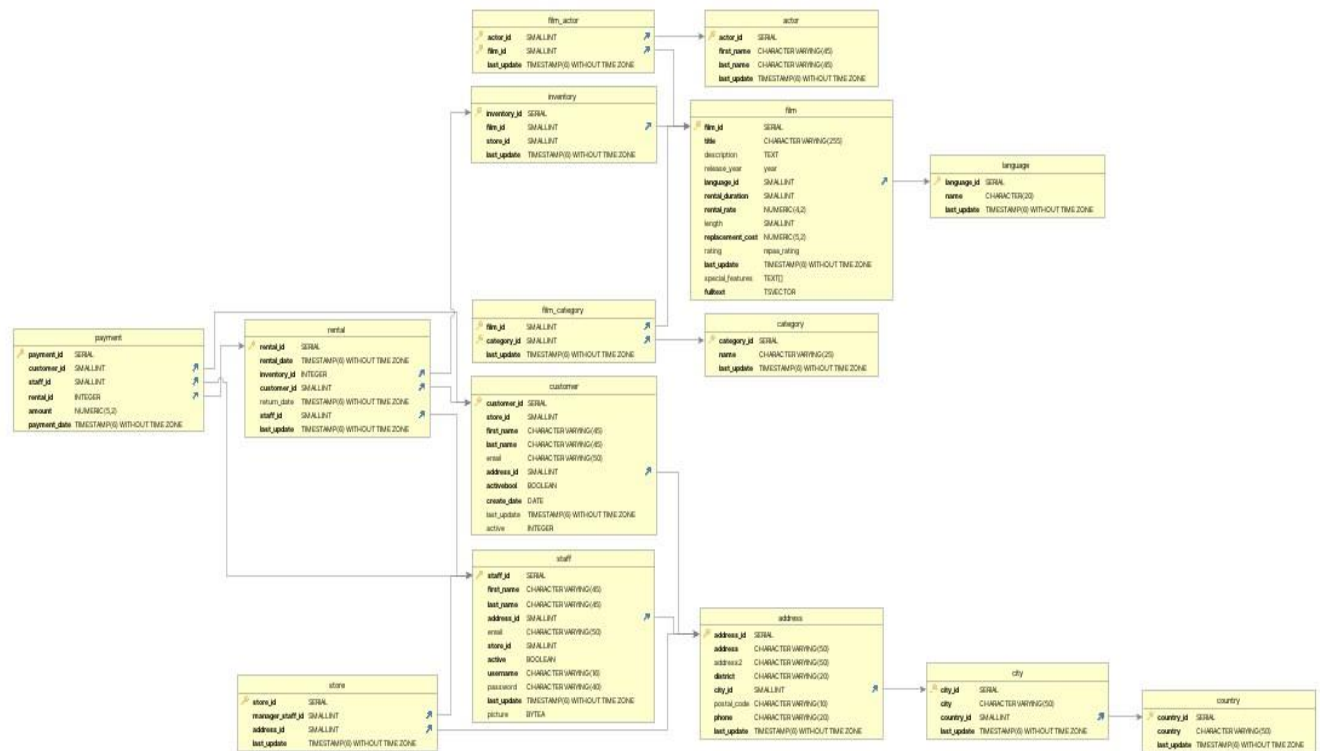
ROCKBUSTER STEALTH
DATA DICTIONARY

BY
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ENTITY RELATIONSHIP DIAGRAM (ERD)



Powered by yFiles

The Rockbuster database has a snowflake schema since the fact table links to the dimension tables and the dimension tables link further to the sub-dimension tables.

FACT TABLES

PAYMENT

Columns	Data Type	Description
payment_id	Serial	Primary Key, unique id for payment details
customer_id	Integer (SMALLINT)	Foreign key, unique id which links to the customer table
staff_id	Integer (SMALLINT)	Foreign key, unique id which links to the staff table
rental_id	Integer (SMALLINT)	Foreign key, unique id which links to the rental table
amount	Numeric	Numeric value of the transaction
payment_date	Timestamp	Temporal data, Payment date in terms of date and time

RENTAL

Columns	Data Type	Description
rental_id	Serial	Primary Key, unique id for rental details
rental_date	Timestamp	Temporal data, rental date in terms of date and time
inventory_id	Integer (SMALLINT)	Foreign key, unique id which links to the inventory table
customer_id	Integer (SMALLINT)	Foreign key, unique id which links to the customer table
return_date	Timestamp	Temporal data, return date of items in terms of date and time
staff_id	Integer (SMALLINT)	Foreign key, unique id which links to the staff table
last_update	Timestamp	Temporal data, latest update in terms of date and time

DIMENSION TABLES

FILM

Columns	Data Type	Description
film_id	Serial	Primary Key, unique id for film details
title	VARCHAR [255]	Title of the film max 255 characters
description	Text	What the film is about in text only
release_year	Year	The year the film was released
language_id	Integer (SMALLINT)	Foreign key, unique id which links to the language table
rental_duration	Integer (SMALLINT)	The number of days the film was rented
rental_rate	Numeric	The price of the film max 4 digits with 2 decimal points
length	Integer (SMALLINT)	Length of the film in minutes
replacement_cost	Numeric	Numeric value for replacement cost of the film max 5 digits with 2 decimal points
rating	mpaa_rating	The rating of the film
last_update	Timestamp	Temporal data, latest update in terms of date and time
special_features	Text	Special features related to the film
fulltext	TSVECTOR	String of additional information regarding the film

LANGUAGE

Columns	Data Type	Description
language_id	Serial	Primary Key, unique id for film language details
name	Char	The language in which the film is released
last_update	Timestamp	Temporal data, latest update in terms of date and time

INVENTORY

Columns	Data Type	Description
inventory_id	Serial	Primary Key, unique id for details for all films
film_id	Integer (SMALLINT)	Foreign key, unique id which links to the film table

store_id	Integer (SMALLINT)	Foreign key, unique id which links to the store table
last_update	Timestamp	Temporal data, latest update in terms of date and time

ACTOR

Columns	Data Type	Description
actor_id	Serial	Primary Key, unique id for details of all actors all films
first_name	VARCHAR [45]	First name of the actor
last_name	VARCHAR [45]	Last name of the actor
last_update	Timestamp	Temporal data, latest update in terms of date and time

FILM ACTOR

Columns	Data Type	Description
actor_id	Integer (SMALLINT)	Composite Key, unique id of an actor in the database, Foreign Key which links to the actor table
film_id	Integer (SMALLINT)	Composite Key, unique id for the film in the database, Foreign Key which links to the film table
last_update	Timestamp	Temporal data, latest update in terms of date and time

CATEGORY

Columns	Data Type	Description
category_id	Serial	Primary Key, unique id for the category of the film
name	VARCHAR [25]	Name of the film category
last_update	Timestamp	Temporal data, latest update in terms of date and time

FILM CATEGORY

Columns	Data Type	Description
film_id	Integer (SMALLINT)	Composite Key, unique id for the film in the database, Foreign Key which links to the film table

category_id	Integer (SMALLINT)	Composite Key, unique id for the film category in the database, Foreign Key which links to the category table
last_update	Timestamp	Temporal data, latest update in terms of date and time

STAFF

Columns	Data Type	Description
staff_id	Serial	Primary Key, unique id for the staff
first_name	VARCHAR [45]	First name of the staff
last_name	VARCHAR [45]	Last name of the staff
address_id	Integer (SMALLINT)	Foreign Key, House address of the staff links to the address table
email	VARCHAR [50]	Email address of the staff
store_id	Integer (SMALLINT)	Foreign Key, the unique store id in which the staff works
active	boolean	To identify if the staff is an active employee or not
username	VARCHAR [16]	Staff username for login credentials
password	VARCHAR [40]	Staff password for login credentials
last_update	Timestamp	Temporal data, latest update in terms of date and time
picture	bytea	Picture of the staff in terms of bytes

CUSTOMER

Columns	Data Type	Description
customer_id	Serial	Primary Key, unique id for the customer
store_id	Integer (SMALLINT)	Foreign key, the unique store id in which the customer has an account
first_name	VARCHAR [45]	First name of the customer
last_name	VARCHAR [45]	Last name of the customer
email	VARCHAR [50]	Email address of the customer
address_id	Integer (SMALLINT)	Foreign Key, House address of the customer links to the address table
activebool	boolean	To identify if the customer is an active customer or not
create_date	Date	The date when the customer account was opened
last_update	Timestamp	Temporal data, latest update in terms of date and time
active	Integer (SMALLINT)	A max 10-digit code to identify if a customer account is active or not

ADDRESS

Columns	Data Type	Description
address_id	Serial	Primary Key, unique id for the store, customer and staff address
address	VARCHAR [50]	Address of the store, customer, or staff
address2	VARCHAR [50]	Extended address of the store, customer, or staff
district	VARCHAR [20]	District in which the store, customer or staff resides
city_id	Integer (SMALLINT)	Foreign Key, city in which the store, customer or staff resides. Links to the city table
postal_code	VARCHAR [10]	Postal code for the store, customer, and staff
phone	VARCHAR [20]	Phone number of the store, customer, and staff
last_update	Timestamp	Temporal data, latest update in terms of date and time

STORE

Columns	Data Type	Description
store_id	Serial	Primary Key, unique id for the store
manager_staff_id	Integer (SMALLINT)	Unique id for the manager of a store
address_id	Integer (SMALLINT)	Foreign Key, address of the store which links to the address table
last_update	Timestamp	Temporal data, latest update in terms of date and time

CITY

Columns	Data Type	Description
city_id	Serial	Primary Key, unique id for the city in which the store, staff and customer are located
city	VARCHAR [50]	Name of the city
country_id	Integer (SMALLINT)	Foreign Key, Country they reside in links to the country table
last_update	Timestamp	Temporal data, latest update in terms of date and time

COUNTRY

Columns	Data Type	Description
country_id	Serial	Primary Key, unique id for the country in the database
country	VARCHAR [50]	Name of the country
last_update	Timestamp	Temporal data, latest update in terms of date and time