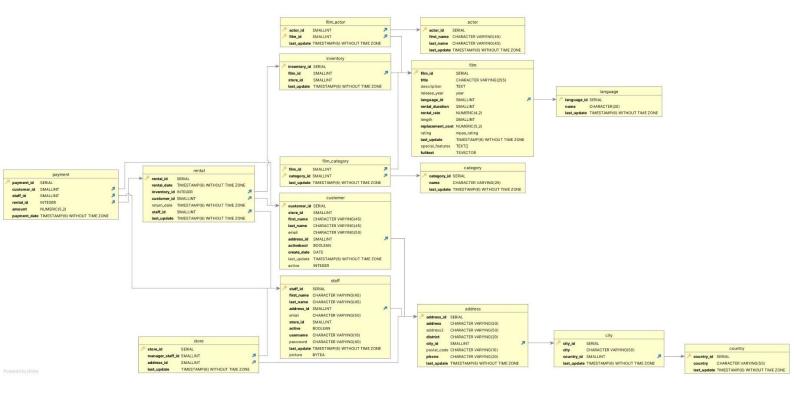
Rockbuster Data Dictionary

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ERD



Fact tables

Payment

Columns	Data type	Description
payment_id	SERIAL	Surrogate primary key, identifies the payment
customer_id	SMALLINT	Foreign key, links to customer table, identifies customer
staff_id	SMALLINT	Foreign key, links to staff table, identifies staff member
rental_id	INTEGER	Foreign key, links to rental table, identifies rental transaction
amount	NUMERIC(5,2)	Amount of money recorded for each payment
payment_date	TIMESTAMP (6) WITHOUT TIME ZONE	Time at which the payment was executed: date (yyy-mm-dd) and time (hh:mm:ss)

Rental

Columns	Data type	Description
rental_id	SERIAL	Primary key, links to rental table, identifies rental
		transaction
rental_date	TIMESTAMP (6)	Time at which the rental took place: date (yyy-mm-
	WITHOUT TIME ZONE	dd) and time (hh:mm:ss)
inventory_id	INTEGER	Foreign key, links to inventory table
customer_id	SMALLINT	Foreign key, links to customer table
return_date	TIMESTAMP (6)	Time at which the movie was returned: date (yyy-
	WITHOUT TIME ZONE	mm-dd) and time (hh:mm:ss)
staff_id	SMALLINT	Foreign key, links to staff table, identifies staff
		member
last_update	TIMESTAMP (6)	Time at which last update was written: date (yyy-
	WITHOUT TIME ZONE	mm-dd) and time (hh:mm:ss)

Dimensions tables

Inventory

Columns	Data type	Description
inventor y_id	SERIAL	Primary key, larger integer, unique number used to identify a film or item to be rented by customers
film_id	SMALLINT	Foreign key, integer, unique number used to identify each film and connect to Film table
store_id	SMALLINT	Small integer, unique number used to identify the store in Rockbuster classification
last_up date	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date (yyyy-mm-dd) and time (hours:minutes:sec)

Customer

Columns	Data type	Description
customer_id	SERIAL	Foreign key, links to customer table, identifies
		customer
store_id	SMALLINT	Small integer, unique number used to identify the store in Rockbuster classification
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
address_id	SMALLINT	Foreign key, customer's address, linked to Address table
activebool	BOOLEAN	True or false statement to indicate the customer account status. Boolean data can hold three possible values: true, false or null.
create_date	DATE	The date when the customer account was created. Temporal date (yyyy-mm-dd)
last_update	TIMESTAMP(6) WITHOUT	Temporal data, store both date (yyyy-mm-dd) and
	TIME ZONE	time (hours:minutes:sec)
active	INTEGER	Integer, a number to indicate whether the customer
		account is active or not

Film

Columns	Data type	Description
film_id	SERIAL	Primary key, unique number used to identify each film as a rental item
title	CHARACTER VARYING(255)	Film title, fixed-length character with max 255 characters, including spaces
description	TEXT	Film synopsis with unlimited length
release_year	year	Integer, the year the film was released
language_id	SMALLINT	Foreign key, unique number used to identify the language of film audio; linked to Language table
rental_duration	SMALLINT	Small integer, the number of days the item was rented for
rental_rate	NUMERIC(4,2)	Rating, number with max 4 digits, including and 2 digits in fraction part;
length	SMALLINT	Small integer, the length of film (minutes)
replacement_cost	NUMERIC(5,2)	The cost the customer can be charged in case of lost or damage of rental item. Monetary amount, number with max 5 digits, including and 2 digits in fraction part.
rating	mpaa_rating	Film rating introduced by Movie Picture Association
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date (yyyy-mm-dd) and time (hours:minutes:sec)
special_features	ТЕХТ[[Extra videos related to the film available for audience
fultext	TSVECTOR	Text-searchable data where we can use a word as an index

Language

Columns	Data type	Description
language_id	SERIAL	Primary key, unique number used to identify the
		language in this table
name	CHARACTER(20)	The name of the language of the film audio
last_update	TIMESTAMP(6) WITHOUT	Temporal data, store both date (yyyy-mm-dd) and
	TIME ZONE	time (hours:minutes:sec)

Film actor

Columns	Data type	Description
actor_id	SMALLINT	Composite key, unique number used to identify the actor in this database. Foreign key connecting linked to Actor table.
film_id	SMALLINT	Composite key, unique number used to identify the film in this database. Foreign key connecting linked to Film table.
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date (yyyy-mm-dd) and time (hours:minutes:sec)

Actor

Columns	Data type	Description
actor_id	SERIAL	Primary key, unique number used to identify the
		actor in this database.
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) WITHOUT	Temporal data, store both date (yyyy-mm-dd) and
	TIME ZONE	time (hours:minutes:sec)

Film category

Columns	Data type	Description
film_id	SMALLINT	Composite key, unique number used to identify the film in this database. Foreign key connecting linked to Film table.
category_id	SMALLINT	Composite key, unique number used to identify the film category in this database. Foreign key connecting linked to Category table.
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date (yyyy-mm-dd) and time (hours:minutes:sec)

Category

Columns	Data type	Description
category_id	SERIAL	Primary key, unique number used to identify the film
		category
name	CHARACTER VARYING(25)	The name of the film category, max 25 characters
last_update	TIMESTAMP(6) WITHOUT	Temporal data, store both date (yyyy-mm-dd) and
	TIME ZONE	time (hours:minutes:sec)

Staff

Columns	Data type	Description
staff_id	SERIAL	Primary key, unique number used to identify the personnel member
first_name	CHARACTER VARYING(45)	Employee's first name, max 45 characters
last_name	CHARACTER VARYING(45)	Employee's last name, max 45 characters
address_id	SMALLINT	Foreign key, employee's address, linked to Address table
email	CHARACTER VARYING(50)	Employee's email. Max 50 characters
store_id	SMALLINT	Small integer, unique number used to identify the store in Rockbuster classification
active	BOOLEAN	True or false statement to indicate the employee's status. Boolean data can hold three possible values: true, false or null.
username	CHARACTER VARYING(16)	Employee's username / log-in ID for internal account, max 16 characters
password	CHARACTER VARYING(40)	Employee's password used to log in to internal account, max 40 characters
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date (yyyy-mm-dd) and time (hours:minutes:sec)
picture	ВУТЕА	Employee's picture. Bytea data type is used to store raw binary data, e.g. images.

Store

Columns	Data type	Description
store_id	SERIAL	Primary key, unique number used to identify the store in Rockbuster classification
manager_staff_id	SMALLINT	Foreign key, unique number used to identify the manager staff, linked to Staff table
address_id	SMALLINT	Foreign key, unique number used to identify the store address, linked to Address table
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date (yyyy-mm-dd) and time (hours:minutes:sec)

Address

Columns	Data type	Description
adress_id	SERIAL	Primary key, unique number used to identify the
		address in this table
address	CHARACTER VARYING(50)	Any address in this database - line1 (street number
		and street name)
address2	CHARACTER VARYING(50)	Any address in this database - line2, it can be used as
		a secondary address designator such as apartment
		number or building name
district	CHARACTER VARYING(20)	Any address in this database - district / state / region
		name
city_id	SMALLINT	Foreign key, small integer, unique number used to
		identify the city in this database, linked to City table
postal_code	CHARACTER VARYING(10)	Any address in this database - postal code, max 10
		characters
phone	CHARACTER VARYING(20)	Phone number related to the address in this
		database, max 20 characters
last_update	TIMESTAMP(6) WITHOUT	Temporal data, store both date (yyyy-mm-dd) and
	TIME ZONE	time (hours:minutes:sec)

City

Columns	Data type	Description
city_id	SERIAL	Primary key, unique number used to identify the city in this database
city	CHARACTER VARYING(50)	City name in the address in this database
country_id	SMALLINT	Foreign key, unique number used to identify the country in this database, linked to Country table
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date (yyyy-mm-dd) and time (hours:minutes:sec)

Country

Columns	Data type	Description
country_id	SERIAL	Primary key, unique number used to identify the city
		in this database
country	CHARACTER VARYING(50)	Country name in the address in this database
last_update	TIMESTAMP(6) WITHOUT	Temporal data, store both date (yyyy-mm-dd) and
	TIME ZONE	time (hours:minutes:sec)