ROCKBUSTER
Data Dictionary
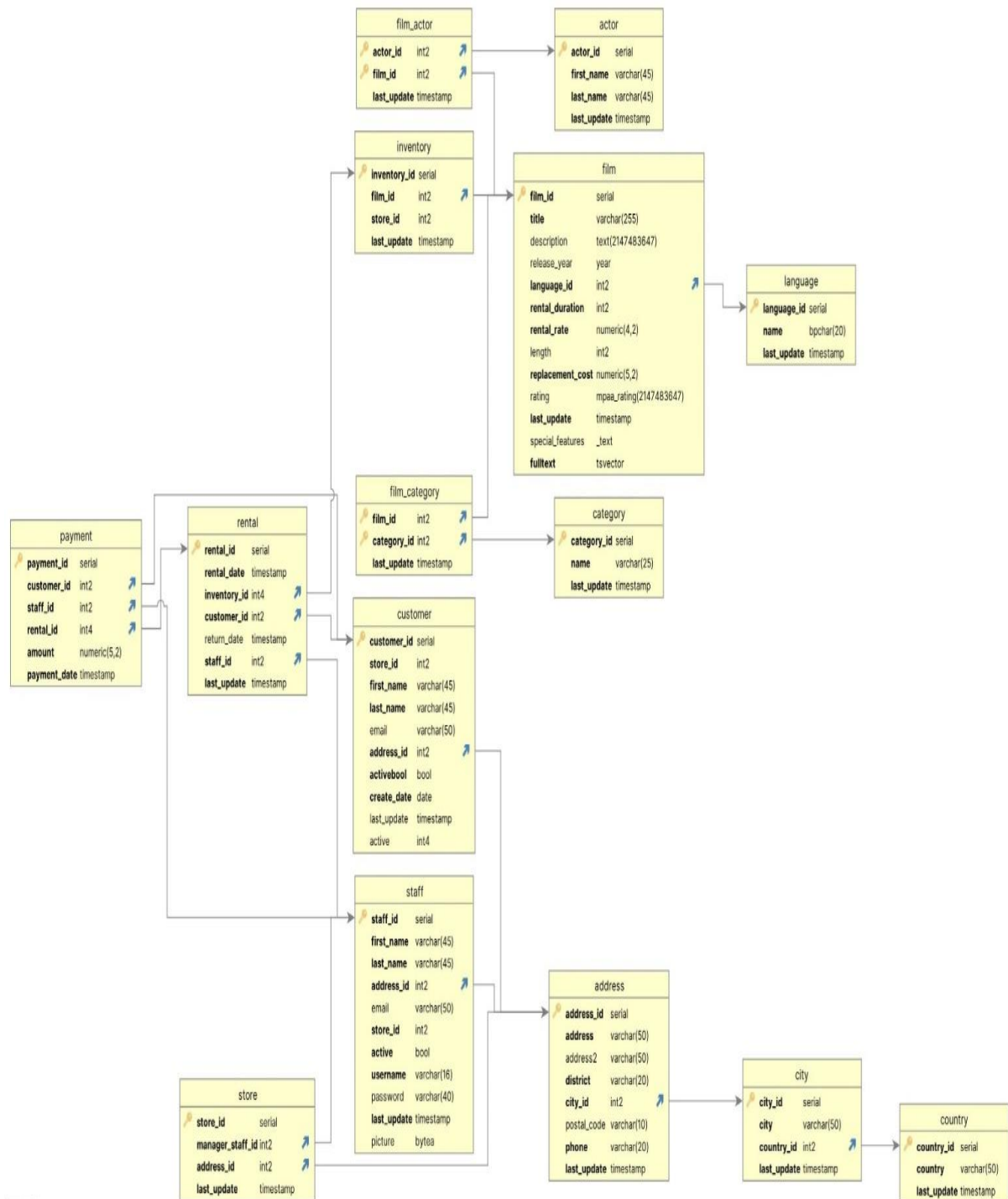
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Entity Relationship Diagram

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Tables

🔑 Primary key

🔑 Foreign Key

Fact Tables

Payment

Key	Column	Data Type	Description
🔑	payment_id	serial	Unique payment number auto generated for each payment
🔑	customer_id	int2	Customer Id is the Reference to the Customer of the payment transaction
🔑	staff_id	int2	Staff ID of the staff who handled the payment transaction
🔑	rental_id	int4	Rental ID of Payment transaction
	amount	numeric (5,2)	Amount of the payment
	Payment_date	timestamp	Rental payment transaction date and time.

Links to

Table	Join
Rental	payment.rental_id = rental.rental_id
Customer	payment.customer_id = customer.customer_id
Staff	payment.staff_id = staff.staff_id

Rental

Key	Column	Data Type	Description
🔑	rental_id	serial	Unique number assigned to each movie rental transaction
	rental_date	timestamp	Film Rented date
🔑	inventory_id	int4	Inventory Id is the stock id of the film in a store which is rented out
🔑	customer_id	int2	Customer Id is the reference to a customer rents the film
	return_date	timestamp	Inventory return date
🔑	staff_id	int2	Staff who handled the Rental transaction
	last_update	timestamp	Last event date on the rental transaction

Link From

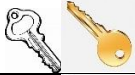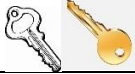| Table	Join
Payment	payment.rental_id = rental.rental_id

Links To

Table	Join
Inventory	rental.inventory_id=inventory.inventory_id
Customer	rental.customer_id=customer.customer_id
Staff	rental.staff_id=staff.staff_id

Dimension Tables

Film_actor

Key	Column	Data Type	Description
🔑🔑	actor_id	int2	Reference number assigned to each actor.
🔑🔑	film_id	int2	Reference number assigned to each film.
	Last_update	timestamp	Details of date when updated last.

Links to

Table	Join
Actor	film_actor.actor_id = actor.actor_id
Film	film_actor.film_id = film.film_id

Actor

Key	Column	Data Type	Description
🔑	actor_id	serial	Reference number assigned to each actor.
	first_name	varchar (45)	First name of each actor
	last_name	varchar (45)	Last name of each actor
	last_update	timestamp	Details of date when updated last

Link from

Table	Join
Film_actor	film_actor.actor_id = actor.actor_id

Inventory

Key	Column	Data Type	Description
🔑	Inventory_id	serial	Inventory id is the stock id of the film in the store
	Store_id	int2	Reference number assigned to each store
🔑	Film_id	int2	Reference number assigned to each film
	Last_update	timestamp	Details of date when updated last

Link from

Table	Join
Rental	rental.inventory_id = inventory.inventory_id

Link to

Table	Join
Film	Inventory.film_id = film.film_id

Film

Key	Column	Data Type	Description
🔑	film-id	serial	Reference number assigned to each film
	title	varchar (255)	Title of the film.
	description	text (21474863647)	Details of the film.
	release_year	year	Film release year
🔑	language_id	int2	Reference number for the language of film
	rental_duration	int2	Duration of the film rented.
	rental_rate	numeric (4,2)	Rating of the rented film.
	length	int2	Length of the film.
	replacement_cost	numeric (5,2)	Cost of replacing the film.
	rating	mpaa_rating(21474863647)	Rating of the film. It can be nearly 2gb data.
	last_update	timestamp	Details of date when updated last
	special_features	text	Special Description of the film.
	fulltext	tsvector	Details of film in fulltext format.

Links from

Table	Join
Film_actor	film_actor.film_id = film.film_id
Film_category	film_category.film_id = film.film_id
Inventory	inventory.film_id = film.film_id

Link to

Table	Join
Language	film.language_id=language.language_id

Language

Key	Column	Data Type	Description
🔑	language_id	serial	Reference number for the language of film
	name	bpchar(20)	Name of the language.
	last_update	timestamp	Details of date when updated last

Link from

Table	Join
Film	film.language_id =language.language_id

Film_category

Key	Column	Data Type	Description
🔑🔑	film_id	int2	Reference number assigned to each film
🔑🔑	category_id	int2	Number assigned to each film under the category base.
	last_update	timestamp	Details of date when updated last

Links to

Table	Join
Category	film_catogory.catogory_id=category.catogory_id
Film	film_catogory.film_id = film.film_id

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Category

Key	Column	Data Type	Description
🔑	category_id	serial	Number assigned to each film under the category base.
	name	varchar (25)	Name of the film which comes under which category.
	last_update	timestamp	Details of date when updated last

Link from

Table	Join
Film_category	film_actor.category_id = category.category_id

City

Key	Column	Data Type	Description
🔑	city_id	serial	Reference number assigned to each city
	city	varchar (50)	Name of the city
🔑	country_id	int2	Reference number assigned to each country.
	last_update	timestamp	Details of date when updated last

Link from

Table	Join
Address	address.city_id = city.city_id

Link to

Table	Join
Country	city.country_id = country.country_id

Country

Key	Column	Data Type	Description
🔑	Country_id	serial	Reference number assigned to each country
	Country	Varchar (50)	Name of the Country
	last_update	timestamp	Details of date when updated last

Link from

Table	Join
City	city.country_id = country.country_id

Customer

Key	Column	Data Type	Description
🔑	customer_id	serial	Reference number generated to each customer
	store_id	int2	Reference number assigned to each store
	first_name	varchar (45)	First name of the customer
	last_name	varchar (45)	Last name of the customer
	email	varchar (50)	Customer email address
	address_id	int2	Number generated to each of the customer address
	activebool	bool	True or False
	create_date	date	Date when the account was created.
	last_update	timestamp	Details of date when updated last

	active	int4	Is account active or not.

Links from

Table	Join
Rental	rental.customer_id = customer.customer_id
payment	payment.customer_id =customer.customer_id

Link to

Table	Join
Address	customer.address_id = address.address_id

Staff

Key	Column	Data Type	Description
🔑	staff_id	serial	Number generated for each staff
	first_name	varchar (45)	First name of the staff
🔑	last_name	varchar (45)	Last name of the staff
	address_id	int2	Number generated for each staff address
	email	varchar (50)	Email address of each staff
	store_id	int2	Id of the store where the staff working
	active	bool	Is the staff active or not
	username	varchar (16)	User name of each staff
	password	varchar (40)	Password for each staff for their username.
	last_update	timestamp	Details of date when updated last
	picture	byte	Photo of the staff.

Links from

Table	Join
Rental	rental.staff_id = staff.staff_id
Store	store.address_id = staff.address_id
Payment	payment.staff_id = staff.staff_id

Link to

Table	Join
Address	staff.address_id = address.address_id

Address

Key	Column	Data Type	Description
🔑	address_id	serial	Number generated for each staff address
	address	varchar (50)	Address of each staff working
	address 2	varchar (50)	Another address for each staff in case of emergency
	district	varchar (20)	Name of the district where the staff living
🔑	city_id	int2	Number generated for each city
	postal_code	varchar (10)	Postal code of the staff living area.
	phone	varchar (20)	Phone no of staff to contact
	last_update	timestamp	Details of date when updated last

Links from

Table	Join
Store	store.address_id = address.address_id
Staff	staff.address_id = address.address_id

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Customer	staff.address_id = address.address_id

Link to

Table	Join
City	address.city_id = city.city_id

Store

Key	Column	Data Type	Description
	store_id	serial	Number generated for each store
	manager_staff_id	int2	Number generated for manger staffs.
	address_id	int2	Number generated for each staff address
	last_update	timestamp	Details of date when updated last

Links to

Table	Join
Address	store.address_id = address.address_id
Staff	store.staff_id = staff.staff_id