

Rockbuster Stealth

Data Dictionary

Gerami Jacob Dugarte Teran
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1. Legend



PK - Primary Key

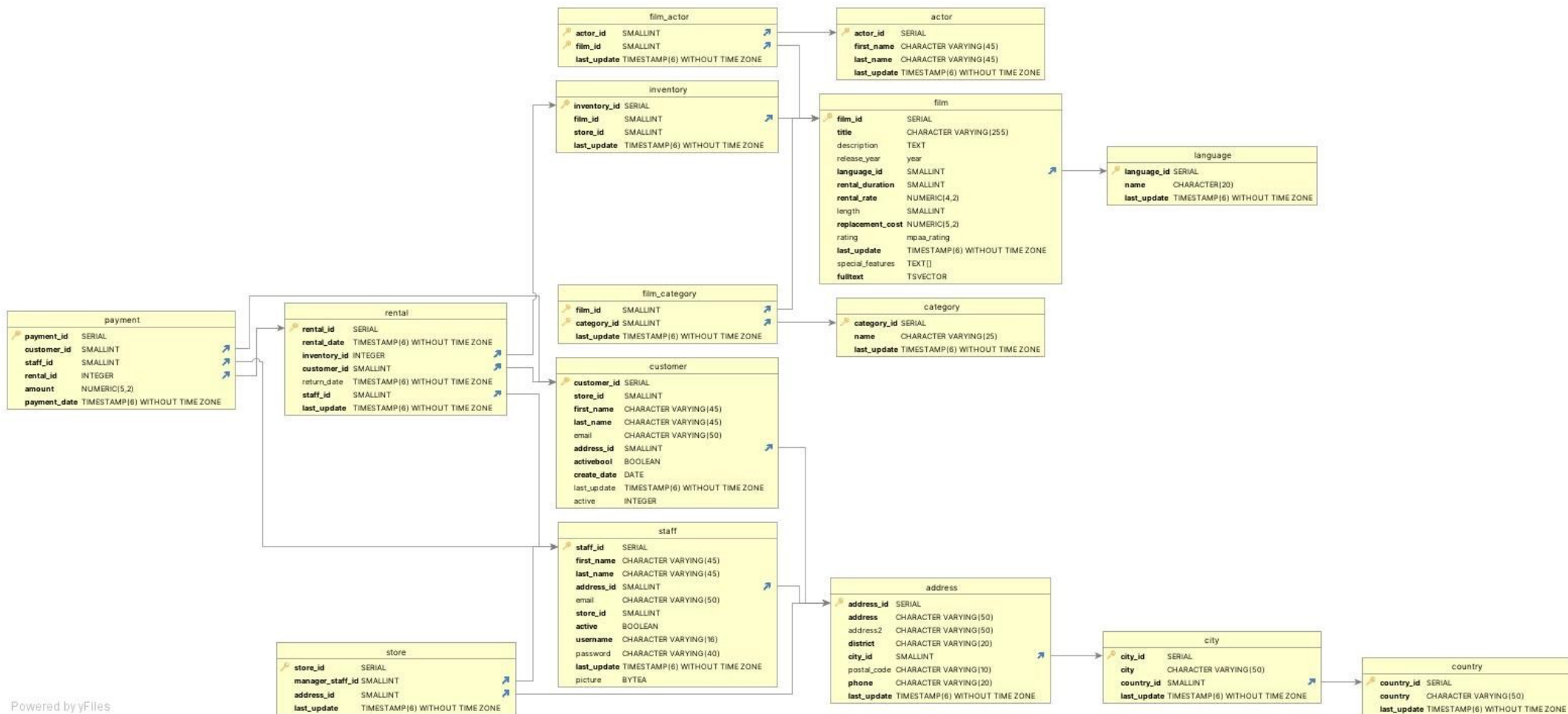
It's a column that acts as a unique identifier for each record in the table. It has to be unique for each entry and it can't be null.



FK - Foreign Key

It's a column that refers to the primary key in another table. They're used to establish relationships between tables.

2. Entity Relationship Diagram (ERD)







3. Tables

3.1 Fact Table

3.1.1 Table Name: payment

This table stores information about payments made by customers at Rockbuster.

Columns

Key	Name	Data Type	Description
	Payment_id	Serial	Unique payment identifier
	Customer_id	Small Int	Unique customer identifier
	Staff_id	Small Int	Unique staff identifier
	Rental_id	Integer	Unique rental identifier
	Amount	Numeric (5,2)	Amount of payment received
	Payment_date	Timestamp without Time Zone	Date of payment





Links to

Table Name	Join	Description
customer	payment.customer_id = customer.customer_id	Foreign key reference to customer table
staff	payment.staff_id = staff.staff_id	Foreign key reference to staff table
rental	payment.rental_id = rental.rental_id	Foreign key reference to rental table

3.1.2 Table Name: rental

This table captures transactional data related to rentals at Rockbuster and represents the central fact table in the schema.

Columns

Key	Name	Data Type	Description
	rental_id	Serial	Unique rental identifier
	rental_date	Timestamp w/o Time Zone	Date of rental
	inventory_id	Integer	Unique inventory identifier
	customer_id	Small Int	Unique customer identifier
	return_date	Timestamp w/o Time Zone	Date of return
	staff_id	Small Int	Unique staff identifier
	last_update	Timestamp w/o Time Zone	Time of last update

Links to

Table Name	Join	Description
inventory	rental.inventory_id = inventory.inventory_id	Foreign key reference to inventory table
customer	rental.customer_id = customer.customer_id	Foreign key reference to customer table
staff	rental.staff_id = staff.staff_id	Foreign key reference to staff table

Linked from




Table Name	Join	Description
payment	payment.rental_id = rental.rental_id	Foreign key reference from payment table

3.2 Dimension Table

3.2.1 Table Name: store

This table represents the stores in the Rockbuster database.

Columns

Key	Name	Data Type	Description
	store_id	Serial	Unique identifier of store
	manager_staff_id	Small Int	Unique identifier for the staff manager
	address_id	Small Int	Unique identifier of the address
	last_update	Timestamp w/o Time Zone	Time of last update


Links to



Table Name	Join	Description
staff	store.manager_staff_id = staff.staff_id	Foreign key reference to staff table
address	store.address_id = address.address_id	Foreign key reference to address table

3.2.2 Table Name: staff

This table stores information about staff members who work at Rockbuster.

Columns

Key	Name	Data Type	Description
	staff_id	Serial	Unique identifier of staff member, primary key

	first_name	Character Varying(45)	First name of staff member
	last_name	Character Varying(45)	Last name of staff member
	address_id	Small Int	Unique identifier of the address
	email	Character varying (50)	Staff member' s email address
	store_id	Small Int	Unique store identifier
	active	Boolean	Whether staff member is active
	username	Character Varying(16)	Staff member' s username
	password	Character Varying(40)	Staff member' s password
	picture	BYTEA	Picture of staff member

Links to

Table Name	Join	Description
address	staff.address_id = address.address_id	Foreign key reference to address table
store	staff.store_id = store.store_id	Foreign key reference to store table



Linked from

Table Name	Join	Description
rental	rental.staff_id = staff.staff_id	Foreign key reference from rental table
payment	payment.staff_id = staff.staff_id	Foreign key reference from payment table

3.2.3 Table Name: address

This table represents the addresses related to Rockbuster's movie collection.

Columns

Key	Name	Data Type	Description
	address_id	Serial	Unique identifier of the address
	address	Character Varying(50)	Street address
	address2	Character Varying(50)	Additional address information
	district	Character varying (20)	Address district
	city_id	Small Int	City unique identifier
	postal_code	Character Varying(10)	Postal code associated with address
	phone	Character Varying(20)	Phone number for the address
	last_update	Timestamp w/o Time Zone	Time of last update

Links to

Table Name	Join	Description
city	address.city_id = city.city_id	Foreign key reference to city table



Linked from

Table Name	Join	Description
store	store.address_id = address.address_id	Foreign key reference from store table
staff	staff.address_id = address.address_id	Foreign key reference from staff table
customer	customer.address_id = address.address_id	Foreign key reference from customer table

3.2.4 Table Name: city

This table represents the cities related to Rockbuster's movie collection.

Columns

Key	Name	Data Type	Description
	city_id	Serial	Unique identifier of city
	city	Character Varying(50)	Name of city
	country_id	Small Int	Unique identifier of country
	last_update	Timestamp w/o Time Zone	Time of last update

Links to

Table Name	Join	Description
country	city.country_id = country.country_id	Foreign key reference to country table


Linked from

Table Name	Join	Description
address	address.city_id = city.city_id	Foreign key reference from address table

3.2.5 Table Name: country

This table represents the countries related to Rockbuster's movie collection.

Columns

Key	Name	Data Type	Description
	country_id	Serial	Unique identifier of country
	country	Character varying (50)	Name of country
	last_update	Timestamp without time zone	Date and time of latest update




Linked from

Table Name	Join	Description
city	city.country_id = country.country_id	Foreign key reference from city table

3.2.6 Table Name: customer

This table represents the customers associated with Rockbuster's movie collection.

Columns

Key	Name	Data Type	Description
	customer_id	Serial	Unique customer identifier
	store_id	Small Int	Unique store identifier
	first_name	Character Varying(45)	First name of customer
	last_name	Character Varying(45)	Last name of customer
	email	Character varying (50)	Customer' s email address
	address_id	Small Int	Unique identifier of the address
	activebool	Boolean	Categorize customers as true "active" and false "not active"
	create_date	Date	Date of customer profile creation
	last_update	Timestamp w/o Time Zone	Time of last update
	active	Integer	Code of the customer active use (1) for active and (0) for not active.

Links to

Table Name	Join	Description
store	customer.store_id = store.store_id	Foreign key reference to store table
address	customer.address_id= address.address_id	Foreign key reference to address table




Linked from

Table Name	Join	Description
rental	rental.customer_id = customer.customer_id	Foreign key reference from rental table
payment	payment.customer_id = customer.customer_id	Foreign key reference from payment table

3.2.7 Table Name: inventory

This table represents the inventory of films in Rockbuster's stores.

Columns

Key	Name	Data Type	Description
	inventory_id	Serial	Unique identifier of inventory, primary key
	film_id	Small Int	Unique identifier of film
	store_id	Small Int	Unique identifier of store
	last_update	Timestamp w/o Time Zone	Time of last update

Links to

Table Name	Join	Description
film	inventory.film_id = film.film_id	Foreign key reference to film table
store	inventory.store_id= store.store_id	Foreign key reference to store table



Linked from

Table Name	Join	Description
rental	rental.inventory_id = inventory.inventory_id	Foreign key reference from rental table

3.2.8 Table Name: film

This table represents the films in Rockbuster's movie collection.

Columns

Key	Name	Data Type	Description
	film_id	Serial	Unique identifier of film, primary key
	title	Character Varying(255)	Title of film
	description	Text	Description of film
	release_year	Year	Year of film release
	language_id	Small Int	Language of film
	rental_duration	Small Int	Duration of rental in days
	rental_rate	Numeric(4,2)	The Rate of the film rent
	length	Small Int	film length in min
	replacement_cost	numeric	cost of film replacement
	rating	Mpaa_rating	The Rate of the film, according the MPA rating system
	last_update	Timestamp w/o Time Zone	Time of last update
	special_features	Text[]	Special features of film
	fulltext	Tsvector	Film index; used for text search in the meaning of count of the key

			words in description
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Links to

Table Name	Join	Description
language	film.language_id = language.language_id	Foreign key reference to language table


Linked from

Table Name	Join	Description
film_actor	film_actor.film_id = film.film_id	Foreign key reference from film_actor table
inventory	inventory.film_id = film.film_id	Foreign key reference from inventory table
film_category	film_category.film_id = film.film_id	Foreign key reference from film_category table

3.2.9 Table Name: language

This table stores information about the languages used in films at Rockbuster.

Columns

Key	Name	Data Type	Description
	language_id	Serial	Language unique identifier
	name	Character(20)	Language name
	last_update	Timestamp without time zone	Date and time of latest update


Linked from

Table Name	Join	Description
film	film.language_id = language.language_id	Foreign key reference from film table

3.2.10 Table Name: actor

This table stores information about actors involved in Rockbuster's movie collection.

Columns

Key	Name	Data Type	Description
	actor_id	Serial	Unique actor identifier
	first_name	Character Varying(45)	First name of actor
	last_name	Character Varying(45)	Last name of actor
	last_update	Timestamp without time zone	Date and time of latest update



Linked from

Table Name	Join	Description
film_actor	film_actor.actor_id = actor.actor_id	Foreign key reference from film_actor table

3.2.11 Table Name: film_actor

This table represents the association between actors and films in Rockbuster's movie collection.

Columns

Key	Name	Data Type	Description
	actor_id	SMALLINT	Unique actor identifier
	film_id	SMALLINT	Unique film identifier
	last_update	Timestamp without time zone	Date and time of latest update



[Links to](#)

Table Name	Join	Description
actor	actor_actor_id = film_actor.actor_id	Foreign key reference to actor table
film	film.film_id = film_actor.film_id	Foreign key reference to film table

3.2.12 Table Name: film_category

This table represents the association between films and categories in Rockbuster's movie collection.

Columns

Key	Name	Data Type	Description
	language_id	Serial	Language unique identifier
	category_id	Small Int	Unique category identifier
	last_update	Timestamp without time zone	Date and time of latest update


Links to

Table Name	Join	Description
language	film_category.language_id = language.language_id	Foreign key reference to language table
category	film_category.category_id = category.category_id	Foreign key reference to category table

3.2.13 Table Name: category

This table represents the categories associated with Rockbuster's movie collection.

Columns

Key	Name	Data Type	Description
	category_id	Serial	Category unique identifier
	name	Character Varying(25)	Category name
	last_update	Timestamp without time zone	Date and time of latest update

Linked from

Table Name	Join	Description
film_category	film_category.category_id = category.category_id	Foreign key reference from film_category table