

ROCKBUSTER

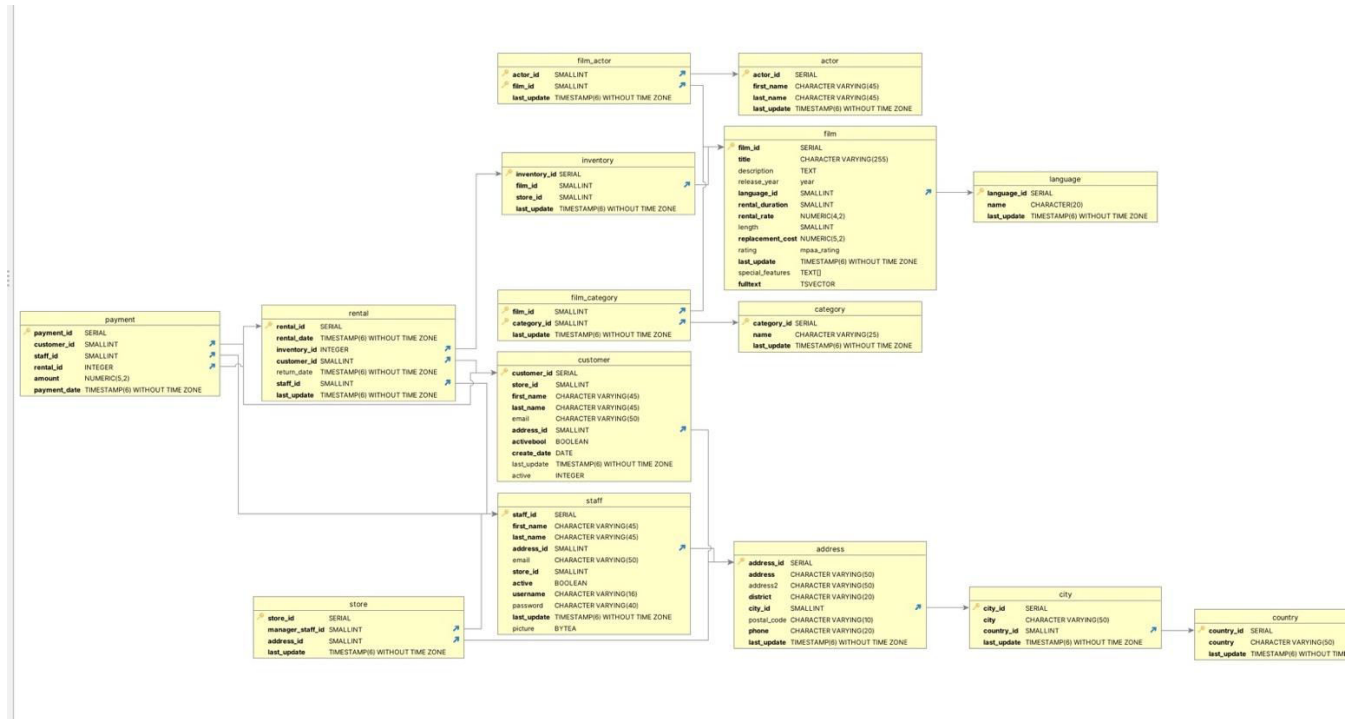
Data Dictionary


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Entity Relationship Diagram (ERD)









Describes the structure of a database including the tables, the columns in each table, the primary key of each table, and how the tables are connected by foreign keys, among other things, illustrates the links between the tables in a relational database.












 **Primary Key** is a column or set of columns that acts as a unique identifier for each record in a table. There can only be one primary key within a table, and it has to meet the following criteria: 1. It has to be unique for each row, 2. It cannot be null for any record 3. The values of the primary key can't be modified if it's linked to another table.





 **Foreign Key** is a column, or set of columns, that refers to the primary key in another table. Foreign keys are used to establish relationships between tables and are helpful in navigating from one table to another.







Fact table

	Column	Data type	Description
<i>Payment</i>	Links to CUSTOMER(customer_id), STAFF(staff_id), RENTAL(rental_id)		
	payment_id	Serial	Unique payment identifier
	customer_id	Small int	Unique customers identifier
	staff_id	Small int	Unique staff identifier
	rental_id	integer	Unique rental identifier
	amount	Numeric	Amount of payment
	payment_date	Timestamp without time zone	Date and time record of payment
<i>Rental</i>	Links to INVENTORY(inventory_id), CUSTOMER(customer_id). Linked from PAYMENT(rental_id)		
	rental_id	serial	Unique rental identifier
	rental_date	Timestamps without time zone	Date of rentals
	inventory_id	integer	Unique inventory identifier
	customer_id	Small integer	Unique customer identifier
	return_date	Timestamp without time zone	Date of rental
	staff_id	Small integer	Unique staff identifier
	last_update	Timestamp without time zone	Date and time of latest update

Dimension table

	Column	Data type	Description
City	Links to COUNTRY(country_id) Linked from ADDRESS(city_id)		
	city_id	serial	Unique city identifier
	city	Character varying (50)	City name
	country_id	Small integer	Unique country identifier
	last_update	Timestamp without time	Date and time of latest update
Country	Linked from CITY(country_id)		
	country_id	serial	Unique country identifier
	country	Character varying (50)	Name of country
	last_update	Timestamp without time zone	Date and time of latest update
Film_actor	Linked to ACTOR(actor_id), FILM(film_id)		
	actor_id	Small integer	Unique actor identifier
	film_id	Small integer	Unique film identifier
	last_update	Timestamp without time zone	Date and time of latest update
Inventory	Links to FILM(film_id); Linked from RENTAL(inventory_id), STORE(store_id)		
	inventory_id	Serial	Unique inventory identifier
	film_id	Small integer	Unique film identifier
	store_id	Small integer	Unique store identifier
	last_update	Timestamp without time zone	Date and time of latest update
Film_category	Linked from CATEGORY(category_id) FILM(film_id)		
	film_id	Small integer	Unique film identifier
	category_id	Small integer	Unique category identifier
	last_update	Timestamp without timezone	Date and time of latest update
Customer	Links to STORE(store_id), ADDRESS(address_id) Linked from RENTAL(customer_id)		
	customer_id	serial	Unique customer identifier
	store_id	Small integer	Unique store identifier
	first_name	Character varying (45)	Customer first name
	last_name	Character varying (45)	Customer last name
	email	Character varying (50)	Customer email

	address_id	Small integer	Unique address identifier
	activebool	Boolean	Customer's active status
	create_date	Date	Date of customer profile creation
	last_update	Timestamp without time zone integer	Date and time of latest update
	active	integer	Active status represented by 0 or 1
	create_date	Date	Date of customer profile creation
Actor	Linked from FILM_ACTOR(actor_id)		
	actor_id	serial	Unique actor identifier
	first_name	Character varying (45)	Actor's first name
	last_name	Character varying (45)	Actor's last name
	last_update	Timestamp without time zone	Date and time of latest update
Film	Links to LANGUAGE(language_id) Linked from INVENTORY(film_id)		
	film_id	serial	Unique film identifier
	title	Character varying (255)	Film title
	description	text	Description of film
	release_year	year	Film release year
	language_id	Small integer	Film language
	rental_duration	Small integer	Rental duration
	rental_rate	Numeric (4,2)	Rental rate
	length	Small integer	Film length
	replacement_cost	Numeric (5,2)	Film cost replacement
	rating	mppa_rating	Film rating
	last_update	Timestamp without time zone	Date and time of latest update
	special_features	text	Film's special features (trailers)
	fulltext	tsvector	Film index; used for searching
Category	Linked from FILM_CATEGORY(category_id)		
	category_id	serial	Unique category identifier
	name	Character varying (25)	Category name
	last_update	Timestamp without time zone	Date and time of latest update
Address	Linked from STORE(address_id), STAFF(address_id), CUSTOMER(address_id); Links to CITY(city_id)		
	address_id	serial	Unique address identifier
	address	Character varying (50)	First line of address
	address2	Character varying (50)	Second line of address
	district	Character varying (20)	District
	city_id	Small integer	Unique city identifier
	postal_code	Character varying (10)	Postal code

	phone	Character varying (20)	Phone number
	last_update	Timestamp without time zone	Date and time of latest update
Language	Linked from FILM(language_id)		
	language_id	serial	Language unique identifier
	name	Character (20)	Film language
	last_update	Timestamp without time zone	Date and time of latest update
Staff	Links to ADDRESS(address_id), STORE(store_id); Linked from PAYMENT(staff_id)		
	staff_id	Serial	Unique staff member identifier
	first_name	Character varying (45)	First name of the staff member
	last_name	Character varying (45)	Last name of the staff member
	address_id	Small integer	Unique address identifier
	email	Character varying (50)	Staff member email address
	store_id	Small integer	Unique store identifier
	active	Boolean	Staff member active status
	username	Character varying (16)	Staff member username
	password	Character varying (40)	Staff members password
	last_update	Timestamp without time zone	Date and time of latest update
	picture	BYTEA	Picture of the staff member
Store	Links to STAFF(store_id) ADDRESS(address_id)		
	actor_id	serial	Unique actor identifier
	first_name	Character varying (45)	Actor's first name
	last_name	Character varying (45)	Actor's last name
	last_update	Timestamp without time zone	Date and time of latest update