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# DATA DICTIONARY

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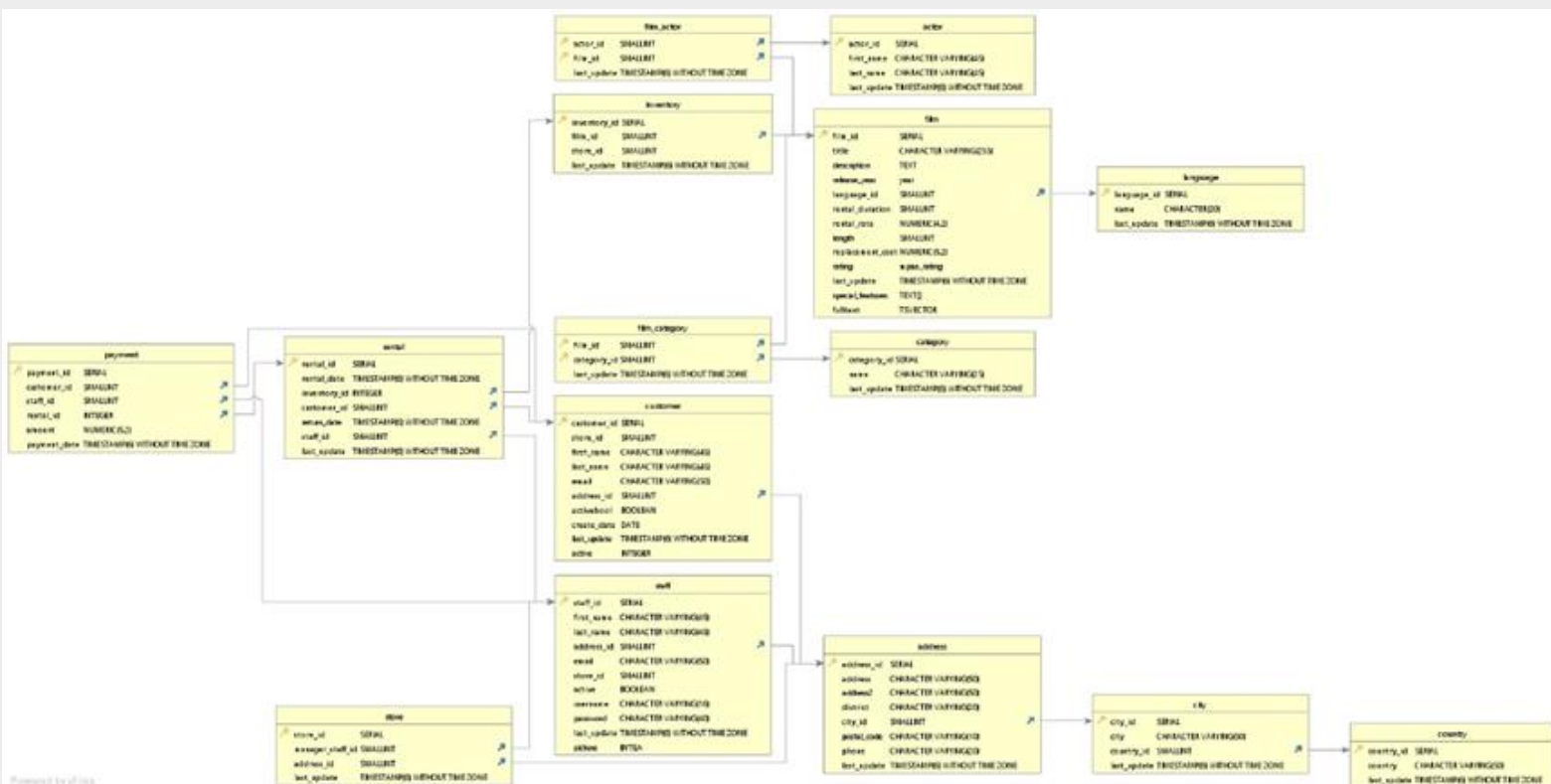
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ROCKBUSTER


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## ENTITY RELATIONSHIP DIAGRAM (ERD)





## payment Table

Column	Key	Data Type	Description	Links From	Links To
payment_id	 Primary Key	SERIAL	primary key, and also considered as a surrogate key. Showing every payment made by a unique ID.		
customer_id	 Foreign Key	SMALLINT	foreign key for the other tables and candidates key in this table. Recording every customer by a unique ID	customer	
staff_id	 Foreign Key	SMALLINT	foreign key for the other tables and candidates key in this table. Recording every staff by a unique ID		staff
rental_id	 Foreign Key	SMALLINT	foreign key for the other tables and candidates key in this table. Recording every rental by a unique ID	Rental	
amount		NUMERIC (5,2)	Recording every amount paid by people who rent a film.		
payment_date		TIMESTAMP	Recording the exact time for a payment was made by people.		



## rental Table

Column	Key	Data Type	Description	Links From	Links To
rental_id	 Primary Key	SERIAL	primary key, and also considered as a surrogate key. Recording every rental made by a unique ID.		payment
rental_date		TIMESTAMP	Recording the date that every rental made.		
inventory_id	 Foreign Key	INTERGER	foreign key for the other tables and candidates key in this table. Recording inventory by a unique ID	inventory	
customer_id	 Foreign Key	SMALLINT	foreign key for the other tables and candidates key in this table. Recording every customer by a unique ID	customer	
returen_date		TIMESTAMP	Recording the date for rental returned.		
staff_id	 Foreign Key	SMALLINT	foreign key for the other tables and candidates key in this table. Recording every staff by a unique ID	staff	
Last_update		TIMESTAMP	The exact last time of this table was updated.		




## store Table

Column	Key	Data Type	Description	Links From	Links To
store_id	 Primary Key	SERIAL	primary key, and also considered as a surrogate key. Recording every store by a unique ID.		customer, staff
manager_staff_id		SMALLINT	foreign key for the other tables and candidates key in this table. Recording managers in staffs by a unique ID		
address_id	 Foreign Key	SMALLINT	foreign key for the other tables and candidates key in this table. Recording every store location by a unique ID	address	
last_update		TIMESTAMP	The exact last time of this table was updated.		




## Film category Table

Column	Key	Data Type	Description	Links From	Links To
film_id	 Foreign Key	SMALLINT	foreign key for the other tables and candidates key in this table. Recording every film by a unique ID	film	
category_id	 Foreign Key	SMALLINT	Foreign key, surrogate key. Recording film's category by a unique ID.	category	
last_update		TIMESTAMP	The exact last time of this table was updated.		



## customer Table

Column	Key	Data Type	Description	Links From	Links To
customer_id	 Primary Key	SERIAL	primary key, foreign key, candidates key and also considered as a surrogate key. Recording every customer by a unique ID.		Payment, Rental
store_id	 Foreign Key	SMALLINT	foreign key, recording every store by a unique ID.	store	
first_name		VARCHAR(45)	Customer's first name		
last_name		VARCHAR(45)	Customer's last name		
email		VARCHAR(50)	Customer's email address		
address_id	 Foreign Key	SMALLINT	foreign key for the other tables and candidates key in this table. Recording every customer's address f by a unique ID	address	
activebool		BOOLEAN	The exact last time of this table was updated.		
create_date		DATE	Showing whether customers made a rental or not.		
last_update		TIMESTAMP	The exact last time of this table was updated.		
active		INTEGER	Showing whether customers active or not.		

## inventory Table


Column	Key	Data Type	Description	Links From	Links To
inventory_id	 Primary Key	SERIAL	primary key, candidates key, foreign key and also considered as a surrogate key. Recording an inventory by a unique ID.		rental
film_id	 Foreign Key	SMALLINT	foreign key for the other tables and candidates key in this table. Recording every film by a unique ID	film	
store_id	 Foreign Key	SMALLINT	foreign key for the other tables and candidates key in this table. Recording every store by a unique ID	store	
last_update		TIMESTAMP	The exact last time of this table was updated.		

## Film actor Table

Column	Key	Data Type	Description	Links From	Links To
actor_id	 Primary Key	SMALLINT	primary key, candidates key, foreign key and also considered as a surrogate key. Recording a film actor by a unique ID.	actor	
film_id	 Foreign Key	SMALLINT	foreign key for the other tables and candidates key in this table. Recording every film by a unique ID	film	
last_update		TIMESTAMP	The exact last time of this table was updated.		




## film Table

Column	Key	Data Type	Description	Links From	Links To
film_id	 Primary Key	SERIAL	Recording every film by a unique ID.		Film_actor, Film_category
title		VARCHAR(255)	a film's name		
description		TEXT	introduction a film's main story		
release_year		YEAR	the year that a film released		
language_id	 Foreign Key	SMALLINT	Recording every film's language by a unique ID	language	
rental_duration		SMALLINT	how long for a film rented by the customer.		
rental_rate		NUMERIC(4,2)	a score of a customer rented a film based on the experience they gave.		
length		SMALLINT	how long a film lasts.		
replacement_cost		NUMERIC(5,2)	the amount of cost to replace the film		
rating		mpaa_rating	a score based on how much does a customer like the film.		
last_update		TIMESTAMP	The exact last time of this table was updated.		
special_features		TEXT	any special thing or evens about a film, like a trailer etc..		
fulltext		TSVECTOR	some special or short words to describe a film.		



## address Table

Column	Key	Data Type	Description	Links From	Links To
address_id	 Primary Key	SERIAL	primary key, foreign key, candidates key and also considered as a surrogate key. Recording every address by a unique ID.		Customer, Staff. store
address		VARCHAR(50)	customers order address		
address2		VARCHAR(50)	backup column for customer's address		
district		VARCHAR(45)	customers' address area, like a city, province, or a state.		
city_id	 Foreign Key	VARCHAR(45)	Recording customer's home city by a unique ID	city	
post_code	 Foreign Key	VARCHAR(50)	Customer's post code	staff	
phone		SMALLINT	customer's phone number		


## category Table

Column	Key	Data Type	Description	Links From	Links To
category_id	 Primary Key	SERIAL	surrogate key. Recording type of film by a unique ID.		Film_category
Name		VARCHAR(25)	what kind of film it is, like action, music and so on.		
last_update		TIMESTAMP	The exact last time of this table was updated.		


## city Table

Column	Key	Data Type	Description	Links From	Links To
city_id	 Primary Key	SERIAL	primary key, candidates key, foreign key and also considered as a surrogate key. Recording types of language by a unique ID.		address
city		VARCHAR(50)	customer's order city		
country_id	 Foreign Key	SMALLINT	customer's order country by a unique ID	country	
last_update		TIMESTAMP	The exact last time of this table was updated.		



## language Table

Column	Key	Data Type	Description	Links From	Links To
language_id	 Primary Key	SERIAL	primary key, candidates key, foreign key and also considered as a surrogate key. Recording types of language by a unique ID.		film
Name		VARCHAR(20)	language that a film has		
last_update		TIMESTAMP	The exact last time of this table was updated.		


## country Table

Column	Key	Data Type	Description	Links From	Links To
country_id	 Primary Key	SERIAL	primary key, candidates key, foreign key and also considered as a surrogate key. Recording customer's order country by a unique ID.		city
country		VARCHAR(50)	customer's order of country		
last_update		TIMESTAMP	The exact last time of this table was updated.		

## actor Table

Column	Key	Data Type	Description	Links From	Links To
actor_id	 Primary Key	SERIAL	primary key, candidates key, foreign key and also considered as a surrogate key. Recording very film actor by a unique ID.		Film_actor
first_name		VARCHAR(45)	film actor's first name		
last_name	 Foreign Key	VARCHAR(45)	film actor's last name		
last_update		TIMESTAMP	The exact last time of this table was updated.		

## staff Table

Column	Key	Data Type	Description	Links From	Links To
staff_id	 Primary Key	SERIAL	primary key, foreign key, candidates key and also considered as a surrogate key. Recording every staff who works in by a unique ID.		Payment, Rental
first_name		VARCHAR(45)	staff's first name		
last_name		VARCHAR(45)	staff's last name		
address_id	→ Foreign Key	SMALLINT	staff's home address by a unique number		
email		VARCHAR(50)	staff's email address		
store_id	→ Foreign Key	SMALLINT	Recording every store by a unique ID	store	
active		BOOLEAN	whether this staff still works in or not		
username		VARCHAR(16)	staff uses it to login to company's operation system		
password		VARCHAR(40)	staff uses it to login to company's operation system		
last_update		TIMESTAMP	The exact last time of this table was updated.		
picture		BYTEA	staff's picture		