



Rockbuster Data Storage & Structure

# DATA DICTIONARY

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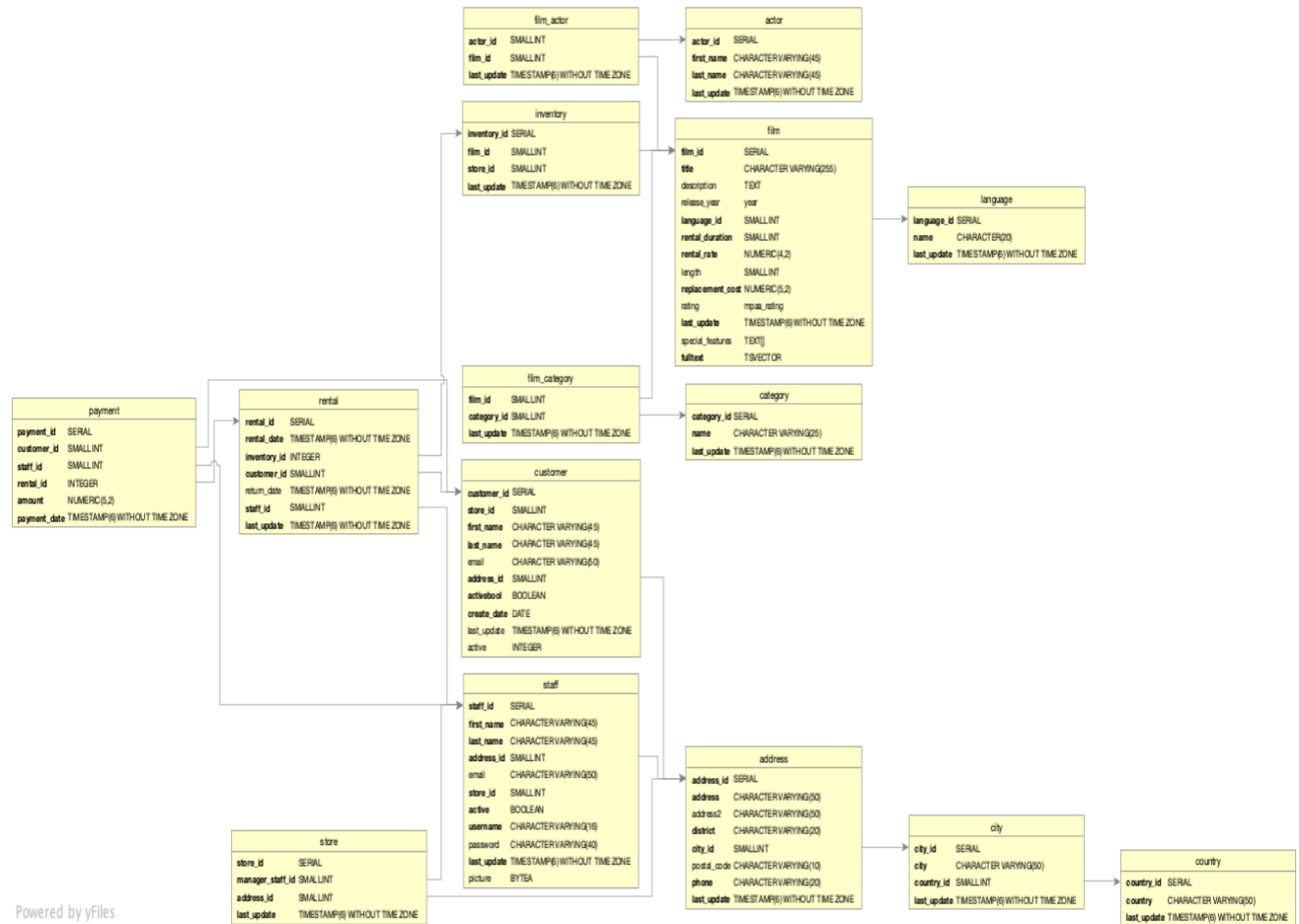
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# Entity Relationship Diagram





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## Schema Type

- This database has a snowflake schema because of the nesting dimension tables.

## Legend










Icon	Description
	Primary Key (PK)
	Foreign Key (FK)






Fact Table





Rental			
Key	Columns	Data Type	Description
	rental_id	SERIAL	Primary Key, it is unique for each row, there are no null values, and it cannot be modified
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp that includes the year, month, date and hour, minute, second for rental
	inventory_id	INTEGER	Foreign key to inventory table
	customer_id	SMALLINT	Foreign key to customer table
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp that includes the year, month, date and hour, minute, second for when rental was returned
	staff_id	SMALLINT	Foreign key to staff table





	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time that includes the year, month, date and hour, minute, second for when the table was last updated
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Dimension  
Tables





Payment			
<i>Key</i>	<i>Columns</i>	<i>Data Type</i>	<i>Description</i>
	payment_id	SERIAL	Primary Key, it is unique for each row, there are no null values, and it cannot be modified
	customer_id	SMALLINT	Foreign key, primary key to customer table
	staff_id	SMALLINT	Foreign key, primary key to staff table
	rental_id	INTEGER	Foreign key, primary key to fact table rental
	amount	NUMERIC(5,2)	Monetary charge for rental has a maximum of 5 characters for the dollar amount and a maximum of 2 for the cent amount.
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	timestamp that includes the year, month, date and hour, minute, second.
Store			
<i>Key</i>	<i>Columns</i>	<i>Data Type</i>	<i>Description</i>
	store_id	SERIAL	Primary Key, it is unique for each row, there are no null values, and it cannot be modified
	manager_staff_id	SMALLINT	Foreign key, part of primary key to staff table
	address_id	SMALLINT	Foreign key, primary key to address table
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time that includes the year, month, date and hour, minute, second for when the table was last updated
Film_category			
<i>Key</i>	<i>Columns</i>	<i>Data Type</i>	<i>Description</i>
	film_id	SMALLINT	Primary Key, it is unique for each row, there are no null values, and it cannot be modified
	category_id	SMALLINT	Foreign key to category

	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time of latest update by date and time
<b>Customer</b>			
<b>Key</b>	<b>Columns</b>	<b>Data Type</b>	<b>Description</b>
	customer_id	SERIAL	Primary Key, it is unique for each row, there are no null values, and it cannot be modified
	store_id	SMALLINT	The identification of the store where the rental occurred
	first_name	CHARACTER VARYING(45)	First name of the customer, has a max of 45 characters
	last_name	CHARACTER VARYING(45)	Last name of the customer, has a max of 45 characters
	email	CHARACTER VARYING(50)	The customers email address
	address_id	SMALLINT	A unique number that has no value
	activebool	BOOLEAN	A data type stating true value
	create_date	DATE	The date when the customer's account was created
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time that includes the year, month, date and hour, minute, second for when the table was last updated
	active	INTEGER	Is the account active or deactivate with the numbers 1 and 0
<b>Inventory</b>			
<b>Key</b>	<b>Columns</b>	<b>Data Type</b>	<b>Description</b>
	inveontry_id	SERIAL	Primary Key, it is unique for each row, there are no null values, and it cannot be modified
	film_id	SMALLINT	Foreign key to Film table
	store_id	SMALLINT	Identification for each store is represented by a number.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time that includes the year, month, date and hour, minute, second for when the table was last updated
<b>Film_Actor</b>			
<b>Key</b>	<b>Columns</b>	<b>Data Type</b>	<b>Description</b>
	actor_id	SMALLINT	Primary Key, it is unique for each row, there are no null values, and it cannot be modified
	film_id	SMALLINT	Foreign key to film table

	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time that includes the year, month, date and hour, minute, second for when the table was last updated
<b>Staff</b>			
<b>Key</b>	<b>Columns</b>	<b>Data Type</b>	<b>Description</b>
	staff_id	SERIAL	Primary Key, it is unique for each row, there are no null values, and it cannot be modified
	first_name	CHARACTER VARYING(45)	First name of the staff member, max of 45 characters
	last_name	CHARACTER VARYING(45)	Last name of the staff member, max of 45 characters
	address_id	SMALLINT	Foreign key to address table
	email	CHARACTER VARYING(50)	Email address of the staff member, max of 50 characters
	store_id	SMALLINT	Identification number for each store
	active	BOOLEAN	A data type stating true value
	username	CHARACTER VARYING(16)	Staff members username
	password	CHARACTER VARYING(40)	Staff members personal password
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time that includes the year, month, date and hour, minute, second for when the table was last updated
	picture	BYTEA	Picture of employee
<b>Actor</b>			
<b>Key</b>	<b>Columns</b>	<b>Data Type</b>	<b>Description</b>
	actor_id	SERIAL	Primary Key, it is unique for each row, there are no null values, and it cannot be modified
	first_name	CHARACTER VARYING(45)	The first name of the actor, cannot have more than 45 characters
	last_name	CHARACTER VARYING(45)	The last name of the actor, cannot have more than 45 characters
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time that includes the year, month, date and hour, minute, second for when the table was last updated
<b>Category</b>			
<b>Key</b>	<b>Columns</b>	<b>Data Type</b>	<b>Description</b>
	category_id	SERIAL	Primary Key, it is unique for each row, there are no null values, and it cannot be modified
	name	CHARACTER VARYING(25)	Categorized each film by genre. Cannot exceed more than 25 characters

	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time that includes the year, month, date and hour, minute, second for when the table was last updated
<b>Language</b>			
<b>Key</b>	<b>Columns</b>	<b>Data Type</b>	<b>Description</b>
	language_id	SERIAL	Primary Key, it is unique for each row, there are no null values, and it cannot be modified
	name	CHARACTER(20)	The language of the film. Cannot exceed more than 20 characters
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time that includes the year, month, date and hour, minute, second for when the table was last updated
<b>Film</b>			
<b>Key</b>	<b>Columns</b>	<b>Data Type</b>	<b>Description</b>
	film_id	SERIAL	Primary Key, it is unique for each row, there are no null values, and it cannot be modified
	title	CHARACTER VARYING(255)	Title of the film, cannot exceed 255 characters
	description	TEXT	Description of the film
	release_year	year	The year the film was out
	language_id	SMALLINT	Foreign key for language table
	rental_duration	SMALLINT	Days of rental duration
	rental_rate	NUMERIC(4,2)	The cost of each rental, in format of dollar and cent amount.
	length	SMALLINT	The length of each film by minutes
	replacement_cost	NUMERIC(5,2)	The cost it will take to replace the film, format of dollar and cent amount
	rating	mpaa_rating	The rating of each film
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time that includes the year, month, date and hour, minute, second for when the table was last updated
	special_features	TEXT[]	Describes if there any special features
	fulltext	TSVECTOR	Text is organized in an optimized form for text search
<b>Country</b>			
<b>Key</b>	<b>Columns</b>	<b>Data Type</b>	<b>Description</b>
	country_id	SERIAL	Primary Key, it is unique for each row, there are no null values, and it cannot be modified
	country	CHARACTER VARYING(50)	Name of each country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time that includes the year, month, date and hour, minute, second for when the table was last updated



Address			
	<i>Columns</i>	<i>Data Type</i>	<i>Description</i>
	address_id	SERIAL	Primary Key, it is unique for each row, there are no null values, and it cannot be modified
	address	CHARACTER VARYING(50)	Address, cannot exceed 50 characters
	address2	CHARACTER VARYING(50)	2 <sup>nd</sup> address, cannot exceed 50 characters
	district	CHARACTER VARYING(20)	District of the store, cannot exceed 20 characters
	city_id	SMALLINT	Foreign key to city table
	postal_code	CHARACTER VARYING(10)	The postal code of the address, cannot exceed 10 characters
	phone	CHARACTER VARYING(20)	Phone number, cannot exceed 20 characters
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time that includes the year, month, date and hour, minute, second for when the table was last updated
City			
<i>Key</i>	<i>Columns</i>	<i>Data Type</i>	<i>Description</i>
	city_id	SERIAL	Primary Key, it is unique for each row, there are no null values, and it cannot be modified
	city	CHARACTER VARYING(50)	Name of the city, cannot exceed 50 characters
	country_id	SMALLINT	Foreign key for country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time that includes the year, month, date and hour, minute, second for when the table was last updated