

# DATA DICTIONARY

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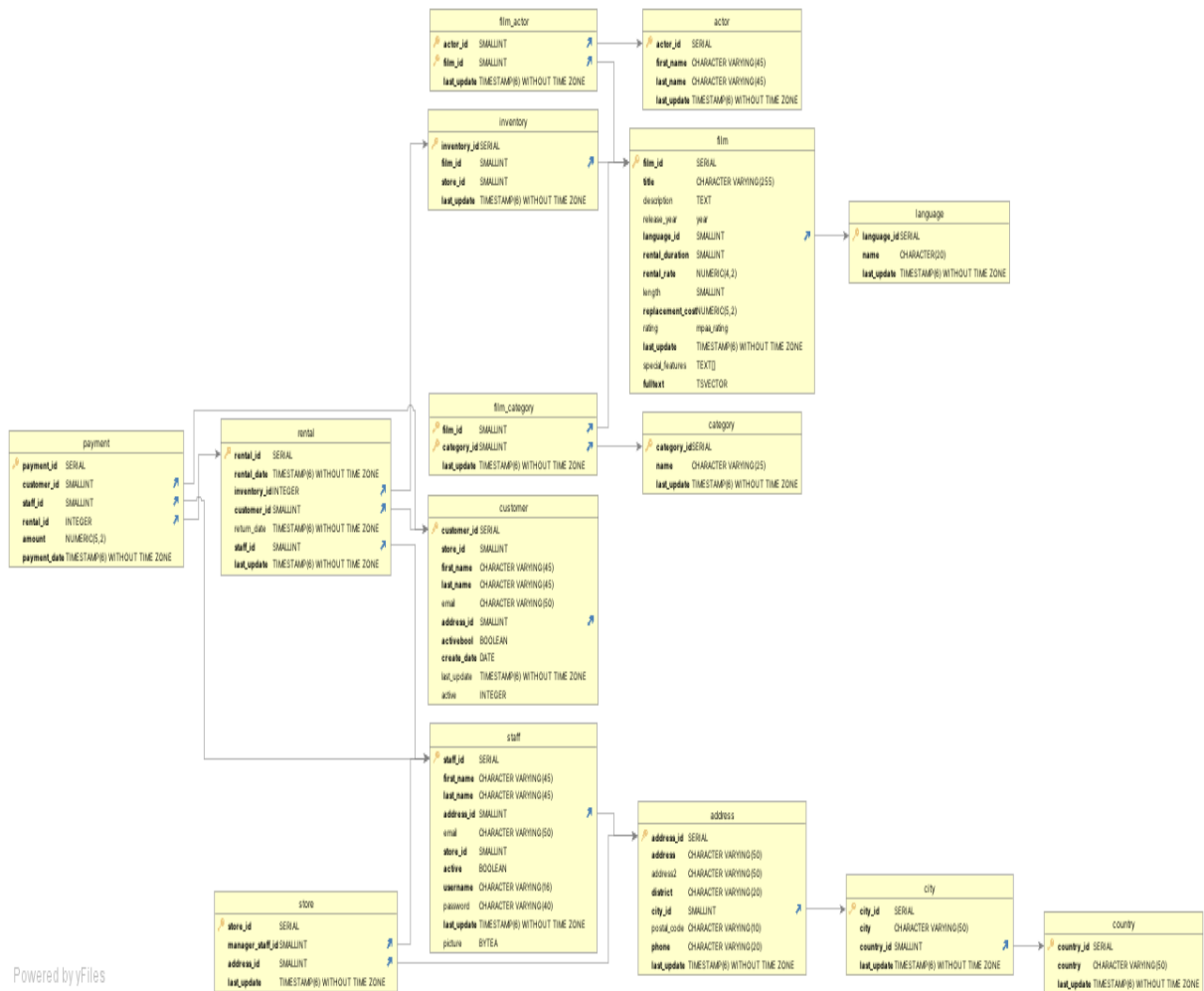
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# Entity Relationship Diagram (ERD)



## Fact tables

### Rental table

Key	column	data type	description
primary key	rental_id	SERIAL	Rental identifier through a unique rental number
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp with date, year, and time without time zone
foreign key	inventory_id	INTEGER	Inventory identifier through a unique number
foreign key	customer_id	SMALLINT	Customer identifier through a unique number
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp with date, year, and time without time zone
foreign key	staff_id	SMALLINT	Staff identifier through a unique number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp with date, year, and time without time zone

Rental table links to:

TABLE	LINK
Customer Table	rental.customer_id=customer_customer_id
Staff Table	rental.staff_id=staff_staff_id
Inventory Table	rental.inventory_id=inventory_inventory_id

Rental table links from:

TABLE	LINK
Payment Table	payment.rental_id=rental_rental_id

## Payment table

Key	column	data type	description
primary key	payment_id	SERIAL	Payment identifier through a unique number
foreign key	customer_id	SMALLINT	Customer identifier through a unique number
foreign key	staff_id	SMALLINT	Staff identifier through a unique number
foreign key	rental_id	INTEGER	Rental identifier through a unique number
	amount	NUMERIC(5,2)	Numerically expressed amount/cost
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp with date, year, and time without time zone

## Payment table links to:

TABLE	LINK
Rental Table	payment.rental_id=rental_rental_id
Customer Table	payment.customer_id=customer_customer_id
Staff Table	payment.staff_id=staff_staff_id

## Payment table links from:

TABLE	LINK
N/A	N/A

## Dimension tables

### Customer table

Key	column	data type	description
<b>primary key</b>	customer_id	SERIAL	Customer identifier through a unique number
<b>foreign key</b>	store_id	SMALLINT	Store identifier through a unique number
	first_name	CHARACTER VARYING (45)	First name of customer - text
	last_name	CHARACTER VARYING (45)	Last name of customer - text
	email	CHARACTER VARYING (50)	Email address of customer - text
<b>foreign key</b>	address_id	SMALLINT	Address identifier through a unique number
	activebool	BOOLEAN	Status of the customer's activity
	create_date	DATE	Day, month and year
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp with date, year, and time without time zone

Customer table links to:

TABLE	LINK
Staff Table	customer_store_id=staff_store_id customer_address_id=staff_address_id
Inventory Table	customer_store_id=inventory_store_id
Store Table	customer_store_id=store_store_id customer_address_id=store_address_id
Address Table	customer_address_id=address_address_id

Customer table links from:

TABLE	LINK
Payment Table	payment_customer_id= customer_customer_id
Rental Table	rental_customer_id= customer_customer_id

## Staff table

key	Column	data type	description
<b>primary key</b>	staff_id	SERIAL	Staff identifier through a unique number
	first_name	CHARACTER VARYING (45)	First name of staff - text
	last_name	CHARACTER VARYING (45)	Last name of staff - text
<b>foreign key</b>	address_id	SMALLINT	Address identifier through a unique number
	Email	CHARACTER VARYING (50)	Email address of staff - text
<b>foreign key</b>	store_id	SMALLINT	Store identifier through a unique number
	Active	BOOLEAN	Staff activity status
	Username	CHARACTER VARYING (16)	Username of staff
	Password	CHARACTER VARYING (40)	Password of staff – letters and numbers
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp with date, year, and time without time zone
	Picture	BYTEA	Picture of the staff

Staff table links to:

TABLE	LINK
Customer Table	staff_store_id=customer_store_id staff_address_id=customer_address_id
Store Table	staff_store_id=store_store_id staff_address_id=store_address_id
Inventory Table	staff_store_id=inventory_store_id
Address Table	staff_address_id=address_address_id

Staff table links from:

TABLE	LINK
Rental Table	rental_staff_id= staff_staff_id
Payment Table	payment_staf_id= staff_staff_id



## Inventory table

key	column	data type	description
<b>primary key</b>	inventory_id	SERIAL	Inventory identifier through a unique number
<b>foreign key</b>	film_id	SMALLINT	Film identifier through a unique number
<b>foreign key</b>	store_id	SMALLINT	Store identifier through a unique number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp with date, year, and time without time zone

Inventory table links to:

TABLE	LINK
Customer Table	inventory_store_id=customer_store_id
Staff Table	inventory_store_id=staff_store_id
Store Table	inventory_store_id=store_store_id
Film_category Table	inventory_film_id=film_category_film_id
Film_actor Table	inventory_film_id=film_actor_film_id
Film Table	inventory_film_id=film_film_id

Inventory table links from:

TABLE	LINK
Rental Table	rental_inventory_id= inventory_inventory_id

## Store table

key	Column	data type	description
<b>primary key</b>	store_id	SERIAL	Store identifier through a unique number
<b>foreign key</b>	manager_staff_id	SMALLINT	Manager staff identifier through a unique number
<b>foreign key</b>	address_id	SMALLINT	Address identifier through a unique number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp with date, year, and time without time zone

Store table links to:

TABLE	LINK
Customer Table	store_store_id=customer_store_id store_address_id=customer_address_id
Staff Table	store_store_id=staff_store_id store_address_id=staff_address_id
Inventory Table	store_store_id=inventory_store_id
Address Table	store_address_id=address_address_id

Store table links from:

TABLE	LINK
N/A	N/A

## Address table

key	column	data type	description
<b>primary key</b>	address_id	SERIAL	Address identifier through a unique number
	address	CHARACTER VARYING(50)	Address
	address2	CHARACTER VARYING(50)	No values entered
	district	CHARACTER VARYING(20)	The name of the district
<b>foreign key</b>	city_id	SMALLINT	City identifier through a unique number
	postal_code	CHARACTER VARYING(10)	Postal code-number
	phone	CHARACTER VARYING(20)	Phone number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp with date, year, and time without time zone

Address table links to:

TABLE	LINK
City Table	address_city_id =city_city_id

Address table links from:

TABLE	LINK
Customer Table	customer_address_id= address_address_id
Staff Table	staff_address_id = address_address_id
Store Table	store_address_id = address_address_id

## City table

key	column	data type	description
<b>primary key</b>	city_id	SERIAL	City identifier through a unique number
	city	CHARACTER VARYING(50)	Name of the city
<b>foreign key</b>	country_id	SMALLINT	Country identifier through a unique number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp with date, year, and time without time zone

City table links to:

TABLE	LINK
Country Table	city_country_id=country_country_id

City table links from:

TABLE	LINK
Address Table	Address_city_id= city_city_id

## Country table

key	column	data type	description
<b>primary key</b>	country_id	SERIAL	Country identifier through a unique number
	country	CHARACTER VARYING(50)	Name of the country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp with date, year, and time without time zone

Country table links to:

TABLE	LINK
N/A	N/A

Country table links from:

TABLE	LINK
City Table	city_country_id=country_country_id

## Film\_category table

key	column	data type	description
primary key	film_id	SMALLINT	Film category identifier through a unique number
foreign key	category_id	SMALLINT	Category identifier through a unique number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp with date, year, and time without time zone

Film\_category table links to:

TABLE	LINK
Inventory Table	film_category_film_id=inventory_film_id
Film_actor Table	film_category_film_id=film_actor_film_id
Film Table	film_category_film_id=film_film_id
Category Table	film_category_category_id=category_category_id

Film\_category table links from:

TABLE	LINK
N/A	N/A

## Film\_actor table

key	column	data type	description
primary key	actor_id	SMALLINT	Actor identifier through a unique number
foreign key	film_id	SMALLINT	Film identifier through a unique number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp with date, year, and time without time zone

Film\_actor table links to:

TABLE	LINK
Inventory Table	film_actor_film_id=inventory_film_id
Film_category Table	film_actor_film_id=film_category_film_id
Film Table	film_actor_film_id=film_film_id
Actor Table	film_actor_actor_id=actor_actor_id

Film\_actor table links from:

TABLE	LINK
N/A	N/A

## Actor table

key	column	data type	description
<b>primary key</b>	actor_id	SERIAL	Actor identifier through a unique number
	first_name	CHARACTER VARYING (45)	First name of actor - text
	last_name	CHARACTER VARYING (45)	Last name of actor - text
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp with date, year, and time without time zone

Actor table links to:

TABLE	LINK
N/A	N/A

Actor table links from:

TABLE	LINK
Film_actor Table	film_actor_actor_id= actor_actor_id

## Category table

key	column	data type	description
<b>primary key</b>	category_id	SERIAL	Category identifier through a unique number
	name	CHARACTER VARYING (25)	Name of category-text
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp with date, year, and time without time zone

Category table links to:

TABLE	LINK
N/A	N/A

Category table links from:

TABLE	LINK
Film_category Table	film_category_category_id= category_category_id

## Film table

Key	column	data type	description
<b>primary key</b>	film_id	SERIAL	Film identifier through a unique number
	title	CHARACTER VARYING (255)	Title of film-text
	description	TEXT	Description of film-text
	release_year	year	Release year of film
<b>foreign key</b>	language_id	SMALLINT	Language identifier through number
	rental_duration	SMALLINT	The rental duration of film
	rental_rate	NUMERIC(4,2)	The rental rate of film
	length	SMALLINT	The length of film
	replacement_cost	NUMERIC(5,2)	The replacement cost of the film
	rating	mpaa_rating	The rating of the film (NC-17; R; PG-13; PG; G)
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp with date, year, and time without time zone

Film table links to:

TABLE	LINK
Language Table	film_language_id=language_language_id

Film table links from:

TABLE	LINK
Inventory Table	inventory_film_id =film_film_id
Film_category Table	film_category_film_id= film_film_id
Film_actor Table	film_actor_film_id= film_film_id

## Language table

key	column	data type	description
primary key	language_id	SERIAL	Language identifier through a unique number
	name	CHARACTER (20)	The name of the language
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp with date, year, and time without time zone

Language table links to:

TABLE	LINK
N/A	N/A

Language table links from:

TABLE	LINK
Film Table	film_language_id= language_language_id