

Data Dictionary

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Entity Relationship Diagram (ERD)



Legend




Primary Key



Unique Key

Fact Table

Payment


	Column	Data Type	Description
	payment_id	SERIAL	Unique serial number to each payment
	customer_id	SMALLINT	Unique serial number to each customer
	staff_id	SMALLINT	Unique serial number to each employee
	rental_id	INTEGER	Unique serial number to each rental
	amount	NUMERIC(5,2)	Amount of the payment
	payment_date	TIMESTAMP(6)	Payment date & time w/o time zone

Links to

Table	Join
customer	payment.customer_id = customer.customer_id
staff	payment.staff_id = staff.staff_id
rental	payment.rental_id = rental.rental_id

Dimension Tables

Rental

	Column	Data Type	Description
	rental_id	SERIAL	Unique serial number to each rental
	rental_date	TIMESTAMP(6)	Rental date & time w/o time zone
	inventory_id	INTEGER	Unique serial number to each inventory item
	customer_id	SMALLINT	Unique serial number to each customer
	return_date	TIMESTAMP(6)	Return date & time w/o time zone
	staff_id	SMALLINT	Unique serial number to each employee
	last_update	TIMESTAMP(6)	Last update date & time w/o time zone


Links to

Table	Join
inventory	rental.inventory_id = inventory.inventory_id
customer	rental.customer_id = customer.customer_id
staff	rental.staff_id = staff.staff_id

Linked from

Table	Join
payment	rental.rental_id = payment.rental_id



Store

	Column	Data Type	Description
	store_id	SERIAL	Unique serial number to each store
	manager_staff_id	SMALLINT	Unique serial number to each manager
	address_id	SMALLINT	Unique serial number to each address
	last_update	TIMESTAMP(6)	Last update date & time w/o time zone

Links to

Table	Join
staff	store.store_id = staff.store_id
address	store.address_id = address.address_id


Film_actor

	Column	Data Type	Description
	actor_id	SMALLINT	Unique serial number to each actor
	film_id	SMALLINT	Unique serial number to each film
	last_update	TIMESTAMP(6)	Last update date & time w/o time zone

Links to

Table	Join
actor	film_actor.actor_id = actor.actor_id
film	film_actor.film_id = film.film_id

Inventory

	Column	Data Type	Description
	inventory_id	SERIAL	Unique serial number to each inventory item
	film_id	SMALLINT	Unique serial number to each film
	store_id	SERIAL	Unique serial number to each store
	last_update	TIMESTAMP(6)	Last update date & time w/o time zone



Links to

Table	Join
film	inventory.film_id = film.film_id

Linked from

Table	Join
rental	inventory.inventory_id = rental.inventory_id


Film_category

	Column	Data Type	Description
	film_id	SMALLINT	Unique serial number to each film
	category_id	SMALLINT	Unique serial number to each film category
	last_update	TIMESTAMP(6)	Last update date & time w/o time zone

Links to

Table	Join
film	film_category.film_id = film.film_id
category	film_category.category_id = category.category_id

Customer

	Column	Data Type	Description
	customer_id	SERIAL	Unique serial number to each customer
	store_id	SMALLINT	Unique serial number to each store
	first_name	CHARACTER VARYING(45)	Customer first name
	last_name	CHARACTER VARYING(45)	Customer last name
	email	CHARACTER VARYING(45)	Customer email address
	address_id	SMALLINT	Unique serial number to each address
	activebool	BOOLEAN	Customer active status
	create_date	DATE	Customer creation date
	last_update	TIMESTAMP(6)	Last update date & time w/o time zone
	active	INTEGER	Customer active status

Links to

Table	Join
address	customer.address_id = address.address_id

Linked from

Table	Join
rental	customer.customer_id = rental.customer_id
payment	customer.customer_id = payment.customer_id

Staff

	Column	Data Type	Description
	staff_id	SERIAL	Unique serial number to each employee

	first_name	CHARACTER VARYING(45)	Employee first name
	last_name	CHARACTER VARYING(45)	Employee last name
	address_id	SMALLINT	Unique serial number to each address
	email	CHARACTER VARYING(45)	Employee email address
	store_id	SMALLINT	Unique serial number to each store
	active	BOOLEAN	Employee active status
	username	CHARACTER VARYING(16)	Employee username
	password	CHARACTER VARYING(40)	Employee password
	last_update	TIMESTAMP(6)	Last update date & time w/o time zone
	picture	BYTEA	Photo of employee


Links to

Table	Join
address	staff.address_id = address.address_id

Linked from

Table	Join
payment	staff.staff_id = payment.staff_id
rental	staff.staff_id = rental.staff_id
store	staff.store_id = store.store_id

Actor

	Column	Data Type	Description
	actor_id	SERIAL	Unique serial number to each actor
	first_name	CHARACTER VARYING(45)	Actor first name
	last_name	CHARACTER VARYING(45)	Actor last name
	last_update	TIMESTAMP(6)	Last update date & time w/o time zone

Linked from

Table	Join
film_actor	actor.actor_id = film_actor.actor_id

Film

	Column	Data Type	Description
	film_id	SERIAL	Unique serial number to each film

	title	CHARACTER VARYING(255)	Title of film
	description	TEXT	Description of film
	release_year	year	Release year of film
	language_id	SMALLINT	Unique serial number to each language
	rental_duration	SMALLINT	Duration of rental
	rental_date	NUMERIC(4,2)	Date of rental
	length	SMALLINT	Length of film
	replacement_cost	NUMERIC(5,2)	Cost of replacement film
	rating	mpaa_rating	Film MPAA rating
	last_update	TIMESTAMP(6)	Last update date & time w/o time zone
	special_features	TEXT[]	Special features of film
	fulltext	TSVECTOR	Full text


Links to

Table	Join
language	film.language_id = language.language_id

Linked from

Table	Join
film_actor	film.film_id = film_actor.film_id
inventory	staff.staff_id = payment.staff_id
film_category	film.film_id = film_category.film_id


Category

	Column	Data Type	Description
	category_id	SERIAL	Unique serial number to each category
	name	CHARACTER VARYING(35)	Category name
	last_update	TIMESTAMP(6)	Last update date & time w/o time zone

Linked from

Table	Join
film_category	category.category_id = film_category.category_id

Address

	Column	Data Type	Description
	address_id	SERIAL	Unique serial number to each address
	address	CHARACTER VARYING(50)	Address first line
	address2	CHARACTER VARYING(50)	Address second line

	district	CHARACTER VARYING(50)	District of address
	city_id	SMALLINT	Unique serial number to each city
	postal_code	CHARACTER VARYING(50)	Zip Code
	phone	CHARACTER VARYING(20)	Phone number
	last_update	TIMESTAMP(6)	Last update date & time w/o time zone


Links to

Table	Join
city	address.city_id = city.city_id

Linked from

Table	Join
customer	address.address_id = customer.address_id
staff	address.address_id = staff.address_id
store	address.address_id = store.address_id


Language

Column	Data Type	Description
 language_id	SERIAL	Unique serial number to each language
name	CHARACTER(20)	Language
last_update	TIMESTAMP(6)	Last update date & time w/o time zone

Linked from

Table	Join
film	language.language_id = film.language_id

City

Column	Data Type	Description
 city_id	SERIAL	Unique serial number to each city
city	CHARACTER VARYING(50)	City
country_id	SMALLINT	Unique serial number to each country
last_update	TIMESTAMP(6)	Last update date & time w/o time zone


Links to

Table	Join
payment	staff.staff_id = payment.staff_id

Linked from

Table	Join
address	city.city_id = address.city_id

Country

	Column	Data Type	Description
	country_id	SERIAL	Unique serial number to each country
	country	CHARACTER VARYING(50)	Country
	last_update	TIMESTAMP(6)	Last update date & time w/o time zone

Linked from

Table	Join
city	country.country_id = city.country_id