

17/12/2023

# Data Dictionary

## Exercise 3.10



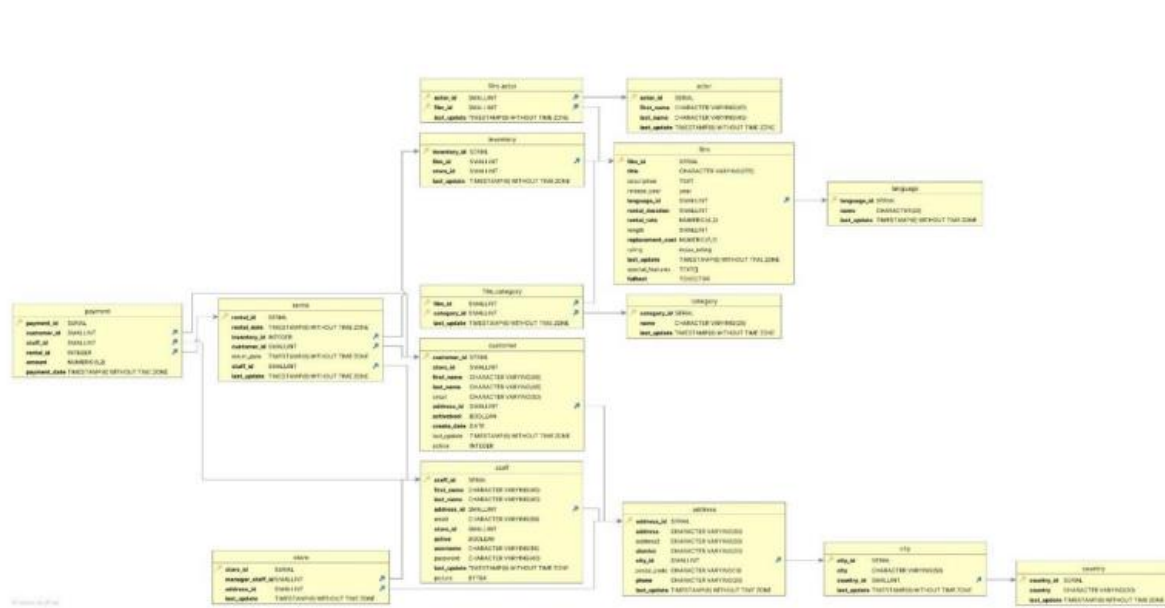
Mwayi Sosola

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## 1. Entity Relationship Diagram (ERD)



## 2. Tables



Primary Key



Foreign Key

### 2.1. Fact Table

Payment

	Columns	Data Type	Description
	payment_id	SERIAL	Unique number for each payment
	customer_id	SMALLINT	Unique number for each customer
	staff_id	SMALLINT	Unique number for each staff
	rental_id	INTEGER	Unique number for each rental
	amount	NUMERIC(5,2)	Amount of each payment
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of each payment

Links to

Table	Join
Rental	payment.rental_id = rental.rental_id
Customer	payment.customer_id = customer.customer_id
Staff	payment.staff_id = staff.staff_id

### 2.2. Dimension Table:

Rental

	Columns	Data Type	Description
	rental_id	SERIAL	Unique number for each rental
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of each rental
	inventory_id	INTEGER	Unique number for each inventory
	customer_id	SMALLINT	Unique number for each customer
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date when movie being returned
	staff_id	SMALLINT	Unique number for each staff
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table



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

Links from

Table	Join
Payment	payment.rental_id = rental.rental_id



## Film\_actor

	Columns	Data Type	Description
	actor_id	SMALLINT	Unique number for each actor
	film_id	SMALLINT	Unique number for each film
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table

## Links to

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

## Inventory

	Columns	Data Type	Description
	inventory_id	SERIAL	Unique number for each inventory
	film_id	SMALLINT	Unique number for each film
	store_id	SMALLINT	Unique number for each store
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table



## Links to

Table	Join
Film	Inventory.film_id = film.film_id

## Links from

Table	Join
Rental	rental.inventory_id = inventory.inventory_id



## Film\_category

	Columns	Data Type	Description
	film_id	SMALLINT	Unique number for each film
	category_id	SMALLINT	Unique number for each category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table

## Links to

Table	Join
Category	film_catogory.catogory_id = category.catogory_id
Film	film_catogory.film_id = film.film_id

## Customer

	Columns	Data Type	Description
	customer_id	SERIAL	Unique number for each customer
	store_id	SMALLINT	Unique number for each store
	first_name	CHARACTER VARYING (45)	First name of customer
	last_name	CHARACTER VARYING (45)	Last name of customer
	email	CHARACTER VARYING (50)	Email address of customer
	address_id	SMALLINT	Address of the customer
	activebool	BOOLEAN	Active: True or False
	create_date	DATE	Data of account creation
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Data of last update for the table
	active	INTEGER	Active status: 0 or 1



## Links to

Table	Join
Address	customer.address_id = address.address_id

## Links from

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

## Staff

	Columns	Data Type	Description
	staff_id	SERIAL	Unique number for each staff
	first_name	CHARACTER VARYING(45)	First name of staff
	last_name	CHARACTER VARYING(45)	Last name of staff
	address_id	SMALLINT	Address of staff
	email	CHARACTER VARYING(50)	Email address of staff
	store_id	SMALLINT	Unique number for each store
	active	BOOLEAN	Active: True or False
	username	CHARACTER VARYING(16)	Unique username of staff account
	password	CHARACTER VARYING(40)	Unique password of staff account
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table
	picture	BYTEA	Picture of staff




## Links to

Table	Join
Address	staff.address_id = address.address_id

Links from

Table	Join
Rental	rental.staff_id = staff.staff_id
Store	store.address_id = staff.address_id
payment	payment.staff_id = staff.staff_id


Store

	Columns	Data Type	Description
	store_id	SERIAL	Unique number for each store
	manager_staff_id	SMALLINT	Unique number for manager staff
	address_id	SMALLINT	Address of the store
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Data of last update for the table

Links to

Table	Join
Address	store.address_id = address.address_id
Staff	store.staff_id = staff.staff_id



Actor

	Columns	Data Type	Description
	actor_id	SERIAL	Unique number for each actor
	first_name	CHARACTER VARYING(45)	First name of the actor
	last_name	CHARACTER VARYING(45)	Last name of the actor
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table

Links from

Table	Join
Film_actor	film_actor.actor_id = actor.actor_id

Film

	Columns	Data Type	Description
	film_id	SERIAL	Unique number for each film
	title	CHARACTER VARYING(255)	Title of the film
	description	TEXT	The description of the film
	release_year	year	Release year of the film
	language_id	SMALLINT	Language of the film
	rental_duration	SMALLINT	Duration of the rental
	rental_rate	NUMERIC(4,2)	Rating of the rental
	length	SMALLINT	Length of the film
	replacement_cost	NUMERIC(5,2)	Cost of the replacement
	rating	mpaa_rating	Rating of the film
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table
	special_features	TEXT[]	Description of the special features of the film
	fulltext	TSVECTOR	Full text of description optimized for text search




Links to

Table	Join
Language	film.language_id = language.language_id


Links from

Table	Join
Film_actor	film_actor.film_id = film.film_id
Film_category	film_category.film_id = film.film_id
Inventory	inventory.film_id = film.film_id



Category

	Columns	Data Type	Description
	category_id	SERIAL	Unique number for each category
	name	CHARACTER VARYING(25)	Name of the category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table

Links from

	Columns	Data Type	Description
	category_id	SERIAL	Unique number for each category
	name	CHARACTER VARYING(25)	Name of the category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table

Address

	Columns	Data Type	Description
	address_id	SERIAL	Unique number for each address
	address	CHARACTER VARYING(50)	Detailed address
	address2	CHARACTER VARYING(50)	Complementary address
	distinct	CHARACTER VARYING(20)	Name of distinct
	city_id	SMALLINT	Unique number for each city
	postal_code	CHARACTER VARYING(10)	Postal code of the address
	phone	CHARACTER VARYING(20)	Phone number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table


Links to

Table	Join
City	address.city_id = city.city_id

Links from

Table	Join
Store	store.address_id = address.address_id
Staff	staff.address_id = address.address_id
Customer	customer.address_id = address.address_id



Language

	Columns	Data Type	Description
	language_id	SERIAL	Unique number for each language
	name	CHARACTER VARYING(20)	Name of language
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table

Links from

Table	Join
Film	film.language_id = language.language_id

City

	Columns	Data Type	Description
	city_id	SERIAL	Unique number for each city
	city	CHARACTER VARYING(50)	Name of the city
	country_id	SMALLINT	Unique number for each country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table


Links to

Table	Join
Country	city.country_id = country.country_id

Links from

Table	Join
Address	address.city_id = city.city_id

Country

	Columns	Data Type	Description
	country_id	SERIAL	Unique number for each country
	country	CHARACTER VARYING(50)	Name of country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last update for the table

Links from

Table	Join
City	city.country_id = country.country_id