Project 3.10 Data Dictionary

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2.1 Payment

Column Name	Data Type	Description
payment_id	SERIAL (PK)	Unique payment transaction ID.
customer_id	SMALLINT (FK)	Foreign key referencing customer.customer_id.
staff_id	SMALLINT (FK)	Foreign key referencing staff.staff_id.
rental_id	INTEGER (FK)	Foreign key referencing rental.rental_id.
amount	NUMERIC(5,2)	Payment amount.
payment_date	TIMESTAMP	Date and time of the payment.

2.2 Rental

Column Name	Data Type	Description
rental_id	SERIAL (PK)	Unique rental transaction ID.
rental_date	TIMESTAMP	Date and time when the rental was made.
inventory_id	INTEGER (FK)	Foreign key referencing inventory.inventory_id.
customer_id	SMALLINT (FK)	Foreign key referencing customer.customer_id.
return_date	TIMESTAMP	Date and time when the rental was returned.
staff_id	SMALLINT (FK)	Foreign key referencing staff.staff_id.

last_update	TIMESTAMP	Last update timestamp for the record.

3.1 Customer

Column Name	Data Type	Description
customer_id	SERIAL (PK)	Unique identifier for each customer.
store_id	SMALLINT (FK)	Foreign key referencing store.store_id.
first_name	VARCHAR(45)	First name of the customer.
last_name	VARCHAR(45)	Last name of the customer.
Emal	VARCHAR(50)	Customer's email.
Address_id	SMALLINT (FK)	Foreign key referencing address.address_id.
active	BOOLEAN	Indicates if the customer is active.
create_id	DATE	Date when the customer record was created.
last_update	TIMESTAMP	Last update timestamp for the record.

3.2 Staff

Column Name	Data Type	Description
staff_id	SERIAL (PK)	Unique identifier for each staff member.
first_name	VARCHAR(45)	First name of the staff member.

last_name	VARCHAR(45)	Last name of the staff member.
address_id	SMALLINT (FK)	Foreign key referencing address.address_id.
picture	BYTEA	Profile picture of the staff member.
email	VARCHAR(50)	Email address of the staff member.
store_id	SMALLINT (FK)	Foreign key referencing store.store_id.
active	BOOLEAN	Indicates if the staff member is active.
username	VARCHAR(16)	Username of the staff member.
password	VARCHAR(40)	Password of the staff member.
last_update	TIMESTAMP	Last update timestamp for the record.

3.3 Inventory

Column Name	Data Type	Description
inventory_id	SERIAL (PK)	Unique identifier for each inventory item.
film_id	SMALLINT (FK)	Foreign key referencing film.film_id.
store_id	SMALLINT (FK)	Foreign key referencing store.store_id.
last_update	TIMESTAMP	Last update timestamp for the record.

3.4 Film

Column Name	Data Type	Description
film_id	SERIAL (PK)	Unique identifier for each film.
title	VARCHAR(255)	Title of the film.
description	TEXT	Brief description of the film.
release_year	INTEGER	Year the film was released.
language_id	SMALLINT (FK)	Foreign key referencing language.language_id.
rental_duration	SMALLINT	Duration for which the film can be rented.
rental_rate	NUMERIC(4,2)	Cost of renting the film.
length	SMALLINT	Duration of the film in minutes.
replacement_cost	NUMERIC(5,2)	Cost to replace the film.
rating	VARCHAR(10)	Film rating (e.g., PG, R, etc.).
last_update	TIMESTAMP	Last update timestamp for the record.

3.5 Film Category

Column Name	Data Type	Description
film_id	SMALLINT (FK)	Foreign key referencing film.film_id.
category_id	SMALLINT (FK)	Foreign key referencing category.category_id.
last_update	TIMESTAMP	Last update timestamp for the record.

3.6 Film Actor

Column Name	Data Type	Decription
actor_id	SMALLINT (FK)	Foreign key referencing actor.actor_id.
film_id	SMALLINT (FK)	Foreign key referencing film.film_id
last_update	TIMESTAMP	Last update timestamp for the record

3.7 Actor

Column Name	Data Type	Description
actor_id	SERIAL (PK)	Unique identifier for each actor.
first_name	VARCHAR(45)	First name of the actor.
last_name	VARCHAR(45)	Last name of the actor.
last_update	TIMESTAMP	Last update timestamp for the record.

3.8 Category

Column Name	Data Type	Description
category_id	SERIAL (PK)	Unique identifier for each category.
name	VARCHAR(25)	Category name.
last_update	TIMESTAMP	Last update timestamp for the record.

3.9 Language

Column Name	Data Type	Description
language_id	SERIAL (PK)	Unique identifier for each language.
name	CHAR(20)	Language name.
last_update	TIMESTAMP	Last update timestamp for the record.

3.10 Store

Column Name	Data Type	Description
store_id	SERIAL (PK)	Unique identifier for each store.
manager_staff_id	SMALLINT (FK)	Foreign key referencing staff.staff_id.
address_id	SMALLINT (FK)	Foreign key referencing address.address_id.
last_update	TIMESTAMP	Last update timestamp for the record.

3.11 Address

Column Name	Data Type	Description
address_id	SERIAL (PK)	Unique identifier for each address.
address	VARCHAR(50)	Street address.
address2	VARCHAR(50)	Secondary street address.
district	VARCHAR(20)	District or region.
city_id	SMALLINT (FK)	Foreign key referencing city.city_id.

postal_code	VARCHAR(10)	Postal or ZIP code.
phone	VARCHAR(20)	Contact phone number.
last_update	TIMESTAMP	Last update timestamp for the record.

3.12 City

Column Name	Data Type	Description
city_id	SERIAL (PK)	Unique identifier for each city.
city	VARCHAR(50)	Name of the city.
country_id	SMALLINT (FK)	Foreign key referencing country.country_id.
last_update	TIMESTAMP	Last update timestamp for the record.

3.13 Country

Column Name	Data Type	Description
country_id	SERIAL (PK)	Unique identifier for each country.
country	VARCHAR(50)	Name of the country.
last_update	TIMESTAMP	Last update timestamp for the record.

4. Relationships Diagram

film_actor
- actor_id — SMALLINT
- film_id — SMALLINT
- last_update — TIMESTAMP(6) WITHOUT TIME ZONE

actor
- actor_id — SERIAL
- first_name — CHARACTER VARYING(45)
- last_name — CHARACTER VARYING(45)
- last_update — TIMESTAMP(6) WITHOUT TIME ZONE

inventory
- inventory_id — SERIAL
- film_id — SMALLINT
- store_id — SMALLINT
- last_update — TIMESTAMP(6) WITHOUT TIME ZONE

film
- film_id — SERIAL
- title — CHARACTER VARYING(255)
- description — TEXT
- release_year — year
- language_id — SMALLINT
- rental_duration — SMALLINT
- rental_rate — NUMERIC(4,2)
- length — SMALLINT
- replacement_cost — NUMERIC(5,2)
- rating — mpaa_rating
- last_update — TIMESTAMP(6) WITHOUT TIME ZONE
- special_features — TEXT[]
- fulltext — TSVECTOR

language
- language_id — SERIAL
- name — CHARACTER(20)
- last_update — TIMESTAMP(6) WITHOUT TIME ZONE

film_category
- film_id — SMALLINT
- category_id — SMALLINT
- last_update — TIMESTAMP(6) WITHOUT TIME ZONE

category
- category_id — SERIAL
- name — CHARACTER VARYING(25)
- last_update — TIMESTAMP(6) WITHOUT TIME ZONE

payment
- payment_id — SERIAL
- customer_id — SMALLINT
- staff_id — SMALLINT
- rental_id — INTEGER
- amount — NUMERIC(5,2)
- payment_date — TIMESTAMP(6) WITHOUT TIME ZONE

rental
- rental_id — SERIAL
- rental_date — TIMESTAMP(6) WITHOUT TIME ZONE
- inventory_id — INTEGER
- customer_id — SMALLINT
- return_date — TIMESTAMP(6) WITHOUT TIME ZONE
- staff_id — SMALLINT
- last_update — TIMESTAMP(6) WITHOUT TIME ZONE

customer
- customer_id — SERIAL
- store_id — SMALLINT
- first_name — CHARACTER VARYING(45)
- last_name — CHARACTER VARYING(45)
- email — CHARACTER VARYING(50)
- address_id — SMALLINT
- activebool — BOOLEAN
- create_date — DATE
- last_update — TIMESTAMP(6) WITHOUT TIME ZONE
- active — INTEGER

staff
- staff_id — SERIAL
- first_name — CHARACTER VARYING(45)
- last_name — CHARACTER VARYING(45)
- address_id — SMALLINT
- email — CHARACTER VARYING(50)
- store_id — SMALLINT
- active — BOOLEAN
- username — CHARACTER VARYING(16)
- password — CHARACTER VARYING(40)
- last_update — TIMESTAMP(6) WITHOUT TIME ZONE
- picture — BYTEA

address
- address_id — SERIAL
- address — CHARACTER VARYING(50)
- address2 — CHARACTER VARYING(50)
- district — CHARACTER VARYING(20)
- city_id — SMALLINT
- postal_code — CHARACTER VARYING(10)
- phone — CHARACTER VARYING(20)
- last_update — TIMESTAMP(6) WITHOUT TIME ZONE

city
- city_id — SERIAL
- city — CHARACTER VARYING(50)
- country_id — SMALLINT
- last_update — TIMESTAMP(6) WITHOUT TIME ZONE

country
- country_id — SERIAL
- country — CHARACTER VARYING(50)
- last_update — TIMESTAMP(6) WITHOUT TIME ZONE

store
- store_id — SERIAL
- manager_staff_id — SMALLINT
- address_id — SMALLINT
- last_update — TIMESTAMP(6) WITHOUT TIME ZONE

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