# ROCKBUSTER STEALTH LLC
# Data Dictionary

by Yevgeniya Em

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## A. Fact Tables

### Film_actor

| Key type | Column | Data type | Description |
|---|---|---|---|
| Primary | actor_id | SMALLINT | Foreign key to actor table. |
| Foreign | film_id | SMALLINT | Foreign key to film table. |
| | last_update | TIMESTAMP | Timestamp of the last update to the record. |

### Film_category

| Key type | Column | Data type | Description |
|---|---|---|---|
| Primary | film_id | SMALLINT | Foreign key to film table. |
| Foreign | category_id | SMALLINT | Foreign key to category table. |
| | last_update | TIMESTAMP | Timestamp of the last update to the record. |

### Payment

| Key type | Column | Data type | Description |
|---|---|---|---|
| primary | payment_id | SERIAL | Unique identifier for each payment. |
| Foreign | customer_id | SMALLINT | Foreign key to customer table. |
| Foreign | staff_id | SMALLINT | Foreign key to staff table, indicating who processed the payment. |
| Foreign | rental_id | INTEGER | Foreign key to rental table. |
| | amount | NUMERIC(5,2) | Amount paid. |
| | payment_date | TIMESTAMP | Date and time of payment. |

### Rental

| Key type | Column | Data type | Description |
|---|---|---|---|
| Primary | rental_id | SERIAL | Unique identifier for each rental record. |
| | rental_date | TIMESTAMP | Date and time the rental started. |
| Foreign | inventory_id | INTEGER | Foreign key to inventory table, indicating the rented item. |
| | return_date | SMALLINT | Foreign key to customer table |
| Foreign | customer_id | TIMESTAMP | Date and time the rental ended. |
| Foreign | staff_id | SMALLINT | Foreign key to staff table, representing the employee who handled the rental. |

| | | | |
|---|---|---|---|
| | last_update | TIMESTAMP | Timestamp of the last update to the record. |

## B. Dimension Tables

### Actor

| Key tape | Column | Data type | Description |
|---|---|---|---|
| Primary | actor_id | SERIAL | Unique identifier for each actor. |
| | first_name | CHARACTER VARYING(45) | Firsname of actor. |
| | last_name | CHARACTER VARYING(45) | Lastname of actor. |
| | last_update: | TIMESTAMP | Timestamp of the last update. |

### Address

| Key tape | Column | Data type | Description |
|---|---|---|---|
| Primary | address_id | SERIAL | Unique identifier for each address. |
| Foreign | address | CHARACTER VARYING(50) | First line of the address. |
| | address2 | CHARACTER VARYING(50) | Second line of the address. |
| | district | CHARACTER VARYING(20) | District or region of the address. |
| Foreign | city_id | SMALLINT | Foreign key to city table. |
| | postal_code | CHARACTER VARYING(10) | Postal code of the address. |
| | phone | CHARACTER VARYING(20) | Contact phone number. |
| | last_update: | TIMESTAMP | Timestamp of the last update. |

### Category

| Key type | Column | Data type | Description |
|---|---|---|---|
| Primary | category_id | SERIAL | Unique identifier for each category. |
| | name | CHARACTER VARYING(25) | Name of the category. |
| | last_update | TIMESTAMP | Timestamp of the last update. |

### City

| Key type | Column | Data type | Description |
|---|---|---|---|
| Primary | city_id | SERIAL | Unique identifier for each city. |
| | city | CHARACTER VARYING(50) | Name of the city. |

| | | | |
|---|---|---|---|
| Foreign | country_id | SMALLINT | Foreign key to country table. |
| | last_update | TIMESTAMP | Timestamp of the last update. |

## Customer

| Key type | Column | Data type | Description |
|---|---|---|---|
| Primary | customer_id | SERIAL | Unique identifier for each customer. |
| Foreign | store_id | SMALLINT | Foreign key to store table. |
| | first_name | CHARACTER VARYING(45) | Customer's first name. |
| | last_name | CHARACTER VARYING(45) | Customer's last name. |
| | email | CHARACTER VARYING(50) | Customer's email address. |
| Foreign | address_id | SMALLINT | Foreign key to address table. |
| | activebool | BOOLEAN | Indicates if the customer is active. |
| | create_date | DATE | Date the customer record was created. |
| | last_update | TIMESTAMP | Timestamp of the last update to the record. |
| | active | INTEGER | Additional active status. |

## Country

| Key type | Column | Data type | Description |
|---|---|---|---|
| Primary | country_id | SERIAL | Unique identifier for each country. |
| | country | CHARACTER VARYING(50) | Name of the country. |
| | last_update | TIMESTAMP | Timestamp of the last update. |

## Film

| Key type | Column | Data type | Description |
|---|---|---|---|
| Primary | film_id | SERIAL | Unique identifier for each film. |
| | title | CHARACTER VARYING(255) | Title of the film. |
| | description | TEXT | Description of the film. |
| | release_year | year | Year the film was released. |
| Foreign | language_id | SMALLINT | Foreign key to language table. |
| | rental_duration | SMALLINT | Duration of the rental period. |
| | rental_rate | NUMERIC(4,2) | Rate charged for renting the film. |
| | length | SMALLINT | Length of the film in minutes. |
| | replacement_cost | NUMERIC(5,2) | Replacement cost for the film. |
| Foreign | rating | mpaa_rating | MPAA rating of the film. |
| | last_updates | TIMESTAMP | Timestamp of the last update. |
| | special_features | TEXT | Special features of the film. |
| | fulltext | TSVECTOR | Full-text search data. |

## Inventory

| Key type | Column | Data type | Description |
|---|---|---|---|
| Primary | inventory_id | SERIAL | Unique identifier for each inventory item. |
| Foreign | film_id | SMALLINT | Foreign key to film table. |
| Foreign | store_id | SMALLINT | Foreign key to store table. |
| | last_update | TIMESTAMP | Timestamp of the last update. |

## Language

| Key type | Column | Data type | Description |
|---|---|---|---|
| Foreign | language_id | SERIAL | Unique identifier for each language. |
| | name | CHARACTER VARYING(20) | Name of the language. |
| | last_update | TIMESTAMP | Timestamp of the last update. |

## Staff

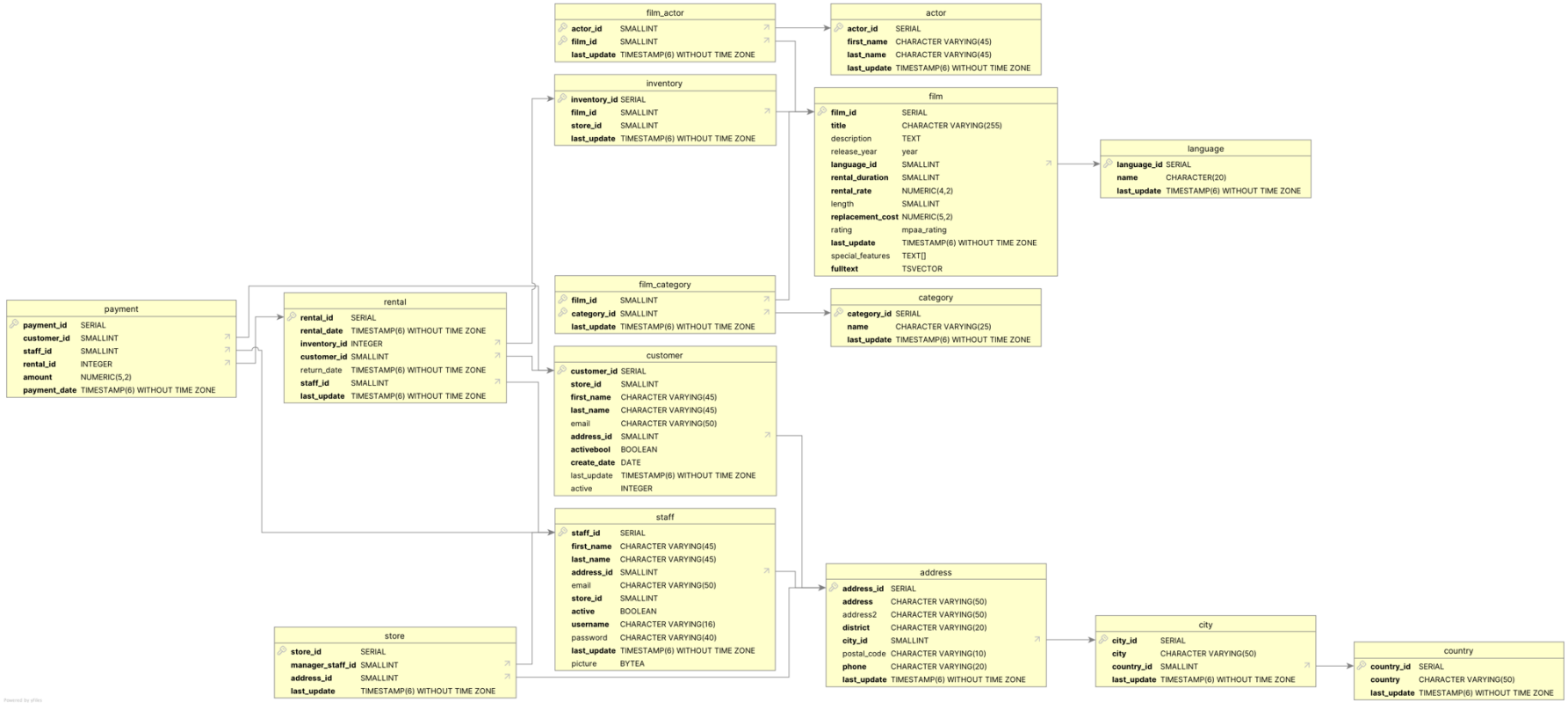
| Key type | Column | Data type | Description |
|---|---|---|---|
| Primary | staff_id | SERIAL | Unique identifier for each staff member. |
| | first_name | CHARACTER VARYING(45) | Customer's first name. |
| | last_name | CHARACTER VARYING(45) | Customer's last name. |
| Foreign | address_id | SMALLINT | Foreign key to address table. |
| | email | CHARACTER VARYING(50) | Customer's email address. |
| Foreign | store_id | SMALLINT | Foreign key to store table. |
| | active | BOOLEAN | Indicates if the staff member is active. |
| | username | CHARACTER VARYING(16) | Staff username. |
| | password | CHARACTER VARYING(40) | Staff password. |
| | last_update | TIMESTAMP | Timestamp of the last update. |
| | picture | BYTEA | Picture of the staff member. |

## Store

| Key type | Column | Data type | Description |
|---|---|---|---|
| Primary | store_id | SERIAL | Unique identifier for each store. |

| | | | |
|---|---|---|---|
| | manager_staff_id | SMALLINT | Foreign key to staff table, indicating the manager of the store. |
| Foreign | address_id | SMALLINT | Foreign key to address table. |
| | last_update | TIMESTAMP | Timestamp of the last update. |

## C. ERD


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
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
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
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