# Rockbuster Stealth

# Data Dictionary

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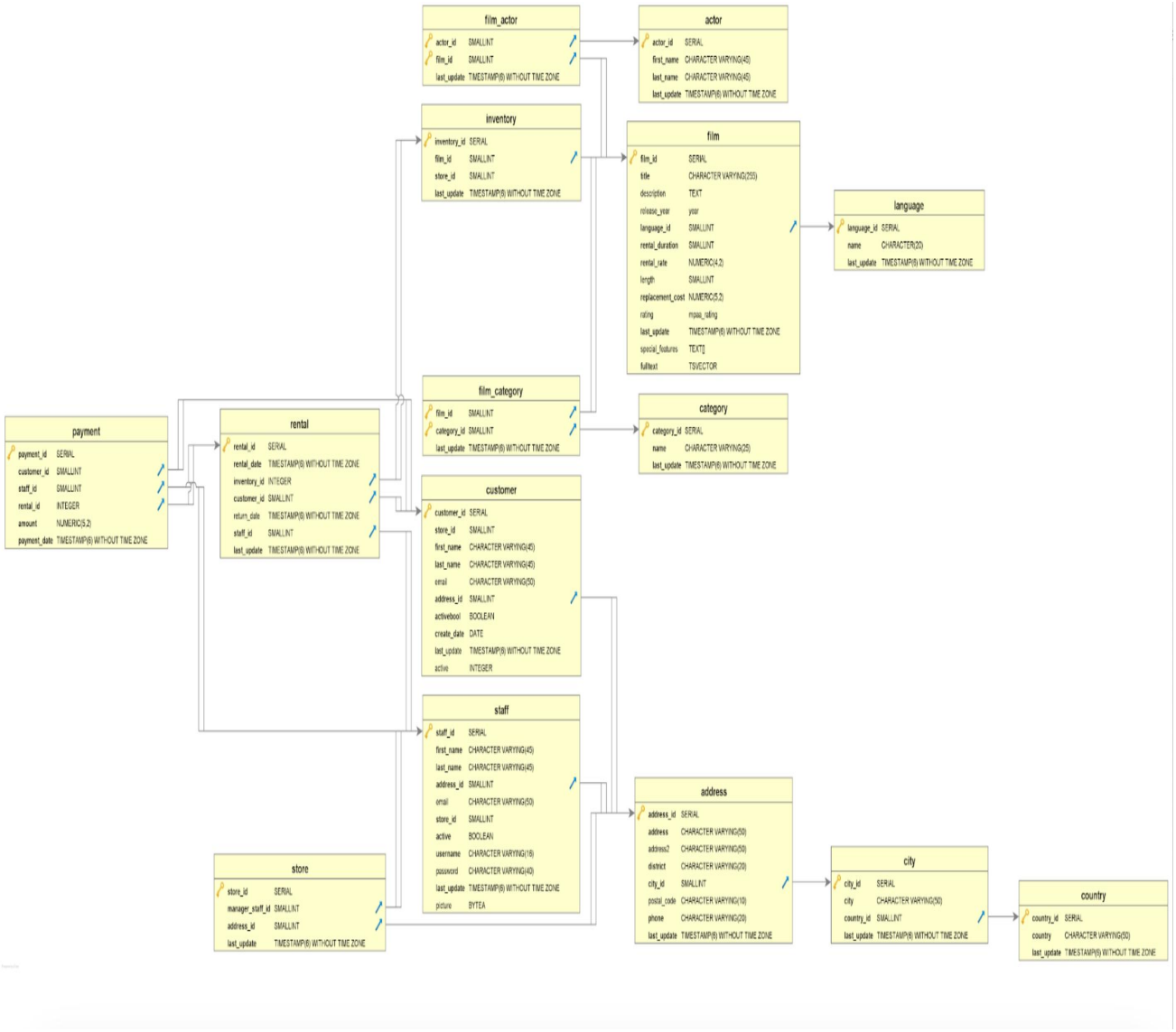
# 1. Entity Relationship Diagram ( ERD) :



# 2. Tables :

## 2.1 Fact Tables :

### Payment

| Column | Data Type | Description | Column linked to | Column linked from |
|---|---|---|---|---|
| payment_id | SERIAL | unique identifier of payment transaction | | |
| customer_id | SMALLINT | unique identifier of customer | customer. customer_id | rental. customer_id |
| staff_id | SMALLINT | unique identifier of staff who handled the transaction | staff.staff_id | rental.staff_id |
| rental_id | INTEGER | unique identifier of rental sale | rental.rental_id | |
| amount | NUMERIC(5,2) | total amount of sale | | |
| payment_date | TIMESTAMP(6) WITHOUT TIME ZONE | date and time payment was received/confirmed | | |

### Rental

| Column | Data Type | Description | Column linked to | Column linked from |
|---|---|---|---|---|
| rental_id | SERIAL | unique identifier of rental sale | | payment. rental_id |
| rental_date | TIMESTAMP(6) WITHOUT TIME ZONE | date and time unit was rented out | | |
| inventory_id | INTEGER | unique inventory identifier for rental unit | inventory. inventory_id | |
| customer_id | SMALLINT | unique identifier of customer | customer. customer_id | payment. customer_id |
| return_date | TIMESTAMP(6) WITHOUT TIME ZONE | date and time unit was returned | | |
| staff_id | SMALLINT | unique identifier for staff who handled the transaction | staff.staff_id | payment. staff_id |

# 2.2 Dimension Tables:

## Film_actor

| Column | Data Type | Description | Column linked to | Column linked from |
|---|---|---|---|---|
| actor_id | SMALLINT | unique identifier of actor | actor.actor_id | |
| film_id | SMALLINT | unique identifier of film | film.film_id | |
| last_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time of last record update | | |

## Inventory

| Column | Data Type | Description | Column linked to | Column linked from |
|---|---|---|---|---|
| inventory_id | SERIAL | unique identifier of inventory item | rental. inventory_id | |
| film_id | SMALLINT | unique identifier of film | film.film_id | |
| store_id | SMALLINT | unique store identifier | store.store_id | |
| last_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time of last record update | | |

## Film_category

| Column | Data Type | Description | Column linked to | Column linked from |
|---|---|---|---|---|
| film_id | SMALLINT | unique film identifier | film.film_id | |
| category_id | SMALLINT | unique identifier of a film category | category. category_id | |
| last_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time of last record update | | |

## Customer

| Column | Data Type | Description | Column linked to | Column linked from |
|---|---|---|---|---|
| customer_id | SERIAL | unique identifier of customer | rental. cusomer_id payment. customer_id | |
| store_id | SMALLINT | unique store identifier | | |
| first_name | CHARACTER VARYING(45) | customer first name | | |
| last_name | CHARACTER VARYING(45) | customer last name | | |
| email | CHARACTER VARYING(50) | customer email address | | |
| address_id | SMALLINT | unique identifier for customer address | | address. address_id |
| activebool | BOOLEAN | active or not (true/false) | | |
| create_date | DATE | date customer was added | | |
| last_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time of last record update | | |
| active | INTEGER | active or not (binary) | | |

## Staff

| Column | Data Type | Description | Column linked to | Column linked from |
|---|---|---|---|---|
| staff_id | SERIAL | unique identifier of staff | | |
| first_name | CHARACTER VARYING(45) | staff first name | | |
| last_name | CHARACTER VARYING(45) | staff last name | | |
| address_id | SMALLINT | unique identifier for staff address | address. address_id | |
| email | CHARACTER VARYING(50) | staff email address | | |
| store_id | SMALLINT | unique store identifier | store.store_id | |
| active | BOOLEAN | active or not (true/false) | rental.staff_id, payment. staff_id | |
| username | CHARACTER VARYING(50) | staff username | | |
| password | CHARACTER VARYING(40) | staff password | | |
| last_update | TIMESTAMP(6) WITHOUT TIME ZOND | date and time of last record update | | |
| picture | BYTEA | staff photo | | |

## Actor

| Column | Data Type | Description | Column linked to | Column linked from |
|---|---|---|---|---|
| actor_id | SERIAL | unique identifier of actor | film_actor. actor_id | |
| first_name | CHARACTER VARYING(45) | actor first name | | |
| last_name | CHARACTER VARYING(45) | actor last name | | |
| last_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time of last record update | | |

## Film

| Column | Data Type | Description | Column linked to | Column linked from |
|---|---|---|---|---|
| film_id | SERIAL | unique identifier of film | film_category. film_id, film_actor. film_id, inventory.film_id | |
| title | CHARACTER VARYING(255) | title name of film | | |
| description | TEXT | description of film | | |
| release_year | year | year film was released | | |
| language__id | SMALLINT | unique identifier of language | language. language_id | |
| rental_duration | SMALLINT | number of days film was rented | | |
| rental_rate | NUMERIC(4,2) | cost of rental per day | | |
| length | SMALLINT | film length (minutes) | | |
| replacement_cost | NUMERIC(5,2) | cost to replacement the film | | |
| rating | mpaa_rating | which age groups can view the film (G, PG, PG-13, ect) | | |
| last_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time of last record update | | |
| special_features | TEXT[] | special features of the film | | |
| fulltext | TVSECTOR | text of the film | | |

## Category

| Column | Data Type | Description | Column linked to | Column linked from |
|---|---|---|---|---|
| category_id | SERIAL | unique identifier of category | film_category. category_id | |
| name | CHARACTER VARYING(25) | category name | | |
| last_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time of last record update | | |

## Language

| Column | Data Type | Description | Column linked to | Column linked from |
|---|---|---|---|---|
| language_id | SERIAL | unique identifier of language | film.language_id | |
| name | CHARACTER(20) | language name | | |
| last_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time of last record update | | |

## Address

| Column | Data Type | Description | Column linked to | Column linked from |
|---|---|---|---|---|
| address_id | SERIAL | unique identifier for address | staff.address_id, store. address_id | |
| address | CHARACTER VARYING(50) | address details | | |
| address2 | CHARACTER VARYING(50) | additional address details | | |
| district | CHARACTER VARYING(20) | name of the district | | |
| city_id | SMALLINT | unique identifier of a city | city.city_id | |
| postal_code | CHARACTER VARYING(10) | postal code details | | |
| phone | CHARACTER VARYING(20) | phone number details | | |
| last_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time of last record update | | |

## City

| Column | Data Type | Description | Column linked to | Column linked from |
|---|---|---|---|---|
| city_id | SERIAL | unique identifier of city | address.city_id | |
| city | CHARACTER VARYING(50) | city name | | |
| country_id | SMALLINT | unique identifier of city | country. country_id | |
| last_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time of last record update | | |

## Country

| Column | Data Type | Description | Column linked to | Column linked from |
|---|---|---|---|---|
| country_id | SMALLINT | unique identifier of city | city.country_id | |
| country | CHARACTER VARYING(50) | country name | | |
| last_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time of last record update | | |