# Rockbuster Stealth

# Data Dictionary
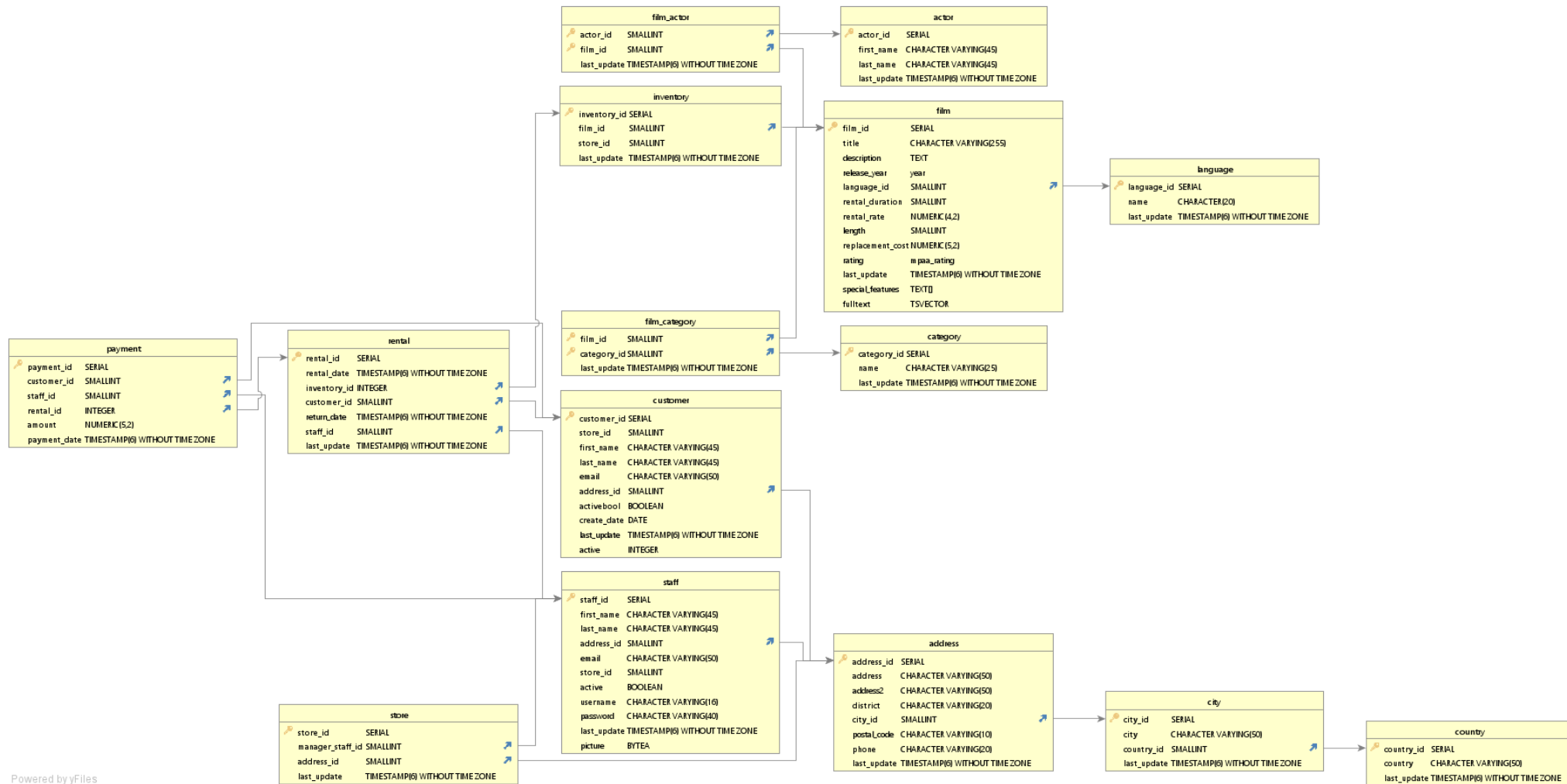
# 1    Table of Contents

# 2  Entity Relationship 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 |

**store**

| | |
|---|---|
| 🔑 store_id | SERIAL |
| manager_staff_id | SMALLINT |
| address_id | SMALLINT |
| 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 |

This is a snowflake scheme. The dimension tables have relationships to another dimension table.

# 3   Legend

| | |
|---|---|
| 🔑 | Primary Key |
| 🔑 | Foreign Key |

# 4   Fact Table

## 4.1   Payment

| payment | | | |
|---|---|---|---|
| **Columns** | **Data Type** | **Description** | **Link to** |
| payment_id 🔑 | SERIAL | PK identifier: payment transaction | |
| customer_id 🔑 | SMALLINT | FK to customer | customer |
| staff_id 🔑 | SMALLINT | FK to staff | staff |
| rental_id 🔑 | INTEGER | FK to rental | rental |
| amount | NUMERIC[5,2] | numerical measure | |
| payment_date | TIMESTAMP [6] WITHOUT TIMEZONE | date of payment | |

## 4.2   Rental

| rental | | | |
|---|---|---|---|
| **Columns** | **Data Type** | **Description** | **Link to** |
| rental_id 🔑 | SERIAL | PK identifier: rental transaction | |
| rental_date | TIMESTAMP[6] WITHOUT TIMEZONE | date of rental starts | |
| inventory_id 🔑 | INTEGER | FK to inventory | inventory |
| customer_id 🔑 | SMALLINT | FK to customer | customer |
| return_date | TIMESTAMP[6] WITHOUT TIMEZONE | date of rental ends | |
| staff_id 🔑 | SMALLINT | FK to staff | staff |
| last_update | TIMESTAMP[6] WITHOUT TIMEZONE | date when table last updated | |

# 5 Dimension Table

## 5.1 Customer

| customer | | | |
|---|---|---|---|
| **Columns** | **Data Type** | **Description** | **Link To** |
| customer_id 🔑 | SERIAL | PK identifier: customer reference | |
| store_id | SMALLINT | FK to store | |
| first_name | CHARACTER VARYING[45] | first name of customer | |
| last_name | CHARACTER VARYING[45] | last name of customer | |
| email | CHARACTER VARYING[45] | email of customer | |
| address_id 🔑 | SMALLINT | FK to address | address |
| activebool | BOOLEAN | indication if customer still active | |
| create_date | DATE | date customer registered | |
| last_update | TIMESTAMP[6] WITHOUT TIMEZONE | date when table last updated | |

## 5.2 Staff

| staff | | | |
|---|---|---|---|
| **Columns** | **Data Type** | **Description** | **Link To** |
| staff_id 🔑 | SERIAL | PK identifier: staff reference | |
| first_name | CHARACTER VARYING[45] | first name of staff | |
| last_name 🔑 | CHARACTER VARYING[45] | last name of staff | address |
| address_id | SMALLINT | FK to address | |
| email | CHARACTER VARYING[45] | email of staff | |
| store_id | SMALLINT | FK to store | |
| active | BOOLEAN | indication if staff still active | |
| username | CHARACTER VARYING[45] | username of staff | |
| password | CHARACTER VARYING[45] | password of staff | |
| last_update | TIMESTAMP[6] WITHOUT TIMEZONE | date when table last updated | |
| picture | BYTEA | picture of staff | |

## 5.3 Inventory

| inventory | | | |
|---|---|---|---|
| **Columns** | **Data Type** | **Description** | **Link To** |
| inventory_id 🔑 | SERIAL | PK identifier: inventory reference | |
| film_id 🔑 | SMALLINT | Fk to film | film |
| last_update | TIMESTAMP[6] WITHOUT TIMEZONE | date when table last updated | |

## 5.4   Film

| film | | | |
|---|---|---|---|
| **Columns** | **Data Type** | **Description** | **Link To** |
| film_id 🔑 | SERIAL | PK identifier: film reference | |
| title | CHARACTER VARYING[45] | title of film | |
| description | TEXT | description of film | |
| release_year | year | release year of of film | |
| language_id 🔑 | SMALLINT | FK to language | language |
| rental_duration | SMALLINT | allowable rental duration | |
| rental_rate | NUMERIC[5,2] | rental price | |
| length | SMALLINT | length/duration of film | |
| replacement_cost | NUMERIC[5,2] | cost to replace film | |
| rating | m paa_rating | rating of film | |
| last_update | TIMESTAMP[6] WITHOUT TIMEZONE | date when table last updated | |
| special_features | TEXT[] | additional features in film | |
| fulltext | TSVECTOR | keywords | |

## 5.5   Language

| language | | | |
|---|---|---|---|
| **Columns** | **Data Type** | **Description** | **Link To** |
| language_id 🔑 | SERIAL | PK identifier: language reference | |
| name | CHARACTER VARYING[20] | name of language | |
| last_update | TIMESTAMP[6] WITHOUT TIMEZONE | date when table last updated | |

## 5.6   Film Actor

| film_actor | | | |
|---|---|---|---|
| **Columns** | **Data Type** | **Description** | **Link To** |
| actor_id 🔑🔑 | SMALLINT | PK: FK to actor | actor |
| film_id 🔑🔑 | SMALLINT | PK: FK to film | film |
| last_update | TIMESTAMP[6] WITHOUT TIMEZONE | date when table last updated | |

## 5.7   Actor

| actor | | | |
|---|---|---|---|
| **Columns** | **Data Type** | **Description** | **Link To** |
| actor_id 🔑 | SERIAL | PK identifier: actor reference | |
| first_name | CHARACTER VARYING[45] | first name of actor | |
| last_name | CHARACTER VARYING[45] | last name of actor | |
| last_update | TIMESTAMP[6] WITHOUT TIMEZONE | date when table last updated | |

## 5.8   Film Category

| film_category | | | |
|---|---|---|---|
| **Columns** | **Data Type** | **Description** | **Link To** |
| film_id 🔑 🔑 | SMALLINT | PK: FK to film | film |
| category_id 🔑 🔑 | SMALLINT | PK: FK to category | category |
| last_update | TIMESTAMP[6] WITHOUT TIMEZONE | date when table last updated | |

## 5.9   Category

| category | | | |
|---|---|---|---|
| **Columns** | **Data Type** | **Description** | **Link To** |
| category_id 🔑 | SERIAL | PK identifier: category reference | film_category |
| name | CHARACTER VARYING[25] | name of film category | |
| last_update | TIMESTAMP[6] WITHOUT TIMEZONE | date when table last updated | |

## 5.10  Address

| address | | | |
|---|---|---|---|
| **Columns** | **Data Type** | **Description** | **Link To** |
| address_id 🔑 | SERIAL | PK identifier: address reference | |
| address | CHARACTER VARYING[50] | street address | |
| address2 | CHARACTER VARYING[50] | street address | |
| district | CHARACTER VARYING[50] | district | |
| city_id 🔑 | SMALLINT | FK to city | city |
| postal_code | CHARACTER VARYING[10] | zipcode | |
| phone | CHARACTER VARYING[50] | phone number | |
| last_update | TIMESTAMP[6] WITHOUT TIMEZONE | date when table last updated | |

## 5.11  City

| city | | | |
|---|---|---|---|
| **Columns** | **Data Type** | **Description** | **Link To** |
| city_id 🔑 | SERIAL | PK identifier: city reference | |
| city | CHARACTER VARYING[50] | name of city | |
| country_id 🔑 | SMALLINT | FK to country | country |
| last_update | TIMESTAMP[6] WITHOUT TIMEZONE | date when table last updated | |

## 5.12 Country

| country | | | |
|---|---|---|---|
| **Columns** | **Data Type** | **Description** | **Link To** |
| country_id 🔑 | SERIAL | PK identifier: country reference | |
| country | CHARACTER VARYING[50] | name of country | |
| last_update | TIMESTAMP[6] WITHOUT TIMEZONE | date when table last updated | |

## 5.13 Store

| store | | | |
|---|---|---|---|
| **Columns** | **Data Type** | **Description** | **Link To** |
| store_id 🔑 | SERIAL | PK identifier: store reference | |
| manager_staff_id 🔑 | SMALLINT | FK to staff_id. Identification of manager | staff |
| address_id 🔑 | SMALLINT | FK to address. Store address | address |
| last_update | TIMESTAMP[6] WITHOUT TIMEZONE | date when table last updated | |

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