# ROCKBUSTER STEALTH LLC

## DATA DICTIONARY

**SHEREZADE MAQUEDA**

TABLE OF CONTENTS

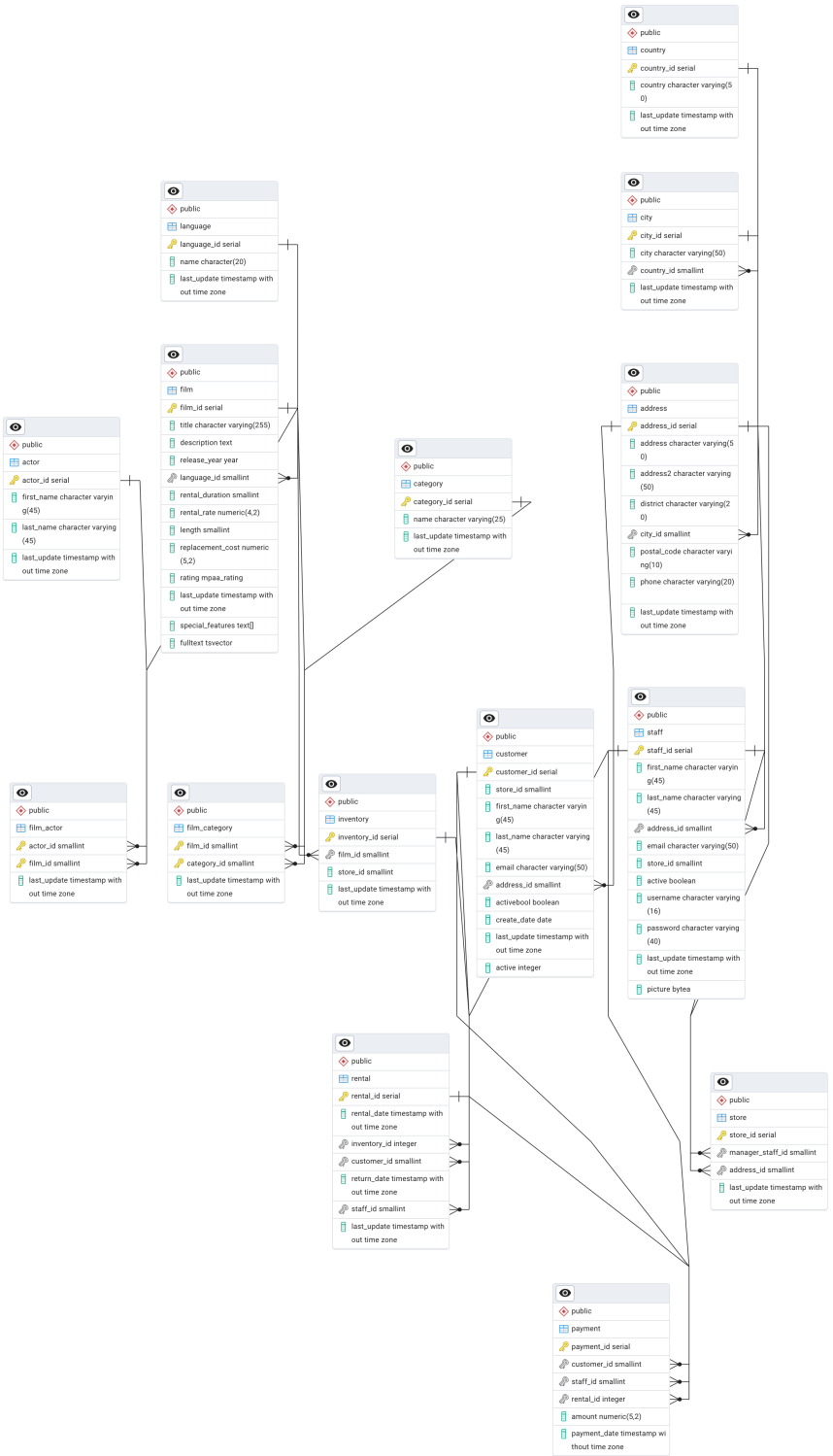
## 1. Rockbuster Stealth LL

Rockbuster Stealth LLC is a global movie rental company that previously operated physical stores around the world. In response to evolving market trends and the growing demand for digital services, Rockbuster Stealth's management team plans to leverage its extensive collection of film licenses to launch an online video rental platform. This strategic move is aimed at maintaining competitiveness in the digital entertainment industry.

The Rockbuster dataset provides comprehensive insight into the company's operations, including details of its film inventory, customer base, payment transactions and other key business aspects.

Download Rockbuster dataset

## 2. Entity Relationship Diagram (ERD)



# 3. Tables

## 3.1. Fact Table

Fact tables are central components in a star schema or snowflake schema of a data warehouse. They store quantitative data (or "facts") that measure the performance of a business process. Fact tables are typically surrounded by dimension tables that provide descriptive context for the facts.

### 3.1.1. Payment Table

Information on payments made for rentals

| Name | Data type | Observations |
|---|---|---|
| payment_id PK | SERIAL | Payment identification number |
| customer_id FK | SMALLINT | Customer identification number |
| staff_id FK | SMALLINT | Staff identification number |
| rental_id FK | SMALLINT | Rental identification number |
| amount | NUMERIC(5,2) | Number of units |
| payment_update | TIMESTAMP without time zone | Time of payment |

Links to

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

Links from

| |
|---|
| Does not link from any table |

### 3.1.2.Rental Table

Information on rentals.

| Name | Data type | Observations |
|---|---|---|
| rental_id PK | SERIAL | Rental identification number |
| rental_date | TIMESTAMP without time zone | Date of rent |
| inventory_id FK | SMALLINT | Inventory identification number |
| customer_id FK | SMALLINT | Customer identification number |

| Name | Data type | Observations |
|---|---|---|
| return_date | TIMESTAMP without time zone | Date of return |
| staff_id FK | SMALLINT | Staff identification number |
| last_update | TIMESTAMP without time zone | Time of last update |

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 |

### 3.1.3.Store Table

Information about stores globally.

| Name | Data type | Observations |
|---|---|---|
| store_id PK | SERIAL | Store identification number |
| manager_id FK | SMALLINT | Manager identification number |
| address_id FK | SMALLINT | Address identification number |
| last_update | TIMESTAMP without time zone | Time of last update |

Links to

| Table | Join |
|---|---|
| Manager | store.manager_id = manager.manager_id |
| Address | store.address_id = address.address_id |

Links from

| Does not link from any table |
|---|

### 3.1.4.Inventory Table

Information on film and store inventory

| Name | Data type | Observations |
|---|---|---|
| inventory_id PK | SERIAL | Inventory identification number |
| film_id FK | SMALLINT | Film identification number |
| store_id | SMALLINT | Store identification number |
| last_update | TIMESTAMP without time zone | Time of last update |

Links to

| Table | Join |
|---|---|
| Film | inventory.film_id = film.film_id |

Links from

| Table | Join |
|---|---|
| Rental | rental.inventory_id = inventory.inventory_id |

### 3.1.5.Film_actor Table

Defining identification numbers and links for films and actors

| Name | Data type | Observations |
|---|---|---|
| actor_id PK | SMALLINT | Actor identification number |
| film_id PK | SMALLINT | Film identification number |
| last_update | TIMESTAMP without time zone | Time of last update |

Links to

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

Links from

| |
|---|
| Does not link from any table |

### 3.1.6.Film_category

Defining identification numbers and links for film categories.

| Name | Data type | Observations |
|---|---|---|
| film_id PK | SMALLINT | Film identification number |
| category_id PK | SMALLINT | Category identification number |
| last_update | TIMESTAMP without time zone | Time of last update |

Links to

| Table | Join |
|---|---|
| Film | film_category.film_id = film.film_id |
| Category | film_category.category_id = category.category_id |

Links from

| |
|---|
| Does not link from any table |

PK = Primary Key  FK = Foreign Key

## 3.2. Dimension Tables

Dimension tables are tables in a data warehouse that store descriptive, textual or categorical information about the business entities involved in a process. They provide context for the numerical data in fact tables, allowing users to analyse and slice data across different attributes such as time, location, product or customer.

### 3.2.1.Film Table

Information on films from the catalog.

| Name | Data type | Observations |
|---|---|---|
| film_id PK | SERIAL | Film identification number |
| title | VARCHAR(255) | Film title |
| description | TEXT | Film description |
| release_year | YEAR | Year of release |
| language_id FK | SMALLINT | Language of the film |
| rental_rate | NUMERIC(4,2) | Film renting rate |
| lengthe | SMALLINT | Length of the film |
| replacement_cost | NUMERIC(5,2) | How much it costs to replace the film |
| rating | MPAA_RATING | Film rating from the MPAA |
| last_update | TIMESTAMP without time zone | Time of last update |
| special_features | TEXT | Film extras |
| Fulltext | TSVECTOR | Film key words |

Links to

| Table | Join |
|---|---|
| Language | film.language_id = language.language_id |

Links from

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

### 3.2.2.Language Table

Information on film languages.

| Name | Data type | Observations |
|---|---|---|
| language_id PK | SERIAL | Language identification number |
| name | VARCHAR | Language |
| last_update | TIMESTAMP without time zone | Time of last update |

Links to

| |
|---|
| Does not link to any table |

Links from

| Table | Join |
|---|---|
| Film | film_category.film_id = film.film_id |
| Category | film_category.category_id = category.category_id |

### 3.2.3.Actor Table

Information on actor from films.

| Name | Data type | Observations |
|---|---|---|
| actor_id PK | SERIAL | Actor identification number |
| first_name | VARCHAR(45) | Actor first name |
| last_name | VARCHAR(45) | Actor last name |
| last_update | TIMESTAMP without time zone | Time of last update |

Links to

| |
|---|
| Does not link to any table |

Links from

| Table | Join |
|---|---|
| Film_actor | film_actor.actor_id = actor.actor_id |

### 3.2.4.Category Table

Information about film categories.

| Name | Data type | Observations |
|---|---|---|
| category_id PK | SERIAL | Category identification number |
| name | VARCHAR(25) | Category name |
| last_update | TIMESTAMP without time zone | Time of last update |

Links to

| |
|---|
| Does not link to any table |

Links from

| Table | Join |
|---|---|
| Film_category | film_category.category_id = category.category_id |

### 3.2.5.Customer Table

Information about customers around the globe.

| Name | Data type | Observations |
|---|---|---|
| customer_id PK | SERIAL | Customer identification number |
| store_id | SMALLINT | Store identification number |
| first_name | VARCHAR(45) | Customer first name |
| last_name | VARCHAR(45) | Customer last name |
| email | VARCHAR(50) | Email from customer |
| address_id FK | SMALLINT | Address identification number |
| activebool | BOOLEAN | Active or Not active |
| create_date | DATE | Date of customer account creation |
| last_update | TIMESTAMP without time zone | Time of last update |
| active | INTEGER | |

Links to

| Table | Join |
|---|---|
| Address | customer.address_id = address.address_id |

Links from

| Table | Join |
|---|---|
| Payment | payment.customer_id = customer.customer_id |
| Rental | rental.customer_id = customer.customer_id |

### 3.2.6.Staff Table

Information on staff members.

| Name | Data type | Observations |
|---|---|---|
| staff_id PK | SERIAL | Staff identification number |
| first_name | VARCHAR(45) | Staff first name |
| last_name | VARCHAR(45) | Staff last name |
| address_id FK | SMALLINT | Address identification number |
| email | VARCHAR(50) | Email |
| store_id | SMALLINT | Store identification number |
| active | BOOLEAN | Active or Not active |
| username | VARCHAR(16) | Staff user name |
| password | VARCHAR(40) | Staff password |
| last_update | TIMESTAMP without time zone | Time of last update |
| picture | BYTE | Staff picture |

Links to

| Table | Join |
|---|---|
| Address | staff.address_id = address.address_id |

Links from

| Table | Join |
|---|---|
| Payment | payment.staff_id = staff.staff_id |
| Rental | rental.staff_id = staff.staff_id |
| Store | store.manager_staff_id = staff.staff_id |

### 3.2.7.Address Table

Information on addresses of customers, staff and stores

| Name | Data type | Observations |
|---|---|---|
| address_id PK | SERIAL | Address identification number |
| address | VARCHAR(50) | Primary address |
| address2 | VARCHAR(50) | Secondary address |
| District | VARCHAR(20) | District |
| city_id FK | SMALLINT | City |
| postal_code | VARCHAR(10) | Postal code |
| phone | VARCHAR(20) | Phone of the rental |
| last_update | TIMESTAMP without time zone | Time of last update |

Links to

| Table | Join |
|---|---|
| City | Address.city_id = city.city_id |

Links from

| Table | Join |
|---|---|
| Customer | customer.address_id = address.address_id |

### 3.2.8.Country Table

Countries in the addresses for Address table.

| Name | Data type | Observations |
|---|---|---|
| country_id PK | SERIAL | Country identification number |
| Country | VARCHAR(50) | Country name |
| last_update | TIMESTAMP without time zone | Time of last update |

Links to

| Does not link to any table |
|---|

Links from

| Table | Join |
|---|---|
| City | city.country_id = country.country_id |

3.2.9.City Table

| Name | Data type | Observations |
|---|---|---|
| city_id PK | SERIAL | City identification number |
| City | VARCHAR(50) | City name |
| country_id FK | SMALLINT | Country of the city |
| last_update | TIMESTAMP without time zone | Time of last update |

Links to

| Table | Join |
|---|---|
| Country | city.country_id = country.country_id |

Links from

| Table | Join |
|---|---|
| Address | address.city_id = city.city_id |

PK = Primary Key  FK = Foreign Key