# Rockbuster Stealth
# Data Dictionary

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# INTRODUCTION

## ROCKBUSTER STEALTH

Rockbuster Stealth LLC is a movie rental company with multiple stores worldwide. The management team is planning to use the existing movie licenses to launch an online video rental service to stay competitive. At the same time, it is facing competition from streaming services.

## DATA

The database supports the launch strategy for the new online video service. The business intelligence (BI) department helps other departments, from inventory to customer insights, with data-related queries.

This dictionary facilitates the interpretation of the relational database management system (RDBMS).

You can download the Rockbuster database here:

http://www.postgresqltutorial.com/wp-content/uploads/2019/05/dvdrental.zip

## ENTITY RELATIONSHIP DIAGRAM (ERD)
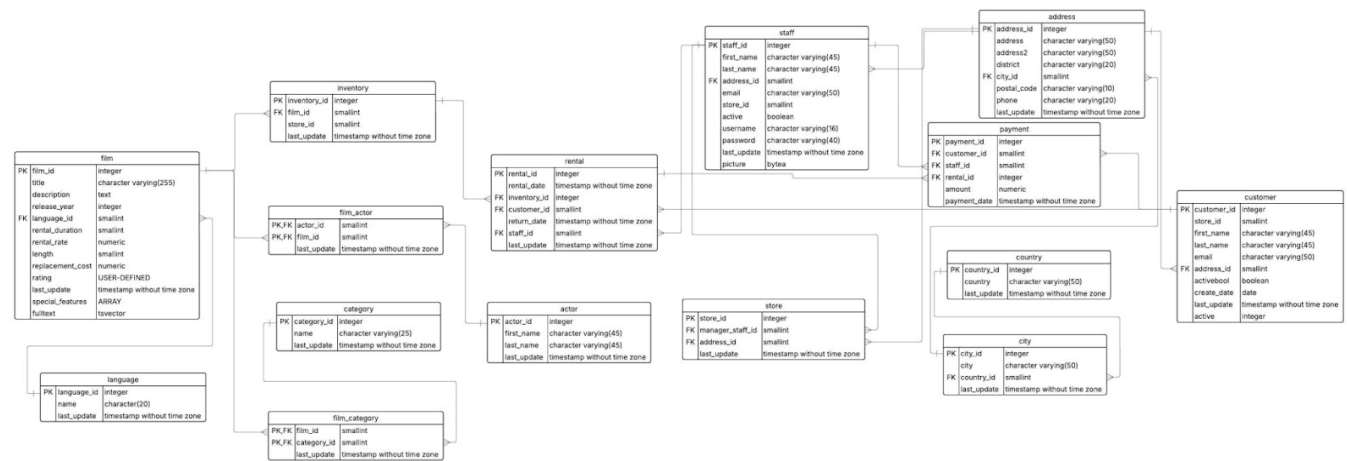


## LEGENDS

| SYMBOL | NAME | DESCRIPTION |
|--------|------|-------------|
|  | *Primary Key (PK)* | *A primary key is a column or set of columns that acts as a unique identifier for each record in a table.* |
|  | *Foreign Key (FK)* | *A foreign key is a column, or set of columns, that refers to the primary key in another table.* |

# TABLES IN ALPHABETICAL ORDER

# FACT TABLES

## 1   PAYMENT TABLE

| | Columns | Data Type | Description |
|---|---|---|---|
| 🔑 | payment_Id | Integer | Unique identifier for the payment |
| 🗝 | customer_Id | Smallint | Unique identifier for the customer |
| 🗝 | staff_Id | Smallint | Unique identifier for the staff member |
| 🗝 | rental_Id | Integer | Unique identifier for the rental |
| | amount | numeric | Payment amount |
| | payment_date | timestamp without time zone | Payment Date |

### PAYMENT TABLE JOIN FIELD

| COLUMN NAME | LINKED FROM | LINKED TO |
|---|---|---|
| **Payment_id** | **Payment.payment_id** | |
| Customer_id | Payment.customer_id | = rental.customer_id |
| Customer_id | Payment.customer_id | = customer.customer_id |
| Staff_id | Payment.staff_id | = staff.staff_id |
| Rental_id | Payment.rental_id | = rental.rental_id |

## 2   RENTAL TABLE

| | Columns | Data Type | Description |
|---|---|---|---|
| 🔑 | rental_Id | Integer | Unique identifier for the rental |
| | rental_date | timestamp without time zone | Date of rental |
| 🗝 | Inventory_Id | Integer | Unique identifier for the inventory item |
| 🗝 | customer_Id | Smallint | Unique identifier for the customer |
| | return_date | timestamp without time zone | Date the rental was returned |
| | staff_Id | Smallint | Unique identifier for the staff member |
| | last_update | timestamp without time zone | Timestamp of the last update to the record |

**RENTAL TABLE JOIN FIELD**

| COLUMN NAME | LINKED FROM | LINKED TO |
|---|---|---|
| **Rental_id** | **Rental.rental_id** | |
| Inventory_id | Rental.inventory_id | = inventory.inventory_id |
| Customer_id | Rental.customer_id | = payment.customer_id |
| Customer_id | Rental.customer_id | = customer.customer_id |

# DIMENSION TABLES

## 1. STAFF TABLE

| Columns | Data Type | Description |
|---|---|---|
| staff_Id | Integer | Unique identifier for the staff member |
| first_name | character varying(45) | First name of the person |
| last_name | character varying(45) | Last name of the person |
| address_Id | Smallint | ID of the related address |
| email | character varying(50) | Email address |
| store_Id | Smallint | ID of the store |
| active | Boolean | Indicates if the staff member is active |
| username | character varying(18) | Login user of the staff member |
| password | character varying(40) | Login password of the staff member |
| last_update | timestamp without time zone | Timestamp of the last update to the record |
| picture | Bytea | Image of the staff member's face |

**STAFF TABLE JOIN FIELD**

| COLUMN NAME | LINKED FROM | LINKED TO |
|---|---|---|
| **Staff_id** | **Staff.staff_id** | |
| Address_id | Staff.address_id | = store.address_id |
| Address_id | Staff.address_id | = customer.address_id |
| Store_id | Staff.store_id | = store.store_id |
| Store_id | Staff.store_id | = inventory.store_id |
| Store_id | Staff.store_id | = customer.store_id |

## 2.  INVENTORY TABLE

| Columns | Data Type | Description |
|---|---|---|
| inventory_Id | Integer | Unique identifier for the inventory item |
| film_Id | Smallint | Unique identifier for the film |
| store_Id | Smallint | ID of the store |
| last_update | timestamp without time zone | Timestamp of the last update to the record |

### INVENTORY TABLE JOIN FIELD

| COLUMN NAME | LINKED FROM | LINKED TO |
|---|---|---|
| **Inventory_id** | **Inventory.inventory_id** | |
| Film_id | Inventory.film_id | = film.film_id |
| Film_id | Inventory.film_id | = film_category.film_id |
| Film_id | Inventory_film_id | = film_actor.film_id |
| Store_id | Inventory_store_id | = customer.store_id |
| Store_id | Inventory_store_id | = store.store_id |

## 3.  CUSTOMER TABLE

| Columns | Data Type | Description |
|---|---|---|
| customer_Id | Integer | Unique identifier for the customer |
| store_Id | Smallint | Unique identifier for the store |
| first_name | character verying(45) | First name of the person |
| last_name | character verying(45) | Last name of the person |
| email | character verying(50) | Email address |
| address_Id | Smallint | ID of the related address |
| activebool | Boolean | Indicates if the customer is active |
| create_date | Date | Date the customer account was created |
| last_update | timestamp without time zone | timestamp of the last update to the record |
| active | Integer | Indicates if the customer is active |

**CUSTOMER TABLE JOIN FIELD**

| COLUMN NAME | LINKED FROM | LINKED TO |
|---|---|---|
| **Customer_id** | **Customer.customer_id** | |
| Store_id | customer.store_id | = staff.store_id |
| Store_id | Customer.store_id | = inventory.store_id |
| Store_id | Customer.store_id | = store.store_id |
| Address_id | Customer.address_id | = store.address_id |
| Address_id | Customer.address_id | = address.address_id |

## 4. FILM_ACTOR TABLE

| | Columns | Data Type | Description |
|---|---|---|---|
| 🔑 | actor_Id | Integer | Unique identifier for the actor |
| 🔑 | film_Id | Integer | Unique identifier for the film |
| | last_update | timestamp without time zone | Timestamp of the last update to the record |

**FILM_ACTOR TABLE JOIN FIELD**

| COLUMN NAME | LINKED FROM | LINKED TO |
|---|---|---|
| **Actor_id** | **Film_actor.actor_id** | |
| Film_id | Film_actor.film_id | = inventory.film_id |
| Film_id | Film_actor.film_id | = film.film_id |
| Film_id | Film_actor.film_id | = film_category.film_id |

## 5. FILM_CATEGORY TABLE

| | Columns | Data Type | Description |
|---|---|---|---|
| 🔑 | film_Id | Integer | Unique identifier for the film |
| 🔑 | category_Id | Smallint | Unique identifier for the category |
| | last_update | timestamp without time zone | Timestamp of the last update to the record |

**FILM_CATEGORY TABLE JOIN FIELD**

| COLUMN NAME | LINKED FROM | LINKED TO |
|---|---|---|
| **Film_id** | **Film_category.film_id** | |
| Film_id | Film_category.film_id | = film.film_id |
| Film_id | Film_category.film_id | = inventory.film_id |
| Film_id | Film_category.film_id | = film_actor.film_id |
| Category_id | Film_category.category_id | = category.category_id |

### 6. STORE TABLE

| Columns | Data Type | Description |
|---|---|---|
| store_Id | integer | Unique identifier for the store |
| manager_staff_Id | smallint | Unique identifier for the manager |
| address_Id | smallint | ID of the related address |
| last_update | timestamp without time zone | timestamp of the last update to the record |

#### STORE TABLE JOIN FIELD

| COLUMN NAME | LINKED FROM | LINKED TO |
|---|---|---|
| **Store_id** | **Store.store_id** | |
| Store_id | Store.store_id | = staff.store_id |
| Store_id | Store.store_id | = inventory.store_id |
| Store_id | Store.store_id | = customer.store_id |
| Address_id | Store.address_id | = staff.address_id |
| Address_id | Store.address_id | = customer.address_id |
| Address_id | Store.address_id | = address.address_id |

# SUBDIMENSION TABLES

### 1. ACTOR TABLE

| Columns | Data Type | Description |
|---|---|---|
| actor_Id | Integer | Unique identifier for the actor |
| first_name | character varying(45) | First name of the person |
| last_name | character varying(45) | Last name of the person |
| last_update | timestamp without time zone | Timestamp of the last update to the record |

#### ACTOR TABLE JOIN FIELD

| COLUMN NAME | LINKED FROM | LINKED TO |
|---|---|---|
| **Actor_id** | **Actor.actor_id** | |

## 2. LANGUAGE TABLE

| Columns | Data Type | Description |
|---|---|---|
| language_Id | Integer | Unique identifier for the Language |
| name | character(20) | Language name |
| last_update | timestamp without time zone | Timestamp of the last update to the record |

### LANGUAGE TABLE JOIN FIELD

| COLUMN NAME | LINKED FROM | LINKED TO |
|---|---|---|
| **Language_id** | **Language.language_id** | |
| Language_id | Language.language_id | = Film.language_id |

## 3. FILM TABLE

| Columns | Data Type | Description |
|---|---|---|
| Film_Id | integer | Unique identifier for the film |
| Title | character varying(255) | Title of the film |
| Description | Text | Description of the film |
| released_year | integer | Year the film was released |
| language_Id | smallint | Unique identifier for the language |
| rental_duration | smallint | Rental period in days |
| rental_rate | numeric | Cost to rent the film |
| length | smallint | Length of the film in minutes |
| replacement_cost | numeric | Cost to replace the film |
| rating | USER-DEFINED | Film rating |
| last_update | timestamp without time zone | Timestamp of the last update to the record |
| special_features | ARRAY (text) | List of special features included |
| filltext | tsvector | Full text search vector (PostgreSQL) |

**FILM TABLE JOIN FIELD**

| COLUMN NAME | LINKED FROM | LINKED TO |
|---|---|---|
| **Film_id** | **Film.film_id** | |
| Film_id | Film.film_id | = film_category.film_id |
| Film_id | Film.film_id | = inventory.film_id |
| Film_id | Film.film_id | = film_actor.film_id |
| Language_id | Film.language_id | = language.language_id |

## 4. CATEGORY TABLE

| | Columns | Data Type | Description |
|---|---|---|---|
| 🔑 | category_Id | Integer | Unique identifier for the category |
| | name | character varying(25) | Name of the category |
| | last_update | timestamp without time zone | Timestamp of the last update to the record |

**CATEGORY TABLE JOIN FIELD**

| COLUMN NAME | LINKED FROM | LINKED TO |
|---|---|---|
| **Category_id** | **Category.category_id** | |
| Category_id | Film_category.category_id | = category.category_id |

## 5. ADDRESS TABLE

| | Columns | Data Type | Description |
|---|---|---|---|
| 🔑 | address_Id | Integer | ID of the related address |
| | address | character varying(50) | Street Address |
| | address2 | character varying(50) | Additional Address information |
| | district | character varying(20) | District of address |
| 🔑 | city_Id | Smallint | Unique identifier for the city |
| | postal_code | character varying(10) | Postal or ZIP code |
| | phone | character varying(20) | Phone number |
| | last_update | timestamp without time zone | Timestamp of the last update to the record |

**ADDRESS TABLE JOIN FIELD**

| COLUMN NAME | LINKED FROM | LINKED TO |
|---|---|---|
| **Address_id** | **Address.address_id** | |
| Address_id | address.address_id | = staff.address_id |
| Address_id | address.address_id | = customer.address_id |
| Address_id | address.address_id | = store.address_id |
| City_id | Address.city_id | = city.city_id |

## 6. CITY TABLE

| | Columns | Data Type | Description |
|---|---|---|---|
| 🔑 | city_Id | Integer | Unique identifier for the city |
| | city | character varying(50) | Name of the city |
| 🔑 | country_Id | Smallint | Unique identifier for country |
| | last_update | timestamp without time zone | Timestamp of the last update to the record |

**CITY TABLE JOIN FIELD**

| COLUMN NAME | LINKED FROM | LINKED TO |
|---|---|---|
| **City_id** | **City.city_id** | |
| City_id | City.city_id | = address.city_id |
| Country_id | City.country_id | = country.country_id |

## 7. COUNTRY TABLE

| | Columns | Data Type | Description |
|---|---|---|---|
| 🔑 | country_Id | Integer | Unique identifier for country |
| | country | character varying(50) | Name of the country |
| | last_update | timestamp without time zone | Timestamp of the last update to the record |

**COUNTRY TABLE JOIN FIELD**

| COLUMN NAME | LINKED FROM | LINKED TO |
|---|---|---|
| **Country_id** | **Country.country_id** | |
| City_id | Country.city_id | = city.city_id |