2023

# Rockbuster Stealth

DATA DICTIONARY

JUSTIN THOMPSON

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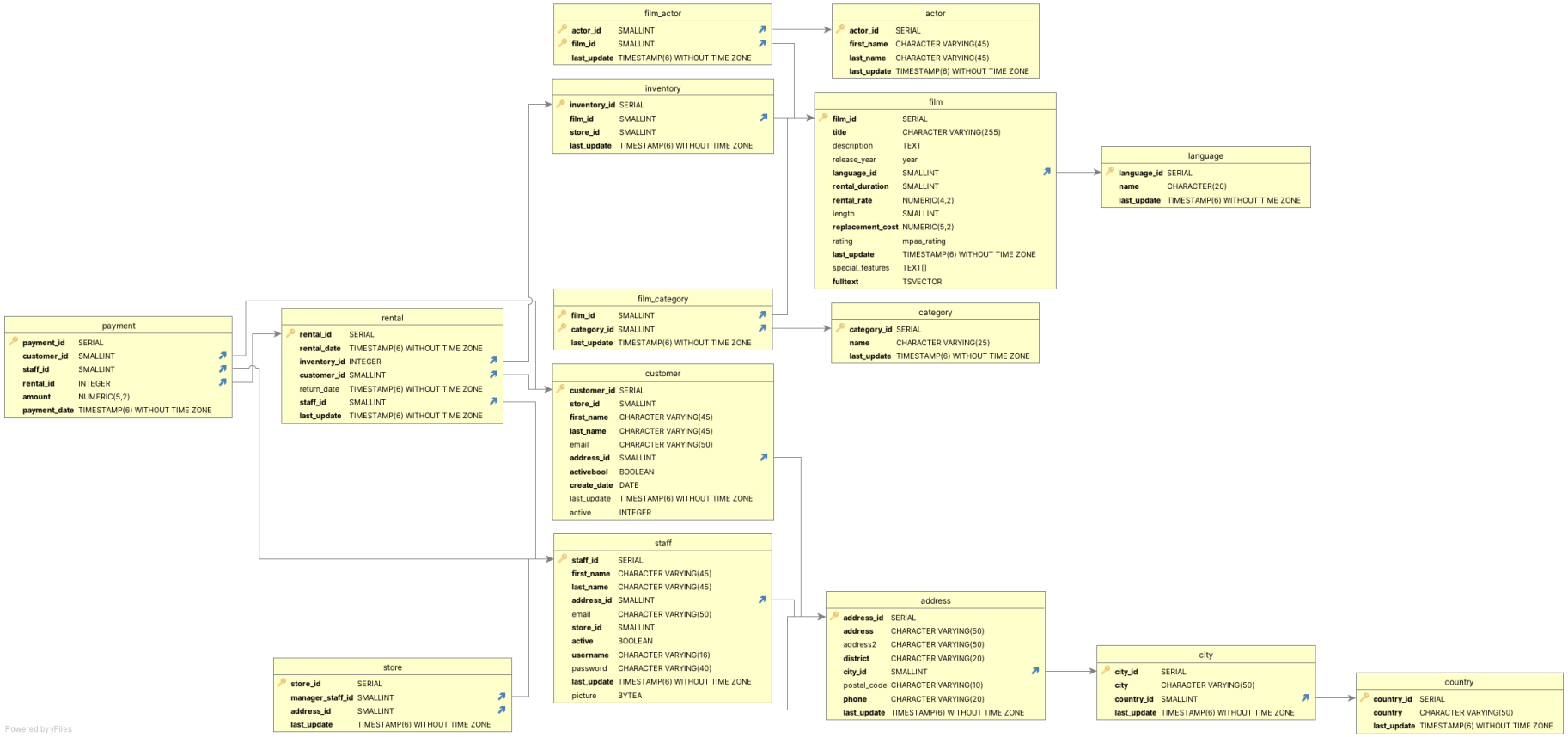
1. Rockbuster Stealth LLC – Rockbuster Stealth is a movie rental company that once had stores around the world. Rockbuster is now planning to use its existing movie licenses to launch an online video rental service. The database has information on customers, stores, staff, films, payments and addresses. This information can be analyzed to help Rockbuster Stealth look for insights to help the company plan for launching its own video streaming service.

# Entity Relationship Diagram



# Fact Tables

## Payment:

### Columns

| Column | Data Type | Description |
|---|---|---|
| Payment_id | Integer | Identifier for payment |
| Customer_id | Smallint | Identifier for customer |
| Staff_id | Smallint | Identifier for staff |
| Rental_id | Integer | Identifier for rental |
| Amount | Numeric | Amount of rental |
| Payment_date | Timestamp without time zone | Date of payment |

### Links To

| Table | Join | Description |
|---|---|---|
| Customer | Payment - customer_id = Customer - customer_id | Foreign Key link to customer table |
| Staff | Payment - staff_id = Staff - staff_id | Foreign key link to staff table |
| Rental | Payment - rental_id = Rental - rental_id | Foreign key link to rental table |

### Links From

**The payment table doesn't link from any other table.**

### Unique Keys

| Column | Key type |
|---|---|
| Payment_id | Primary key |
| Customer_id | Foreign key |
| Staff_id | Foreign key |
| Rental_id | Foreign key |

## Rental:

### Columns

| Column | Data Type | Description |
|---|---|---|
| Rental_id | Integer | Identifier for rental |
| Rental_date | Timestamp without time zone | Date of rental |
| Inventory_id | Integer | Identifier for inventory |
| Customer_id | Smallint | Identifier for customer |
| Return_date | Timestamp without time zone | Date rental was returned |
| Staff_id | Smallint | Identifier for staff |
| Last_update | Timestamp without time zone | Last update for table |

### Links to

| Table | Join | Description |
|---|---|---|
| Inventory | Rental – inventory_id = inventory – inventory_id | Foreign key link to inventory table |
| Customer | Rental – customer_id = Customer – customer_id | Foreign key link to customer table |
| Staff | Rental – staff_id = Staff-staff_id | Foreign key link to staff table |

### Links From

| Table | Join | Description |
|---|---|---|
| Payment | Payment – rental_id = rental – rental_id | Primary key link to payment table |

### Unique Keys

| Column | Key type |
|---|---|
| Inventory_id | Foreign key |
| Customer_id | Foreign key |
| Staff_id | Foreign key |
| Rental_id | Primary key |

# Dimension Tables

## Film:

### Columns

| Column | Data type | Description |
|---|---|---|
| Film_id | Integer | Identifier for film |
| Title | Character varying (255) | Title of film |
| Description | Text | Description of film |
| Release_year | Integer | Year film was released |
| Language_id | Smallint | Identifier for language |
| Rental_duration | Smallint | Duration of rental |
| Rental_rate | Numeric | Price of rental |
| Length | Smallint | Length of film |
| Replacement_cost | Numeric | Cost to replace film |
| Rating | USER-DEFINED | Age rating for movie |
| Last_update | Timestamp without time zone | Last update for table |
| Special_features | ARRAY | Special features in film |
| Fulltext | TSVECTOR | Text index for film |

### Links to

| Table | Join | Description |
|---|---|---|
| Language | Film – language_id = language – language_id | Foreign key link to language table |

### Links from

| Table | Join | Description |
|---|---|---|
| Inventory | Inventory – film_id = film – film_id | Foreign Key link to inventory table |
| Film_category | Film_category – film_id = film – film_id | Primary key link to film_category table |
| Film_actor | Film_actor – film_id = film – film_id | Primary key link to film_actor table |

### Unique Keys

| Column | Key Type |
|---|---|
| Film_id | Primary Key |
| Language_id | Foreign Key |

## Film_category:

### Columns

| Column | Data Type | Description |
|---|---|---|
| Film_id | Smallint | Identifier for film |
| Category_id | Smallint | Identifier for category |
| Last_update | Timestamp without time zone | Last update for table |

### Links to

| Table | Join | Description |
|---|---|---|
| Film | Film_category – film_id = film – film_id | Primary key link to film table |
| Category | Film_category – category_id = category – category_id | Primary key link to category table |

### Links From

**The film_category table doesn't link from any other tables**

### Unique Keys

| Column | Key Type |
|---|---|
| Film_id | Primary Key |
| Category_id | Primary Key |

## Category:

### Columns

| Column | Data Type | Description |
|---|---|---|
| Category_id | Integer | Identifier for category |
| Name | Character Varying (25) | Name of category |
| Last_update | Timestamp without time zone | Last update for table |

### Links to

**The category table doesn't link to any other tables**

### Links from

| Table | Join | Description |
|---|---|---|
| Film_category | Film_category – category_id = category – category_id | Primary Key link to film_category table |

### Unique Keys

| Column | Key type |
|---|---|
| Category_id | Primary Key |

## Language:

### Columns

| Column | Data Type | Description |
|---|---|---|
| Language_id | Integer | Identifier for language |
| Name | Character (20) | Language of film |
| Last_update | Timestamp without time zone | Last update for table |

### Links to

**The language table doesn't link to any other tables**

### Links From

| Table | Join | Description |
|---|---|---|
| Film | Film – language_id = language – language_id | Primary key link to film table |

### Unique Keys

| Column | Key Type |
|---|---|
| Language_id | Primary Key |

## Film_actor:

### Columns

| Column | Data Type | Description |
|---|---|---|
| Actor_id | Smallint | Identifier for actor |
| Film_id | Smallint | Identifier for film |
| Last_update | Timestamp without time zone | Last update for table |

### Links to

| Table | Join | Description |
|---|---|---|
| Film | Film – film_id = film_actor – film_id | Primary Key link to film table |
| Actor | Film_actor – actor_id = actor – actor_id | Primary key link to actor table |

### Links From

**The film_actor table doesn't link from any other tables**

### Unique Keys

| Column | Key |
|---|---|
| Film_id | Primary Key |
| Actor_id | Primary Key |

## Actor:

### Columns

| Column | Data Type | Description |
|---|---|---|
| Actor_id | Integer | Identifier for actor |
| First_name | Character varying (45) | First name of actor |
| Last_name | Character varying (45) | Last name of actor |
| Last_update | Timestamp without time zone | Last update for table |

### Links to

**The Actor table doesn't link to any other tables**

### Links from

| Table | Join | Description |
|---|---|---|
| Film_actor | Film_actor – actor_id = actor – actor_id | Primary key link to film_actor table |

### Unique Keys

| Column | Key type |
|---|---|
| Actor_id | Primary Key |

## Inventory:

### Columns

| Column | Data Type | Description |
|---|---|---|
| Inventory_id | Integer | Identifier for inventory |
| Film_id | Smallint | Identifier for film |
| Store_id | Smallint | Identifier for store |
| Last_update | Timestamp without time zone | Last table update |

### Links to

| Table | Join | Description |
|---|---|---|
| Film | Film- film_id = inventory – film_id | Foreign key link to film table |

### Links from

| Table | Join | Description |
|---|---|---|
| Rental | Rental- inventory_id = inventory – inventory_id | Primary key link to rental table |

### Unique Keys

| Column | Key Type |
|---|---|
| Inventory_id | Primary Key |
| Film_id | Foreign key |

## Store:

### Columns

| Column | Data Type | Description |
|---|---|---|
| Store_id | Integer | Identifier for store |
| Manager_staff_id | Smallint | Identifier for staff |
| Address_id | Smallint | Identifier for address |
| Last_update | Timestamp without time zone | Last update for table |

### Links to

| Table | Join | Description |
|---|---|---|
| Staff | Staff – staff_id = store – manager_staff_id | Foreign key link to staff table |
| Address | Address – address_id = store – address_id | Foreign key link to address table |

### Links From

**The store table doesn't link from any other tables**

### Unique Keys

| Column | Key Type |
|---|---|
| Store_id | Primary Key |
| Manager_staff_id | Foreign Key |
| Address_id | Foreign Key |

## Staff:

### Columns

| Column | Data Type | Description |
|---|---|---|
| Staff_id | Integer | Identifier for staff |
| First_name | Character Varying (45) | First name of staff member |
| Last_name | Character Varying (45) | Last name of staff member |
| Address_id | Smallint | Identifier for address |
| Email | Character varying (50) | Email for staff member |
| Store_id | Smallint | Identifier for store |
| Active | Boolean | Active employee or not |
| Username | Character Varying (16) | Username for staff member |
| Password | Character Varying (40) | Password for staff member |
| Last_update | Timestamp without time zone | Last update for table |
| Picture | Bytea | Picture of staff member |

### Links to

| Table | Join | Description |
|---|---|---|
| Address | Address – address_id = Staff – staff_id | Foreign key link to address table |

### Links From

| Table | Join | Description |
|---|---|---|
| Store | Store – manager_staff_id = staff – staff_id | Primary Key link to store table |
| Rental | Rental – staff_id = staff – staff_id | Primary key link to rental table |
| Payment | Payment – staff_id = staff – staff_id | Primary key link to payment table |

### Unique Keys

| Column | Key Type |
|---|---|
| Staff_id | Primary Key |
| Address_id | Foreign key |

## Customer:

### Columns

| Column | Data Type | Description |
|---|---|---|
| Customer_id | Integer | Identifier for customer |
| Store_id | Smallint | Identifier for store |
| First_name | Character Varying (45) | First name of customer |
| Last_name | Character Varying (45) | Last name of customer |
| Email | Character Varying (50) | Email for customer |
| Address_id | Smallint | Identifier for address |
| Activebool | Boolean | Active customer or not |
| Create_date | Date | Date customer was added |
| Last_update | Timestamp without time zone | Last update for table |
| Active | Integer | Number to show active customer or not |

### Links to

| Table | Join | Description |
|---|---|---|
| Address | Address- address_id = customer – address_id | Foreign Key link to address table |

### Links From

| Table | Join | Description |
|---|---|---|
| Rental | Rental – customer_id = customer- customer_id | Primary key link to rental table |
| Payment | Payment – customer_id = customer – customer_id | Primary key link to payment table |

### Unique Keys

| Column | Key Type |
|---|---|

| | |
|---|---|
| Address_id | Foreign Key |
| Customer_id | Primary Key |

## Address:

### Columns

| Column | Data Type | Description |
|---|---|---|
| Address_id | Integer | Identifier for address |
| Address | Character Varying (50) | Address |
| Address2 | Character Varying (50) | Address |
| District | Character Varying (20) | Specific District |
| City_id | Smallint | Identifier for city |
| Postal_code | Character Varying (10) | Postal code |
| Phone | Character Varying (20) | Phone Number |
| Last_update | Timestamp without time zone | Last update for table |

### Links to

| Table | Join | Description |
|---|---|---|
| City | City – city_id = address – city_id | Foreign Key link to city table |

### Links From

| Table | Join | Description |
|---|---|---|
| Store | Store – address_id = address – address_id | Primary Key link to store table |
| Staff | Staff – address_id = address – address_id | Primary Key link to staff table |
| Customer | Customer – address_id = address- address_id | Primary Key link to customer table |

### Unique Keys

| Column | Key Type |
|---|---|
| City_id | Foreign Key |
| Address_id | Primary Key |

## City:

### Columns

| Column | Data Type | Description |
|---|---|---|
| City_id | Integer | Identifier for city |
| City | Character Varying (50) | Name of city |
| Country_id | Smallint | Identifier for country |
| Last_update | Timestamp without time zone | Last update for table |

### Links to

| Table | Join | Description |
|---|---|---|
| Country | Country – country_id = city – city_id | Foreign Key link to country table |

**Links From**

| Table | Join | Description |
|---|---|---|
| Address | Address – city_id = city – city_id | Primary key link to address table |

### Unique Keys

| Column | Key Type |
|---|---|
| City_id | Primary Key |
| Address_id | Foreign Key |

## Country:

### Columns

| Column | Data Type | Description |
|---|---|---|
| Country_id | Integer | Identifier for country |
| Country | Character Varying(50) | Name of country |
| Last_update | Timestamp without time zone | Last update for table |

## Links to

The country table doesn't link to any other tables

## Links From

| Table | Join | Description |
|---|---|---|
| **City** | **City – country_id – country – country_id** | **Primary key link to city table** |

## Unique Keys

| Column | Key Type |
|---|---|
| **Country_id** | **Primary key** |