Rockbuster Stealth Data Dictionary

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# Rockbuster Stealth LLC

Rockbuster Stealth LLC is a movie rental company that used to have stores around the  
world. Facing stiff competition from streaming services such as Netflix and Amazon Prime,  
the Rockbuster Stealth management team is planning to use its existing movie licenses to  
launch an online video rental service in order to stay competitive.

# Entity Relationship Diagram

Diagram

Description automatically generated

# **Fact Tables:**

## **Payment:**

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| Payment\_id | Serial | Primary key; Unique serial number for each payment |
| Customer\_id | Smallint | Unique identifier for each customer |
| Staff\_id | Smallint | Unique identifier for each staff |
| Rental\_id | Integer | Unique identifier for each rental |
| Amount | Numeric(5,2) | Amount of money paid by each customer |
| Payment\_date | Timestamp(6) | The date and time of the payment |

## Links to:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Customer | Payment.customer\_id = Customer.customer\_id | Foreign key reference to customer table |
| Staff | Payment.staff\_id = Staff.staff\_id | Foreign key reference to staff table |
| Rental | Payment.rental\_id = Rental.rental\_id | Foreign key reference to rental table |

## Links from:

The payment table does not link from any other tables.

## Unique Keys:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Payment\_id | Primary | Unique identifier for payment |
| Customer\_id | Foreign | Unique identifier for customer |
| Staff\_id | Foreign | Unique identifier for staff |
| Rental\_id | Foreign | Unique identifier for rental |

## **Rental:**

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| Rental\_id | Serial | Primary key; Unique serial number for each rental |
| Rental\_date | Timestamp(6) | The date and time of the rental |
| Inventory\_id | Integer | Unique identifier for each item in inventory |
| Customer\_id | Smallint | Unique identifier for each customer |
| Return\_date | Timestamp(6) | The date and time of the return of a rental |
| Staff\_id | Smallint | Unique identifier for each staff |
| Last\_update | Timestamp(6) | The date and time of the last update |

## Links to:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Inventory | Rental.inventory\_id = Inventory.inventory\_id | Foreign key reference to inventory table |
| Customer | Rental.customer\_id = Customer.customer\_id | Foreign key reference to customer table |
| Staff | Rental.staff\_id = Staff.staff\_id | Foreign key reference to staff table |

## Links from:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Payment | Payment.rental\_id = Rental.rental\_id | Foreign key reference from the payment table |

## Unique Keys:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Rental\_id | Primary | Unique identifier for rental |
| Inventory\_id | Foreign | Unique identifier for inventory |
| Customer\_id | Foreign | Unique identifier for customer |
| Staff\_id | Foreign | Unique identifier for staff |

# **Dimension Tables:**

## **Actor:**

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| Actor\_id | Serial | Primary key; Unique serial number for each actor |
| First\_name | Character Varying(45) | First name of actor |
| Last\_name | Character Varying(45) | Last name of actor |
| Last\_update | Timestamp(6) | The date and time of the last update |

## Links to:

The actor table does not link to any other tables.

## Links from:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Film\_actor | Actor.actor\_id = Film\_actor.actor\_id | Foreign key reference to film\_actor table |

## Unique Keys:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Actor\_id | Primary | Unique identifier for actor |

## **Address:**

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| Address\_id | Serial | Primary key; Unique serial number for each address |
| Address | Character Varying(50) | First line of address |
| Address2 | Character Varying(50) | Optional second line of address |
| District | Character Varying(20) | The region of the address |
| City\_id | Smallint | Unique identifier for each city |
| Postal\_code | Character Varying(10) | Postal code of address |
| Phone | Character Varying(20) | The region of the address |
| Last\_update | Timestamp(6) | The date and time of the address |

## Links to:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| City | Address.city\_id = City.city\_id | Foreign key reference to city table |

## Links from:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Customer | Address.address\_id = Customer.address\_id | Foreign key reference to customer table |
| Staff | Address.address\_id = Staff.address\_id | Foreign key reference to staff table |
| Store | Address.address\_id = Store.address\_id | Foreign key reference to store table |

## Unique Keys:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Address\_id | Primary | Unique identifier for address |
| City\_id | Foreign | Unique identifier for city |

## **Category:**

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| Category\_id | Serial | Primary key; Unique serial number for each film category |
| Name | Character Varying(25) | The name of the category |
| Last\_update | Timestamp(6) | The date and time of the last update |

## Links to:

The category table does not link to any other tables.

## Links from:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Film\_category | Category.category\_id = Film\_category.category\_id | Foreign key reference to film\_category table |

## Unique Keys:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Category\_id | Primary | Unique identifier for category |

## **City:**

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| City\_id | Serial | Primary key; Unique serial number for each city |
| City | Character Varying(50) | The city name |
| Country\_id | Smallint | Unique identifier for each country |
| Last\_update | Timestamp(6) | The date and time of the last update |

## Links to:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Country | City.country\_id = Country.country\_id | Foreign key reference to country table |

## Links from:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Address | City.city\_id = Address.city\_id | Foreign key reference to address table |

## Unique Keys:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| City\_id | Primary | Unique identifier for city |
| Country\_id | Foreign | Unique identifier for country |

## **Country:**

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| Country\_id | Serial | Primary key; Unique serial number for each country |
| Country | Character Varying(50) | The country name |
| Last\_update | Timestamp(6) | The date and time of the last update |

## Links to:

The country table does not link to any other tables.

## Links from:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| City | Country.country\_id = City.country\_id | Foreign key reference to city table |

## Unique Keys:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Country\_id | Primary | Unique identifier for country |

## **Customer:**

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| Customer\_id | Serial | Primary key; Unique serial number for each customer |
| Store\_id | Smallint | Unique identifier for each store |
| First\_name | Character Varying(45) | The first name of the customer |
| Last\_name | Character Varying(45) | The last name of the customer |
| Email | Character Varying(50) | The email address of the customer |
| Address\_id | Smallint | Unique identifier for each address |
| Activebool | Boolean | Status of whether the customer is active or not |
| Create\_date | Date | The date in which the customer was created in the system |
| Last\_update | Timestamp(6) | The date and time of the last update |
| Active | Integer | Number |

## Links to:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Address | Customer.address\_id = Address.address\_id | Foreign key reference to address table |

## Links from:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Payment | Customer.customer\_id = Payment.customer\_id | Foreign key reference to payment table |
| Rental | Customer.customer\_id = Rental.customer\_id | Foreign key reference to rental table |

## Unique Keys:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Customer\_id | Primary | Unique identifier for customer |
| Address\_id | Foreign | Unique identifier for address |

## **Film:**

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| Film\_id | Serial | Primary\_key; Unique serial number for each film |
| Title | Character Varying(255) | The title of the film |
| Description | Text | The overview of the film |
| Release\_year | Year | The year the film was released |
| Language\_id | Smallint | Unique language identifier for each film |
| Rental\_duration | Smallint | Duration of rental time |
| Rental\_rate | Numeric(4,2) | The cost of the rental |
| Length | Smallint | Length of the rental |
| Replacement\_cost | Numeric(2,5) | The cost of replacing a rental |
| Rating | Mpaa\_rating | The rating of the film |
| Last\_update | Timestamp(6) | The date and time of the last update |
| Special\_features | Text | Special features of the film |
| Fulltext | Tsvector | Full text index |

## Links to:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Language | Film.language\_id = Language.language\_id | Foreign key reference to language table |

## Links from:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Film\_actor | Film.film\_id = Film\_actor.film\_id | Foreign key reference to film\_actor table |
| Inventory | Film.film\_id = Inventory.film\_id | Foreign key reference to inventory table |
| Film\_category | Film.film\_id = Film\_category.film\_id | Foreign key reference to film\_category table |

## Unique Keys:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Film\_id | Primary | Unique identifier for film |
| Language\_id | Foreign | Unique identifier for language |

## **Film\_actor:**

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| Actor\_id | Smallint | Primary key; Unique identifier for each actor |
| Film\_id | Smallint | Unique identifier for each film |
| Last\_update | Timestamp(6) | The date and time of the last update |

## Links to:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Actor | Film\_actor.actor\_id = Actor.actor\_id | Foreign key reference to actor table |
| Film | Film\_actor.film\_id = Film.film\_id | Foreign key reference to film table |

## Links from:

The film\_actor table does not link from any other tables.

## Unique Keys:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Actor\_id | Primary | Unique identifier for actor |
| Film\_id | Primary | Unique identifier for film |

## **Film\_category:**

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| Film\_id | Smallint | Unique identifier for each film |
| Category\_id | Smallint | Unique identifier for each category |
| Last\_update | Timestamp(6) | The date and time of the last update |

## Links to:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Film | Film\_category.film\_id = Film.film\_id | Foreign key reference to film table |
| Category | Film\_category.category\_id = Category.category\_id | Foreign key reference to category table |

## Links from:

The film\_category table does not link from any other tables.

## Unique Keys:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Film\_id | Primary | Unique identifier for film |
| Category\_id | Primary | Unique identifier for category |

## **Inventory:**

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| Inventory\_id | Serial | Primary key; Unique serial number for each item in inventory |
| Film\_id | Smallint | Unique identifier for each film |
| Store\_id | Smallint | Unique identifier for each store |
| Last\_update | Timestamp(6) | The date and time of the last update |

## Links to:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Film | Inventory.film\_id = Film.film\_id | Foreign key reference to film table |

## Links from:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Rental | Inventory.inventory\_id = Rental.inventory\_id | Foreign key reference to rental table |

## Unique Keys:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Inventory\_id | Primary | Unique identifier for inventory |
| Film\_id | Foreign | Unique identifier for film |

## **Language:**

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| Language\_id | Serial | Primary key; Unique serial number for each language |
| Name | Character(20) | The name of the language |
| Last\_update | Timestamp(6) | The date and time of the last update |

## Links to:

The language table does not link to any other tables.

## Links from:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Film | Language.language\_id = Film.language\_id | Foreign key reference to film table |

## Unique Keys:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Language\_id | Primary | Unique identifier for language of film |

## **Staff:**

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| Staff\_id | Serial | Primary key; Unique serial number for each staff member |
| First\_name | Character Varying(45) | The first name of staff member |
| Last\_name | Character Varying(45) | The last name of staff member |
| Address\_id | Smallint | Unique identifier for each address |
| Email | Character Varying(50) | Email address of staff member |
| Store\_id | Smallint | Unique identifier for each address |
| Active | Boolean | Status of whether the customer is active or not |
| Username | Character Varying(16) | Username of staff member |
| Password | Character Varying(40) | Password of staff member |
| Last\_update | Timestamp(6) | The date and time of the last update |
| Picture | Bytea | Picture of the staff member |

## Links to:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Address | Staff.address\_id = Address.address\_id | Foreign key reference to address table |

## Links from:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Rental | Staff.staff\_id = Rental.staff\_id | Foreign key reference to rental table |
| Payment | Staff.staff\_id = Payment.staff\_id | Foreign key reference to payment table |
| Store | Staff.staff\_id = Store.staff\_id | Foreign key reference to store table |

## Unique Keys:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Staff\_id | Primary | Unique identifier for staff |
| Address\_id | Foreign | Unique identifier for address |

## **Store:**

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| Store\_id | Serial | Primary key; Unique serial number for each store |
| Manager\_staff\_id | Smallint | Unique identifier for each manager |
| Address\_id | Smallint | Unique identifier for each address |
| Last\_update | Timestamp(6) | The date and time of the last update |

## Links to:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Staff | Store.manager\_staff\_id = Staff.staff\_id | Foreign key reference to staff table |
| Address | Store.address\_id = Address.address\_id | Foreign key reference to address table |

## Links from:

The store table does not link from any other tables.

## Unique Keys:

|  |  |  |
| --- | --- | --- |
| Table | Join | Description |
| Store\_id | Primary | Unique identifier for store |
| Manager\_staff\_id | Foreign | Unique identifier for manager |
| Address\_id | Foreign | Unique identifier for address of store |