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| 1,769,783 Movie Images, Stock Photos, 3D objects, & Vectors ...  Rockbuster’s Stealth  Data Dictionary | Sunita Lamichhane  January 3, 2024 |

Contents

[1. Entity Relationship Diagram (ERD) 2](#_Toc155189589)

[2. Tables 3](#_Toc155189590)

[2.1 Fact Table 3](#_Toc155189591)

[A. Payment 3](#_Toc155189592)

[B. Rental 3](#_Toc155189593)

[2.2 Dimension table 4](#_Toc155189594)

[A. Store 4](#_Toc155189595)

[B. Film\_actor 4](#_Toc155189596)

[C. Inventory 5](#_Toc155189597)

[D. Film\_category 5](#_Toc155189598)

[E. Customer 6](#_Toc155189599)

[F. Staff 6](#_Toc155189600)

[G. Actor 7](#_Toc155189601)

[H. Film 7](#_Toc155189602)

[I. Category 8](#_Toc155189603)

[J. Language 8](#_Toc155189604)

[K. Address 9](#_Toc155189605)

[L. City 9](#_Toc155189606)

[M. Country 10](#_Toc155189607)

# Entity Relationship Diagram (ERD)

A diagram of a computer

Description automatically generated

# Tables

## 2.1 Fact Table

### Payment

|  |  |  |  |
| --- | --- | --- | --- |
| Column | Data Type | Description | KEYS |
| Payment\_id | Serial | Unique Assigned to each payment | Primary Key |
| Customer\_id | Smallint | Unique Number assigned to customer | Foreign Key |
| Staff\_id | Smallint | Unique Number assigned to staff | Foreign Key |
| Rental\_id | Integer | Unique Number assigned to each movie rental | Foreign Key |
| Amount | Numeric(5,2) | Amount of each rental |  |
| Payment\_date | Timestamp (6) without time zone | Date and time when the payment was made |  |

Links to

|  |  |
| --- | --- |
| **Table** | **Join** |
| Rental | payment.rental\_id = rental.rental\_id |
| Staff | payment.staff\_id = staff.staff\_id |
| Customer | payment.customer\_id = customer.customer\_id |

### Rental

|  |  |  |  |
| --- | --- | --- | --- |
| Column | Data Type | Description |  |
| Rental\_id | Serial | Unique Number assigned to each movie rental | Primary Key |
| Rental-date | Timestamp(6) without time zone | Date and time of movie rented |  |
| Inventory\_id | Integer | Unique Number assigned to movie | Foreign Key |
| Customer\_id | Timestamp(6) withouttime zone | Unique Number assigned to customer | Foreign Key |
| Return\_date | Timestamp(6) without the time zone | Date and time when return |  |
| Staff\_id | Smallint | Unique Number assigned to staff | Foreign Key |
| Last\_upate | Timestamp(6) without time zone | Date and time when last updated |  |

Links to

|  |  |
| --- | --- |
| **Table** | **Join** |
| inventory | rental.inventory\_id=inventory.inventory\_id |
| Staff | rental.staff\_id=staff.staff\_id |
| Customer | rental.customer\_id=customer.customer\_id |

Links from

|  |  |
| --- | --- |
| **Table** | **Join** |
| Payment | payment.rental\_id = rental.rental\_id |

## 2.2 Dimension table

### Store

|  |  |  |  |
| --- | --- | --- | --- |
| Column | Data Type | Description | Keys |
| Store\_id | Serial | Unique assigned to each store | Primary Key |
| Manager\_staff\_id | Smallint | Unique assigned to each manager to each store | Foreign Key |
| Address\_id | Smallint | Unique assigned to each store identifying the store’s address | Foreign Key |
| Last\_upate | Timestamp(6) without time zone | Date and time when last updated |  |

Links to

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| --- | --- |
| **Table** | **Join** |
| address | store.address\_id = address.address\_id |
| Staff | store.staff\_id=staff.staff\_id |

### Film\_actor

|  |  |  |  |
| --- | --- | --- | --- |
| Columns | Data Type | Description | Keys |
| Actor\_id | Smallint | Unique assigned to each Actor | Primary key  Foreign Key |
| Film\_id | Smallint | Unique assigned to each Film Primary Key) | Primary key  Foreign Key |
| Last\_update | Timestamp(6) without time zone | Date and time when last updated |  |

Links to

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| **Table** | **Join** |
| Actor | film\_actor.actor\_id = actor.actor\_id |
| Film | film\_actor.film\_id = film.film\_id |

### Inventory

|  |  |  |  |
| --- | --- | --- | --- |
| Columns | Data Type | Description | Keys |
| Inventory\_id | Serial | Unique assigned to each movie in the inventory (Primary Key) | Primary Key |
| Film\_id | Smallint | Unique assigned to each Film | Foreign Key |
| Store\_id | Smallint | Assigned to each store |  |
| Last\_update | Timestamp (6) without time zone | Date and time when last updated |  |

Links to

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| **Table** | **Join** |
| film | film.film\_id = inventory.film\_id |

Links from

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| **Table** | **Join** |
| Rental | rental.inventory\_id = inventory.inventory\_id |

### Film\_category

|  |  |  |  |
| --- | --- | --- | --- |
| Columns | Data Type | Description | Keys |
| Film\_id | Smallint | Unique assigned to each film (Primary Key) | Primary key  Foreign Key |
| Category\_id | Smallint | Unique assigned to each film Category (Primary Key) | Primary key  Foreign Key |
| Last\_update | Timestamp (6) without time zone | Date and time when last updated |  |

Links to

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| --- | --- |
| **Table** | **Join** |
| film | film.film\_id = film\_category.film\_id |
| category | Category.category\_id = film\_category.category\_id |

### Customer

|  |  |  |  |
| --- | --- | --- | --- |
| Columns | Data Type | Description | Keys |
| Customer\_id | Serial | Unique assigned to each customer (Primary Key) | Primary Key |
| Store\_id | Smallint | Assigned to each customer |  |
| First\_name | Character Varying (45) | First name of each customer |  |
| Last\_name | Character Varying (45) | Last name of each customer |  |
| email | Character Varying (50) | Email address of each customer |  |
| Address\_id | Smallint | Unique assigned to each customer identifying the customers address. | Foreign Key |
| Activebool | Boolean | True or False response. Is the customer active? |  |
| Create\_date | Date | Date of the customer account was created. |  |
| Last-update | Timestamp (6) without time zone | Date and time when last updated |  |
| Active | Integer | 0 or 1 indicates the customer’s active status |  |

Links to

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| **Table** | **Join** |
| Address | Address.address\_id = customer.address\_id |

Links from

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| **Table** | **Join** |
| rental | rental.customer\_id = customer.customer\_id |
| Payment | Payment.customer\_id = customer.customer\_id |

### Staff

|  |  |  |  |
| --- | --- | --- | --- |
| Columns | Data Type | Description | Keys |
| Staff\_id | Serial | Unique assigned to each staff member | Primary Key |
| First\_name | Character Varying (45) | First name of staff member |  |
| Last\_name | Character Varying (45) | Last name of staff member |  |
| Address-id | Smallint | Unique assigned to each staff member identifying their address | Foreign Key |
| email | Character Varying (50) | Email address of each staff member |  |
| Store\_id | Smallint | Assigned to each store |  |
| Active | Boolean | True or False response. Is the Staff member active |  |
| Username | Character Varying (16) | Username for each staff member |  |
| Password | Character Varying (40) | Password for each staff member |  |
| Last\_updated | Timestamp (6) without time zone | Date and time when last updated |  |
| Picture | Bytea | If available, photo of staff member |  |

Links to

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| **Table** | **Join** |
| Address | Address.address\_id = staff.address\_id |

Links from

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| **Table** | **Join** |
| Rental | rental.staff\_id = customer.staff\_id |
| Payment | payment.staff\_id = customer.staff\_id |
| Store | store.staff\_id = customer.staff\_id |

### Actor

|  |  |  |  |
| --- | --- | --- | --- |
| Columns | Data Type | Description | Keys |
| Actor\_id | Serial | Unique assigned to each actor (Primary Key) | Primary Key |
| First\_name | Character Varying (45) | First name of actor |  |
| Last\_name | Character Varying (45) | Last name of actor |  |
| Last\_updated | Timestamp (6) without time zone | Date and time when last updated |  |

Links from

|  |  |
| --- | --- |
| **Table** | **Join** |
| Film\_actor | Film\_actor.actor\_id = actor.actor\_id |

### Film

|  |  |  |  |
| --- | --- | --- | --- |
| Columns | Data Type | Description | Keys |
| Film\_id | Serial | Unique assigned to each Film (Primary key) | Primary Key |
| Title | Character Varying (255) | Title of the Film |  |
| Description | Text | Description about Film |  |
| Release\_year | year | Year when the film was release |  |
| Language\_id | Smallint | Assigned to each film to identify the film’s language | Foreign Key |
| Rental\_duration | Smallint | Number of days the movie was rented |  |
| Rental-rate | Numeric (4,2) | Amount the film was rented for |  |
| length | Smallint | Time duration of each film |  |
| Replacement\_cost | Numeric (5,2) | Amount to replace the film |  |
| Rating | Mpaa\_rating | Each Film’s rating |  |
| Last\_update | Timestamp (6) without time zone | Date and time when last updated |  |
| Special\_features | Text[] | The special features included with each film |  |
| Fulltext | Tsyector | Keywords linked to each film that a customer may use in searching for the film |  |

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| **Table** | **Join** |
| Language | language.language\_id = film.language\_id |

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| **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 |

### Category

|  |  |  |  |
| --- | --- | --- | --- |
| Columns | Data Type | Description | Keys |
| Category\_id | Serial | Assigned to each film Category (Primary Key) | Primary Key |
| Name | Character Varying (25) | Category Name |  |
| Last\_update | Timestamp (6) without time zone | Date and time when last updated |  |

Links from

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| **Table** | **Join** |
| Film\_category | Film\_category.category\_id = category.category\_id |

### Language

|  |  |  |  |
| --- | --- | --- | --- |
| Columns | Data Type | Description | Keys |
| Language\_id | Serial | Assigned to each film to identify the film’s language | Primary Key |
| Name | Character (20) | Language Name |  |
| Last\_update | Timestamp (6) without time zone | Date and time when last updated |  |

Links from

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| --- | --- |
| **Table** | **Join** |
| Film | language.language\_id = film.language\_id |

### Address

|  |  |  |  |
| --- | --- | --- | --- |
| Columns | Data Type | Description | Keys |
| Address\_id | Serial | Assigned to each store, staff member, and customer identifying their address (Primary Key) | Primary Key |
| Address | Character Varying (50) | Street Address |  |
| Address2 | Character Varying (50) | Apt, Suite, Unit etc address |  |
| District | Character Varying (20) | State, Province, or territory of the address |  |
| City\_id | Smallint | Assigned to each city | Foreign Key |
| Postal\_code | Character Varying (10) | Postal code for each address |  |
| Phone | Character Varying (20) | Phone no of each address |  |
| Last\_update | Timestamp (6) without time zone | Date and time when last updated |  |

Links to

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| **Table** | **Join** |
| city | city.city\_id = address.city\_id |

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| **Table** | **Join** |
| Customer | Customer.address\_id = address.address\_id |
| Staff | staff.address\_id = address.address\_id |
| Store | store.address\_id = address.address\_id |

### City

|  |  |  |  |
| --- | --- | --- | --- |
| Columns | Data Type | Description | Keys |
| City\_id | Serial | Unique assigned to each city (Primary Key) | Primary Key |
| City | Character Varying (50) | Name of the City |  |
| Country\_id | Smallint | Assigned to each Country | Foreign Key |
| Last\_update | Timestamp (6) without time zone | Date and time when last updated |  |

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| **Table** | **Join** |
| country | city.country\_id = country.country\_id |

Links from

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| --- | --- |
| **Table** | **Join** |
| address | Address.city\_id = city.address\_id |

### Country

|  |  |  |  |
| --- | --- | --- | --- |
| Columns | Data Type | Description | Keys |
| Country\_id | Serial | Assigned to each Country | Primary Key |
| Country | Character Varying (50) | Name of the Country |  |
| Last\_update | Timestamp (6) without time zone | Date and time when last updated |  |

Links from

|  |  |
| --- | --- |
| **Table** | **Join** |
| City | city.country\_id = country.country\_id |