



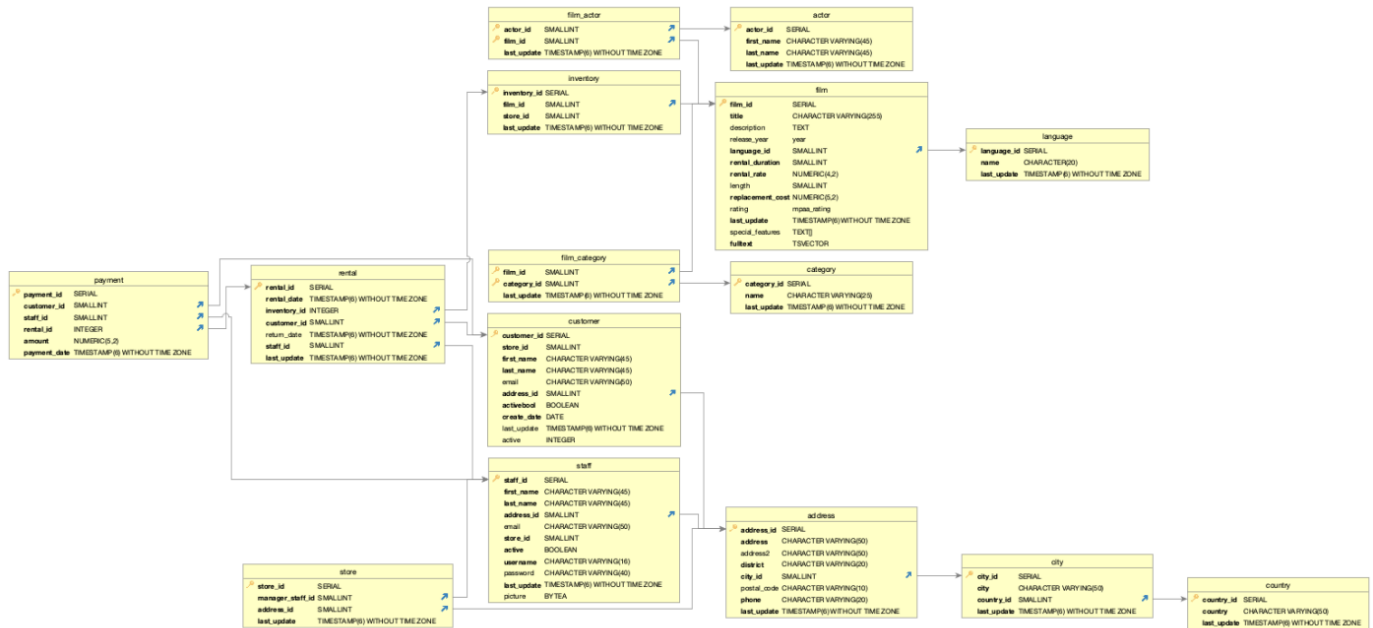
# **Rockbuster Stealth Data Dictionary**

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# Entity Relationship Diagram (ERD)



# Important Definitions

## Keys

### Primary key

A column that uniquely identifies a record in a table

### Foreign key

A primary key used to establish a relationship between two tables

## Legend

P = primary key

F = foreign key

# Data Tables: Film Actor & Actor

## 1.Film Actor Table

| Keys | Column      | Data Type                  | Description                                      |
|------|-------------|----------------------------|--|
| P    | actor_id    | small integer              | unique identifier for the actor                  |
| P    | film_id     | small integer              | unique identifier for the film                   |
|      | last_update | timestamp without timezone | time and date last update was made on the record |

Linked To Tables:

| Table Name | Linked Column(s)    |
|------------|---------------------|
| actor      | actor_id = actor_id |
| film       | film_id = film_id   |

Linked From Tables:  
None

## 2.Actor Table

| Keys | Column      | Data Type              | Description                                      |
|------|-------------|------------------------|--|
| P    | actor_id    | integer                | unique identifier for the actor                  |
|      | first_name  | character varying (45) | actor's first name (max 45 characters)           |
|      | last_name   | character varying (45) | actor's last name (max 45 characters)            |
|      | last_update |                        | time and date last update was made on the record |

Linked To Tables:  
None

Linked From Table:

| Table Name | Linked Column(s)    |
|------------|---------------------|
| film_actor | actor_id = actor_id |

# Data Tables: Inventory & Film

## 3. Inventory Table

| Keys | Column       | Data Type                  | Description                                      |
|------|--------------|----------------------------|--|
| P    | inventory_id | integer                    | unique identifier for inventory purposes         |
| F    | film_id      | small integer              | unique identifier for inventory purposes         |
| F    | store_id     | small integer              | unique identifier for the film                   |
|      | last_update  | timestamp without timezone | time and date last update was made on the record |

Linked To Table:

| Table Name | Linked Column(s)  |
|------------|-------------------|
| film       | film_id = film_id |

Linked From Tables:  
None

## 4. Film Table

| Keys | Column           | Data Type                  | Description  |
|------|------------------|----------------------------|--|
| P    | film_id          | serial                     | unique identifier for the film                       |
|      | title            | character varying (225)    | title of the film                                    |
|      | description      | text                       | description of the film                              |
|      | release_year     | year                       | year the film was released                           |
| F    | language_id      | small integer              | unique identifier for the film's primary language    |
|      | rental_duration  | small integer              | how long the movie was checked out                   |
|      | rental_rate      | numerica (4,2)             | how often the film is checked out                    |
|      | length           | small integer              | film length  |
|      | replacement_cost | numerica (5,2)             | cost to replace the film                             |
|      | rating           | mpaa_rating                | film's rating (G, PG-13, PG)                         |
|      | last_update      | timestamp without timezone | time and date the last update was made on the record |
|      | special_features | text[]                     | special features of the film (ex. Blu Ray, 3-D)      |
|      | full_text        | tv sector                  | film's full script in text                           |

Linked To Tables:

| Table Name | Linked Column(s)          |
|------------|---------------------------|
| inventory  | film_id = film_id         |
| film_actor | film_id = film_id         |
| film       | language_id = language_id |

Linked From Table:

| Table Name | Linked Column(s)  |
|------------|-------------------|
| inventory  | film_id = film_id |

# Data Tables: Language and Payment

## 5. Language Table

| Keys | Column      | Data Type                  | Description  |
|------|-------------|----------------------------|--|
| P    | language_id | serial                     | unique identifier for the film's primary language    |
|      | name        | character (20)             | the primary language of the film                     |
|      | last_update | timestamp without timezone | time and date the last update was made on the record |

Linked To Tables:

None

Linked From Table:

| Table Name | Linked Columns      |
|------------|---------------------|
| film       | language = language |

## 6. Payment Table

| Keys | Column       | Data Type                  | Description  |
|------|--------------|----------------------------|--|
| P    | payment_id   | integer                    | unique identifier for the transaction                |
| F    | customer_id  | small integer              | unique identifier for the customer                   |
| F    | staff_id     | small integer              | unique identifier for the staff member               |
| F    | rental_id    | integer                    | unique identifier for the product being rented       |
|      | amount       | numeric (5,2)              | cost of the rental                                   |
|      | payment_date | timestamp without timezone | time and date the last update was made on the record |

Linked To Tables:

| Table Name | Linked Column(s)          |
|------------|---------------------------|
| customer   | customer_id = customer_id |
| rental     | rental_id = rental_id     |
| staff      | staff_id = staff_id       |

Linked From Table:

None

# Data Tables: Rental & Film Category

## 7. Rental Table

| Keys | Column       | Data Type                  | Description   |
|------|--------------|----------------------------|---|
| P    | rental_id    | serial                     | unique identifier for the product(s) being rented     |
|      | rental_date  | timestamp without timezone | time and date the rental occurred                     |
| F    | inventory_id | integer                    | unique identifier for inventory purposes              |
| F    | customer_id  | small integer              | unique identifier for the customer                    |
|      | return_date  | timestamp without timezone | time and date the rental was returned                 |
| F    | staff_id     | small integer              | unique identifier for the staff member                |
|      | last_update  | timestamp without timezone | time and date the last update was made for the record |

Linked To Tables:

| Table Name | Linked Column(s)            |
|------------|-----------------------------|
| inventory  | inventory_id = inventory_id |
| customer   | customer_id = customer_id   |
| staff      | staff_id = staff_id         |

Linked From Table:

| Table Name | Linked Column(s)      |
|------------|-----------------------|
| payment    | rental_id = rental_id |

## 8. Film Category Table

| Keys | Column      | Data Type                   | Description  |
|------|-------------|-----------------------------|--|
| P    | film_id     | small integer               | unique identifier for the film                       |
| F    | category_id | small integer               | unique identifier for the film's category            |
|      | last update | timestamp without time zone | date and time the last update was made on the record |

Linked To Table:

| Table Name | Linked Column(s)          |
|------------|---------------------------|
| category   | category_id = category_id |

Linked From Tables:

| Table Name | Linked Column(s)  |
|------------|-------------------|
| film       | film_id = film_id |
| inventory  | film_id = film_id |
| film_actor | film_id = film_id |



# Data Tables: Category & Customer

## 9.Category Table

| Keys | Column      | Data Type                   | Description  |
|------|-------------|-----------------------------|--|
| P    | category_id | serial                      | unique identifier for the film's category            |
|      | name        | character varying (25)      | name of the category (i.e.Horror, Thriller, Drama)   |
|      | last update | timestamp without time zone | date and time the last update was made on the record |

Linked To Table:  
None

Linked From Table:

| Table Name | Linked Column(s)          |
|------------|---------------------------|
| category   | category_id = category_id |

## 10.Customer Table

| Keys | Column      | Data Type                  | Description  |
|------|-------------|----------------------------|--|
| P    | customer_id | serial                     | unique identifier for the customer                   |
| F    | store_id    | small integer              | unique identifier for Rockbuster location            |
|      | first_name  | character varying (45)     | customer's first name                                |
|      | last_name   | character varying (45)     | customer's last name                                 |
|      | email       | character varying (50)     | customer's email address                             |
| F    | address_id  | small integer              | unique identifier for the Rockbuster address         |
|      | activebool  | boolean                    | customer account active/inactive                     |
|      | create_date | date                       | date customer's account was created in the system    |
|      | last_update | timestamp without timezone | time and date the last update was made on the record |
|      | active      | integer                    | number   |

Linked To Tables:

| Table Name | Linked Column(s)          |
|------------|---------------------------|
| address    | address_id = address_id   |
| payment    | customer_id = customer_id |
| store      | store_id = store_id       |

Linked From Tables:  
None

# Data Tables: Store & Staff

## 11. Store Table

| Keys | Column           | Data Type                  | Description  |
|------|------------------|----------------------------|--|
| P    | store_id         | serial                     | unique identifier for the Rockbuster location        |
|      | manager_staff_id | small integer              | unique identifier for managerial staff member        |
|      | address_id       | small integer              | unique identifier for the Rockbuster address         |
|      | last update      | timestamp without timezone | time and date the last update was made on the record |

Linked To Tables:

| Table Name | Linked Column(s)        |
|------------|-------------------------|
| customer   | store_id = store_id     |
| staff      | address_id = address_id |
| address    | adress_id = address_id  |

Linked From Tables:

None

## 12. Staff Table

| Keys | Column      | Data Type                  | Description                                      |
|------|-------------|----------------------------|--|
| P    | staff_id    | serial                     | unique identifier for Rockbuster staff member    |
|      | first_name  | character varying (45)     | staff member's first name                        |
|      | last_name   | character varying (45)     | staff member's last name                         |
| F    | address_id  | small integer              | unique identifier for the Rockbuster address     |
|      | email       | character varying (50)     | staff member's email                             |
| F    | store_id    | small integer              | unique identifier for the Rockbuster location    |
|      | active      | boolean                    | staff member's account active/inactive           |
|      | username    | character varying (16)     | staff member's account username                  |
|      | password    | character varying (40)     | staff member's account password                  |
|      | last update | timestamp without timezone | time and date last update was made on the record |
|      | picture     | bytea                      | picture of staff member                          |

Linked To Tables:

| Table Name | Linked Column(s)       |
|------------|------------------------|
| store      | store_id = store_id    |
| payment    | staff_id = staff_id    |
| address    | adress_id = address_id |

Linked From Tables:

None

# Data Tables: Address & City

## 13.Address Table

| Keys | Column      | Data Type                  | Description   |
|------|-------------|----------------------------|---|
| P    | address_id  | serial                     | unique identifier for Rockbuster address  |
|      | address     | character varying (50)     | customer's address (primary details)  |
|      | address 2   | character varying (50)     | customer's address (details that would go on the second line such as Apt or Suite number) |
|      | district    | character varying (50)     | district that the Rockbuster location is located within                                   |
| F    | city_id     | small integer              | unique identifier for the customer's city   |
|      | postal_code | character varying (10)     | zip code  |
|      | phone       | character varying (20)     | customer's phone number   |
|      | last_update | timestamp without timezone | time and date last update was made on the record  |

Linked To Table:

| Table Name | Linked Column(s)     |
|------------|----------------------|
| store      | address = address_id |

Linked From Tables:

| Table Name | Linked Column(s)        |
|------------|-------------------------|
| customer   | address = address_id    |
| staff      | address_id = address_id |

## 14.City Table

| Keys | Column     | Data Type              | Description   |
|------|------------|------------------------|---|
| P    | city_id    | serial                 | unique identifier for city that customer is located in    |
|      | city       | character varying (50) | customer's city   |
| F    | country_id | character varying (50) | unique identifier for country that customer is located in |

Linked To Tables:

None

Linked From Table:

| Table Name | Linked Column(s)  |
|------------|-------------------|
| address    | city_id = city_id |

# Data Tables: Country

## 15. Country Table

| Keys | Column      | Data Type                  | Description   |
|------|-------------|----------------------------|---|
| P    | country_id  | serial                     | unique identifier for country that the customer is located in |
|      | country     | character varying (50)     | country the customer is located in                            |
|      | last update | timestamp without timezone | time and date last update was made on the record              |

Linked To Tables:

None

Linked From Table:

| Table Name | Linked Column(s)        |
|------------|-------------------------|
| city       | country_id = country_id |