

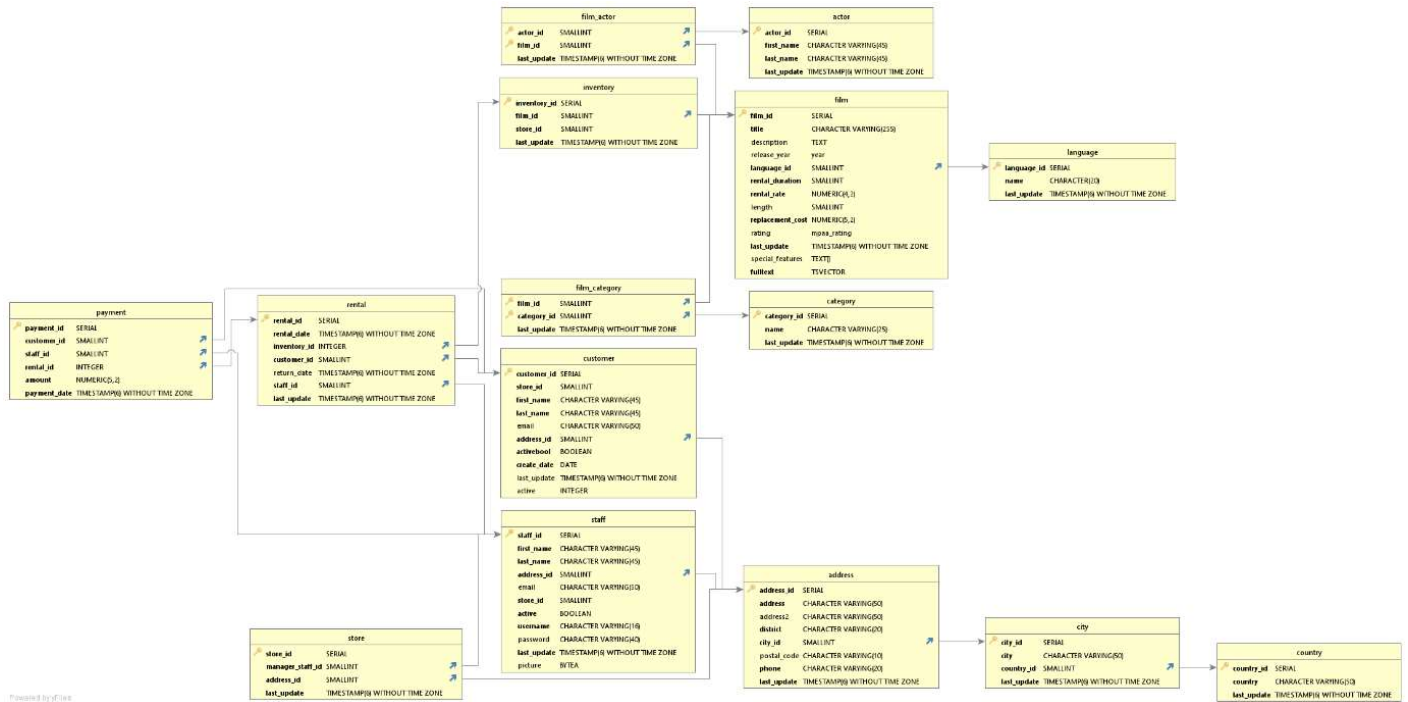
# Rockbuster Stealth LLC

## DATA DICTIONARY



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# Entity Relationship Diagramm (ERD)







## Legend:

-  Primary key
-  Foreign key





# Data Tables

## Fact Tables

### Rental Table

|   | Column       | Data Type                       | Description  | Links to Table | Link Name                |
|---|--------------|---------------------------------|--|----------------|--------------------------|
|    | rental_id    | SERIAL                          | unique identifier for rentals                                    | Payment        | payment_rental_id_fkey   |
|   | rental_date  | TIMESTAMP (6) WITHOUT TIME ZONE | rental date and time; does not include the time zone             |                |                          |
|    | inventory_id | INTEGER                         | unique identifier for inventory                                  | Inventory      | rental_inventory_id_fkey |
|    | customer_id  | SMALLINT                        | unique identifier for customer                                   | Customer       | rental_customer_id_fkey  |
|   | return_date  | TIMESTAMP (6) WITHOUT TIME ZONE | return date and time; does not include the time zone             |                |                          |
|  | staff_id     | SMALLINT                        | unique identifier for staff                                      | Staff          | rental_staff_id_fkey     |
|   | last_update  | TIMESTAMP (6) WITHOUT TIME ZONE | date and time of the last update; does not include the time zone |                |                          |



### Payment Table

|   | Column      | Data Type | Description                    | Links to Table | Link Name                |
|---|-------------|-----------|--------------------------------|----------------|--------------------------|
|  | payment_id  | SERIAL    | unique identifier for payments |                |                          |
|  | customer_id | SMALLINT  | unique identifier for customer | Customer       | payment_customer_id_fkey |
|  | staff_id    | SMALLINT  | unique identifier for staff    | Staff          | payment_staff_id_fkey    |
|  | rental_id   | INTEGER   | unique identifier for rentals  | Rental         | payment_rental_id_fkey   |


|  | Column       | Data Type                       | Description  | Links to Table | Link Name |
|--|--------------|---------------------------------|--|----------------|-----------|
|  | amount       | NUMERIC (5,2)                   | amount paid for the rental                               |                |           |
|  | payment_date | TIMESTAMP (6) WITHOUT TIME ZONE | date and time of payment; does not include the time zone |                |           |

## Dimension tables



### Film Category Table

|   | Column      | Data Type                       | Description  | Links to Table | Link Name                      |
|---|-------------|---------------------------------|--|----------------|--------------------------------|
|  | film_id     | SMALLINT                        | unique identifier for film                                       | Film           | film_category_film_id_fkey     |
|  | category_id | SMALLINT                        | unique identifier for film category                              | Category       | film_category_category_id_fkey |
|   | last_update | TIMESTAMP (6) WITHOUT TIME ZONE | date and time of the last update; does not include the time zone |                |                                |

### Category Table

|   | Column      | Data Type                       | Description  | Links to Table | Link Name                      |
|---|-------------|---------------------------------|--|----------------|--------------------------------|
|  | category_id | SERIAL                          | unique identifier for category                                   | Category       | film_category_category_id_fkey |
|   | name        | CHARACTER VARYING (25)          | name of the film category  |                |                                |
|   | last_update | TIMESTAMP (6) WITHOUT TIME ZONE | date and time of the last update; does not include the time zone |                |                                |

### Inventory Table


|   | Column       | Data Type | Description                     | Links to Table | Link Name                |
|---|--------------|-----------|---------------------------------|----------------|--------------------------|
|  | inventory_id | SERIAL    | unique identifier for inventory | Rental         | rental_inventory_id_fkey |
|  | film_id      | SMALLINT  | unique identifier for film      | Film           | inventory_film_id_fkey   |

|  | Column      | Data Type                       | Description  | Links to Table | Link Name |
|--|-------------|---------------------------------|--|----------------|-----------|
|  | store_id    | SMALLINT                        | unique identifier for store                                      |                |           |
|  | last_update | TIMESTAMP (6) WITHOUT TIME ZONE | date and time of the last update; does not include the time zone |                |           |



## Film Table

|   | Column           | Data Type                       | Description  | Links to Table                       | Link Name   |
|---|------------------|---------------------------------|--|--------------------------------------|---|
|    | film_id          | SERIAL                          | unique identifier for film   | Inventory, Film_category, film_actor | inventory_film_id_fkey, film_category_film_id_fkey, film_actor_film_id_fkey |
|   | title            | CHARACTER VARYING (255)         | title of the film  |                                      |   |
|   | description      | TEXT                            | description of the film  |                                      |   |
|   | release_year     | year                            | year the film was released   |                                      |   |
|  | language_id      | SMALLINT                        | unique identifier of the film language                               | Language                             | film_language_id_fkey   |
|   | rental_duration  | SMALLINT                        | duration (in days) of the rental of the film                         |                                      |   |
|   | rental_rate      | NUMERIC (4,2)                   | cost of renting the film   |                                      |   |
|   | length           | SMALLINT                        | duration (in minutes) of the film                                    |                                      |   |
|   | replacement_cost | NUMERIC (5,2)                   | cost of replacing the film   |                                      |   |
|   | rating           | mpaa_rating                     | rating of the film by the Motion Picture Association                 |                                      |   |
|   | last_update      | TIMESTAMP (6) WITHOUT TIME ZONE | date and time of the last update;                                    |                                      |   |
|   | special_features | TEXT []                         | the special features of the film (e.g., trailers, Behind the Scenes) |                                      |   |
|   | fulltext         | TSVECTOR                        | text organized in a for the text search optimized form               |                                      |   |


## Language Table

|   | Columns     | Data Type                       | Description  | Links to Table | Link Name             |
|---|-------------|---------------------------------|--|----------------|-----------------------|
|  | language_id | SERIAL                          | unique identifier of the film's language                         | Film           | film_language_id_fkey |
|   | name        | CHARACTER (20)                  | name of language (English etc.)                                  |                |                       |
|   | last_update | TIMESTAMP (6) WITHOUT TIME ZONE | date and time of the last update; does not include the time zone |                |                       |



## Film\_actor Table

|   | Columns     | Data Type                       | Description  | Links to Table | Link Name                |
|---|-------------|---------------------------------|--|----------------|--------------------------|
|  | actor_id    | SMALLINT                        | unique identifier for actor                                      | Actor          | film_actor_actor_id_fkey |
|  | film_id     | SMALLINT                        | unique identifier for film                                       | Film           | film_actor_film_id_fkey  |
|   | last_update | TIMESTAMP (6) WITHOUT TIME ZONE | date and time of the last update; does not include the time zone |                |                          |



## Actor Table

|   | Columns     | Data Type              | Description  | Links to Table | Link Name                |
|---|-------------|------------------------|--|----------------|--------------------------|
|  | actor_id    | SERIAL                 | unique identifier for actor                                      | Film_actor     | film_actor_actor_id_fkey |
|   | first_name  | CHARACTER VARYING (45) | first name of actor  |                |                          |
|   | last_name   | CHARACTER VARYING (45) | last name of actor   |                |                          |
|   | last_update | CHARACTER VARYING (45) | date and time of the last update; does not include the time zone |                |                          |

## Customer Table

|   | Columns     | Data Type                       | Description  | Links to Table  | Link Name   |
|---|-------------|---------------------------------|--|-----------------|---|
|  | customer_id | SERIAL                          | unique identifier for each customer                              | Rental, Payment | rental_customer_id_fkey, payment_customer_id_fkey |
|   | store_id    | SMALLINT                        | unique identifier for each store                                 |                 |   |
|   | first_name  | CHARACTER VARYING (45)          | first name of customer   |                 |   |
|   | last_name   | CHARACTER VARYING (45)          | last name of customer  |                 |   |
|   | email       | CHARACTER VARYING (50)          | email address of customer  |                 |   |
|  | address_id  | SMALLINT                        | unique identifier for address                                    | Address         | customer_address_id_fkey                          |
|   | activebool  | BOOLEAN                         | status whether the customer is active or not                     |                 |   |
|   | create_date | DATE                            | date the customer account was created                            |                 |   |
|   | last_update | TIMESTAMP (6) WITHOUT TIME ZONE | date and time of the last update; does not include the time zone |                 |   |
|   | active      | INTEGER                         | number (1 or 0)  |                 |   |




## Staff Table

|   | Columns    | Data Type              | Description                   | Links to Table         | Link Name  |
|---|------------|------------------------|-------------------------------|------------------------|--|
|  | staff_id   | SERIAL                 | unique identifier for staff   | Store, Rental, Payment | store_staff_id_fkey, rental_staff_id_fkey, payment_staff_id_fkey |
|   | first_name | CHARACTER VARYING (45) | first name of staff member    |                        |  |
|   | last_name  | CHARACTER VARYING (45) | last name of staff member     |                        |  |
|  | address_id | SMALLINT               | unique identifier for address | Address                | staff_address_id_fkey  |
|   | email      | CHARACTER VARYING (50) | email address of staff member |                        |  |





|  | Columns     | Data Type                       | Description   | Links to Table | Link Name |
|--|-------------|---------------------------------|---|----------------|-----------|
|  | store_id    | SMALLINT                        | unique identifier for store   |                |           |
|  | active      | BOOLEAN                         | status whether the staff member is active or not                        |                |           |
|  | username    | CHARACTER VARYING (16)          | username of the staff member for entering the company's internal system |                |           |
|  | password    | CHARACTER VARYING (40)          | password for entering the company's internal system                     |                |           |
|  | last_update | TIMESTAMP (6) WITHOUT TIME ZONE | date and time of the last update; does not include the time zone        |                |           |
|  | picture     | BYTEA                           | picture of the staff member   |                |           |

## Store Table



|   | Columns          | Data Type                       | Description  | Links to Table | Link Name             |
|---|------------------|---------------------------------|--|----------------|-----------------------|
|  | store_id         | SERIAL                          | unique identifier for store                                      |                |                       |
|  | manager_staff_id | SMALLINT                        | unique identifier for the manager staff                          | Staff          | store_staff_id_fkey   |
|  | address_id       | SMALLINT                        | unique identifier for store address                              | Address        | store_address_id_fkey |
|   | last_update      | TIMESTAMP (6) WITHOUT TIME ZONE | date and time of the last update; does not include the time zone |                |                       |

## Address Table


|   | Columns    | Data Type              | Description                   | Links to Table         | Link Name  |
|---|------------|------------------------|-------------------------------|------------------------|--|
|  | address_id | SERIAL                 | unique identifier for address | Store, Staff, Customer | store_address_id_fkey, staff_address_id_fkey, customer_address_id_fkey |
|   | address    | CHARACTER VARYING (50) | primary address               |                        |  |

|   | Columns     | Data Type                       | Description  | Links to Table | Link Name         |
|---|-------------|---------------------------------|--|----------------|-------------------|
|   | address2    | CHARACTER VARYING (50)          | secondary address  |                |                   |
|   | district    | CHARACTER VARYING (20)          | name of district (e.g., state, city or country)                  |                |                   |
|  | city_id     | SMALLINT                        | unique identifier for city                                       | City           | city_city_id_fkey |
|   | postal_code | CHARACTER VARYING (10)          | postal code  |                |                   |
|   | phone       | CHARACTER VARYING (20)          | phone number   |                |                   |
|   | last_update | TIMESTAMP (6) WITHOUT TIME ZONE | date and time of the last update; does not include the time zone |                |                   |

## City Table

|   | Columns     | Data Type                       | Description  | Links to Table | Link Name               |
|---|-------------|---------------------------------|--|----------------|-------------------------|
|  | city_id     | SERIAL                          | unique identifier for city                                       | Address        | address_city_id_fkey    |
|   | city        | CHARACTER VARYING (50)          | name of city   |                |                         |
|  | country_id  | SMALLINT                        | unique identifier for country                                    | Country        | country_country_id_fkey |
|   | last_update | TIMESTAMP (6) WITHOUT TIME ZONE | date and time of the last update; does not include the time zone |                |                         |

## Country Table

|   | Columns     | Data Type                       | Description  | Links to Table | Link Name            |
|---|-------------|---------------------------------|--|----------------|----------------------|
|  | country_id  | SERIAL                          | unique identifier for country                                    | City           | city_country_id_fkey |
|   | country     | CHARACTER VARYING (50)          | name of country  |                |                      |
|   | last_update | TIMESTAMP (6) WITHOUT TIME ZONE | date and time of the last update; does not include the time zone |                |                      |