# DATA DICTIONARY

RockbusterStealthLLC

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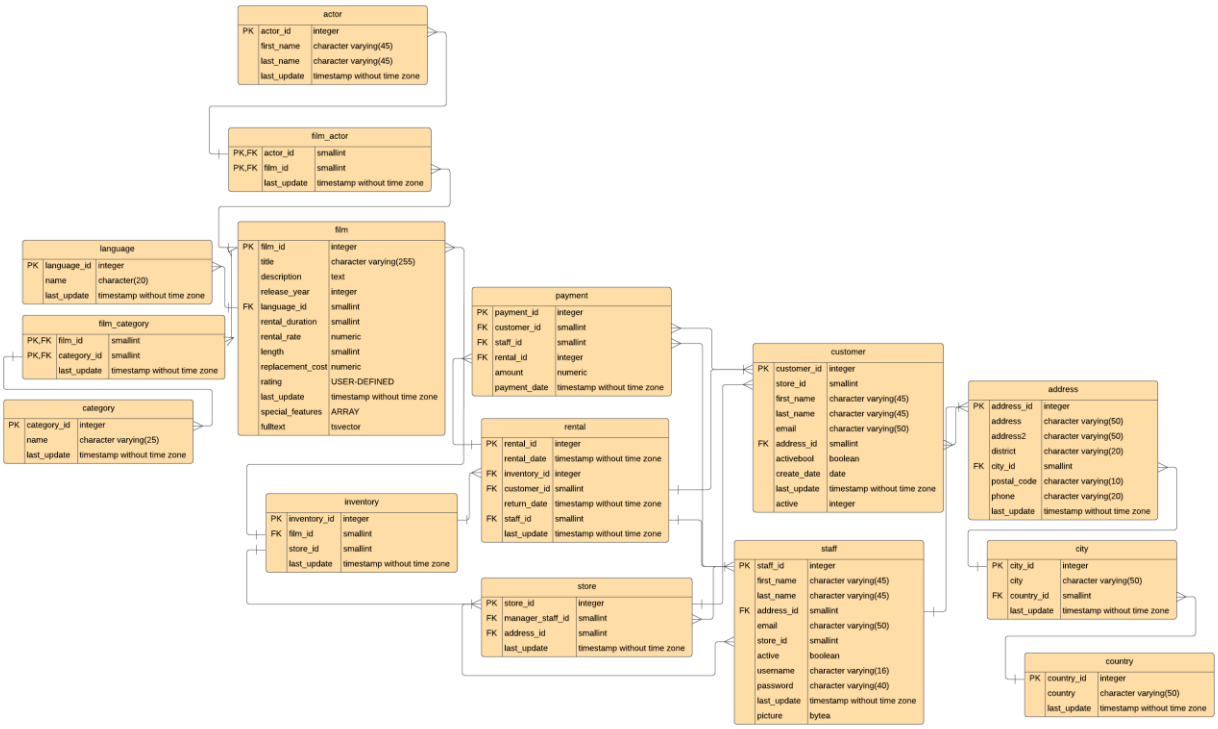
# Entities Relationship Diagram



# Tables

**Legend note:**

- With highlight is the primary key of the table.
- With highlight is the foreign key of the table.

**Table: rental**

Film rental information

| Columns | Data Type | Description |
|---|---|---|
| rental_id | integer | Primary key of rental table. |
| rental_date | timestamp without time zone | The date last time to rent out. |
| inventory_id | integer | An id refers to inventory table. |
| customer_id | smallint | The customer rent the film |
| return_date | timestamp without time zone | The date last time to return. |
| staff_id | smallint | The staff who in charge this rental |
| last_update | timestamp without time zone | The last time to input the updated info. |

**Table: payment**

Film rental payment information that connects customers and payment

| Cloumns | Data Type | Description |
|---|---|---|
| payment_id | integer | Primary key of payment table |
| customer_id | smallint | The customer who made the payment. |
| staff_id | smallint | The staff who handle the transaction |
| rental_id | integer | The rental record relates to this payment |
| amount | numeric | The sales made from this rental |
| payment date | timestamp without time zone | The date customer made the payment |

**Table: inventory**

Films inventory information for film and store

| Columns | Data Type | Description |
|---|---|---|
| inventory_id | integer | Primary key of inventory table. |
| film_id | smallint | An id refers to the film table. |
| store_id | smallint | An id refers to the store. |
| last_update | timestamp without time zone | The last time to input updated info. |

**Table: customer**

Customers information such as name, address, email, register store, active status.

| Columns | Data Type | Description |
|---|---|---|
| customer_id | integer | Customer rent the film (primary key) |
| store_id | smallint | The store that customer rent the film |
| first_name | character varying (45) | Customer first name |
| last_name | character varying (45) | Customer last name |
| email | character varying (50) | Customer email |
| address_id | smallint | Customer address |
| activebool | boolean | If customer active with film rental |
| create_date | date | The date customer joined membership |
| last_update | timestamp without time zone | The last time of updating the info |
| active | integer | The condition of customer account |

**Table: staff**

Staffs' information such as name, address, email, store, picture.

| Columns | Data Type | Description |
|---|---|---|
| staff_id | integer | The primary key in staff table |
| store_id | smallint | The store this staff work at |
| first_name | character varying (45) | Staff first name |
| last_name | character varying (45) | Staff last name |
| email | character varying (50) | Staff email |
| address_id | smallint | Staff address |
| active | boolean | If the staff is working |
| username | character varying (16) | Staff username in the database |
| password | character varying (40) | Staff password in the database |
| last_update | timestamp without time zone | The last time of updating the info |
| picture | bytea | The picture of the staff |

**Table: address**

Address information for customers, employees, stores.

| Columns | Data Type | Description |
|---|---|---|
| address_id | integer | Customer address id |
| address | character varying (50) | Customer address |
| address2 | character varying (50) | Customer address |
| district | character varying (20) | The district customer address locates |
| city_id | smallint | The city customer live |
| postal_code | character varying (10) | The postal code of the customer address |
| phone | character varying (20) | Customer phone number |
| last_update | timestamp without time zone | The last time of updating the info |

**Table: city**

City information for customers and connect customers and country code.

| Columns | Data Type | Description |
|---|---|---|
| city_id | integer | The city id |
| city | character varying (50) | The name of the city |
| country_id | smallint | The country of the city locates |
| last_update | timestamp without time zone | The last time of updating the info |

**Table: country**

Country information to contain country name and country code.

| Columns | Data Type | Description |
|---|---|---|
| country_id | integer | The country id |
| country | character varying (50) | The name of the country |
| last_update | timestamp without time zone | The last time of updating the info. |

**Table: store**

Store information with store manager and employees, store address.

| Columns | Data Type | Description |
|---|---|---|
| store_id | integer | The store id |
| manger_staff_id | smallint | The manager and staff id |
| address_id | smallint | The store address |
| last_update | timestamp without time zone | The last time of updating the info |

**Table: film**

Films information such as title, description, length, rating, release year.

| Columns | Data Type | Description |
|---|---|---|
| film_id | integer | The film id |
| tittle | character varying (255) | The title of the film |
| description | text | The description of the film |
| release_year | integer | The release year of the film |
| language_id | smallint | The language of the film |
| rental_duration | smallint | The rental duration of customer |
| rental_rate | numeric | The rental rate of the film |
| length | smallint | The length of the film |
| replacement_cost | numeric | The cost of the film |
| rating | user-defined | The rating if the film from customer |
| last_update | timestamp without time zone | The last time of updating the info |
| special_features | array | Features of the film |
| fulltext | tsvector | The key words of the film |

**Table: film_actor**

Transition table to connect actor and film.

| Columns | Data Type | Description |
|---|---|---|
| actor_id | smallint | The actor id of Rockbuster |
| film_id | smallint | The film id of Rockbuster |
| last_update | timestamp without time zone | The last time of updating the info |

**Table: film_category**

Transition table to connect film and film category.

| Columns | Data Type | Description |
|---|---|---|
| film_id | smallint | The film id of Rockbuster |
| category_id | smallint | The category id of Rockbuster |
| last_update | timestamp without time zone | The last time of updating the info |

**Table: language**

Language information of films.

| Columns | Data Type | Description |
|---|---|---|
| language_id | integer | The language id of Rockbuster |
| name | character varying (20) | The name of the language |
| last_update | timestamp without time zone | The last time of updating the info |

**Table: actor**

Actor information of films.

| Columns | Data Type | Description |
|---|---|---|
| actor_id | integer | The actor id of Rockbuster |
| first_name | character varying (45) | The first name of the actor |
| last_name | character varying (45) | The last name of the actor |
| last_update | timestamp without time zone | The last time of updating the info |

**Table: category**

Film category information.

| Columns | Data Type | Description |
|---|---|---|
| category_id | integer | The category id of Rockbuster |
| name | character varying (2) | The name of the genres |
| last_update | timestamp without time zone | The last time of updating the info |