# Rockbuster Stealth

Data Dictionary

# Table of Contents

# Entity-Relationship Diagram



# Tables

## Payment

| Columns | Data Type | Description |
|---------|-----------|-------------|
| Payment_id | SERIAL | Unique number for the transaction |
| Customer_id | SMALLINT | Unique number for the customer |
| Staff_id | SMALLINT | Unique number for the staff member involved in transaction |
| Rental_id | INTEGER | Unique number for the rental |
| Amount | NUMERIC(5,2) | Money exchanged in transaction |
| Payment_date | TIMESTAMP(6) WITHOUT TIME ZONE | When the transaction took place |

## Linked From

| Table | Join |
|---|---|
| Customer | payment.customer_id=customer.customer_id |
| Rental | payment.rental_id=rental.rental_id |
| Staff | payment.staff_id=staff.staff_id |

## Unique Keys

| Columns | Primary Key |
|---|---|
| payment_id | PK |
| customer_id | |
| rental_id | |
| staff_id | |

## Rental

| Columns | Data Type | Description |
|---|---|---|
| Rental_id | SERIAL | Unique number for the rental |
| Rental_date | TIMESTAMP(6) WITHOUT TIME ZONE | When the rental took place |
| Inventory_id | INTEGER | Unique number for the movie in the inventory |
| Customer_id | SMALLINT | Unique number for the customer |
| Return_date | TIMESTAMP(6) WITHOUT TIME ZONE | Date the rental was returned |
| Staff_id | SMALLINT | Unique number for the staff member involved in transaction |
| Last_update | TIMESTAMP(6) WITHOUT TIME ZONE | The last time rental info for this movie was updated |

## Links To

| Table | Join |
|---|---|
| payment | payment.rental_id=rental.rental_id |

## Linked From

| Table | Join |
|---|---|
| Inventory | rental.inventory_id=inventory.inventory_id |
| Customer | rental.customer_id=customer.customer_id |
| Staff | rental.staff_id=staff.staff_id |

## Unique Keys

| Columns | Primary Key |
|---|---|
| rental_id | PK |
| inventory_id | |
| customer_id | |
| staff_id | |

## Customer

| Columns | Data Type | Description |
|---|---|---|
| Customer_id | SERIAL | Unique number for the customer |
| Store_id | SMALLINT | Unique number for the store |
| 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_id | SMALLINT | Unique number for the store address |
| Activebool | BOOLEAN | Is this an active customer? Using Tue/False |
| Create_date | DATE | When customer made their first purchase and their id created |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time customer info was updated |
| Active | INTEGER | Is this an active customer? Using 1's and 0's |

## Links To

| Table | Join |
|---|---|
| Payment | payment.customer_id=customer.customer_id |
| Rental | rental.customer_id=customer.customer_id |

## Linked From

| Table | Join |
|---|---|
| Address | customer.address_id=address.address_id |

## Unique Keys

| Columns | Primary Key |
|---|---|
| customer_id | PK |
| store_id | |
| address_id | |

## Staff

| Columns | Data Type | Description |
|---|---|---|
| Staff_id | SERIAL | Unique number for the staff member |
| First_name | CHARACTER VARYING(45) | Staff member first name |
| Last_name | CHARACTER VARYING(45) | Staff member last name |
| Address_id | SMALLINT | Unique number for the store address |
| Email | CHARACTER VARYING(50) | Staff member email |
| Store_id | SMALLINT | Unique number for the store |
| Active | BOOLEAN | Staff member still active? |
| Username | CHARACTER VARYING(16) | Staff member username |
| Password | CHARACTER VARYING(40) | Staff member password |

| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time staff member info was updated |
|---|---|---|
| Picture | BYTEA | Staff member picture |

## Links To

| Table | Join |
|---|---|
| Payment | payment.staff_id=staff.staff_id |
| Rental | rental.staff_id=staff.staff_id |

## Linked From

| Table | Join |
|---|---|
| Address | staff.address_id=address.address_id |
| Store | staff.store_id=store.store_id |

## Unique Keys

| Columns | Primary Key |
|---|---|
| staff_id | PK |
| address_id | |
| store_id | |

## Inventory

| Columns | Data Type | Description |
|---|---|---|
| Inventory_id | SERIAL | Unique number for the movie in the inventory |
| Film_id | SMALLINT | Unique number for the film |
| Store_id | SMALLINT | Unique number for the store |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time inventory info was updated |

## Links To

| Table | Join |
|-------|------|
| Rental | rental.inventory_id=inventory.inventory_id |

## Linked From

| Table | Join |
|-------|------|
| Film | inventory.film_id=film.film_id |

## Unique Keys

| Columns | Primary Key |
|---------|-------------|
| inventory_id | PK |
| film_id | |
| store_id | |

## Film Actor

| Columns | Data Type | Description |
|---------|-----------|-------------|
| Actor_id | SMALLINT | Unique number for the film actor |
| Film_id | SMALLINT | Unique number for the film |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time film-actor info was updated |

## Linked From

| Table | Join |
|-------|------|
| Actor | film_actor.actor_id=actor.actor_id |
| Film | film_actor.film_id=film.film_id |

## Unique Keys

| Columns | Primary Key |
|---------|-------------|
| actor_id | PK |
| film_id | |

## Actor

| Columns | Data Type | Description |
|---------|-----------|-------------|
| Actor_id | SERIAL | Unique number for the film actor |
| First_name | CHARACTER VARYING(45) | Film actor first name |
| Last_name | CHARACTER VARYING(45) | Film actor last name |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time actor info was updated |

## Links To

| Table | Join |
|-------|------|
| Film Actor | film_actor.actor_id=actor.actor_id |

## Unique Keys

| Columns | Primary Key |
|---------|-------------|
| actor_id | PK |

## Film

| Columns | Data Type | Description |
|---------|-----------|-------------|
| Film_id | SERIAL | Unique number for the film |

| | | |
|---|---|---|
| Title | CHARACTER VARYING(255) | Film title |
| Description | TEXT | Film description |
| Release_year | YEAR | Year film was released |
| Language_id | SMALLINT | Unique number for the language film |
| Rental_duration | SMALLINT | How many days the film was rented for |
| Rental_rate | NUMERIC(4,2) | The rate the movie is rented for |
| Length | SMALLINT | How many minutes the film is in length |
| Replacement_cost | NUMERIC(5,2) | How much it would cost to replace the film |
| Rating | MPAA_RATING | Family rating (PG, PG-13, R, etc.) |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time film info was updated |
| Special_features | TEXT[] | Included features like deleted scenes, trailers, etc. |
| Fulltext | TSVECTOR | Words associated with the film? |

## Links To

| 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 |

## Linked From

| Table | Join |
|---|---|
| Language | film.language_id=language.language_id |

## Unique Keys

| Columns | Primary Key |
|---|---|
| film_id | PK |
| language_id | |

## Language

| Columns | Data Type | Description |
|---|---|---|
| Language_id | SERIAL | Unique number for the language film |
| Name | CHARACTER(20) | Name of the language |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time film language info was updated |

### Links To

| Table | Join |
|---|---|
| Film | film.language_id=language.language_id |

### Unique Keys

| Columns | Primary Key |
|---|---|
| language_id | |

## Category

| Columns | Data Type | Description |
|---|---|---|
| Category_id | SERIAL | Unique number for film category |
| Name | CHARACTER VARYING(25) | Category name |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time category info was updated |

## Links To

| Table | Join |
|---|---|
| Film Category | film_category.category_id=category.category_id |

## Unique Keys

| Columns | Primary Key |
|---|---|
| category_id | |

## Film Category

| Columns | Data Type | Description |
|---|---|---|
| Film_id | SMALLINT | Unique number for the film |
| Category_id | SMALLINT | Unique number for film category |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time film-category info was updated |

## Linked From

| Table | Join |
|---|---|
| Category | film_category.category_id=category.category_id |
| Film | film_category.film_id=film.film_id |

## Unique Keys

| Columns | Primary Key |
|---|---|
| film_id | |
| category_id | |

## Store

| Columns | Data Type | Description |
|---|---|---|
| Store_id | SERIAL | Unique number for the store |

| | | |
|---|---|---|
| Manager_staff_id | SMALLINT | Unique number for manager of staff |
| Address_id | SMALLINT | Unique number for the store address |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time store info was updated |

## Links To

| Table | Join |
|---|---|
| Staff | staff.store_id=store.store_id |

## Linked From

| Table | Join |
|---|---|
| Address | store.address_id=address.address_id |

## Unique Keys

| Columns | Primary Key |
|---|---|
| store_id | PK |
| manager_staff_id | |
| address_id | |

## Address

| Columns | Data Type | Description |
|---|---|---|
| Address_id | SERIAL | Unique number for the store address |
| Address | CHARACTER VARYING(50) | Store address |
| Address2 | CHARACTER VARYING(50) | Store address, second line |
| District | CHARACTER VARYING(20) | Store district |

| | | |
|---|---|---|
| City_id | SMALLINT | Unique number for store city |
| Postal_code | CHARACTER VARYING(10) | Postal code |
| Phone | C | Store phone number |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time store address info was updated |

## Links To

| Table | Join |
|---|---|
| Customer | customer.address_id=address.address_id |
| Staff | staff.address_id=address.address_id |
| Store | store.address_id=address.address_id |

## Linked From

| Table | Join |
|---|---|
| City | address.city_id=city.city_id |

## Unique Keys

| Columns | Primary Key |
|---|---|
| address_id | PK |
| city_id | |

## City

| Columns | Data Type | Description |
|---|---|---|
| City_id | SERIAL | Unique number for store city |
| City | CHARACTER VARYING(50) | Store city |
| Country_id | SMALLINT | Unique number for store's country |

| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time store's city info was updated |
|---|---|---|

## Links To

| Table | Join |
|---|---|
| Address | address.city_id=city.city_id |

## Linked From

| Table | Join |
|---|---|
| Country | city.country_id=country.country_id |

## Unique Keys

| Columns | Primary Key |
|---|---|
| city_id | PK |
| country_id | |

## Country

| Columns | Data Type | Description |
|---|---|---|
| Country_id | SERIAL | Unique number for store's country |
| Country | CHARACTER VARYING(50) | Country of the store |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time store's country info was updated |

## Links To

| Table | Join |
|---|---|
| City | city.country_id=country.country_id |

## Unique Keys

| Columns | Primary Key |
|---|---|
| country_id | PK |