

Rockbuster Stealth LLC

Data Dictionary

A series of several thin, white, parallel lines that originate from the bottom left and extend diagonally towards the top right corner of the slide.

04/11/2024

TABLE OF CONTENTS

| | | |
|------|------------------------------|----|
| 1 | Rockbuster Database ERD..... | 2 |
| 2 | Fact tables | 3 |
| 2.1 | Rental..... | 3 |
| 2.2 | Payment..... | 4 |
| 3 | Dimension tables..... | 5 |
| 3.1 | Customer | 5 |
| 3.2 | Staff | 6 |
| 3.3 | Store..... | 7 |
| 3.4 | Adress..... | 7 |
| 3.5 | City..... | 8 |
| 3.6 | Country..... | 9 |
| 3.7 | Film_Category | 9 |
| 3.8 | Category | 10 |
| 3.9 | Inventory..... | 10 |
| 3.10 | Film..... | 11 |
| 3.11 | Language..... | 12 |
| 3.12 | Film_actor | 12 |
| 3.13 | Actor..... | 13 |

1 Rockbuster Database ERD



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2 Fact tables

2.1 Rental

TABLE

| Key | Column | Data Type | Description |
|----------------|--------------|------------------------------|---|
| Primary | Rental_id | Serial | Unique identifier for each rental transaction |
| | Rental_date | Timestamp(6)without timezone | Data of rental occurred |
| Foreign | Inventory_id | Integer | Unique identifier for inventory |
| Foreign | Customer_id | Smallint | Unique identifier for customer |
| | Return_date | Timestamp(6)without timezone | Date of item be returned |
| Foreign | Staff_id | Smallint | Unique identifier for staff |
| | Last_update | Timestamp(6)without timezone | Date and time of record last updated |

LINKS TO

| | Table | Join |
|---|-----------|--|
| ➔ | inventory | inventory.inventory_id = rental.inventory_id |
| ➔ | customer | customer.customer_id = rental.customer_id |
| ➔ | staff | staff.staff_id = rental.staff_id |

LINKED FROM

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

2.2 Payment

TABLE

| | Column | Data Type | Description |
|----------------|--------------|------------------------------|-------------------------------------|
| Primary | Payment_id | Serial | Unique identifier of a payment |
| Foreign | Customer_id | Smallint | Unique identifier of a customer |
| Foreign | Staff_id | Smallint | Unique identifier of a staff member |
| Foreign | Rental_id | Integer | Unique identifier of a rental |
| | Amount | Numeric(5,2) | Price of the rental |
| | Payment_date | Timestamp(6)without timezone | Date of the payment |

LINKS TO

| | Table | Join |
|---|----------|--|
| ➔ | rental | rental.rental_id = payment.rental_id |
| ➔ | customer | customer.customer_id = payment.customer_id |
| ➔ | staff | staff.staff_id = payment.staff_id |

3 Dimension tables

3.1 Customer

TABLE

| Key | Column | Data Type | Description |
|---------|-------------|------------------------------|--------------------------------------|
| Primary | Customer_id | Serial | Unique identifier of a customer |
| | Store_id | Smallint | Unique identifier of a store |
| | First_name | Character Varying(45) | First name of the customer |
| | Last_name | Character Varying(45) | Last name of the customer |
| | Email | Character Varying(50) | Email of the customer |
| Foreign | Adress_id | Smallint | Adress of the customer |
| | Activebool | Boolyan | Active or not |
| | Create_date | Date | Data of being created |
| | Last_update | Timestamp(6)without timezone | Date and time of record last updated |
| | Active | Integer | Active or not |

LINKS TO

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

LINKED FROM

| | Table | Join |
|---|--------|---|
| ➔ | Rental | rental.customer_id = customer.customer_id |

3.2 Staff

TABLE

| Key | Column | Data Type | 64 |
|---------|-------------|------------------------------|--------------------------------------|
| Primary | Staff_id | Serial | Unique identifier of a staff |
| | Store_id | Smallint | Unique identifier of a store |
| | First_name | Character Varying(45) | First name of the staff |
| | Last_name | Character Varying(45) | Last name of the staff |
| | Email | Character Varying(50) | Email of the staff |
| Foreign | Adress_id | Smallint | Adress of the staff |
| | Active | Boolean | Active or not |
| | User_name | Character Varying(16) | User_name of the staff |
| | Password | Character Varying(40) | Password of the staff |
| | Last_update | Timestamp(6)without timezone | Date and time of record last updated |
| | Picture | Bytea | Photo of the staff |

LINKS TO

| | Table | Join |
|---|---------|---------------------------------------|
| ➔ | Address | address.address_id = staff.address_id |

LINKED FROM

| | Table | Join |
|---|---------|---|
| ⬅ | Rental | rental.staff_id = staff.staff_id |
| ⬅ | payment | payment.staff_id = staff.staff_id |
| ⬅ | store | store.manager_staff_id = staff.staff_id |

3.3 Store

TABLE

| Key | Column | Data Type | Description |
|---------|------------------|--------------------------------|--|
| Primary | Store_id | Serial | Unique identifier of a store |
| Foreign | Manager_staff_id | Smallint | Unique identifier of the store manager |
| Foreign | Address_id | Smallint | Address of the store |
| | Last_update | Timestamp(6) without time zone | Date and time of record last updated |

LINKS TO

| | Table | Join |
|---|---------|---|
| ➔ | Address | address.address_id = store.address_id |
| ➔ | Staff | staff.staff_id = store.manager_staff_id |

3.4 Address

TABLE

| Key | Column | Data Type | Description |
|---------|-------------|-----------------------|---------------------------------|
| Primary | Address_id | Serial | Unique identifier of an address |
| | Address | Character Varying(50) | Address details |
| | Address2 | Character Varying(50) | Extra address details |
| | District | Character Varying(20) | Name of the district |
| Foreign | City_id | Smallint | Unique identifier of a city |
| | Postal_code | Character Varying(10) | Postal code details |

| | | | |
|--|-------------|------------------------------|--------------------------------------|
| | Phone | Character Varying(20) | Postal code details |
| | Last_update | Timestamp(6)without timezone | Date and time of record last updated |

LINKS TO

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

LINKED FROM

| | Table | Join |
|---|----------|--|
| ← | customer | customer.address_id = address.address_id |
| ← | staff | staff.address_id = address.address_id |
| ← | store | store.address_id = address.address_id |

3.5 City

TABLE

| Key | Column | Data Type | Description |
|----------------|-------------|------------------------------|--------------------------------------|
| Primary | City_id | Serial | Unique identifier of a city |
| | City | Character Varying(50) | Name of the city |
| Foreign | Country_id | Smallint | Unique identifier of a country |
| | Last_update | Timestamp(6)without timezone | Date and time of record last updated |

LINKS TO

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

LINKED FROM

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

3.6 Country

TABLE

| Key | Column | Data Type | Description |
|---------|-------------|------------------------------|--------------------------------------|
| Primary | Country_id | Serial | Unique identifier of a country |
| | Country | Character Varying(50) | Name of the country |
| | Last_update | Timestamp(6)without timezone | Date and time of record last updated |

LINKED FROM

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

3.7 Film_Category

TABLE

| Key | Column | Data Type | Description |
|---------|-------------|------------------------------|--------------------------------------|
| Foreign | Film_id | Smallint | Unique identifier of a film |
| Foreign | Category_id | Smallint | Unique identifier of a category |
| | Last_update | Timestamp(6)without timezone | Date and time of record last updated |

LINKS TO

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

| | | |
|---|------|--------------------------------------|
| → | Film | film.film_id = film_category.film_id |
|---|------|--------------------------------------|

3.8 Category

TABLE

| Key | Column | Data Type | Description |
|---------|-------------|------------------------|--------------------------------------|
| Primary | Category_id | Serial | Unique identifier of a category |
| | Name | Character Varying (25) | Name of the category |
| | Last_update | Character Varying (25) | Date and time of record last updated |

LINKED FROM

| | Table | Join |
|---|---------------|--|
| ← | film_category | film_category.category_id = category.category_id |

3.9 Inventory

TABLE

| Key | Column | Data Type | Description |
|---------|--------------|------------------------------|--------------------------------------|
| Primary | Inventory_id | Serial | Unique identifier of an inventory |
| Foreign | Film_id | Smallint | Unique identifier of a film |
| | Store_id | Smallint | Unique identifier of a store |
| | Last_update | Timestamp(6)without timezone | Date and time of record last updated |

LINKS TO

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

LINKED FROM

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

3.10 Film

TABLE

| | Column | Data Type | Description |
|----------------|------------------|------------------------------|--------------------------------------|
| Primary | Film_id | Serial | Unique identifier of a film |
| | Title | Character Varying(255) | Title of the movie |
| | Description | TEXT | Description of the movie |
| | Release_year | Year | Year that the movie came out |
| Foreign | Language_id | Smallint | Unique identifier of the language |
| | Rental_duration | Smallint | How long the movie has been rented |
| | Rental_rate | Numeric(4,2) | Data of rental occurred |
| | Length | Smallint | Duration of the movie |
| | Replacement_cost | Numeric(5,2) | Costs to replace the rental movie |
| | Rating | Mpaa_rating | Which age groups can watch the movie |
| | Last_update | Timestamp(6)without timezone | Date and time of record last updated |
| | Special_features | Text[] | Special features of the movie |
| | Fulltext | TSVECTOR | Text of the movie |

LINKS TO

| | Table | Join |
|--|-------|------|
|--|-------|------|

| | | |
|---|----------|---|
| ➔ | language | language.language_id = film.language_id |
|---|----------|---|

LINKED FROM

| | Table | Join |
|---|---------------|--------------------------------------|
| ← | inventory | inventory.film_id = film.film_id |
| ← | film_category | film_category.film_id = film.film_id |
| ← | film_actor | film_actor.film_id = film.film_id |

3.11 Language

TABLE

| Key | Column | Data Type | Description |
|---------|-------------|------------------------------|--------------------------------------|
| Primary | Language_id | Serial | Unique identifier of the language |
| | Name | Character (20) | Name of the language |
| | Last_update | Timestamp(6)without timezone | Date and time of record last updated |

LINKED FROM

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

3.12 Film_actor

TABLE

| Key | Column | Data Type | Description |
|---------|-------------|------------------------------|--------------------------------------|
| Foreign | Actor_id | Smallint | Unique identifier of the actor |
| Foreign | Film_id | Smallint | Unique identifier of the film |
| | Last_update | Timestamp(6)without timezone | Date and time of record last updated |

LINKS TO

| | Table | Join |
|---|-------|--------------------------------------|
| ➔ | Film | film.film_id = Film_actor.film_id |
| ➔ | actor | actor.actor_id = Film_actor.actor_id |

3.13 Actor

TABLE

| Key | Column | Data Type | Description |
|---------|-------------|------------------------------|--------------------------------------|
| Primary | Actor_id | Serial | Unique identifier of the actor |
| | First_name | Character Varying(45) | First name of the actor |
| | Last_name | Character Varying(45) | Last name of the actor |
| | Last_update | Timestamp(6)without timezone | Date and time of record last updated |

LINKED FROM

| | Table | Join |
|---|------------|--------------------------------------|
| ← | film_actor | film_actor.actor_id = actor.actor_id |