Rockbuster Stealth Data Analysis

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1. **Rockbuster Stealth LLC**

Rocbuster Stealth LLC is a movie rental company that used to have stores around the world. Facing stiff competition from streaming services such as Netflix and Amazon Prime, the Rockbuster Stealth management team is planning to use its existing movie licenses to launch an online video rental service in order to stay competitive.

Legends

🔑 Primary key

🔑 Foreign key

🔑 Composite key

Links to

Linked from

1. **Entity Relationship Diagram**

Table

Description automatically generated with medium confidence

3.Tables

3.1 Actor

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Column** | **Date Type** | **Description** |
| 🔑 | actor\_id | SERIAL | Number given to actors |
|  | first\_name | CHARACTER VARYING(45) | First name of actor |
|  | last\_name | CHARACTER VARYING(45) | Last name of actor |
|  | last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Date/Time of last entry |

Linked From

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Description |
|  | film\_actor | film\_actor.actor\_id = actor.actor\_id | Foreign key constraint referencing  actor.actor\_id |

3.2 Address

|  |  |  |  |
| --- | --- | --- | --- |
| **key** | **Column** | **Date Type** | **Description** |
| 🔑 | address\_id | SERIAL | Number given to address |
|  | address | CHARACTER VARYING(50) | First line of address |
|  | address2 | CHARACTER VARYING(50) | Second line of address |
|  | district | CHARACTER VARYING(20) | District name |
| 🔑 | city\_id | SMALLINT | Number given to city |
|  | postal\_code | CHARACTER VARYING(10) | Postal code |
|  | phone | CHARACTER VARYING(20) | Phone number |
|  | last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Date/Time of last entry |

Linked From

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Description |
|  | customer | customer.address\_id = address.address \_id | Foreign key constraint referencing  address.address \_id |
|  | staff | staff.address\_id = address.address \_id | Foreign key constraint referencing  address.address \_id |
|  | store | store.address\_id = address.address \_id | Foreign key constraint referencing  address.address \_id |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Description |
|  | city | address.city \_id = city.city \_id | Foreign key constraint referencing  city.city \_id |

3.3 Category

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Column** | **Date Type** | **Description** |
| 🔑 | category\_id | SERIAL | Number given to category |
|  | name | CHARACTER VARYING(20) | Category name |
|  | last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Date/Time of last entry |

Linked From

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Description |
|  | film\_category | film\_category. category \_id = category.category\_id | Foreign key constraint referencing  category. category \_id |

3.4 City

|  |  |  |  |
| --- | --- | --- | --- |
| **key** | **Column** | **Date Type** | **Description** |
| 🔑 | city\_id | SERIAL | Number given to city |
|  | city | CHARACTER VARYING(50) | City name |
| 🔑 | country\_id | SMALLINT | Number given to country |
|  | last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Date/Time of last entry |

Linked From

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Description |
|  | address | address.city\_id = city.city\_id | Foreign key constraint referencing  city.city\_id |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Description |
|  | country | city.country \_id =country.country \_id | Foreign key constraint referencing  country.country\_id |

3.5 Country

|  |  |  |  |
| --- | --- | --- | --- |
| **key** | **Column** | **Date Type** | **Description** |
| 🔑 | country\_id | SERIAL | Number given to country |
|  | country | CHARACTER VARYING(50) | Country name |
|  | last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Date/Time of last entry |

Linked From

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Description |
|  | city | city.country\_id = country.country\_id | Foreign key constraint referencing  country.country\_id |

3.6 Customer

|  |  |  |  |
| --- | --- | --- | --- |
| **key** | **Column** | **Date Type** | **Description** |
| 🔑 | customer\_id | SERIAL | Number given to customer |
| 🔑 | store\_id | SMALLINT | Number given to store |
|  | first\_name | CHARACTER VARYING(50) | First name of customer |
|  | last\_name | CHARACTER VARYING(50) | Last name of customer |
|  | email | CHARACTER VARYING(50) | Mail id of customer |
| 🔑 | address\_id | SMALLINT | Number given to address |
|  | activebool | BOOLEAN | Whether the customer is active or not? |
|  | create\_date | DATE | Date when the entry is created |
|  | active | INTEGER | Whether the customer is active or not? |
|  | last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Date/Time of last entry |

Linked From

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Description |
|  | payment | payment.customer\_id = customer .customer\_id | Foreign key constraint referencing  customer .customer\_id |
|  | rental | rental.customer\_id = customer .customer\_id | Foreign key constraint referencing  customer .customer\_id |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Description |
|  | address | customer.address\_id =address.address \_id | Foreign key constraint referencing  address.address \_id |

3.7 Film

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **key** | **Column** | | **Date Type** | **Description** | |
| 🔑 | film\_id | | SERIAL | Number given to | |
|  | title | | CHARACTER VARYING(25) | Title of the film | |
|  | description | | TEXT | Description about the film | |
|  | release\_year | | YEAR | Year when film is released | |
| 🔑 | language\_id | | SMALLINT | Number given to language | |
|  | rental\_duration | | SMALLINT | How many days film is rented by customer | |
|  | rental\_rate | | NUMERIC(4,2) | Price of film | |
|  | length | SMALLINT | | | Length of film |
|  | replacement\_cost | NUMERIC(5,2) | | | Cost of replacement |
|  | rating | MPAA RATING | | | Film rating |
|  | last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | | | Date/Time of last entry |
|  | special\_features | TEXT()\_ | | | Special features |
|  | fulltext | TSVECTOR | | | Text describing the film |

Linked From

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Description |
|  | film\_category | film\_category.film \_id = film..film \_id | Foreign key constraint referencing  film..film \_id |
|  | film\_actor | film\_actor.film \_id = film..film \_id | Foreign key constraint referencing  film..film \_id |
|  | inventory | inventory.film \_id = film..film \_id | Foreign key constraint referencing  film..film \_id |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Description |
|  | language | film.language\_id =language.language\_id | Foreign key constraint referencing  language.language\_id |

3.8 Film actor

|  |  |  |  |
| --- | --- | --- | --- |
| **key** | **Column** | **Date Type** | **Description** |
| 🔑 | actor-id | SMALLINT | Number given to actor |
| 🔑 | film\_id | SMALLINT | Number given to film |
|  | last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Date/Time of last entry |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Description |
|  | actor | film.actor.actor \_id = actor.actor \_id | Foreign key constraint referencing  actor.actor \_id |
|  | film | film.actor.film \_id = film.film\_id | Foreign key constraint referencing  film.film\_id |

3.9 Film category

|  |  |  |  |
| --- | --- | --- | --- |
| **key** | **Column** | **Date Type** | **Description** |
| 🔑 | film\_id | SMALLINT | Number given to film |
| 🔑 | category\_id | SMALLINT | Number given to category of film |
|  | last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Date/Time of last entry |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Description |
|  | category | film.category. category\_id = category. category \_id | Foreign key constraint referencing  category. category\_id |
|  | film | film.category.film \_id = film.film\_id | Foreign key constraint referencing  film.film\_id |

3.10 Inventory

|  |  |  |  |
| --- | --- | --- | --- |
| **key** | **Column** | **Date Type** | **Description** |
| 🔑 | inventory\_id | SERIAL | Number given to inventory |
| 🔑 | film\_id | SMALLINT | Number given to film |
|  | store\_id | SMALLINT | Number given to store |
|  | last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Date/Time of last entry |

Linked From

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Description |
|  | rental | rental.inventory\_id = inventory. inventory\_ id | Foreign key constraint referencing  inventory. inventory\_ id |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Description |
|  | film | inventory .film\_id =film.film \_id | Foreign key constraint referencing  film.film \_id |

3.11 Language

|  |  |  |  |
| --- | --- | --- | --- |
| **key** | **Column** | **Date Type** | **Description** |
| 🔑 | language\_id | SERIAL | Number given to language |
|  | name | CHARACTERVARYING(20) | Name of the language |
|  | last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Date/Time of last entry |

Linked From

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Description |
|  | film | film.language\_id = language. language \_id | Foreign key constraint referencing  language. language \_id |

3.12 Payment

|  |  |  |  |
| --- | --- | --- | --- |
| **key** | **Column** | **Date Type** | **Description** |
| 🔑 | payment\_id | SERIAL | Number given to payment |
| 🔑 | customer\_id | SMALLINT | Number given to customer |
| 🔑 | staff\_id | SMALLINT | Number given to staff |
| 🔑 | rental\_id | INTEGER | Number given to rent |
|  | amount | NUMERIC(5,2) | Rental amount received |
|  | payment\_date | TIMESTAMP(6) WITHOUT TIMEZONE | Date when payment is done |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Description |
|  | customer | payment.customer\_id = customer.customer \_id | Foreign key constraint referencing  customer.customer \_id |
|  | rental | payment.rental \_id =rental.rental\_id | Foreign key constraint referencing  rental.rental\_id |
|  | staff | payment.staff \_id =staff.staff \_id | Foreign key constraint referencing  staff.staff \_id |

3.13 Rental

|  |  |  |  |
| --- | --- | --- | --- |
| **key** | **Column** | **Date Type** | **Description** |
| 🔑 | rental\_id | SERIAL | Number given to rent |
|  | rental\_date | TIMESTAMP(6) WITHOUT TIMEZONE | Date when film is rented |
| 🔑 | inventory\_id | INTEGER | Number given to inventory |
| 🔑 | customer\_id | SMALLINT | Number given to customer |
|  | return\_date | TIMESTAMP(6) WITHOUT TIMEZONE | Date when film is returned |
| 🔑 | staff\_id | SMALLINT | Number given to staff |
|  | last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Date/Time of last entry |

Linked From

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Description |
|  | payment | payment.rental\_id = rental.rental\_id | Foreign key constraint referencing  rental.rental\_id |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Description |
|  | customer | rental.customer\_id = customer.customer \_id | Foreign key constraint referencing  customer.customer \_id |
|  | inventory | rental.inventory \_id = inventory. inventory \_id | Foreign key constraint referencing  inventory. inventory \_id |
|  | staff | rental.staff \_id =staff.staff \_id | Foreign key constraint referencing  staff.staff \_id |

3.14 Staff

|  |  |  |  |
| --- | --- | --- | --- |
| **key** | **Column** | **Date Type** | **Description** |
| 🔑 | staff\_id | SERIAL | Number given to |
|  | first\_name | CHARACTERVARYING(45) | First Name of staff |
|  | last\_name | CHARACTERVARYING(45) | Last name of staff |
| 🔑 | address\_id | SMALLINT | Number given to address |
|  | email | CHARACTERVARYING(50) | Mail id of staff |
|  | store\_id | SMALLINT | Number given to store |
|  | active | BOOLEAN | Is the staff active or not? |
|  | username | CHARACTERVARYING(16) | Username of the staff |
|  | password | CHARACTERVARYING(40) | Password of the staff |
|  | last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Date/Time of last entry |
|  | picture | BYTEA | Photo of the staff |

Linked From

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Description |
|  | payment | payment.staff \_id = staff.staff\_id | Foreign key constraint referencing  staff.staff\_id |
|  | store | store.staff\_id =staff.staff\_id | Foreign key constraint referencing  staff.staff\_id |
|  | rental | rental.staff\_id =staff.staff\_id | Foreign key constraint referencing  staff.staff\_id |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Description |
|  | address | staff.address\_id= address .address\_id | Foreign key constraint referencing  address .address\_id |

3.15 Store

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Column** | **Date Type** | **Description** |
| 🔑 | store\_id | SERIAL | Number given to store |
| 🔑 | manager\_staff\_id | SMALLINT | Number given to manager |
| 🔑 | address\_id | SMALLINT | Number given to address |
|  | last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Date/Time of last entry |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Description |
|  | address | store.address\_id= address .address\_id | Foreign key constraint referencing  address .address\_id |
|  | staff | store.staff\_id=staff.staff\_id | Foreign key constraint referencing  staff.staff\_id |