Rockbuster Data Dictionary

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Overview

Rockbuster 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. Below shows a visualization of their database as well as tables describing how keys and other important phases break down.

Relationship Diagram

A diagram of a computer

AI-generated content may be incorrect.

A yellow key on a black background

AI-generated content may be incorrect. :indicates Primary key

:indicates Foreign key

Dimension Tables

* 1. Actor

|  |  |  |  |
| --- | --- | --- | --- |
| Primary and Foreign Key Indicator | Column | Data Type | Description |
| Key with solid fill | actor\_id | SERIAL | Unique identifier assigned to an actor |
|  | first\_name | CHARACTER VARYING(45) | First name of actor |
|  | last\_name | CHARACTER VARYING(45) | Last name of actor |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time data was updated |

* 1. Address

|  |  |  |  |
| --- | --- | --- | --- |
| Primary and Foreign Key Indicator | Column | Data Type | Description |
|  | address\_id | SERIAL | Unique identifier assigned to address |
|  | address | CHARACTER VARYING(50) | First line of address where staff member or customer lives |
|  | address2 | CHARACTER VARYING(50) | Second line of address where staff member or customer lives |
|  | district | CHARACTER VARYING(20) | Geographic region where staff member or customer lives. |
| Key with solid fill | city\_id | SMALLINT | Unique identifier assigned to city where staff member or customer lives |
|  | postal\_code | CHARACTER VARYING(10) | Postal code of staff member or customer |
|  | phone | CHARACTER VARYING(20) | Phone number of staff member or customer |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Date and time data was updated |

* 1. Category

|  |  |  |  |
| --- | --- | --- | --- |
| Primary and Foreign Key Indicator | Column | Data Type | Description |
|  | category\_id | SERIAL | Unique identifier assigned to film category |
|  | name | CHARACTER VARYING(25) | Primary language of film |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time the data was updated |

* 1. City

|  |  |  |  |
| --- | --- | --- | --- |
| Primary and Foreign Key Indicator | Column | Data Type | Description |
|  | city\_id | SERIAL | Unique identifier assigned to city |
|  | city | CHARACTER VARYING(50) | Name of city |
| Key with solid fill | country\_id | SMALLINT | Unique identifier assigned to country |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Date and time data was updated |

* 1. Country

|  |  |  |  |
| --- | --- | --- | --- |
| Primary and Foreign Key Indicator | Column | Data Type | Description |
|  | country\_id | SERIAL | Unique identifier assigned to country |
|  | country | CHARACTER VARYING(50) | Name of country |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Date and time the data was updated |

* 1. Customer

|  |  |  |  |
| --- | --- | --- | --- |
| Primary and Foreign Key Indicator | Column | Data Type | Description |
|  | customer\_id | SERIAL | Unique identifier assigned to customer |
| Key with solid fill | store\_id | SMALLINT | Unique identifier assigned to specific Rockbuster location |
|  | first\_name | CHARACTER VARYING(45) | First name of customer |
|  | last\_name | CHARACTER VARYING(45) | Last name of customer |
|  | email | CHARACTER VARYING(50) | Email of customer |
| Key with solid fill | address\_id | SMALLINT | Unique identifier assigned to address |
|  | activebool | BOOLEAN | Identifies if customer is active in system (True/False) |
|  | create\_date | DATE | Date customer first entered system |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time data was updated |
|  | active | INTEGER | Identifies if customer is active in system (Integer) |

* 1. Film

|  |  |  |  |
| --- | --- | --- | --- |
| Primary and Foreign Key Indicator | Column | Data Type | Description |
|  | film\_id | SERIAL | Unique identifier assigned to the film |
|  | title | CHARACTER VARYING(255) | Name of film |
|  | description | TEXT | Summery of film |
|  | release\_year | year | Year film was publicly released |
| Key with solid fill | language\_id | SMALLINT | Unique identifier assigned to primary language of film |
|  | rental\_duration | SMALLINT | Number of days film was rented |
|  | rental\_rate | NUMERIC(4,2) | Cost to rent per day |
|  | length | SMALLINT | Length of film |
|  | replacement\_cost | NUMERIC(5,2) | Cost to replace film if lost |
|  | rating | mpaa\_rating | Motion Picture Association of America (MPAA) rating system |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time data was updated |
|  | special\_features | TEXT[] | Special features included with film rental |
|  | fulltext | TSVECTOR | Keywords assigned to film |

film\_actor

|  |  |  |  |
| --- | --- | --- | --- |
| Primary and Foreign Key Indicator | Column | Data Type | Description |
|  | actor\_id | SMALLINT | Unique identifier assigned to an actor |
| Key with solid fill | film\_id | SMALLINT | Unique identifier assigned to a film |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time data was updated |

film\_category

|  |  |  |  |
| --- | --- | --- | --- |
| Primary and Foreign Key Indicator | Column | Data Type | Description |
|  | film\_id | SMALLINT | Unique identifier assigned to film |
| Key with solid fill | category\_id | SMALLINT | Unique identifier assigned to film category |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time the data was updated |

inventory

|  |  |  |  |
| --- | --- | --- | --- |
| Primary and Foreign Key Indicator | Column | Data Type | Description |
|  | inventory\_id | SERIAL | Unique identifier assigned to inventory unit |
| Key with solid fill | film\_id | SMALLINT | Unique identifier assigned to the film |
| Key with solid fill | store\_id | SMALLINT | Unique identifier assigned to specific Rockbuster store |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time data was updated |

language

|  |  |  |  |
| --- | --- | --- | --- |
| Primary and Foreign Key Indicator | Column | Data Type | Description |
|  | language\_id | SERIAL | Unique identifier assigned to primary language of film |
|  | name | CHARACTER(20) | Primary language of film |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time the data was updated |

store

|  |  |  |  |
| --- | --- | --- | --- |
| Primary and Foreign Key Indicator | Column | Data Type | Description |
|  | store\_id | SERIAL | Unique identifier assigned to specific Rockbuster store |
| Key with solid fill | manager\_staff\_id | SMALLINT | Unique identifier assigned to manager of specific Rockbuster store |
| Key with solid fill | address\_id | SMALLINT | Unique identifier assigned to address |
| Key with solid fill | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time data was updated |

staff

|  |  |  |  |
| --- | --- | --- | --- |
| Primary and Foreign Key Indicator | Column | Data Type | Description |
|  | actor\_id | SERIAL | Unique identifier assigned to an actor |
|  | first\_name | CHARACTER VARYING(45) | First name of actor |
|  | last\_name | CHARACTER VARYING(45) | Last name of actor |
| Key with solid fill | address\_id | SMALLINT | Unique identifier assigned to address |
|  | email | CHARACTER VARYING(50) | email of staff member |
| Key with solid fill | store\_id | SMALLINT | Unique identifier assigned to specific Rockbuster store |
|  | active | BOOLEAN | identifies if staff member is active in system (true/false) |
|  | username | CHARACTER VARYING(16) | username of staff member |
|  | password | CHARACTER VARYING(40) | password of staff member |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time data was updated |
|  | picture | BYTEA | picture of staff member |

3. Fact Tables

payment

|  |  |  |  |
| --- | --- | --- | --- |
| Primary and Foreign Key Indicator | Column | Data Type | Description |
|  | payment\_id | SERIAL | Unique identifier assigned to payment transaction |
|  | customer\_id | SMALLINT | Unique identifier assigned to customer |
|  | staff\_id | SMALLINT | Unique identifier assigned to staff member |
|  | rental\_id | INTEGER | Unique identifier assigned to rental transaction |
|  | amount | NUMERICS(5,2) | Cost of rental |
|  | payment\_date | TIMESTAMP(6) WITHOUT TIME ZONE | Date and time rental was paid for |

rental

|  |  |  |  |
| --- | --- | --- | --- |
| Primary and Foreign Key Indicator | Column | Data Type | Description |
|  | rental\_id | SERIAL | Unique identifier assigned to rental transaction |
|  | rental\_date | TIMESTAMP(6) WITHOUT TIME ZONE | date and time movie was rented |
|  | inventory\_id | INTEGER | Unique identifier assigned to inventory unit |
|  | customer\_id | SMALLINT | Unique identifier assigned to customer |
|  | return\_date | TIMESTAMP(6) WITHOUT TIME ZONE | Date and time the movie was returned |
|  | staff\_id | SMALLINT | Unique identifier assigned to staff member |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Date and time the data was updated |