**Data Dictionary**

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**Legend**

Primary Key

Foreign key

1. **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.

**2. Entity Relationship Diagram**

A screenshot of a computer screen

Description automatically generated

**3.Fact Table**

**3.1**

**Rental**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Columns** | **Data Type** | **Description** |
|  | Rental\_id | Serial | Unique id no. for each rental instance |
|  | Rental\_date | TIMESTAMP (6) WITHOUT TIME  ZONE | Timestamp for exact date and time of rental |
|  | Inventory\_id | INTEGER | Unique number identifying each rental unit in inventory |
|  | Customer\_id | SMALLINT | Unique number identifying each customer |
|  | Return\_date | TIMESTAMP (6) WITHOUT TIME  ZONE | Timestamp for exact date and time of rental return |
|  | Staff\_id | SMALLINT | Unique number identifying each staff member |
|  | Last\_update | TIMESTAMP (6) WITHOUT TIME  ZONE | Timestamp for the exact date and time this table was last updated |

**Linked to**

|  |  |
| --- | --- |
| Table | Join |
| Customer | Rental.customer\_id = customer.customer\_id |
| Inventory | Rental.inventory\_id = inventory.inventory\_id |
| Staff | Rental.staff\_id = staff.staff\_id |

**Linked from**

|  |  |
| --- | --- |
| **Table** | **Join** |
| Payment | Payment.rental\_id = rental.rental\_id |

**4.Dimension Tables**

**4.1 Payment**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Columns** | **Data Type** | **Description** |
|  | Payment\_id | SERIAL | Unique number identifying each payment transaction |
|  | Customer\_id | SMALLINT | Unique number identifying each customer |
|  | Staff\_id | SMALLINT | Unique number identifying each staff member |
|  | Rental\_id | INTEGER | Unique ID number for each rental instance |
|  | Amount | NUMERIC (5,2) | Amount of payment in USD |
|  | Payment\_date | TIMESTAMP (6) WITHOUT TIME  ZONE | Timestamp of the exact date and time the payment was made |

**Linked to**

|  |  |
| --- | --- |
| Table | Join |
| Customer | Payment.customer\_id = customer.customer\_id |
| Inventory | Payment.rental\_id = rental.rental\_id |
| Staff | Payment.staff\_id = staff.staff\_id |

**4.2 Film Actor**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Columns** | **Data Type** | **Description** |
|  | Actor\_id | SMALLINT | Unique ID number given to each film actor |
|  | Film\_id | SMALLINT | Unique ID number given to each film |
|  | Last\_update | TIMESTAMP (6) WITHOUT TIME  ZONE | Timestamp for the exact date and time this table was last updated |

**Linked to**

|  |  |
| --- | --- |
| Tables | Join |
| Actor | Film\_actor.Actor\_id=Actor.Actor\_id |
| Film | Film\_actor.Film\_id=Film.film\_id |

**Linked from**

|  |  |
| --- | --- |
| Table | Join |
| Film\_category | Film\_category.film\_id=film\_actor.film\_id |

**4.3 Store**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Columns** | **Data Type** | **Description** |
|  | Store\_id | SERIAL | Unique ID number for each store location |
|  | Manager\_staff\_id | SMALLINT | Unique ID number for the manager of each store |
|  | Address\_id | SMALLINT | Unique ID number for each address |
|  | Last\_update | TIMESTAMP (6) WITHOUT TIME  ZONE | Timestamp for the exact date and time this table was last updated |

**Linked to**

|  |  |
| --- | --- |
| **Tables** | **Join** |
| Staff | Store.address\_id=Staff.address\_id |
| Address | Store.address\_id=Address.address\_id |
| Customer | Store.store\_id=Customer.store\_id |

**4.4 Inventory**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Columns** | **Data Type** | **Description** |
|  | Inventory\_id | SERIAL | Unique number identifying each rental unit in inventory |
|  | Store\_id | SMALLINT | Unique ID number given to each film |
|  | Film\_id | SMALLINT | Unique ID number for each store location |
|  | Last\_update | TIMESTAMP (6) WITHOUT TIME  ZONE | Timestamp for the exact date and time this table was last updated |

**Linked to**

|  |  |
| --- | --- |
| **Tables** | **Join** |
| Film | Inventory.film\_id=Film.Film\_id |
| Film\_category | Inventory.film\_id=Film\_category.Film\_id |
| Customer | Film.store\_id=Customer.store.id |

**Linked from**

|  |  |
| --- | --- |
| **Table** | **Join** |
| Rental | Rental.inventory\_id=Rental.inventory\_id |

**4.5 Film Category**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Columns** | **Data Type** | **Description** |
|  | Film\_id | SMALLINT | Unique ID number given to each film |
|  | Category\_id | SMALLINT | Unique ID number given to each film category |
|  | Last\_update | TIMESTAMP (6) WITHOUT TIME  ZONE | Timestamp for the exact date and time this table was last updated |

**Linked to**

|  |  |
| --- | --- |
| **Tables** | **Join** |
| Film | Film\_category.film\_id=film.film\_id |
| Category | Film\_category.Category\_id=Category.category\_id |

**4.6 Customer**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Columns** | **Data Type** | **Description** |
|  | Customer\_id | SERIAL | Unique ID number identifying each customer |
|  | Store\_id | SMALLINT | Unique ID number identifying each 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 |
|  | Address\_id | SMALLINT | Unique ID number for each address (Including stores, staff, and customers. In this case it is the ID for the customer address.) |
|  | Activebool | BOOLEAN | True or False for if the customer is currently an active customer |
|  | Create\_date | DATE | The date the customer’s account was created |
|  | Last\_update | TIMESTAMP (6) WITHOUT TIME ZONE | Timestamp for the exact date and time this table was last updated |
|  | Active | INTEGER | A 0 or 1 indicating the customer’s active status |

**Linked to**

|  |  |
| --- | --- |
| **Tables** | **Join** |
| Staff | Customer.store\_id=Staff.store\_id |
| Address | Staff.address\_id=address.address\_id |

**Linked from**

|  |  |
| --- | --- |
| **Tables** | **Join** |
| Payment | Payment.customer\_id=customer.customer\_id |
| Rental | Rental.customer\_id=Customer.customer\_id |
| Store | Store.store\_id=customer.store\_id |

**4.7 Staff**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Columns** | **Data Type** | **Description** |
|  | Staff\_id | SERIAL | Unique number identifying each staff member |
|  | First\_name | CHARACTER VARYING (45) | First name of the staff member |
|  | Last\_name | CHARACTER VARYING (45) | Last name of the staff member |
|  | Address\_id | SMALLINT | Unique ID number for each address (Including stores, staff, and customers. In this case it is the ID for the staff address.) |
|  | Email | CHARACTER VARYING (50) | Emaill address of the staff member |
|  | Store\_id | SMALLINT | Unique ID number for each store location |
|  | Active | BOOLEAN | True or False for if the staff member is currently an active staff member |
|  | Username | CHARACTER VARYING (16) | Staff member username |
|  | Password | CHARACTER VARYING (40) | Staff member password |
|  | Last\_updated | TIMESTAMP (6) WITHOUT TIME ZONE | Timestamp for the exact date and time this table was last updated |
|  | Picture | BYTEA | Photo of staff member |

**Linked to**

|  |  |
| --- | --- |
| **Tables** | **Join** |
| Address | Staff.address\_id=address.address\_id |
| Customer | Staff.store\_id=customer.store\_id |

**Linked from**

|  |  |
| --- | --- |
| **Tables** | **Join** |
| Store | Store.store\_id=staff.store\_id |

**4.8 Actor**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Columns** | **Data Type** | **Description** |
|  | Actor\_id | SERIAL | Unique number identifying each actor |
|  | First\_name | CHARACTER VARYING (45) | First name of the actor |
|  | Lastname | CHARACTER VARYING (45) | Last name of the actor |
|  | Last\_update | TIMESTAMP (6) WITHOUT TIME ZONE | Timestamp for the exact date and time this table was last updated |

**Linked from**

|  |  |
| --- | --- |
| **Tables** | **Join** |
| Film\_actor | Film\_actor.actor\_id=Actor.actor\_id |

**4.9 Film**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Columns** | **Data Type** | **Description** |
|  | Film\_id | SERIAL | Unique ID number given to each film |
|  | Title | CHARACTER VARYING (255) | Title of the film |
|  | Description | TEXT | Description of the film |
|  | Release\_year | YEAR | The year the film was released |
|  | Language\_id | SMALLINT | The language of the film |
|  | Rental\_duration | SMALLINT | The length of rental in days |
|  | Rental\_rate | NUMERIC(4,2) | Price of rental in USD |
|  | Length | SMALLINT | Length of film in minutes |
|  | Replacement\_cost | NUMERIC(5,2) | Cost of replacing each film unit lost in USD |
|  | Rating | Mpaa\_rating | Rating given to each film my the MPAA |
|  | Last\_update | TIMESTAMP (6) WITHOUT TIME ZONE | Timestamp for the exact date and time this table was last updated |
|  | Special\_features | TEXT | Special features that accompany the film |
|  | Fulltext | TSVECTOR | Text search vectors for full film text searches |

**Linked to**

|  |  |
| --- | --- |
| **Table** | **Join** |
| Language | Film.language\_id=Language.language\_id |

**Linked from**

|  |  |
| --- | --- |
| **Tables** | **Join** |
| Film\_actor | Film\_actor.film\_id=film.film\_id |
| Inventory | Inventory.film\_id=film.film\_id |
| Category | Category.film\_id=film.film\_id |

**4.10 Category**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Colums** | **Data Type** | **Description** |
|  | Category\_id | SERIAL | Unique ID number given to each film category |
|  | Name | CHARACTER VARYING (25) | Name of category |
|  | Last\_update | TIMESTAMP (6) WITHOUT TIME ZONE | Timestamp for the exact date and time this table was last updated |

**Linked from**

|  |  |
| --- | --- |
| **Table** | **Join** |
| Film\_category | Film\_category.category\_id |

**4.11 Address**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Columns** | **DataType** | **Description** |
|  | Address\_id | SERIAL | Unique ID number for each address (Including stores, staff, and customers.) |
|  | Address | CHARACTER VARYING (50) | Street address |
|  | Address2 | CHARACTER VARYING (50) | Second line of street address if needed for unit or apartment number, etc. |
|  | District | CHARACTER VARYING (20) | State, province, or territory of address |
|  | City\_id | SMALLINT | Unique ID number given to each city |
|  | Postal\_code | CHARACTER VARYING (10) | Postal code for each address |
|  | Phone | CHARACTER VARYING (20) | Phone number for each customer, store, or staff member whose address is in table |
|  | Last\_update | TIMESTAMP (6) WITHOUT TIME ZONE | Timestamp for the exact date and time this table was last updated |

**Linked to**

|  |  |
| --- | --- |
| **Table** | **Join** |
| **city** | **City.address\_id=address.address.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** |

**4.12 Language**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Columns** | **Data Type** | **Description** |
|  | Language\_id | SERIAL | Unique ID number given to each language in which the films exist |
|  | Name | CHARACTER (20) | Language name |
|  | Last\_update | TIMESTAMP (6) WITHOUT TIME ZONE | Timestamp for the exact date and time this table was last updated |

**Linked from**

|  |  |
| --- | --- |
| **Table** | **Join** |
| **Film** | **Language.film\_id=film.film\_id** |

**4.13 City**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Columns** | **Data Type** | **Description** |
|  | City\_id | SERIAL | Unique ID number given to each city |
|  | City | CHARACTER VARYING (50) | Name of the city |
|  | Country\_id | SMALLINT | Unique ID number given to each country |
|  | Last\_update | TIMESTAMP (6) WITHOUT TIME ZONE | Timestamp for the exact date and time this table was last updated |

**Linked to**

|  |  |
| --- | --- |
| **Table** | **Join** |
| **Country** | Country.country\_id = city.country\_id |

**Linked from**

|  |  |
| --- | --- |
| **Table** | **Join** |
| Address | City.city\_id = address.city\_id |

**4.14 Country**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Columns** | **Data Type** | **Description** |
|  | Country\_id | Serial | Unique ID number given to each country |
|  | Country | CHARACTER VARYING (50) | Name of the country |
|  | Last\_update | TIMESTAMP (6) WITHOUT TIME ZONE | Timestamp for the exact date and time this table was last updated |

**Linked from**

|  |  |
| --- | --- |
| **Table** | **Join** |
| City | City.country\_id = country.country\_id |