Rockbuster Stealth LLC

Data Dictionary

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1. **Entity Relationship Diagram (ERD)**

Diagram

Description automatically generated

1. **Fact Tables:**

*2.1 Payment Table*

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| payment\_id (PK) | SERIAL | Unique payment ID |
| customer\_id (FK) | SMALLINT | Unique customer ID |
| staff\_id (FK) | SMALLINT | Unique staff ID |
| rental\_id (FK) | INTEGER | Unique rental ID |
| amount | NUMERIC(5,2) | Amount of payment received |
| payment\_date | TIMESTAMP(6) WITHOUT TIME ZONE | Date of payment without time zone |

**Links to:**

|  |  |
| --- | --- |
| **Table** | **Join** |
| rental | payment.rental\_id = rental.rental\_id |
| customer | payment.customer\_id = customer.customer\_id |
| staff | Payment.staff\_id = staff.staff\_id |

**Links from: N/A**

*2.2 Rental Table*

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| rental\_id (PK) | SERIAL | Unique rental ID |
| rental\_date | TIMESTAMP(6) WITHOUT TIME ZONE | Date of rental without time zone |
| inventory\_id (FK) | INTEGER | Unique inventory ID |
| customer\_id (FK) | SMALL INT | Unique customer ID |
| return\_date | TIMESTAMP(6) WITHOUT TIME ZONE | Date of return without time zone |
| staff\_id (FK) | SMALLINT | Unique staff ID |
| last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Time of last update without time zone |

**Links to:**

|  |  |
| --- | --- |
| **Table** | **Join** |
| customer | rental.customer\_id = customer.customer\_id |
| staff | rental.staff\_id = staff.staff\_id |
| inventory | rental.inventory\_id = inventory.inventory\_id |

**Links from:**

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

1. **Dimension Tables:**

*3.1 Film Category Table*

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| film\_id (FK) | SMALLINT | Unique film ID |
| category\_id (FK) | SMALLINT | Unique category ID |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update without time zone |

**Links to:**

|  |  |
| --- | --- |
| **Table** | **Join** |
| film | film\_category.film\_id = film.film\_id |
| category | film\_category.category\_id = category.category\_id |

**Links from: N/A**

*3.2 Category Table*

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| category\_id (PK) | SERIAL | Unique category ID |
| name | CHARACTER VARYING(25) | Name of category |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update without time zone |

**Links to: N/A**

**Links from:**

|  |  |
| --- | --- |
| **Table** | **Join** |
| film\_category | film\_category.category\_id = category.category\_id |

*3.3 Film Actor Table*

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| actor\_id (PK) | SMALLINT | Unique actor ID |
| film\_id | SMALLINT | Unique film ID |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update without time zone |

**Links to:**

|  |  |
| --- | --- |
| **Table** | **Join** |
| film | film.film\_id = film\_actor.film\_id |
| actor | actor.actor\_id = film\_actor.actor\_id |

**Links from: N/A**

*3.4 Actor Table*

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| actor\_id (PK) | SERIAL | Unique actor ID |
| 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 | Time of last update without timezone |

**Links to: N/A**

**Links from:**

|  |  |
| --- | --- |
| **Table** | **Join** |
| film\_actor | actor.actor\_id = film\_actor.actor\_id |

*3.5 Inventory Table*

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| inventory\_id (PK) | SERIAL | Unique inventory ID |
| film\_id (FK) | SMALLINT | Unique film ID |
| store\_id (FK) | SMALLINT | Unique store ID |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update without time zone |

**Links to:**

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

**Links from:**

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

*3.6 Film Table*

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| film\_id (PK) | SERIAL | Unique film ID |
| title | CHARACTER VARYING(255) | Film Title |
| description | TEXT | Description of film |
| release\_year | year | Year film was released |
| language\_id (FK) | SMALLINT | Language of film |
| rental\_duration | SMALLINT | Duration of rental |
| rental\_rate | NUMERIC(4,2) | Rate of rental |
| length | SMALLINT | Length of film |
| replacement\_cost | NUMERIC(5,2) | Replacement cost of film |
| rating | mpaa\_rating | Film rating |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update without time zone |
| special\_features | TEXT [] | Film special features |
| fulltext | TSVECTOR | Full text index |

**Links to:**

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

**Links from:**

|  |  |
| --- | --- |
| **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 |

*3.7 Language Table*

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| language\_id (PK) | SERIAL | Unique language ID |
| name | CHARACTER(20) | Name of language |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update without time zone |

**Links to: N/A**

**Links from:**

|  |  |
| --- | --- |
| **Table** | **Join** |
| film | film.language\_id = language.language\_id |

*3.8 Customer Table*

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| customer\_id (PK) | SERIAL | Unique customer ID |
| store\_id (FK) | SMALLINT | Unique store ID |
| first\_name | CHARACTER VARYING(45) | First name of customer |
| last\_name | CHARACTER VARYING(45) | Last name of customer |
| email | CHARACTER VARYING(50) | Email address of customer |
| address\_id | SMALLINT | Unique address ID |
| activebool | BOOLEAN | Customer activity status |
| create\_date | DATE | Date profile was created |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update without time zone |
| active | INTEGER | Activity status represented by 0 or 1 |

**Links to:**

|  |  |
| --- | --- |
| **Table** | **Join** |
| address | customer.address\_id = address.address\_id |

**Links from:**

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

*3.9 Staff Table*

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| staff\_id (PK) | SERIAL | Unique staff ID |
| first\_name | CHARACTER VARYING(45) | Staff member’s first name |
| last\_name | CHARACTER VARYING(45) | Staff member’s last name |
| address\_id (FK) | SMALLINT | Unique address ID |
| email | CHARACTER VARYING(50) | Staff member’s email address |
| store\_id (FK) | SMALLINT | Unique store ID |
| active | BOOLEAN | Activity status of staff member |
| username | CHARACTER VARYING(16) | Staff member’s username |
| password | CHARACTER VARYING(40) | Staff member’s password |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update without time zone |
| picture | BYTEA | Picture of staff member |

**Links to:**

|  |  |
| --- | --- |
| **Table** | **Join** |
| store | store.store\_id = staff.store\_id |
| address | staff.address\_id = address.address\_id |

**Links from:**

|  |  |
| --- | --- |
| **Table** | **Join** |
| payment | payment.staff\_id = staff.staff\_id |
| rental | rental.staff\_id = staff.staff\_id |
| store | store.staff\_id = staff.staff\_id |

*3.10 Store Table*

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| store\_id (PK) | SERIAL | Unique store ID |
| manager\_staff\_id (FK) | SMALLINT | Unique manager ID |
| address\_id (FK) | SMALLINT | Unique address ID |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update without time zone |

**Links to:**

|  |  |
| --- | --- |
| **Table** | **Join** |
| address | store.address\_id = address.address\_id |
| staff | staff.staff\_id = store.staff\_id |

**Links from: N/A**

*3.11 Address Table*

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| address\_id (PK) | SERIAL | Unique address ID |
| address | CHARACTER VARYING(50) | 1st line of address |
| address2 | CHARACTER VARYING(50) | 2nd line of address |
| district | CHARACTER VARYING(20) | District of address |
| city\_id (FK) | SMALLINT | Unique city ID |
| postal\_code | CHARACTER VARYING(20) | Postal code of address |
| phone | CHARACTER VARYING(20) | Phone number of address |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update without time zone |

**Links to:**

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

**Links from:**

|  |  |
| --- | --- |
| **Table** | **Join** |
| customer | customer.address\_id = address.address\_id |
| staff | staff.address\_id = address.address\_id |
| store | store.address\_id = address.address\_id |

*3.12 City Table*

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| city\_id (PK) | SERIAL | Unique city ID |
| city | CHARACTER VARYING(50) | Name of city |
| country\_id (FK) | SMALLINT | Unique country ID |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update without time zone |

**Links to:**

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

**Links from:**

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

*3.13 Country Table*

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| country\_id (PK) | SERIAL | Unique country ID |
| country | CHARACTER VARYING(50) | Name of country |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update without time zone |

**Links to: N/A**

**Links from:**

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