Rockbuster Stealth

Data Dictionary

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# 1. Entity Relationship Diagram

A screenshot of a computer flowchart

Description automatically generated

# 2. Fact Tables

## 2.1 payment

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Column Name** | **Data T ype** | **Description** |
| Primary | payment\_id | SERIAL | Unique payment identifier |
| Foreign | customer\_id | SMALLINT | Unique customer identifier |
| Foreign | staff\_id | SMALLINT | Unique staff identifier |
| Foreign | rental\_id | INTEGER | Unique rental identifier |
|  | amount | NUMBERIC(5,2) | Payment amount |
|  | payment\_date | TIMESTAMP(6) WITHOUT TIME ZONE | Payment Date |
|  |  |  |  |
| **Direction** | **Table** | **Join** |  |
| To Table | customer | payment.customer\_id = customer.customer\_id | |
| To Table | staff | payment.staff\_id = staff.staff\_id |  |
| To Table | rental | payment.rental\_id = rental.rental\_id |  |

## 2.2 rental

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Column Name** | **Data T ype** | **Description** |
| Primary | rental\_id | SERIAL | Unique rental identifier |
|  | rental\_date | TIMESTAMP(6)WITHOUT TIME ZONE | Date of rental |
| Foreign | inventory\_id | INTEGER | Unique inventory identifier |
| Foreign | customer\_id | SMALLINT | Unique customer identifier |
|  | return\_date | TIMESTAMP(6) WITHOUT TIME ZONE | Date of return |
| Foreign | staff\_id | SMALLINT | Unique staff identifier |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Data last updated date |
|  |  |  |  |
| **Direction** | **Table** | **Join** |  |
| From Table | payment | rental.rental\_id = payment.rental\_id |  |
| To Table | inventory | rental.inventory\_id = inventory.inventory\_id | |
| To Table | customer | rental.customer\_id = customer.customer\_id | |
| To Table | staff | rental.staff\_id = staff.staff\_id |  |

# 3. Dimension Tables

## 3.1 category

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Column Name** | **Data T ype** | **Description** |
| Primary | category\_id | SERIAL | Unique category identifier |
|  | name | CHARACTER VARYING(25) | Category name |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Data last updated date |
|  |  |  |  |
| **Direction** | **Table** | **Join** |  |
| From Table | film\_category | film\_category.category\_id = category.category\_id | |

## 3.2 film\_category

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Column Name** | **Data T ype** | **Description** |
| Foreign | film\_id | SMALLINT | Unique film identifier |
| Foreign | category\_id | SMALLINT | Unique category identifier |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Data last updated date |
|  |  |  |  |
| **Direction** | **Table** | **Join** |  |
| To Table | film | film\_category.film\_id = film.film\_id |  |
| To Table | category | film\_category.category\_id = category.category\_id | |

## 3.3 film

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Column Name** | **Data T ype** | **Description** |
| Primary | film\_id | SERIAL | Unique film identifier |
|  | title | CHARACTER VARYING (255) | Film title |
|  | desription | TEXT | Film description |
|  | release\_year | year | Film release year |
| Foreign | language\_id | SMALLINT | Unique language identifier |
|  | rental\_duration | SMALLINT | Film rental duration |
|  | rental\_rate | NUMERIC(4,2) | Film rental rate |
|  | length | SMALLINT | Film length |
|  | replacement\_cost | NUMBERIC(5,2) | Film replacement\_cost |
|  | rating | mpaa\_rating | Film rating |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Data last updated date |
|  | special\_features | TEXT[] | Film special features |
|  | fulltext | TSVECTOR | Film full text |
|  |  |  |  |
| **Direction** | **Table** | **Join** |  |
| From Table | inventory | film.film\_id = inventory.film\_id |  |
| From Table | film\_actor | film.film\_id = film\_actor.film\_id |  |
| From Table | film\_category | film.film\_id = film\_category.film\_id |  |
| To Table | language | film.language\_id = language.language\_id | |

## 3.4 language

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Column Name** | **Data T ype** | **Description** |
| Primary | language\_id | SERIAL | Unique language identifier |
|  | name | CHARACTER(20) | Category name |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Data last updated date |
|  |  |  |  |
| **Direction** | **Table** | **Join** |  |
| From Table | film | language.language\_id = film.language\_id | |

## 3.5 film\_actor

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Column Name** | **Data T ype** | **Description** |
| Foreign | actor\_id | SMALLINT | Unique actor identifier |
| Foreign | film\_id | SMALLINT | Unique film identifier |
|  | last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Data last updated date |
|  |  |  |  |
| **Direction** | **Table** | **Join** |  |
| To Table | film | film\_actor.film\_id = film.film\_id |  |
| To Table | actor | film\_actor.actor\_id = actor.actor\_id |  |

## 3.6 actor

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Column Name** | **Data T ype** | **Description** |
| Primary | actor\_id | SERIAL | Unique actor identifier |
|  | first\_name | CHARACTER VARYING(45) | Staff first name |
|  | last\_name | CHARACTER VARYING(45) | Staff last name |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Data last updated date |
|  |  |  |  |
| **Direction** | **Table** | **Join** |  |
| From Table | film\_actor | actor.actor\_id = film\_actor.actor\_id |  |

## 3.7 inventory

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Column Name** | **Data T ype** | **Description** |
| Primary | inventory\_id | SERIAL | Unique inventory identifier |
| Foreign | film\_id | SMALLINT | Unique film identifier |
| Foreign | store\_id | SMALLINT | Unique store identifier |
|  | last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Data last updated date |
|  |  |  |  |
| **Direction** | **Table** | **Join** |  |
| From Table | rental | inventory.inventory\_id = rental.inventory\_id | |
| To Table | film | inventory.film\_id = film.film\_id |  |

## 3.8 staff

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Column Name** | **Data T ype** | **Description** |
| Primary | staff\_id | SERIAL | Unique staff identifier |
|  | first\_name | CHARACTER VARYING(45) | Staff first name |
|  | last\_name | CHARACTER VARYING(45) | Staff last name |
| Foreign | address\_id | SMALLINT | Unique address identifier |
|  | email | CHARACTER VARYING(50) | Staff email address |
| Foreign | store\_id | SMALLINT | Unique store identifier |
|  | active | BOOLEAN | Staff account active status |
|  | username | CHARACTER VARYING(16) | Staff account username |
|  | password | CHARACTER VARYING(40) | Staff account password |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Data last updated date |
|  | picture | BYTEA | Staff photo |
|  |  |  |  |
| **Direction** | **Table** | **Join** |  |
| From Table | rental | staff.staff\_id = rental.staff\_id |  |
| From Table | payment | staff.staff\_id = payment.staff\_id |  |
| From Table | store | staff.staff\_id = store.manager\_staff\_id | |
| To Table | address | staff.address\_id = address.address\_id | |

## 3.9 store

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Column Name** | **Data T ype** | **Description** |
| Primary | store\_id | SERIAL | Unique store identifier |
| Foreign | manager\_staff\_id | SMALLINT | Unique manager identifier |
| Foreign | address\_id | SMALLINT | Unique address identifier |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Data last updated date |
|  |  |  |  |
| **Direction** | **Table** | **Join** |  |
| To Table | staff | store.manager\_staff\_id = staff.staff\_id | |
| To Table | adress | store.address\_id = adress.address\_id |  |

## 3.10 customer

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Column Name** | **Data T ype** | **Description** |
| Primary | customer\_id | SERIAL | Unique customer identifier |
| Foreign | store\_id | SMALLINT | Unique store identifier |
|  | first\_name | CHARACTER VARYING(45) | Staff first name |
|  | last\_name | CHARACTER VARYING(45) | Staff last name |
|  | email | CHARACTER VARYING(50) | Staff email address |
| Foreign | address\_id | SMALLINT | Unique address identifier |
|  | activebool | BOOLEAN | Customer active status |
|  | create\_date | DATE | Customer create date |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Data last updated date |
|  | active | INTEGER | Staff account active status |
|  |  |  |  |
| **Direction** | **Table** | **Join** |  |
| From Table | payment | customer.customer\_id = payment.customer\_id | |
| From Table | rental | customer.customer\_id = rental.customer\_id | |
| To Table | address | customer.address\_id = address.address\_id | |

## 3.11 address

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Column Name** | **Data T ype** | **Description** |
| Primary | address\_id | SERIAL | Unique address identifier |
|  | address | CHARACTER VARYING (50) | Unique address identifier |
|  | address2 | CHARACTER VARYING (50) | Address detail 2 |
|  | district | CHARACTER VARYING (50) | District name |
| Foreign | city\_id | SMALLINT | Unique city identifier |
|  | postal\_code | CHARACTER VARYING (50) | Postal Code |
|  | phone | CHARACTER VARYING (50) | Phone number |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Data last updated date |
|  |  |  |  |
| **Direction** | **Table** | **Join** |  |
| From Table | customer | address.address\_id = customer.address\_id | |
| From Table | staff | address.address\_id = staff.address\_id | |
| From Table | store | address.address\_id = store.address\_id | |
| To Table | city | city\_id |  |

## 3.12 city

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Column Name** | **Data T ype** | **Description** |
| Primary | city\_id | SERIAL | Unique city identifier |
|  | city | CHARACTER VARYING(50) | City name |
| Foreign | country\_id | SMALLINT | Unique country identifier |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Data last updated date |
|  |  |  |  |
| **Direction** | **Table** | **Join** |  |
| From Table | address | city.city\_id = address.city\_id |  |
| To Table | country | city.country\_id = country.country\_id |  |

## 3.13 country

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Column Name** | **Data T ype** | **Description** |
| Primary | country\_id | SERIAL | Unique country identifier |
|  | country | CHARACTER VARYING(50) | Country name |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Data last updated date |
|  |  |  |  |
| **Direction** | **Table** | **Join** |  |
| From Table | country | country.country\_id = country.country\_id | |