Rockbuster Stealth LLC Data Dictionary

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**Entity Relationship Diagram**

Diagram, table

Description automatically generated

**Fact Tables**

|  |  |  |  |
| --- | --- | --- | --- |
| Payment Table | | | |
| KEY | COLUMN | DATA TYPE | DESCRIPTION |
| Primary Key | Payment\_id | SERIAL | Unique ID for rental payment |
| Foreign Key | Customer\_id | SMALLINT | ID for customer renting |
| Foreign Key | Staff\_id | SMALLINT | ID for staff performing the transaction |
| Foreign Key | Rental\_id | INTEGER | ID for Rental transaction |
|  | Amount | NUMERIC(5,2) | Cost of rental/amount paid |
|  | Payment\_date | TIMESTAMP(6) WITHOUT TIME ZONE | Date of payment |

Payment Table Links To:

|  |  |
| --- | --- |
| Table | Link |
| Customer | payment.customer\_id = customer.customer\_id |
| Staff | payment.staff\_id = staff.staff\_if |
| Rental | payment.rental\_id = rental.rental\_id |

|  |  |  |  |
| --- | --- | --- | --- |
| Rental Table | | | |
| KEY | COLUMN | DATA TYPE | DESCRIPTION |
| Primary Key | Rental\_id | SERIAL | ID of rental transaction |
|  | Rental\_date | TIMESTAMP(6) WITHOUT TIME ZONE | Date of Rental |
| Foreign Key | Inventory\_id | INTEGER | ID of Inventory details |
| Foreign Key | Customer\_id | SMALLINT | ID for customer |
|  | Return\_date | TIMESTAMP(6) WITHOUT TIME ZONE | Date of rental return |
| Foreign | Staff\_id | SMALLINT | ID of staff performing the transaction |
|  | Last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Last updated information in system |

Rental Table Links To:

|  |  |
| --- | --- |
| Table | Link |
| Inventory | rental.inventory\_id = inventory.inventory\_id |
| Customer | rental.customer\_id = customer.customer\_id |
| Staff | rental.staff\_id = staff.staff\_id |

Rental Table Links From:

|  |  |
| --- | --- |
| Table | Link |
| Payment | payment.rental\_id = rental.rental\_id |

**Dimensions Tables**

|  |  |  |  |
| --- | --- | --- | --- |
| Store Table | | | |
| KEY | COLUMN | DATA TYPE | DESCRIPTION |
| Primary Key | Store\_id | SERIAL | ID of store |
| Foreign Key | manager\_staff\_id | SMALLINT | ID for managers |
| Foreign Key | address\_id | SMALLINT | ID for store’s address |
|  | last\_update | TIMESTAMP[6] WITHOUT TIME ZONE | Date of when data was last updated |

Store Table Links

|  |  |
| --- | --- |
| Table | Link |
| Staff | store.manager\_staff\_id = staff.staff\_id |
| Address | store.address\_id = address.address\_id |

|  |  |  |  |
| --- | --- | --- | --- |
| Staff Tables | | | |
| KEY | COLUMN | DATA TYPE | DESCRIPTION |
| Primary Key | Staff\_id | SERIAL | Unique staff ID |
|  | First\_name | CHARACTER VARYING (45) | First name of the staff |
|  | Last\_name | CHARACTER VARYING (45) | Last name of the staff |
| Foreign Key | Address\_id | SMALLINT | Address ID for the store |
|  | Email | CHARACTER VARYING (50) | Email ID of the staff |
|  | Store\_id | SMALLINT | Unique store ID |
|  | Active | Boolean | Active or not, yes/no |
|  | Username | CHARACTER VARYING (16) | Username for staff member |
|  | Password | CHARACTER VARYING (40) | Password for staff member |
|  | Last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Last update in the table |
|  | Picture | BYTEA | Picture of Staff member |

Staff Table Links

|  |  |
| --- | --- |
| Table | Link |
| Address | staff.address\_id = address.address\_id |

Store Table Links From:

|  |  |
| --- | --- |
| Table | Link |
| Store | store.manager\_staff\_id = staff.staff\_id |
| Rental | rental.staff\_id = staff.staff\_id |
| Payment | payment.staff\_id = staff.staff\_id |

|  |  |  |  |
| --- | --- | --- | --- |
| Address Table | | | |
| KEY | COLUMN | DATA TYPE | DESCRIPTION |
| Primary Key | Address\_id | SERIAL | ID for address |
|  | Address | CHARACTER VARYING (50) | Street address |
|  | Address 2 | CHARACTER VARYING (50) | Street address cont. |
|  | District | CHARACTER VARYING (20) | District (City, State, Country, etc.) |
| Foreign Key | City\_id | SMALL\_INT | ID for city |
|  | Postal\_code | CHARACTER VARYING (10) | Postal code |
|  | Phone | CHARACTER VARYING (20) | Phone number |
|  | Last\_update | TIMESTAMP [6] WITHOUT TIME ZONE | Date of when data was last updated |

Address Table Links To:

|  |  |
| --- | --- |
| Table | Link |
| City | address.\_city\_id = city.city\_id |

Address Table Links From:

|  |  |
| --- | --- |
| Table | Link |
| Staff | staff.address\_id = address.address\_id |
| Store | store.address\_id = address.address\_id |
| Customer | customer.address\_id = address.address\_id |

|  |  |  |  |
| --- | --- | --- | --- |
| City Table | | | |
| KEY | COLUMN | DATA TYPE | DESCRIPTION |
| Primary Key | City\_id | SERIAL | ID for city |
|  | City | CHARACTER VARYING (50) | City name |
| Foreign Key | Country\_id | SMALL INT | ID for countries |
|  | Last\_update | TIMESTAMP [6] WITHOUT TIME ZONE | Date of when data was last updated |

City Table Links

|  |  |
| --- | --- |
| Table | Link |
| Country | city.country\_id = country.country\_id |

City Table Links From:

|  |  |
| --- | --- |
| Table | Link |
| Address | address.city\_id = city.city\_id |

|  |  |  |  |
| --- | --- | --- | --- |
| Country Table | | | |
| KEY | COLUMN | DATA TYPE | DESCRIPTION |
| Primary Key | Country\_\_id | SERIAL | ID for country |
|  | Country | CHARACTER VAR(50) | Country name |
|  | Last\_update | TIMESTAMP [6] WITHOUT TIME ZONE | Date of when data was last updated |

Country Table Links To: N/A

Country Table Links FROM:

|  |  |
| --- | --- |
| Table | Link |
| City | city.country\_id = country.country\_id |

|  |  |  |  |
| --- | --- | --- | --- |
| Customer Table | | | |
| KEY | COLUMN | DATA TYPE | DESCRIPTION |
| Primary Key | Customer\_id | SERIAL | Unique customer ID |
|  | Store\_id | SMALLINT | Unique store ID |
|  | First\_name | CHARACTER VARYING (45) | First name of the customer |
|  | Last\_name | CHARACTER VARYING (45) | Last name of the customer |
|  | Email | CHARACTER VARYING (50) | Email ID of the customer |
| Foreign Key | Address\_id | SMALLINT | Address ID for the store |
|  | Activebool | BOOLEAN | True/false customer active |
|  | Create\_date | DATE | Date when customer is first created |
|  | Last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Last update in the table |

Customer Table Links To:

|  |  |
| --- | --- |
| Table | Link |
| Address | customer.address\_id = address.address\_id |

Customer Table Links FROM

|  |  |
| --- | --- |
| Table | Link |
| Rental | rental.customer\_id = customer.customer\_id |
| Payment | payment.customer\_id = customer.customer\_id |

|  |  |  |  |
| --- | --- | --- | --- |
| Film Category Table | | | |
| KEY | COLUMN | DATA TYPE | DESCRIPTION |
| Primary/Foreign Key | Film\_id | SMALLINT | Unique film ID |
| Primary/Foreign Key | Category\_id | SMALLINT | Unique category id |
|  | Last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Last update in the table |

Film category Table Links TO:

|  |  |
| --- | --- |
| Table | Link |
| Category | film\_category.category\_id = category.category\_id |
| Film | film\_category.film\_id = film.film\_id |

Film Category Table Links FROM: N/A

|  |  |  |  |
| --- | --- | --- | --- |
| Category Table | | | |
| KEY | COLUMN | DATA TYPE | DESCRIPTION |
| Primary Key | Category\_id | SMALLINT | Unique category id |
|  | Name | CHARACTER VAR(25) | Category name |
|  | Last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Last update in the table |

Category Table Links To:

Category Table Links FROM:

|  |  |
| --- | --- |
| Table | Link |
| Film Category | film\_category.category\_id = category.category\_id |

|  |  |  |  |
| --- | --- | --- | --- |
| Inventory Table | | | |
| KEY | COLUMN | DATA TYPE | DESCRIPTION |
| Primary Key | Inventory\_id | SERIAL | Unique inventory ID |
| Foreign Key | Film\_id | SMALLINT | Unique film ID |
|  | Store\_id | SMALLINT | Unique store ID |
|  | Last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Last update in the table |

Inventory Table Links TO:

|  |  |
| --- | --- |
| Table | Link |
| Film | inventory.film\_id = film.film\_id |

Inventory Table Links FROM:

|  |  |
| --- | --- |
| Table | Link |
| Rental | rental.inventory\_id = inventory.inventory\_id |

|  |  |  |  |
| --- | --- | --- | --- |
| Film Table | | | |
| KEY | COLUMN | DATA TYPE | DESCRIPTION |
| Primary Key | Film\_id | SERIAL | Unique film ID |
|  | Title | CHARACTER VARYING (255) | Title of the film |
|  | Description | TEXT | Description of the film |
|  | Release\_year | YEAR | Release year of the film |
| Foreign Key | Language\_id | SMALLINT | Unique language ID |
|  | Rental\_duration | SMALLINT | Duration of rental in days |
|  | Rental\_rate | NUMERIC(4,2) | Cost of the rental |
|  | Length | SMALLINT | Length of the film |
|  | Replacement \_cost | NUMERIC(5,2) | Cost of replacement if rental not returned |
|  | Rating | Mpaa\_rating | Rating of the film ex. PG-13, PG, G |
|  | Last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Last update in the table |
|  | Special\_features | TEXT() | Features of the film (ex. Deleted scenes, trailers) |
|  | Fulltext | TSVECTOR | Index for film |

Film Table Links TO:

|  |  |
| --- | --- |
| Table | Link |
| Language | film.language\_id = language.language\_id |

Film Table Links FROM:

|  |  |
| --- | --- |
| Table | Link |
| Film category | film\_category.film\_id = film.film\_id |
| Inventory | inventory.film\_id = film.film\_id |
| Film actor | film\_actor.film\_id = film.film\_id |

|  |  |  |  |
| --- | --- | --- | --- |
| Language Table | | | |
| KEY | COLUMN | DATA TYPE | DESCRIPTION |
| Primary Key | Inventory\_id | SERIAL | Unique inventory ID |
|  | Film\_id | SMALLINT | Unique film ID |
|  | Store\_id | SMALLINT | Unique store ID |
|  | Last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Last update in the table |

Language Table Links TO: N/A

Language Table Links FROM:

|  |  |
| --- | --- |
| Table | Link |
| Film | film.language\_id = language.language\_id |

|  |  |  |  |
| --- | --- | --- | --- |
| Film Actor Table | | | |
| KEY | COLUMN | DATA TYPE | DESCRIPTION |
| Primary/Foreign Key | Actor\_id | SMALLINT | Unique actor ID |
| Primary/Foreign Key | Film\_id | SMALLINT | Unique film ID |
|  | Last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Last update in the table |

Film Actor Table Links TO:

|  |  |
| --- | --- |
| Table | Link |
| Film | film\_actor.film\_id = film.film\_id |
| Actor | film\_actor.actor\_id = actor.actor\_id |

Film Actor Table Links From: N/A

|  |  |  |  |
| --- | --- | --- | --- |
| Actor Table | | | |
| KEY | COLUMN | DATA TYPE | DESCRIPTION |
| Primary Key | Actor\_id | SERIAL | Unique actor ID |
|  | First\_name | CHARACTER VARYING (45) | First name of the actor |
|  | Last\_name | CHARACTER VARYING (45) | Last name of the actor |
|  | Last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Last update in the table |

Actor Table Links TO: N/A

Actor Table Links From

|  |  |
| --- | --- |
| Table | Link |
| Film Actor | film\_actor.actor\_id = actor.actor\_id |