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ROCKBUSTER STEALTH LLC

Data Dictionary

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**1.Rockbuster Stealth LLC**

The Rockbuster Stealth data set contains information about the company’s inventory, rentals, customers, payments and employees.

It has 2 Fact tables and 14 Dimension Tables

Data Set URL: http://www.postgresqltutorial.com/wp-content/uploads/2019/05/dvdrental.zip

2.Legend

A yellow key with a white dot

Description automatically generated Primary Key

 Foreign Key

3. **ENTITY RELATIONSHIP DIAGRAM**

A diagram of a company

Description automatically generated with medium confidence

**Fact Table**

**Rental**

|  |  |  |
| --- | --- | --- |
| **COLUMNS** | **DATA TYPE** | **Description** |
| rental\_id | SERIAL | Unique ID number 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 TIMEZONE | Timestamp for the exact date and time this table was last updated |

|  |  |
| --- | --- |
| LINKS TO | |
| Table Name | Join |
| inventory | rental.inventory\_id = inventory.inventory\_id |
| Customer | rental.customer\_id = customer.customer\_id |
| Staff | rental.staff\_id = staff.staff\_id |
| LINKS FROM | |
| Table Name | Join |
| payment | rental.rental\_id = payment.rental\_id |

**Dimension Table**

**Payment**

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

|  |  |
| --- | --- |
| LINKS TO | |
| TABLE NAME | Join |
| Rental | payment.rental\_id = rental.rental\_id |
| customer | payment.customer\_id = customer.customer\_id |
| staff | payment.staff\_id = staff.staff\_id |

**Store**

|  |  |  |
| --- | --- | --- |
| **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 (including stores, staff, and customers. In this case it is the ID for the store address.) |
| last\_update | TIMESTAMP (6) WITHOUT TIME ZONE | Timestamp for the exact date and time this table was last updated |

|  |  |
| --- | --- |
| LINKS TO | |
| Table Name | Join |
| Staff | store.manager\_staff\_id = staff.staff\_id |
| address | store.address\_id = address.address\_id |

**Film\_Actor**

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

|  |  |
| --- | --- |
| LINKS TO | |
| Table Name | Join |
| Actor | film\_actor.actor\_id = actor.actor\_id |
| film | film\_actor.film\_id = film.film\_id |

**Inventory**

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| inventory\_id | SERIAL | Unique number identifying each rental unit in inventory |
| film\_id | SMALLINT | Unique ID number given to each film |
| store\_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 |

|  |  |
| --- | --- |
| LINKS TO | |
| Table Name | Join |
| film | inventory.film\_id = film.film\_id |
| LINKS FROM | |
| Table Name | Join |
| Rental | inventory.inventory\_id = rental.inventory\_id |

**Film Category**

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

|  |  |
| --- | --- |
| LINKS TO | |
| Table Name | Join |
| Category | film\_category.category\_id = category.category\_id |
| film | film\_category.film\_id = film.film\_id |

**Customer**

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| customer\_id | SERIAL | Unique number identifying each customer |
| store\_id | SMALLINT | Unique ID number for each store location |
| 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 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 |

|  |  |
| --- | --- |
| **LINKS TO** | |
| Table Name | Join |
| address | customer.address\_id = address.address\_id |

|  |  |
| --- | --- |
| LINKS FROM | |
| Table Name | Join |
| Rental | customer.rental\_id = rental.rental\_id |
| payment | customer.customer\_id = payment.customer\_id |

**Staff**

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| staff\_id | SERIAL | Unique number identifying each staff member |
| first\_name | CHARACTER VARYING(45) | First name of staff member |
| last\_name | CHARACTER VARYING(45) | Last name of 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) | Email address of 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 (16) | 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 |

|  |  |
| --- | --- |
| LINKS TO | |
| Table Name | Join |
| Address | staff.address\_id = address.address\_id |
| LINKS FROM | |
| Table Name | Join |
| store | staff.staff\_id = store.manager\_staff\_id |
| Payment | staff.staff\_id = payment.staff\_id |
| rental | staff.staff\_id = rental.staff\_id |

**ACTOR**

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| Actor\_id | SERIAL | Unique ID number given to each 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 | Timestamp for the exact date and time this table was last updated |

|  |  |
| --- | --- |
| LINKS FROM | |
| Table Name | Join |
| film\_actor | actor.actor\_id = film\_actor.actor\_id |

**FILM**

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| film\_id | SERIAL | Unique ID number given to each film |
| Title | CHARACTER VARYING (255) | Title of Film |
| description | TEXT | Description of film in text |
| release\_year | YEAR | The year the film released |
| language\_id | SMALLINT | The language of the film |
| rental\_duration | SMALLINT | The length of the rental in days |
| rental\_rate | NUMERIC (4,2) | Price of rental in USD |
| length | SMALLINT |  |
| 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 |

|  |  |
| --- | --- |
| LINKS TO | |
| Table Name | JOIN |
| Language | film.language\_id = language.language\_id |
| LINKS FROM | |
| Table Name | Join |
| film\_actor | film.film\_id = film\_actor.film\_id |
| inventory | film.film\_id = inventory.film\_id |
| film\_category | film.film\_id = film\_category.film\_id |

**Category**

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

|  |  |
| --- | --- |
| LINKS FROM | |
| Table Name | Join |
| film\_category | category.category\_id = film\_category.category\_id |

**Address**

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| address\_id | SERIAL | Unique ID number for each address |
| 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 |

|  |  |
| --- | --- |
| LINKS TO | |
| Table Name | Join |
| City | address.city\_id = city.city\_id |
| LINKS FROM | |
| Table Name | Join |
| customer | addres.address\_id = customer.address\_id |
| staff | address.addres\_id = staff.address\_id |
| store | address.address\_id = store.address\_id |

**Language**

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

|  |  |
| --- | --- |
| LINKS FROM | |
| Table Name | Join |
| film | language.language\_id = film.language\_id |

**City**

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| city\_id | SERIAL | Unique ID number given to each city |
| City | CHARACTER VARING (50) | Name of 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 |

|  |  |
| --- | --- |
| LINKS TO | |
| Table Name | Join |
| country | city.country\_id = country.country\_id |
| LINKS FROM | |
| Table Name | Join |
| Address | city.city\_id = address.city\_id |

**Country**

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

|  |  |
| --- | --- |
| LINKS FROM | |
| Table Name | Join |
| city | country.country\_id = city.country\_id |

**Employee** (Table does not link to or from any other table)

|  |  |  |
| --- | --- | --- |
| Name | Data Type | Description |
| Employee\_id | CHARACTER VARYING (30) | Unique ID number given to each employee |
| Name | CHARACTER VARYING (50) | Name of employee |
| Contact\_number | CHARACTER VARYING (30) | Phone number of employee |
| Designation\_id | INTEGER | Number designating employee |
| Last\_update | TIMESTAMP (6) WITHOUT TIME ZONE | Timestamp for the exact date and time this table was last updated |