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| Rockbuster Stealth |
| **Data Dictionary** |
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| Haley Bustle  10-16-2023 |

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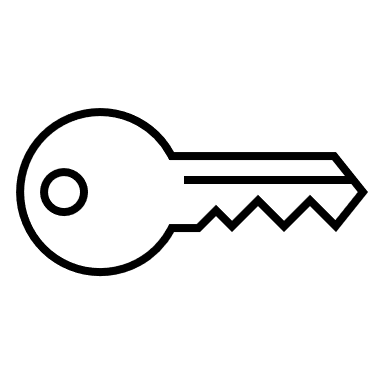
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# Rockbuster Stealth

The Rockbuster data set contains information about the company’s inventory, film information such as film actors and rental rates, customers, payments, and employees. It has two fact tables and fourteen dimension tables.

[Click here](http://www.postgresqltutorial.com/wp-content/uploads/2019/05/dvdrental.zip) to download the data set.

# Legend

 Primary

 Foreign

# Entity Relationship Diagram (ERD)

A diagram of a computer program

Description automatically generated with medium confidence

# Fact & Dimension Tables

Fact Tables

### Fact Table: Rental

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Column** | **Data Type** | **Description** |
| Key outline | rental\_id | SERIAL | id for rental item |
|  | rental\_date | TIMESTAMP(6) WITHOUT TIME ZONE | Timestamp for precise date & time rental occurs |
| Add with solid fill | inventory\_id | INTEGER | Number to identify each rental unit in inventory |
| Add with solid fill | customer\_id | SMALLINT | Number to identify each customer |
|  | return\_date | TIMESTAMP( 6) WITHOUT TIME ZONE | timestamp for precise date & time rental occurs |
| Add with solid fill | staff\_id | SMALLINT | number to identify each staff number |
|  | last\_update | TIMESTAMP( 6) WITHOUT TIME ZONE | timestamp for exact date and time the table was last updated |

### Fact Table: Payment

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Column** | **Data Type** | **Description** |
| Key outline | payment\_id | SERIAL | number to identify each payment transaction |
| Add with solid fill | customer\_id | SMALLINT | number to identify each individual customer |
| Add with solid fill | staff\_id | SMALLINT | number to identify each staff member |
| Add with solid fill | rental\_id | INTEGER | number for each renal occurrence |
|  | amount | NUMBERIC(5,2) | payment amount in USD |
|  | payment\_date | TIMESTAMP(6) WIHTOUT TIME ZONE | times stamp for exact date and time the table was last updated |

Dimension Tables

### Dimension Table: store

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Column** | **Data Type** | **Description** |
| Key outline | store\_id | SERIAL | ID number for each store location |
| Add with solid fill | manager\_staff\_id | SMALLINT | ID number for the manager of each store |
| Add with solid fill | address\_id | SAMLLINT | address for each store |
|  | last\_update | TIMESTAMP(6) WIHTOUT TIME ZONE | times stamp for exact date and time the table was last updated |

### 

### Dimension: inventory

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Column** | **Data Type** | **Description** |
| Key outline | inventory\_id | SERIAL | number to identify each rental unit in inventory |
| Add with solid fill | film\_id | SMALLINT | number to identify each film |
|  | store\_id | SMALLINT | number to identify each store location |
|  | last\_update | TIMESTAMP(6) WIHTOUT TIME ZONE | times stamp for exact date and time the table was last updated |

### Dimension Table: film\_actor

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Column** | **Data Type** | **Description** |
| Key outlineAdd with solid fill | actor\_id | SMALLINT | number to identify each film actor |
| Key outlineAdd with solid fill | film\_id | SMALLINT | number to identify each film |
|  | last\_update | TIMESTAMP(6) WIHTOUT TIME ZONE | times stamp for exact date and time the table was last updated |

### 

### Dimension Table: film\_category

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Column** | **Data Type** | **Description** |
| Key outlineAdd with solid fill | film\_id | SMALLINT | number to identify each film |
| Key outlineAdd with solid fill | category\_id | SMALLINT | number to identify each film category |
|  | last\_update | TIMESTAMP(6) WIHTOUT TIME ZONE | times stamp for exact date and time the table was last updated |

### 

### Dimension Table: customer

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Column** | **Data Type** | **Description** |
| Key outline | customer\_id | SERIAL | number to identify each customer |
|  | store\_id | SMALLINT | number to identify each store location |
|  | first\_name | CHARACTER VARYING(45) | first name of customer up to 45 characters |
|  | last\_name | CHARACTER VARYING (45) | last name of customer up to 45 characters |
|  | email | CHARACTER VARYING(50) | email address of customer up to 50 characters |
| Add with solid fill | address\_id | SMALLINT | number to identify addresses of customers |
|  | activebool | BOOLEAN | true or false: is customer currently active |
|  | create\_date | DATE | date customer account was made |
|  | last\_update | TIMESTAMP(6) WIHTOUT TIME ZONE | times stamp for exact date and time the table was last updated |
|  | active | INTEGER | 0 or 1 to indicate customer active status |

### 

### Dimension Table: staff

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Column** | **Data Type** | **Description** |
| Key outline | staff\_id | SERIAL | number to identify each staff member |
|  | first\_name | CHARACTER VARYING(45) | first name of staff member up to 45 characters |
|  | last\_name | CHARACTER VARYING(45) | last name of staff member up to 45 characters |
| Add with solid fill | address\_id | SMALLINT | number to identify each address for staff member |
|  | email | CHARACTER VARYING (50) | email address of staff member up to 50 characters |
|  | store\_id | SMALLINT | number to identify each store location |
|  | active | BOOLEAN | true or false: is staff member currently active |
|  | username | CHARACTER VARYING(16) | staff member username up to 16 characters |
|  | password | CHARACTER VARYING(40) | staff member password up to 40 characters |
|  | last\_updated | TIMESTAMP(6) WIHTOUT TIME ZONE | times stamp for exact date and time the table was last updated |
|  | picture | BYTEA | photo of staff member |

### Dimension Table: actor

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Column** | **Data Type** | **Description** |
| Key outline | actor\_id | SERIAL | number to identify each actor |
|  | first\_name | CHARACTER VARYING(45) | first name of actor up to 45 characters |
|  | last\_name | CHARACTER VARYING(45) | last name of actor up to 45 characters |
|  | last\_update | TIMESTAMP(6) WIHTOUT TIME ZONE | times stamp for exact date and time the table was last updated |

### Dimension Table: film

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Column** | **Data Type** | **Description** |
| Key outline | film\_id | SERIAL | number to identify each film |
|  | title | CHARACTER VARYING(255) | title of film up to 255 characters |
|  | description | TEXT | description of film as text |
|  | release\_year | year | the year of a film’s release |
| Add with solid fill | language\_id | SMALLINT | language of the film |
|  | rental\_duration | SMALLINT | length of film rental in days |
|  | rental\_rate | SMALLINT | price of rental in USD |
|  | length | SMALLINT | length of film in minutes |
|  | replacement\_cost  rating | NUMERIC(5,2)  mpaa\_rating | Cost of replacing each film lost in USD  rating given to each film by MPAA |
|  | last\_update | TIMESTAMP(6) WIHTOUT TIME ZONE | times stamp for exact date and time the table was last updated |
|  | special\_features | TEXT[] | special features accompanying the film |
|  | fulltext | TSVECTOR | text search vectors for full film text search function |

### Dimension Table: category

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Column** | **Data Type** | **Description** |
| Key outline | category\_id | SERIAL | id number for each film in given category |
|  | name | CHARACTER\_VARYING(25) | name of category |
|  | last\_update | TIMESTAMP(6) WIHTOUT TIME ZONE | times stamp for exact date and time the table was last updated |

### Dimension Table: address

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Column** | **Data Type** | **Description** |
| Key outline | address\_id | SERIAL | number to identify each address (stores, staff, customers) |
|  | address | CHARACTER VARYING(50) | address up to 50 characters |
|  | address2 | CHARACTER VARYING(50) | second line of street address for unit/apartment number if needed up to 50 characters |
|  | district | CHARACTER VARYING(20) | state, province, or territory of address |
| Add with solid fill | city\_id | SMALLINTY | number to identify each city |
|  | postal\_code | CHARACTER VARYING(10) | postal code for address up to 10 characters |
|  | phone | CHARACTER VARYING(20) | phone number matching stated customer, store, or staff member |
|  | last\_update | TIMESTAMP(6) WIHTOUT TIME ZONE | times stamp for exact date and time the table was last updated |

### Dimension Table: language

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Column** | **Data Type** | **Description** |
| Key outline | language\_id | SERIAL | number to identify each language in which each film is presented |
|  | name | CHARACTER(20) | language name |
|  | last\_update | TIMESTAMP(6) WIHTOUT TIME ZONE | times stamp for exact date and time the table was last updated |

### Dimension Table: city

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Column** | **Data Type** | **Description** |
| Key outline | city\_id | SERIAL | number to identify each city |
|  | city | CHARACTER VARYING(50) | name of city up to 50 characters |
| Add with solid fill | country\_id | SMALLINTY | number to identify each country |
|  | last\_update | TIMESTAMP(6) WIHTOUT TIME ZONE | times stamp for exact date and time the table was last updated |

### Dimension Table: country

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Column** | **Data Type** | **Description** |
| Key outline | country\_id | SERIAL | number to identify each country |
|  | country | CHARACTER VARYING(50) | name of country up to 50 characters |
|  | last\_update | TIMESTAMP(6) WIHTOUT TIME ZONE | times stamp for exact date and time the table was last updated |