

Rockbuster Stealth

Data Dictionary

By Heather Stewart

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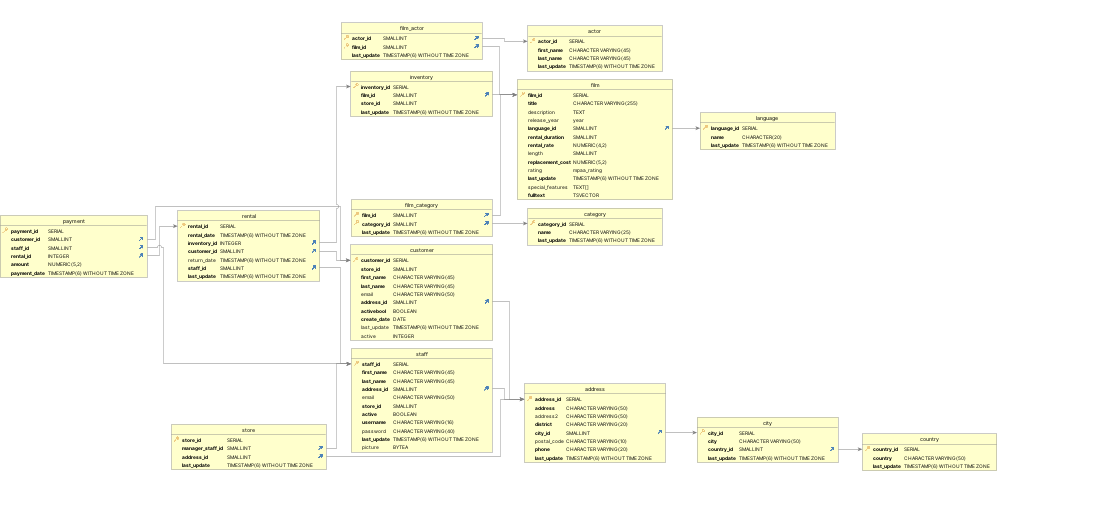
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***Data Storage & Structure***

***Rockbuster Entity Relationship Diagram (ERD)***



|  |  |
| --- | --- |
| **Legend Key** | **Key Type** |
| A yellow key with a number on it  Description automatically generated | Primary Key |
| A blue key with a circle  Description automatically generated | Foreign Key |

**Fact Tables**

**Payment**

|  |  |  |  |
| --- | --- | --- | --- |
| Key | Column | Data Type | Description |
| A yellow key with a number on it  Description automatically generated | payment\_id | serial | Unique transaction identification numbers for each payment. |
| A blue key with a circle  Description automatically generated | customer\_id | SMALLINT | Unique numbers assigned to identify each customer. |
| A blue key with a circle  Description automatically generated | staff\_id | SMALLINT | Consist of unique numbers (1,2) assigned to each staff member |
| A blue key with a circle  Description automatically generated | rental\_id | INTEGAR | number |
| N/A | amount | NUMERIC | Monetary amount for each rental. |
| N/A | payment\_date | TIMESTAMP | Has date in numerical format e.g., year, month |

Links to:

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

**Film Actor**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Column** | **Data Type** | **Description** |
| A yellow key with a number on it  Description automatically generatedA blue key with a circle  Description automatically generated | actor\_id | SMALLINT | Consist of unique number eg. 1,2,3.. assigned to each actor. |
| A yellow key with a number on it  Description automatically generatedA blue key with a circle  Description automatically generated | film\_id | SMALLINT | Consist of unique id numbers |
| N/A | last\_update | TIMESTAMP | Consist of dates in numerical format e.g. year, month, date and hour of film actor last updated. |

Links to:

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

**Dimension Tables**

**Rental**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Column** | **Data Types** | **Description** |
| A yellow key with a number on it  Description automatically generated | rental\_id | SERIAL | Consist of unique numbers counting upwards eg. 1,2,3… of each movie rental. |
| N/A | rental\_date | TIMESTAMP | Consist of dates in numerical format e.g. year, month, date, and time of day assigned to each movie of when it was rented. |
| A blue key with a circle  Description automatically generated | inventory\_id | INTEGER | Each row has a unique id number for each movie in the inventory. |
| A blue key with a circle  Description automatically generated | customer\_id | SMALLINT | Each row has a unique id number assigned to each customer. |
| N/A | return\_date | TIMESTAMP | Consist of dates in numerical format e.g. year, month, date and hour of when rental was return. |
| A blue key with a circle  Description automatically generated | staff\_id | SMALLINT | Consist of numbers (1, 2) |
| N/A | last\_update | Timestamp without time zone | Consist of dates e.g year, month, date and hour last updated. |

Links to:

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

Links from:

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

**Store**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Column** | **Data Type** | **Description** |
| A yellow key with a number on it  Description automatically generated | store\_id | INTEGER | Unique number assigned to each store. |
| A blue key with a circle  Description automatically generated | manager\_staff id | SMALLINT | Unique number assigned to each store manager. |
| A blue key with a circle  Description automatically generated | address\_id | SMALLINT | Unique number assigned to each manager store address. |
| N/A | last\_update | TIMESTAMP | Time the table was last updated, year, month, day, and minutes. |

Links to

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

**Inventory**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Column** | **Data Type** | **Description** |
| A yellow key with a number on it  Description automatically generated | inventory\_id | SERIAL | Consist of unique numbers 1,2, 3… assigned to movie in the inventory. |
| A blue key with a circle  Description automatically generated | film\_id | SMALLINT | Consist of unique number such as 1, 1, 2, 2, … assigned to each film. |
| A blue key with a circle  Description automatically generated | store\_id | SMALLINT | Consist of unique number such as 1,1, 2, 2, … assigned to each store. |
| N/A | last\_update | TIMESTAMP | Consist of dates in numerical format such as year, month, day, hour, and minutes of inventory last updated. |

Links to:

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

Link from:

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

**Film category**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Column** | **Data Type** | **Description** |
| A yellow key with a number on it  Description automatically generated | film\_id | SMALLINT | Consist of unique numbers counting upward such as 1, 2, 3, 4…. Assigned to each film. |
| A yellow key with a number on it  Description automatically generated | category\_id | SMALLINT | Consist of unique numbers randomly assigned to each film. |
| N/A | last\_update | TIMESTAMP | Consist of dates in numerical format e.g. year, month, day, hour and mins of when last updated. |

Links to:

|  |  |
| --- | --- |
| **Table** | **Join** |
| film |  |
|  |  |

**Customer**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Columns** | **Data Types** | **Description** |
| A yellow key with a number on it  Description automatically generated | customer\_id | INTEGER | Consist of unique numbers which is in random format to each customer |
| A blue key with a circle  Description automatically generated | store\_id | SMALLINT | Consist of numbers 1,2 for each store |
|  | first\_name | CHAVAR (45) | Customers first names in text format |
|  | last\_name | CHAVAR (45) | Customers last names in text format |
|  | email | CHAVAR (50) | Customers email address in text format |
| A blue key with a circle  Description automatically generated | address\_id | SMALLINT | Consist of numbers |
|  | activebool | BOOLEAN | Consist of true or false statements for customers that are active or not active. |
|  | Create\_date | DATE | Consist of date year-month-day |
|  | Last\_update | TIMESTAMP | Consist of dates in numerical format, year, month, date, hour, mins and a series of numbers of when last update |
|  | Active | INTEGER | Consist of a number (1) |

Links to:

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

Links from:

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

**Staff**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Columns** | **Data Type** | **Description** |
| A yellow key with a number on it  Description automatically generated | staff\_id | INTEGER | Consist of unique numbers for each staff members |
|  | first\_name | CHAVAR (45) | Consist of staff first name (text) |
|  | last\_name | CHAVAR (45) | Consist of staff last name (text) |
| A blue key with a circle  Description automatically generated | address\_id | SMALLINT | Consist of unique numbers for each staff members that identify their address. |
|  | email | CHAVAR (50) | Consist of text and numbers |
|  | store\_id | SMALLINT | Consist of numbers |
|  | active | BOOLEAN | Consist of true/false statement for whether the staff member is active |
|  | username | CHAVAR (16) | Consist of text |
|  | password | CHAVAR (40) | Consist of text and number |
|  | last\_update | TIMESTAMP | Consist of dates in number format, year, month, day, hour, mins and serial numbers of when the table was last updated |

Links for:

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

Links from:

|  |  |
| --- | --- |
| Table | Join |
| payment | payment.staff\_id = staff.staff\_id |
| rental | rental.customer\_id = rental.cusstomer\_id |
| store | store.manager staff\_id = staff.staff\_id |

**Actor**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Columns** | **Data Type** | **Description** |
| A yellow key with a number on it  Description automatically generated | actor\_id | INTEGER | Unique numbers assigned to each actor (counting upward from 1). |
|  | first\_name | CHAVAR (45) | First name of each actor/text format |
|  | last\_name | CHAVAR (45) | Last name of each actor/ text format |
|  | last\_update | TIMESTAMP | Time of when table was last update; has year, month, day and mins. |

Links from:

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

**Film**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Columns** | **Data Type** | **Description** |
| A yellow key with a number on it  Description automatically generated | film\_id | SERIAL | Consist of unique numbers assigned to each movie. |
|  | title | CHAVAR (255) | Consist of movie title for each movie. |
|  | description | TEXT | Movie description/text format. |
|  | release\_year | YEAR | Consist of the year the movie was released. |
| A blue key with a circle  Description automatically generated | language\_id | SMALLINT | Consist of unique numbers assigned to each movie language. |
|  | rental\_duration | SMALLINT | The number of days the movie was rented. |
|  | rental\_rate | NUMERIC(4,2) | The monetary value for each movie rental. |
|  | length | SMALLINT | The duration of the movie in minutes. |
|  | replacement\_cost | INTEGER (5, 2) | Monetary value it cost to replace each movie rented. |
|  | rating | MPAA | A mix of text and numbers that describe the movie ratings. |
|  | last\_update | TIMESTAMP | The time the table was last updated reflected in year, month, day, and minutes. |
|  | special \_features | TEXT | Added special features with each movie/text format. |
|  | fulltext | TSVECTOR | Search key words assigned to each movie. |

Links to:

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

Link from:

|  |  |
| --- | --- |
| Table | Join |
| film\_actor | film\_actor.film = film.film\_id |
| inventory | inventory.film\_id = film.film\_id |
| film\_category | film\_category.film\_id = film.film\_id |

**Category**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Columns** | **Data Type** | **Description** |
| A yellow key with a number on it  Description automatically generated | category\_id | INTEGER | Unique numbers assigned to each category. |
|  | name | CHAVAR (25) | Movie classification |
|  | last\_update | TIMESTAMP | Time the table was last updated, year, month, day and minutes. |

Links from:

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

**Language**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Columns** | **Data Type** | **Descripton** |
| A yellow key with a number on it  Description automatically generated | language\_id | INTEGER | Unique numbers assigned to identify each language |
|  | name | CHAVAR (20) | Name of language |
|  | last\_update | TIMESTAMP | Time the table was last updated, year, month, day and minutes. |

Links from:

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

**Address**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Columns** | **Data Type** | **Description** |
| A yellow key with a number on it  Description automatically generated | address\_id | SERIAL | Unique numbers for each store, staff member, and customer identifying their address. |
|  | address | CHAVAR (50) | Address for each store, staff and customer/ text and numbers |
|  | address2 | CHAVAR (50) | Address information continued part 2 / text and numbers. |
|  | district | CHAVAR (20) | County, State, province of each address. |
| A blue key with a circle  Description automatically generated | city\_id | SMALLINT | Unique number assigned to each city. |
|  | postal\_code | CHAVAR (10) | Zip code for each address |
|  | phone | CHAVAR (20) | Phone number for each address listed. |
|  | last\_update | TIMESTAMP | Time the table was last updated, year, month, day and minutes. |

Links to:

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

**City**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Columns** | **Data Type** | **Description** |
| A yellow key with a number on it  Description automatically generated | city\_id | INTEGEER | Unique number assigned to each city. |
|  | city | CHAVAR (50) | Name of each city. |
| A blue key with a circle  Description automatically generated | country\_id | SMALLINT | Unique number assigned to identify each country. |
|  | last\_update | TIMESTAMP | The time the table was last updated, year, month, day, minutes. |

Links to:

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

Links from:

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

**Country**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Columns** | **Data Type** | **Description** |
| A yellow key with a number on it  Description automatically generated | country\_id | iINTEGER | Unique value assigned to identify each country. |
|  | country | CHAVAR (50) | Name of each country |
|  | last\_update | TIMESTAMP | The time of table last update, year, month, day and minutes. |

Links from:

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