**ROCKBUSTER DATA DICTIONARY**

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ENTITY RELATIONSHIP DIAGRAM

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Description automatically generated with medium confidence

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| **FACT TABLES** | |  |  |  |
| **Table** | **Column** | **Data Type** | **Description** | **Key Type** |
| **Rental** | Rental\_id | Integer | Unique ID Number for each rental | Primary |
|  | Rental\_date | Timestamp without time zone | Date and time of each rental |  |
|  | Inventory\_id | Integer | Unique inventory ID of each rental | Foreign |
|  | Customer\_id | Smallint | Unique customer ID | Foreign |
|  | Return\_date | Timestamp without time zone | Date and time of return for each rental |  |
|  | Staff\_id | Smallint | Unique staff member ID | Foreign |
|  | Last\_update | Timestamp without time zone | Date and time of last update for each entry |  |
|  | **Links From** | **Key Type** | **Join** |  |
|  | Customer | Foreign | rental.customer\_id=customer.customer\_id |  |
|  | Staff | Foreign | rental.staff\_id=staff.staff\_id |  |
|  | Inventory | Foreign | rental.inventory\_id=inventory.inventory\_id |  |
|  | **Links to** | **Key Type** | **Join** |  |
|  | Payment | Primary | rental.rental\_id=payment.rental\_id |  |
|  |  |  |  |  |
| **Table** | **Column** | **Data Type** | **Description** | **Key Type** |
| **Payment** | Payment\_id | Serial | Chronological record of each payment | Primary |
|  | Customer\_id | Smallint | Unique customer ID | Foreign |
|  | Staff\_id | Smallint | Unique staff ID | Foreign |
|  | Rental\_id | Integer | Unique ID for each rental | Foreign |
|  | Amount | Numeric(5,2) | Cost of each rental |  |
|  | Payment\_date | Timestamp without time zone | Date and time of each rental |  |
|  | **Links From** | **Key Type** | **Join** |  |
|  | Customer | Foreign | payment.customer\_id=customer.customer\_id |  |
|  | Staff | Foreign | payment.staff\_id=staff.staff\_id |  |
|  | Inventory | Foreign | payment.inventory\_id=inventory.inventory\_id |  |
|  |  |  |  |  |
| **DIMENSION TABLES** | | |  |  |
| **Table** | **Column** | **Data Type** | **Description** | **Key Type** |
| **Store** | Store\_id | Serial | Unique store ID chronological from opening | Primary |
|  | Manager\_staff\_id | Smallint | Unique manager ID | Foreign |
|  | Address\_id | Smallint | Unique address ID | Foreign |
|  | Last\_update | Timestamp without time zone | Date and time of last update of entry |  |
|  | **Links From** | **Key Type** | **Join** |  |
|  | Staff | Foreign | store.manager\_staff\_id=staff.staff\_id |  |
|  | Address | Foreign | store.address\_id=inventory.address\_id |  |
|  | **Links to** | **Key Type** | **Join** |  |
|  | Inventory | Primary | store.store\_id=inventory.store\_id |  |
|  |  |  |  |  |
| **Table** | **Column** | **Data Type** | **Description** | **Key Type** |
| **Film\_Actor** | Actor\_id | Smallint | Unique actor ID | Primary, Foreign |
|  | Film\_id | Smallint | Unique film ID | Primary, Foreign |
|  | **Links To** | **Key Type** | **Join** |  |
|  | Film | Foreign | film\_actor.film\_id=film.film\_id |  |
|  | Film\_Category | Foreign | film\_actor.film\_id=film\_category.film\_id |  |
|  | Actor | Foreign | film\_actor.actor\_id=actor.actor\_id |  |
|  | Inventory | Foreign | film\_actor.film\_id=inventory.film\_id |  |
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| **Table** | **Column** | **Data Type** | **Description** | **Key Type** |
| **Inventory** | Inventory\_id | Integer | Unique inventory ID of each rental | Primary |
|  | Film\_id | Smallint | Unique film ID | Foreign |
|  | Store\_id | Serial | Unique store ID chronological from opening | Foreign |
|  | Last\_update | Timestamp without time zone | Date and time of last update of entry |  |
|  | **Links From** | **Key Type** | **Join** |  |
|  | Rental | Foreign | inventory.inventory\_id=rental.inventory\_id |  |
|  | **Links to** | **Key Type** | **Join** |  |
|  | Film\_actor | Foreign | store.store\_id=inventory.store\_id |  |
|  | Film\_category | Foreign | inventory.film\_id=film\_category.film\_id |  |
|  | Film | Primary | inventory.film\_id=film.film\_id |  |
|  |  |  |  |  |
| **Table** | **Column** | **Data Type** | **Description** | **Key Type** |
| **Film\_Category** | Film\_id | Smallint | Unique film ID | Primary, Foreign |
|  | Category\_id | Smallint | Numerical ID for category of film | Primary, Foreign |
|  | **Links To** | **Key Type** | **Join** |  |
|  | Film | Foreign | film\_category.film\_id=film.film\_id |  |
|  | Film\_actor | Foreign | film\_category.film\_id=film\_actor.film\_id |  |
|  | Category | Foreign | film\_category.cagtegory\_id=category.category\_id |  |
|  | Inventory | Foreign | film\_category.film\_id=inventory.film\_id |  |
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| **Table** | **Column** | **Data Type** | **Description** | **Key Type** |
| **Customer** | Customer\_id | Smallint | Unique customer ID | Primary |
|  | Store\_id | Serial | Unique store ID chronological from opening | Foreign |
|  | First\_name | Character varying (45) | First name of customer |  |
|  | Last\_name | Character varying (45) | Last name of customer |  |
|  | Email | Character varying(50) | Customer email address |  |
|  | Address\_id | Smallint | Unique address ID | Foreign |
|  | Activebool | Boolean | Active/inactive |  |
|  | Create\_date | Date | Date of creation of account |  |
|  | Last\_update | Timestamp without time zone | Date and time of last update of entry |  |
|  | Active | Integer | Active/inactive |  |
|  | **Links From** | **Key Type** | **Join** |  |
|  | Rental | Foreign | customer.customer\_id=rental.customer\_id |  |
|  | Payment | Foreign | customer.customer\_id=payment.customer\_id |  |
|  | **Links To** | **Key Type** | **Join** |  |
|  | Staff | Foreign | customer.staff\_id=staff.staff\_id |  |
|  | Address | Foreign | customer.address\_id=address.address\_id |  |
|  | Store | Foreign | customer.address\_id=store.address\_id |  |
|  |  |  |  |  |
| **Table** | **Column** | **Data Type** | **Description** | **Key Type** |
| **Staff** | Staff\_id | Smallint | Unique staff ID | Primary |
|  | First\_name | Character varying (45) | First name of staff |  |
|  | Last\_name | Character varying (45) | Last name of staff |  |
|  | Address\_id | Smallint | Unique address ID | Foreign |
|  | Email | Character varying(50) | Staff email address |  |
|  | Store\_id | Serial | Unique store ID chronological from opening | Foreign |
|  | Active | Boolean | Active/inactive |  |
|  | Username | Character varying (16) |  |  |
|  | Password | Character varying (40) |  |  |
|  | Last\_update | Timestamp without time zone | Date and time of last update of entry |  |
|  | Picture | Bytea | Picture of employee |  |
|  | **Links From** | **Key Type** | **Join** |  |
|  | Rental | Foreign | staff.staff\_id=rental.staff\_id |  |
|  | Payment | Foreign | staff.staff\_id=payment.staff\_id |  |
|  | Store | Foreign | staff.store\_id=store.manager\_staff\_id |  |
|  | **Links To** | **Key Type** | **Join** |  |
|  | Address | Foreign | staff.address\_id=address.address\_id |  |
|  |  |  |  |  |
| **Table** | **Column** | **Data Type** | **Description** | **Key Type** |
| **Actor** | Actor\_id | Smallint | Unique actor ID | Primary |
|  | First\_name | Character varying (45) | First name of actor |  |
|  | Last\_name | Character varying (45) | Last name of actor |  |
|  | Last\_update | Timestamp without time zone | Date and time of last update of entry |  |
|  | **Links From** | **Key Type** | **Join** |  |
|  | Film\_actor | Primary | actor.actor\_id=film\_actor.actor\_id |  |
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| **Table** | **Column** | **Data Type** | **Description** | **Key Type** |
| **Film** | Film\_id | Smallint | Unique film ID | Primary |
|  | Title | Character varying(255) | Film Title |  |
|  | Description | Text | Description of film |  |
|  | Release\_year | Year | Year of release |  |
|  | Language\_id | Smallint | Numeric language identifier | Foreign |
|  | Rental\_duration | Smallint | Duration of rental |  |
|  | Rental\_rate | Numeric(4,2) | Number of rentals? |  |
|  | Length | Smallint | Length of film in minutes |  |
|  | Replacement\_cost | Numeric(5,2) | Cost to replace item |  |
|  | Rating | Mpaa\_rating | Film rating |  |
|  | Last\_update | Timestamp without time zone | Date and time of last update of entry |  |
|  | Special\_features | Text | Description of special features |  |
|  | Fulltext | Tsvector | Full text of film |  |
|  | **Links From** | **Key Type** | **Join** |  |
|  | Film\_actor | Foreign | film.film\_id=film\_actor.film\_id |  |
|  | Inventory | Foreign | film.film\_id=inventory.film\_id |  |
|  | Film\_category | Foreign | film.film\_id=film\_category.film\_id |  |
|  | **Links To** | **Key Type** | **Join** |  |
|  | Language | Foreign | film.language\_id=language.language\_id |  |
|  |  |  |  |  |
| **Table** | **Column** | **Data Type** | **Description** | **Key Type** |
| **Category** | Category\_id | Serial | Numerical category identifier | Primary |
|  | Name | Character varying (25) | Category name |  |
|  | Last\_update | Timestamp without time zone | Date and time of last update of entry |  |
|  | **Links To** | **Key Type** | **Join** |  |
|  | Film\_category | Foreign | category.category\_id=film\_category.category\_id |  |
|  |  |  |  |  |
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|  |  |  |  |  |
|  |  |  |  |  |
| **Table** | **Column** | **Data Type** | **Description** | **Key Type** |
| **Language** | Language\_id | Serial | Numerical language identifier | Primary |
|  | Name | Character varying (20) | Language name |  |
|  | Last\_update | Timestamp without time zone | Date and time of last update of entry |  |
|  | **Links To** | **Key Type** | **Join** |  |
|  | Film | Foreign | language.language\_id=film.language\_id |  |
|  |  |  |  |  |
| **Table** | **Column** | **Data Type** | **Description** | **Key Type** |
| **Address** | Address\_id | Serial | Unique store address ID | Primary |
|  | Address | Character varying(50) | Store street address |  |
|  | Address2 | Character varying(50) | Store street address (line 2) |  |
|  | District | Character varying(20) | Address district |  |
|  | City\_id | Smallint | Unique city ID | Foreign |
|  | Postal\_code | Character varying(10) | Postal code |  |
|  | Phone | Character varying(20) | Store phone number |  |
|  | Last\_update | Timestamp without time zone | Date and time of last update of entry |  |
|  | **Links From** | **Key Type** | **Join** |  |
|  | Customer | Foreign | address.address\_id=customer.address\_id |  |
|  | Staff | Foreign | address.address\_id=staff.address\_id |  |
|  | Store | Foreign | address.address\_id=store.address\_id |  |
|  | **Links To** | **Key Type** | **Join** |  |
|  | City | Foreign | address.city\_id=city.city\_id |  |
|  |  |  |  |  |
| **Table** | **Column** | **Data Type** | **Description** | **Key Type** |
| **City** | City\_id | Serial | Unique city ID | Primary |
|  | City | Character varying(50) | City name |  |
|  | Country\_id | Smallint | Unique country ID | Foreign |
|  | Last\_update | Timestamp without time zone | Date and time of last update of entry |  |
|  | **Links From** | **Key Type** | **Join** |  |
|  | Address | Foreign | city.city\_id=address.city\_id |  |
|  | **Links To** | **Key Type** | **Join** |  |
|  | Country | Foreign | city.country\_id=country.country\_id |  |
|  |  |  |  |  |
| **Table** | **Column** | **Data Type** | **Description** | **Key Type** |
| **Country** | Country\_id | Serial | Unique country ID | Primary |
|  | Country | Character varying(50) | Country name |  |
|  | Last\_update | Timestamp without time zone | Date and time of last update of entry |  |
|  | **Links From** | **Key Type** | **Join** |  |
|  | City | Foreign | country.country\_id=city.country\_id |  |