Rockbuster database

Rockbuster |

Data dictionary

2023

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| **Rockbuster database:** | **Content** |

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| ROCKBUSTER DATABASE: **Entity Relationship Diagram** |

**ROCKBUSTER DATABASE:**

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| Entity Relationship Diagram |  |

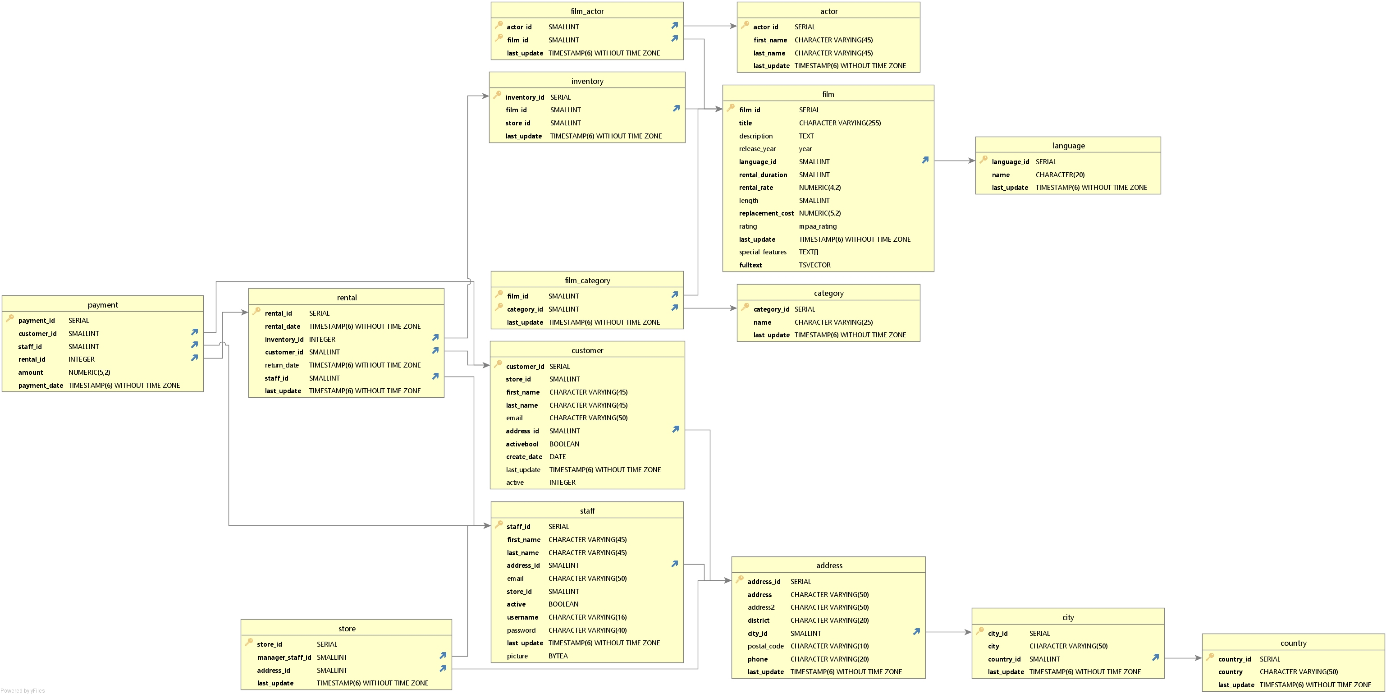


Figure 1: In this diagram we can see tables and relationships which exist within Rockbuster database

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| ROCKBUSTER DATABASE: **DATA TABLE** |

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| Data tables: | Rental |

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| Columns | Data Type | Description |
| Key with solid fillRental\_id | SERIAL | Unique ID for each rental event |
| Rental\_date | TIMESTAMP(6) WITHOUT TIMEZONE | Time in which the event took place |
| Inventory\_id | INTEGER | Unique ID of each item |
| Customer\_id | SMALLINT | Unique ID to identify each customer |
| Return\_date | TIMESTAMP(6) WITHOUT TIMEZONE | The date when each item has been returned |
| Staff\_id | SMALLINT | Unique ID of the employee who processed the transaction |
| Last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Time when the information was updated |
| Linked to | | |
| Table name | Join on: | |
| Inventory | Inventory\_id | |
| Customer | Customer\_id | |
| Staff | Staf\_id | |
| Payment | Rental\_id | |

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| Data tables: | Payment |

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| Columns | Data Type | Description |
| Key with solid fillPayment\_id | SERIAL | Unique ID of each transaction |
| Customer\_id | SMALLINT | Unique ID to identify each customer |
| Staff\_id | SMALLINT | Unique ID of the employee who processed the transaction |
| Rental\_id | SERIAL | Unique ID for each rental event |
| Amount | NUMERIC(5,2) | Amount paid for rental |
| Payment\_date | TIMESTAMP(6) WITHOUT TIMEZONE | The date when the payment occurred |
| Linked to: | | |
| Table name | Join on: | |
| Customer | Customer\_id | |
| Staff | Staff\_id | |
| Rental | Rental\_id | |

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| Data tables: | Film |

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| Columns | Data Type | Description |
| Key with solid fillFilm\_id | SERIAL | Unique ID of the Item |
| Title | CHARACTER VARYING(255) | Title of the film |
| Description | TEXT | Film description |
| Release\_year | YEAR | Release date of the film |
| Language\_id | SMALLINT | Unique ID of language |
| Rental\_duration | SMALLINT | Rental duration (why do we have it here?) |
| Rental\_rate | NUMERIC(4,2) | Price for item’s rental |
| Length | SMALLINT | Film duration |
| Replacement\_cost | NUMERIC(5,2) | The price which has to be paid in case of replacement |
| Rating | Mpaa\_rating | Rating of the film |
| Last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Time when the information in this table was updated last time |
| Special\_features | TEXT[] | Description of special features of the film |
| Fulltext | TSVECTOR | Array of characteristics like recommended age, genre, keywords |
| Linked to: | | |
| Table name | Join on: | |
| Language | Language\_id | |
| Film\_category | Film\_id | |
| Inventory | Film\_id | |
| Film\_actor | Film\_id | |

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| Data tables: | Film actor |

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| Columns | Data Type | Description |
| Key with solid fillActor\_id | SMALLINT | Unique ID of the actor |
| Key with solid fillFilm\_id | SMALLINT | Unique ID of film |
| Last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Time when the information in this table was updated last time |
| Linked to: | | |
| Table name | Join on | |
| Actor | Actor\_id | |
| Film | Film\_id | |

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| Data tables: | Actor |

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| Columns | Data Type | Description |
| Key with solid fillActor\_id | SERIAL | Unique ID of the actor |
| First\_name | CHARACTER VARYING(45) | Actor’s first name |
| Last\_name | CHARACTER VARYING(45) | Actor’s last name |
| Last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Time when the information in this table was updated last time |
| Linked to | | |
| Table | Join on | |
| Film actor | Actor\_id | |

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| Data tables: | Inventory |

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| --- | --- | --- |
| Columns | Data Type | Description |
| Key with solid fillInventory\_id | SERIAL | ID of each item |
| Film\_id | SMALLINT | Unique ID of the film (item) |
| Last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Time when the information in this table was updated last time |
| Linked to | | |
| Table | Join on | |
| Film | Film\_id | |
| Rental | Inventory\_id | |

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| Data tables: | Language |

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| Columns | Data Type | Description |
| Key with solid fillLanguage\_id | SERIAL | Unique ID for language category |
| Name | CHARACTER(20) | Name of the language |
| Last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Time when the information in this table was updated last time |
| Linked to | | |
| Table | Join on | |
| Film | Language\_id | |

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| --- | --- |
| Data tables: | Film category |

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| --- | --- | --- |
| Columns | Data Type | Description |
| Key with solid fillFilm\_id | SMALLINT | Unique ID of the film |
| Key with solid fillCategory\_id | SMALLINT | Unique ID of category |
| Last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Time when the information in this table was updated last time |
| Linked to: | | |
| Table | Join on | |
| Film | Film\_id | |
| Category | Category\_id | |

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| --- | --- |
| Data tables: | Category |

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| --- | --- | --- |
| Columns | Data Type | Description |
| Key with solid fillCategory\_id | SERIAL | Unique ID for category |
| Name | CHARACTER VARYING(25) | Name of category |
| Last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Time when the information in this table was updated last time |
| Linked to: | | |
| Table | Join on | |
| Film\_category | Category\_id | |

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| Data tables: | Customer |

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| Columns | Data Type | Description |
| Key with solid fillCustomer\_id | SERIAL | Unique ID of the customer |
| Store\_id | SMALLINT | Unique ID of each store |
| 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 address of the customer |
| Address\_id | SMALLINT | Unique id for address. |
| Activebool | BOOLEAN | Describes with yes/no answer whether the address is active or not |
| Create\_date | DATE | Date the address was created |
| Last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Time when the information in this table was updated last time |
| Active | INTEGER | Numeric expression of activebool. |
| Linked to: | | |
| Table | Join on | |
| Rental | Customer\_id | |
| Address | Address\_id | |
| Payment | Customer\_iD | |

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| Data tables: | Staff |

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| Columns | Data Type | Description |
| Key with solid fillStaff\_id | SERIAL | Unique ID of the employee |
| First\_name | CHARACTER VARYING(45) | First name of the employee |
| Last\_name | CHARACTER VARYING(45) | Last name of the employee |
| Address\_id | SMALLINT | Unique id for address |
| Email | CHARACTER VARYING(50) | Email address of the customer |
| Store\_id | SMALLINT | Unique ID of the store |
| Activebool | BOOLEAN | Describes with yes/no answer whether the address is active or not |
| Username | CHARACTER VARYING(16) | User name of the employee |
| Password | CHARACTER VARYING(40) | Password of the employee |
| Last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Time when the information in this table was updated last time |
| Picture | BYTEA | Picture of the employee |
| Linked to: | | |
| Table | Join on | |
| Payment | Staff\_id | |
| Address | Address\_id | |
| Rental | Staff\_id | |
| Store | Staff\_id | |

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| --- | --- |
| Data tables: | Store |

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| --- | --- | --- |
| Columns | Data Type | Description |
| Key with solid fillStore\_id | SERIAL | Unique ID of the store |
| Manager\_staff\_id | SMALLINT | Unique ID of the manager |
| Address\_id | SMALLINT | Unique ID of address |
| Last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Time when the information in this table was updated last time |
| Linked to: | | |
| Table | Join on | |
| Staff | Manager\_staff\_id | |
| Address | Address\_id | |

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| --- | --- |
| Data tables: | Address |

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| --- | --- | --- |
| Columns | Data Type | Description |
| Key with solid fillAddress\_id | SERIAL | Unique ID of address |
| Address | CHARACTER VARYING(50) | Street, house nr, apartment |
| Address2 | CHARACTER VARYING(50) | Additional info |
| District | CHARACTER VARYING(20) | District |
| City\_id | SMALLINT | Unique id of the city |
| Postal\_code | CHARACTER VARYING(10) | Postal code |
| Phone | CHARACTER VARYING(20) | Phone number of the customer |
| Last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Time when the information in this table was updated last time |
| Linked to: | | |
| Table | Join on | |
| Store | Address\_id | |
| City | City\_id | |
| Customer | Address\_id | |
| Staff | Staff\_id | |
| Stora | Store\_id | |

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| Data tables: | City |

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| Columns | Data Type | Description |
| Key with solid fillCity\_id | SERIAL | Unique id of the city |
| City | CHARACTER VARYING(50) | Name of the city |
| Country\_id | SMALLINT | Unique id of the country |
| Last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Time when the information in this table was updated last time |
| Linked to | | |
| Table | Join on | |
| Address | City\_id | |
| Country | Country\_id | |

|  |  |
| --- | --- |
| Data tables: | Country |

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| --- | --- | --- |
| Columns | Data Type | Description |
| Key with solid fillCountry\_id | SERIAL | Unique id of the country |
| Country | CHARACTER VARYING(50) | Name of the country |
| Last\_update | TIMESTAMP(6) WITHOUT TIMEZONE | Time when the information in this table was updated last time |
| Linked to | | |
| Table | Join on | |
| City | Country\_id | |