**Rockbuster Data Directory**

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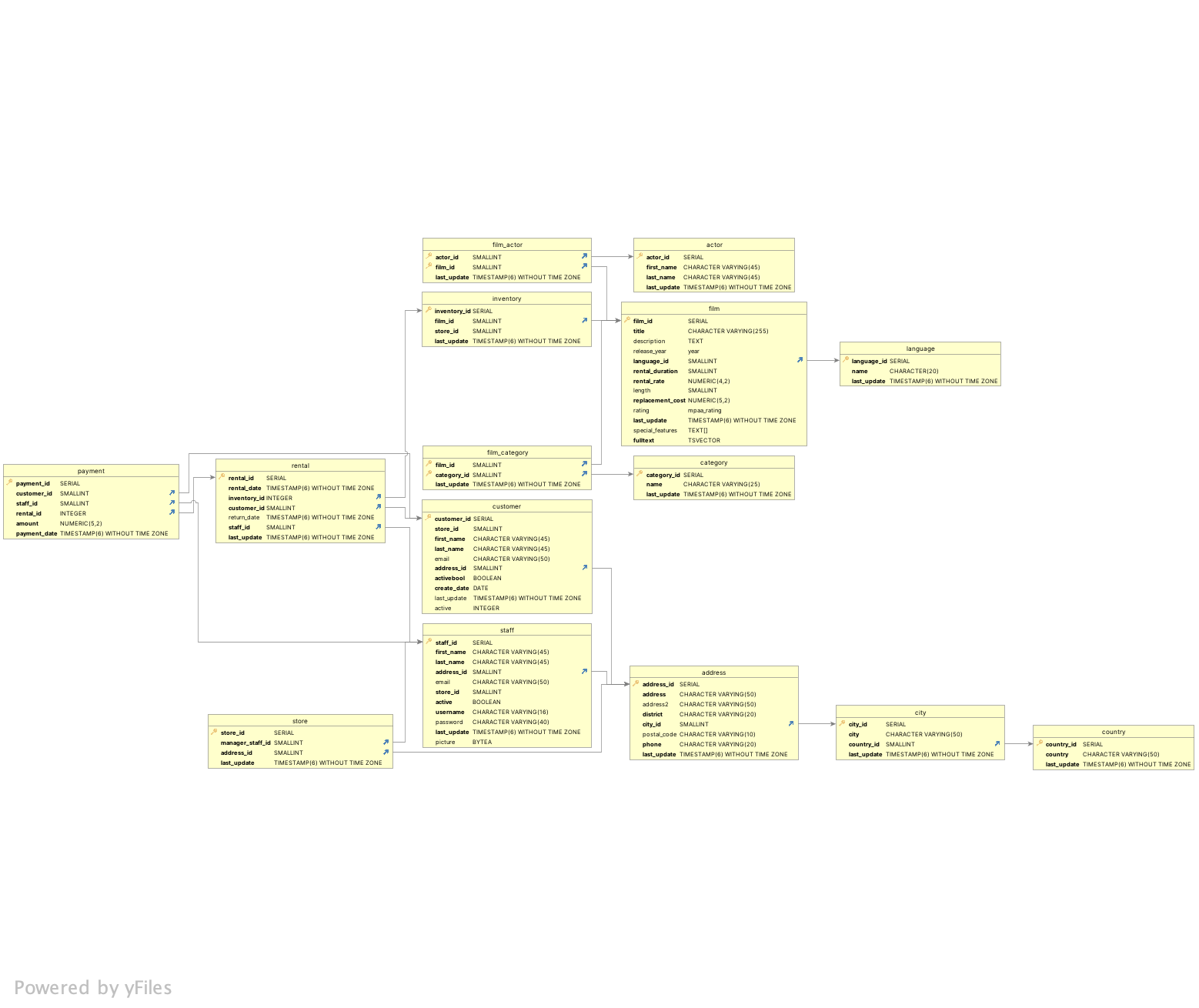
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1. **Entity Relationship Diagram**



1. **Fact Tables**

| **Name of Table** | **Column** | **Data Type** | **Description** |
| --- | --- | --- | --- |
| Payment | payment\_id | Serial | Payment identifier |
| customer\_id | Small int | Customer identifier |
| staff\_id | Small int | Staff identifier |
| rental\_id | integer | Rental ID |
| Amount | Numeric (5,2) | Amount of payment due |
| Payment\_date | Timestamp (6) without timezone | Date of payment |
| **Links to** | **Join** | | **Description** |
| Customer | Payment.customer\_id = customer.customer\_id | | Foreign key constraint referencing customer.customer\_id |
| Staff | Payment.staff\_id = staff.staff\_id | | Foreign key constraint referencing staff.staff\_id |
| Rental | Payment.rental\_id = rental.rental\_id | | Foreign key constraint referencing rental\_rental\_id |
| **Links From:** None | | | |
| Unique Keys: payment\_id | | | |

| **Name of Table** | **Column** | **Data Type** | **Description** |
| --- | --- | --- | --- |
| Rental | Rental\_id | serial | Rental identifier |
| Rental\_date | Timestamp (6) without timezone | Date of rental |
| Inventory\_id | integer | Inventory identifier |
| Customer\_id | Small int | Customer identifier |
| Return\_date | Timestamp (6) without timezone | Return date |
| Staff\_id | Small int | Staff identifier |
| Last\_update | Timestamp w/o Time Zone | Time of last update |
| **Links to** | **Join** | | **Description** |
| Customer | rental.customer\_id = customer.customer\_id | | Foreign key constraint referencing customer.customer\_id |
| Staff | rental.staff\_id = staff.staff\_id | | Foreign key constraint referencing staff.staff\_id |
| Inventory | rental.intventory\_id = inventory.inventory\_id | | Foreign key constraint referencing inventory.inventory\_id |
| **Links from** | **Join** | | **Description** |
| Payment | Payment.rental\_id = rental.rental\_id | | Foreign key constraint referencing rental.rental\_id |

1. **Dimension Tables**

| **Name of Table** | **Column** | **Data Type** | **Description** |
| --- | --- | --- | --- |
| Film | Film\_id | Serial | Film identifier |
| Title | Character varying (255) | Film title |
| Description | Text | Film description |
| Release\_year | Year | Film release year |
| Language\_id | Small Int | Language of the film |
| Rental\_duration | Small Int | Rental duration |
| Rental\_rate | Numeric (4,2) | Rental rate |
| Length | Small Int | Film length |
| Replacement\_cost | Numeric(5,2) | Replacement cost of film |
| Rating | Mpaa\_rating | Film rating |
| Last\_update | Timestamp (6) without timezone | Last update time |
| **Links to** | **Join** | | **Description** |
| Language | Film.language\_id = language.language\_id | | Foreign key constraint referencing language.language\_id |
| **Links from** | **Join** | | **Description** |
| film\_category | Film\_category.film\_id = film.film\_id | | Foreign key constraint referencing film.film\_id |
| film\_actor | Film\_actor.film\_id = film.film\_id | | Foreign key constraint referencing film.film\_id |
| inventory | Inventory.film\_id = film.film\_id | | Foreign key constraint referencing film.film\_id |
| Unique Keys: film\_id, title, description | | | |

| **Name of Table** | **Column** | **Data Type** | **Description** |
| --- | --- | --- | --- |
| Staff | Staff\_id | Serial | Staff identifier |
| First\_name | Character varying (45) | Staff member first name |
| Last\_name | Character varying (45) | Staff member last name |
| Address\_id | Small int | Address identifier |
| Email | Character varying (50) | Staff member email address |
| Store\_id | Small int | Store identifier |
| Active | Boolean | Determines if the staff member is active |
| Username | Character varying (16) | Username of staff member |
| Password | Character Varying (40) | Password of staff member |
| Last\_update | Timestamp (6) without timezone | Last update time |
| Picture | Bytea | Staff member picture |
| **Links to** | **Join** | | **Description** |
| address | Staff.address\_id = address.address\_id | | Foreign key constraint referencing address.address\_id |
| **Links from** | **Join** | | **Description** |
| store | Store.manager\_staff\_id = staff.staff\_id | | Foreign key constraint referencing staff.staff\_id |
| rental | Rental.staff\_id = staff.staff\_id | | Foreign key constraint referencing staff.staff\_id |
| payment | Payment.staff\_id = staff.staff\_id | | Foreign key constraint referencing staff.staff\_id |
| Unique keys: staff\_id, username, picture | | | |

| **Name of Table** | **Column** | **Data Type** | **Description** |
| --- | --- | --- | --- |
| Customer | Customer\_id | Serial | Customer identifier |
| Store\_id | Small int | Store identifier |
| First\_name | Character varying (45) | Customer first name |
| Last\_name | Character varying (45) | Customer last name |
| Email | Character varying (50) | Customer email address |
| Address\_id | Small int | Address identifier |
| Activebool | Boolean | Determines if the customer is active |
| Create\_date | Date | Date the customer profile was created. |
| Last\_update | Timestamp without timezone | Last update time |
| Active | Integer | Active status |
| **Links to** | **Join** | | **Description** |
| address | customer.address\_id = address.adress\_id | | Foreign key constraint referencing address.address\_id |
| **Links from** | **Join** | | **Description** |
| payment | Payment.customer\_id = customer.customer\_id | | Foreign key constraint referencing customer.customer\_id |
| rental | Rental.customer\_id = customer.customer\_id | | Foreign key constraint referencing customer.customer\_id |
| Unique keys: customer\_id | | | |

| **Name of Table** | **Column** | **Data Type** | **Description** |
| --- | --- | --- | --- |
| Address | Address\_id | Serial | Address identifier |
| Address | Character varying (50) | First line of the address |
| Address2 | Character varying (50) | Second line of the address |
| District | Character varying (20) | District of the address |
| City\_id | Small Int | City identifier |
| Postal\_code | Character varying (10) | Address postal code |
| Phone | Character varying (20) | Phone number associated with address |
| Last\_update | Timestamp (6) without timezone | Last update time |
| **Links to** | **Join** | | **Description** |
| city | address.city\_id = city.city\_id | | Foreign key constraint referencing city.city\_id |
| **Links from** | **Join** | | **Description** |
| staff | Staff.address\_id = address.address\_id | | Foreign key constraint referencing address.address\_id |
| customer | customer.address\_id = address.address\_id | | Foreign key constraint referencing address.address\_id |
| store | Store.address\_id = address.address\_id | | Foreign key constraint referencing address.address\_id |
| Unique keys: address\_id | | | |

| **Name of Table** | **Column** | **Data Type** | **Description** |
| --- | --- | --- | --- |
| Inventory | Inventory\_id | Serial | Inventory identifier |
| Film\_id | Small int | Film identifier |
| Store\_id | Small int | Store identifier |
| Last\_update | Timestamp (6) without timezone | Last update time |
| **Link to** | **Join** | | **Description** |
| film | Inventory.film\_id = film.film\_id | | Foreign key constraint referencing film.film\_id |
| **Link from** | **Join** | | **Description** |
| Rental | Rental.inventory\_id = inventory.inventory\_id | | Foreign key constraint referencing inventory.inventory\_id |
| Unique keys: inventory\_id | | | |

| **Name of Table** | **Column** | **Data Type** | **Description** |
| --- | --- | --- | --- |
| Actor | Actor\_id | Serial | Actor identifier |
| First\_name | Character varying (45) | Actor first name |
| Last\_name | Character varying (45) | Actor last name |
| Last\_update | Timestamp (6) without timezone | Last update time |
| **Link to: None** | | | |
| **Links from** | **Join** | | **Description** |
| film\_actor | Film\_actor.actor\_id = actor.actor\_id | | Foreign key constraint referencing actor.actor\_id |

| **Name of Table** | **Column** | **Data Type** | **Description** |
| --- | --- | --- | --- |
| City | City\_id | Serial | City identifier |
| City | Character varying (50) | Name of city |
| Country\_id | Small Int | Country identifier |
| Last\_update | Timestamp (6) without timezone | Time of last update |
| **Links to** | **Join** | | **Description** |
| country | City.country\_id = country.country\_id | | Foreign key constraint referencing country.country\_id |
| **Links from** | **Join** | | **Description** |
| address | Address.city\_id = city.city\_id | | Foreign key constraint referencing city.city\_id |
| Unique keys: city\_id | | | |

| **Name of Table** | **Column** | **Data Type** | **Description** |
| --- | --- | --- | --- |
| Store | store\_id | Serial | Store identifier |
| manager\_staff\_id | Small int | Manager identifier |
| address\_id | Small int | Address identifier |
| last\_update | Timestamp (6) without timezone | Last update time |
| **Links to** | **Join** | | **Description** |
| address | Store.address\_id = address.address\_id | | Foreign key constraint referencing address.address\_id |
| staff | Store.manager\_staff\_id = staff.staff\_id | | Foreign key constraint referencing staff.staff\_id |
| **Links from: None** | | | |
| Unique keys: store\_id | | | |

| **Name of Table** | **Column** | **Data Type** | **Description** |
| --- | --- | --- | --- |
| Category | Category\_id | Serial | Category identifier |
| Name | Character varying (25) | Category name |
| Last\_update | Timestamp (6) without timezone | Last update time |
| **Links to: None** | | | |
| **Links from:** | **Join** | | **Description** |
| film\_category | Film\_category.category\_id = category.category\_id | | Foreign key constraint referencing category.category\_id |
| Unique keys: category\_id, name | | | |

| **Name of Table** | **Column** | **Data Type** | **Description** |
| --- | --- | --- | --- |
| Country | Country\_id | Serial | Country identifier |
| Country | Character varying (50) | Country name |
| Last\_update | Timestamp (6) without timezone | Last update time |
| **Links to: None** | | | |
| **Links from** | **Join** | | **Description** |
| city | City.country\_id = country.country\_id | | Foreign key constraint referencing country.country\_id |
| Unique keys: country\_id, country | | | |

| **Name of Table** | **Column** | **Data Type** | **Description** |
| --- | --- | --- | --- |
| Film\_actor | Actor\_id | Small int | Actor identifier |
| Film\_id | Small int | Film Identifier |
| Last\_update | Timestamp (6) without timezone | Last update time |
| **Links to** | **Join** | | **Description** |
| actor | Film\_actor.actor\_id = actor.actor\_id | | Foreign key constraint referencing actor.actor\_id |
| film | Film\_actor.film\_id = film.film\_id | | Foreign key constraint referencing film.film\_id |
| **Links from: None** | | | |
| Unique keys: actor\_id | | | |

| **Name of Table** | **Column** | **Data Type** | **Description** |
| --- | --- | --- | --- |
| Film\_category | Film\_id | Small int | Film identifier |
| Category\_id | Small int | Category identifier |
| Last\_update | Timestamp (6) without timezone | Last update time |
| **Links to** | **Join** | | **Description** |
| film | Film\_category.film\_id = film.film\_id | | Foreign key constraint referencing film.film\_id |
| category | Film\_category.category\_id = category.category\_id | | Foreign key constraint referencing category.category\_id |
| **Links from: None** | | | |
| Unique keys: film\_id | | | |

| **Name of Table** | **Column** | **Data Type** | **Description** |
| --- | --- | --- | --- |
| Language | Language\_id | Serial | Language identifier |
| Name | Character varying (20) | Name of the language |
| Last\_update | Timestamp (6) without timezone | Last update time |
| **Links to: None** | | | |
| **Links from:** | **Join** | | **Description** |
| film | Film.language\_id = language.language\_id | | Foreign key constraint referencing language.language\_id |
| Unique keys: language\_id | | | |