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Data Dictionary

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TASK3.10

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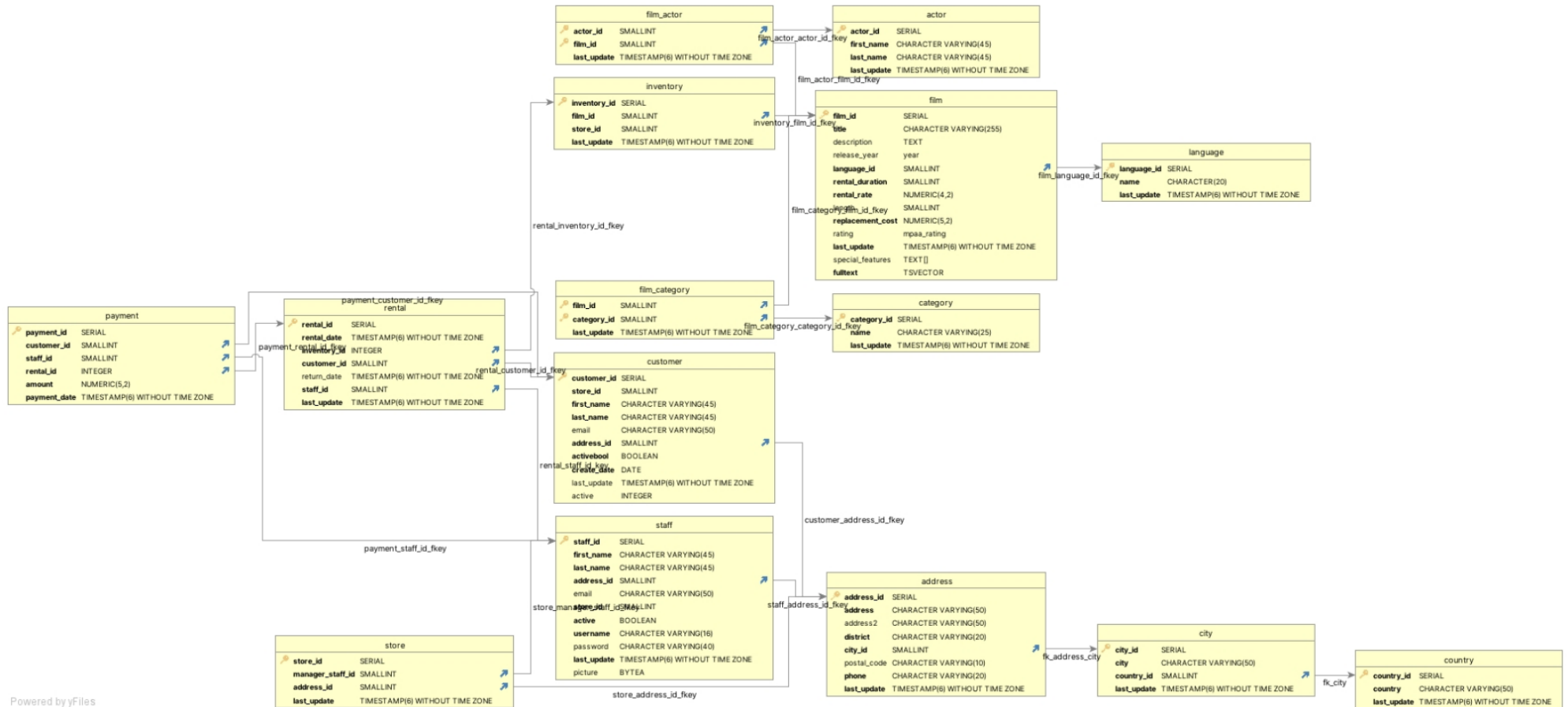
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Entity Relationship Diagram



Legends



= **Primary Key**



= **Link to**

Content Format

1-Description of table

2-Table: Keys and Links

3-Table: Contents and Data Types

Fact Tables

Film: includes the title of each film and a brief description of it, film id, release year, language id, rental duration, rating, replacement cost, and last update column.

| Table Name | Film |
|------------------|-----------------------------|
| Primary Key | film_id |
| Foreign Key/s | language_id |
| Links to: | Language |
| Links from: | Inventory, Film_category |
| Data Contents | |
| <u>Data name</u> | <u>Data type</u> |
| Film_id | Serial |
| Title | varchar |
| Description | Text |
| Release_year | Integer |
| Language_id | Smallint |
| Rental_duration | Smallint |
| Rental_rate | Numeric |
| Length | Smallint |
| Replacement Cost | Numeric |
| Rating | mpaa_rating |
| Last_update | time stamp |
| Special_features | Text |

Customer: includes first and last customer's name, their primary form of ommunication (email address) and the date when it was updated.

| Table Name | Customer |
|---------------|-----------------|
| Primary Key | customer_id |
| Foreign Key/s | address_id |
| Links to: | address |
| Links from: | payment, rental |
| Data Contents | |
| Data name | Data type |
| Customer_id | Serial |
| Store_id | Smallint |
| First_name | Varchar |
| Last_name | Varchar |
| Address_id | Smallint |
| Email | Varchar |
| Activebool | Boolean |
| Create Date | Date |
| Last-update | Time Stamp |
| Active | Integer |

Staff: worker's first and last name, their id, their address id, their email address, store id, user name, and update date.

| Table Name | Staff |
|---------------|------------|
| Primary Key | Staff_id |
| Foreign Key/s | Address_id |
| Links to: | Address |

| | |
|-------------------------|-------------------------|
| Links from: | Payment, rental, store |
| Data Contents | |
| <u>Data name</u> | <u>Data type</u> |
| Staff_id | Serial |
| First_name | Varchar |
| Last_name | Varchar |
| Address_id | Smallint |
| Email | Varchar |
| Store_id | Smallint |
| Active | Boolean |
| Username | Varchar |
| Password | Varchar |
| Last_update | Time stamp |

Dimesion Tables

Actor: includes first and last names of an actor or actress

| | |
|----------------------|--------------|
| Table Name | Actor |
| Primary Key | Actor_id |
| Foreign Key/s | N/A |
| Links to: | N/A |
| Links from: | Film_actor |

| Data Content | |
|------------------|------------------|
| <u>Data name</u> | <u>Data type</u> |
| Actor_id | Serial |
| First_name | Varchar |
| Last_name | Varchar |
| Last_update | Time stamp |

Film_actor: includes film id, actor id and update date.

| Table Name | Film_actor |
|------------------|----------------------------|
| Primary Key | N/A |
| Foreign Key/s | Film_id, Actor_id |
| Links to: | Actor, Film, Film Category |
| Links from: | N/A |
| Data Content | |
| <u>Data name</u> | <u>Data type</u> |
| Actor_id | Smallint |
| Film_id | Smallint |
| Last_update | Time stamp |

Category: defines what type of film it is (such as comedy or documentary for example)

| Table Name | Category |
|------------------|------------------|
| Primary Key | Category_id |
| Foreign Key/s | N/A |
| Links to: | N/A |
| Links from: | Film_category |
| Data Content | |
| <u>Data name</u> | <u>Data type</u> |
| Category_id | Serial |
| Name | Varchar |
| Last_update | Time stamp |

Film category: includes film id, category id, and last update date.

| Table Name | Film_category |
|------------------|-------------------------|
| Primary Key | N/A |
| Foreign Key/s | Film_id, Category_id |
| Links to: | Film, category |
| Links from: | N/A |
| Data Contents | |
| <u>Data name</u> | <u>Data type</u> |
| Film_id | Smallint |
| Category_id | Smallint |
| Last_update | Time stamp |

Inventory: includes inventory id, film id, category id and store id.

| Table Name | Inventory |
|------------------|---|
| Primary Key | Inventory_id |
| Foreign Key/s | Film_id, Store_id |
| Links to: | Film, film_actor, film_category, Store_id |
| Links from: | Rental |
| Data Content | |
| <u>Data name</u> | <u>Data type</u> |
| Inventory_id | Serial |
| Film_id | Smallint |
| Store_id | Smallint |
| Last_update | Time Stamp |

Language: name and id of a language, and update date.

| Table Name | Language |
|------------------|------------------|
| Primary Key | Language_id |
| Foreign Key/s | N/A |
| Links to: | N/A |
| Links from: | Film |
| Data Content | |
| <u>Data name</u> | <u>Data type</u> |
| Language_id | Serial |

| | |
|-------------|------------|
| Name | Varchar |
| Last_update | Time Stamp |

Address: includes full address of customer (street and number, district, city id and postcode) as well as their phone number.

| Table Name | Address |
|------------------|------------------------|
| Primary Key | Address_id |
| Foreign Key/s | City_id |
| Links to: | City |
| Links from: | Customer, Staff, Store |
| Data Content | |
| <u>Data name</u> | <u>Data type</u> |
| Address_id | Serial |
| Address | Varchar |
| Address 2 | Varchar |
| District | Varchar |
| City_id | Smallint |
| Postal_code | Varchar |
| Phone | Varchar |
| Last_update | Time Stamp |

City: tells the name of the city linked to the customer address, as well as their country id (in case there are two cities with the same name in different countries)

| Table Name | City |
|-------------|---------|
| Primary Key | City_id |

| | |
|-------------------------|-------------------------|
| Foreign Key/s | Country_id |
| Links to: | Country |
| Links from: | Address |
| Data Content | |
| <u>Data name</u> | <u>Data type</u> |
| City_id | Serial |
| City | Varchar |
| Country_id | Smallint |
| Last_update | Time Stamp |

Country: tells the country where the customer lives

| | |
|-------------------------|-------------------------|
| Table Name | Country |
| Primary Key | Country_id |
| Foreign Key/s | N/A |
| Links to: | N/A |
| Links from: | City |
| Data Content | |
| <u>Data name</u> | <u>Data type</u> |
| Country_id | Serial |
| Country | Varchar |
| Last Update | Time Stamp |

Rental: rental id, date of rental, inventory id, customer id, return date, staff id, and update date.

| Table Name | Rental |
|------------------|---|
| Primary Key | Rental_id |
| Foreign Key/s | Inventory_id, customer_id, staff_id |
| Links to: | Inventory, customer, staff |
| Links from: | Payment |
| Data Contents | |
| <u>Data name</u> | <u>Data type</u> |
| Rental_id | Serial |
| Rental_date | Time Stamp |
| Inventory_id | Integer |
| Customer_id | Smallint |
| Return_date | Time Stamp |
| Staff_id | Smallint |
| Last_update | Time Stamp |

Payment: includes payment id, customer id, staff id, payment amount and date.

| Table Name | Payment |
|------------------|-------------------------------------|
| Primary Key | Payment_id |
| Foreign Key/s | Customer_id, staff_id, rental_id |
| Links to: | Rental, customer, staff |
| Links from: | N/A |
| Data Content | Column1 |
| <u>Data name</u> | <u>Data type</u> |
| Payment_id | Serial |
| Customer_id | Smallint |
| Staff_id | Smallint |
| Rental_id | Integer |
| Amount | Numerics |
| Payment_date | Time Stamp |

Store: store id, manager id, address id, and update date.

| Table Name | Store |
|-------------|----------|
| Primary Key | Store_id |

| | |
|-------------------------|---|
| Foreign Key/s | Manager_staff_id, address_id |
| Links to: | Rental, customer, staff, payment, address |
| Links from: | N/A |
| Data Content | |
| <u>Data name</u> | <u>Data type</u> |
| Store_id | Serial |
| Manager_staff_id | Smallint |
| Address_id | Smallint |
| Last-update | Time Stamp |