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data dictionary

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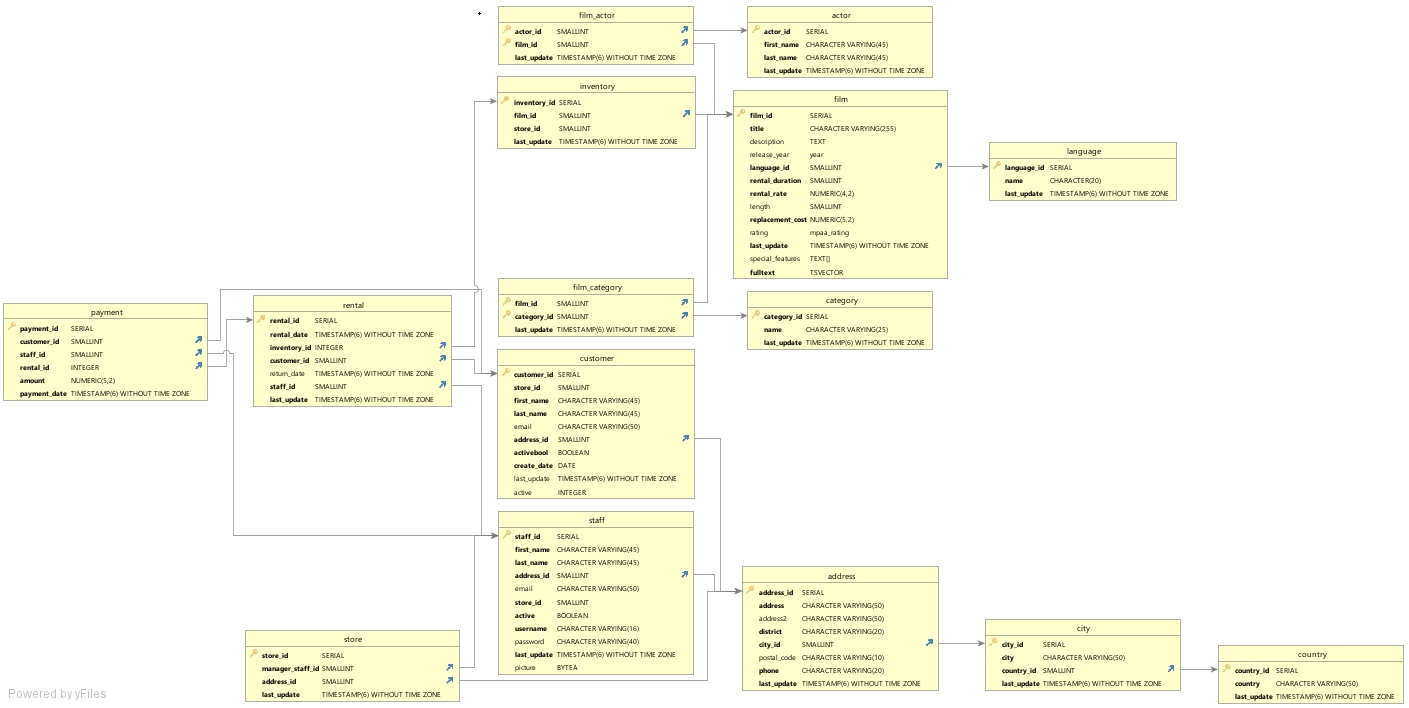
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# Entity Relationship Diagram



# Fact Table

## 1.1 Payment

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| payment\_id | SERIAL | **Primary Key:** ID of payment |
| customer\_id | SMALLINT | **Foreign Key:** ID of customer |
| staff\_id | SMALLINT | **Foreign Key:** ID of staff |
| rental\_id | INTEGER | **Foreign Key:** ID of rental |
| amount | NUMERIC(5,2) | Amount paid |
| payment\_date | TIMESTAMP(6) WITHOUT TIME ZONE | Date of payment |

Links to:

|  |  |
| --- | --- |
| **Table** | **Column** |
| customer | customer\_id |
| rental | rental\_id |
| staff | staff\_id |

## 1.2 Film\_actor

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| actor\_id | SMALLINT | **Primary Key:** ID of actor |
| film\_id | SMALLINT | **Primary Key:** ID of film |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |

Links to:

|  |  |
| --- | --- |
| **Table** | **Column** |
| actor | actor\_id |
| film | film\_id |

## 1.3 Film\_category

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| film\_id | SMALLINT | **Primary Key:** ID of film |
| category\_id | SMALLINT | **Primary Key:** ID of the category of the film |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |

Links to:

|  |  |
| --- | --- |
| **Table** | **Column** |
| film | film\_id |
| category | category\_id |

## 1.4 Store

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| store\_id | SERIAL | **Primary Key:** ID of store |
| manager\_staff\_id | SMALLINT | **Foreign Key:** ID of the manager of the store |
| address\_id | SMALLINT | **Foreign Key:** Address of the store |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |

Links to:

|  |  |
| --- | --- |
| **Table** | **Column** |
| staff | store\_id |
| address | address\_id |

# Dimension Tables

## 2.1 Rental

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| rental\_id | SERIAL | **Primary Key:** Serial number for rental |
| rental\_date | TIMESTAMP(6) WITHOUT TIME ZONE | Date of rental |
| inventory\_id | INTEGER | **Foreign Key:** ID of inventory |
| customer\_id | SMALLINT | **Foreign Key:** ID of customer |
| return\_date | TIMESTAMP(6) WITHOUT TIME ZONE | Date of rental return |
| staff\_id | SMALLINT | **Foreign Key:** ID of the staff who rented out the inventory |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |

Links to:

|  |  |
| --- | --- |
| **Table** | **Column** |
| inventory | inventory\_id |
| customer | customer\_id |
| staff | staff\_id |

Links from:

|  |  |
| --- | --- |
| **Table** | **Column** |
| payment | rental\_id |

## 2.2 Inventory

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| inventory\_id | SERIAL | **Primary Key:** ID of inventory |
| film\_id | SMALLINT | **Foreign Key:** ID of film |
| store\_id | SMALLINT | **Foreign Key:** ID of store |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |

Links to:

|  |  |
| --- | --- |
| **Table** | **Column** |
| film | film\_id |

Links from:

|  |  |
| --- | --- |
| **Table** | **Column** |
| rental | inventory\_id |

## 2.3 Customer

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| customer\_id | SERIAL | **Primary Key:** ID of customer |
| store\_id | SMALLINT | **Foreign Key:** ID of store |
| first\_name | CHARACTER VARYING(45) | First name of customer |
| last\_name | CHARACTER VARYING(45) | Last name of customer |
| email | CHARACTER VARYING(50) | Email of customer |
| address\_id | SMALLINT | **Foreign Key:** Address of customer |
| activebool | BOOLEAN | Is the customer active |
| create\_date | DATE | Date the customer activated account |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |
| active | INTEGER | Is the customer active |

Links to:

|  |  |
| --- | --- |
| **Table** | **Column** |
| address | address\_id |

Links from:

|  |  |
| --- | --- |
| **Table** | **Column** |
| rental | customer\_id |
| payment | customer\_id |

## 2.4 Staff

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| staff\_id | SERIAL | **Primary Key:** ID of staff |
| first\_name | CHARACTER VARYING(45) | First name of staff |
| last\_name | CHARACTER VARYING(45) | Last name of staff |
| address\_id | SMALLINT | **Foreign Key:** Address of staff |
| email | CHARACTER VARYING(50) | Email of staff |
| store\_id | SMALLINT | **Foreign Key:** ID of store of staff |
| active | BOOLEAN | Is the employee still active |
| username | CHARACTER VARYING(16) | Username of employee |
| password | CHARACTER VARYING(40) | Password of employee |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |
| picture | BYTEA | Picture of employee |

Links to:

|  |  |
| --- | --- |
| **Table** | **Column** |
| address | address\_id |

Links from:

|  |  |
| --- | --- |
| **Table** | **Column** |
| payment | staff\_id |
| rental | staff\_id |
| store | store\_id |

## 2.5 Actor

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| actor\_id | SERIAL | **Primary Key:** ID of actor |
| first\_name | CHARACTER VARYING(45) | First name of actor |
| last\_name | CHARACTER VARYING(45) | Last name of actor |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |

Links from:

|  |  |
| --- | --- |
| **Table** | **Column** |
| film\_actor | actor\_id |

## 2.6 Film

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| film\_id | SERIAL | **Primary Key:** ID of film |
| title | CHARACTER VARYING(255) | Title of film |
| description | TEXT | Description of film |
| release\_year | year | Year film was released |
| language\_id | SMALLINT | **Foreign Key:** Language of film |
| rental\_duration | SMALLINT | Duration of rental |
| rental\_rate | NUMERIC(4,2) | Cost of rental |
| length | SMALLINT | Length of film |
| replacement\_cost | NUMERIC(5,2) | Cost to replace rental |
| rating | mpaa\_rating | Rating of film |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |
| special\_features | TEXT | Indicates special features such as trailers/deleted scenes/commentaries |
| fulltext | TSVECTOR | Key words and count of those words |

Links to:

|  |  |
| --- | --- |
| **Table** | **Column** |
| language | language\_id |

Links from:

|  |  |
| --- | --- |
| **Table** | **Column** |
| film\_actor | film\_id |
| film\_category | film\_id |
| inventory | film\_id |

## 2.7 Category

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| category\_id | SERIAL | **Primary Key:** Generic number for category |
| name | CHARACTER VARYING(25) | Genre type |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |

Links from:

|  |  |
| --- | --- |
| **Table** | **Column** |
| film\_category | category\_id |

## 2.8 Language

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| language\_id | SERIAL | **Primary Key:** Generic number for language |
| name | CHARACTER(20) | Language |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |

Links from:

|  |  |
| --- | --- |
| **Table** | **Column** |
| film | language\_id |

## 2.9 Address

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| address\_id | SERIAL | **Primary Key:** Generic number for address |
| address | CHARACTER VARYING(50) | First line of address |
| address2 | CHARACTER VARYING(50) | Second line of address |
| district | CHARACTER VARYING(20) | District of address |
| city\_id | SMALLINT | **Foreign Key:** ID of address |
| postal\_code | CHARACTER VARYING(10) | Postal code of address |
| phone | CHARACTER VARYING(20) | Phone number for address |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |

Links to:

|  |  |
| --- | --- |
| **Table** | **Column** |
| city | city\_id |

Links from:

|  |  |
| --- | --- |
| **Table** | **Column** |
| staff | address\_id |
| customer | address\_id |
| store | address\_id |

## 2.10 City

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| city\_id | SERIAL | **Primary Key:** ID of city |
| city | CHARACTER VARYING(50) | City |
| country\_id | SMALLINT | **Foreign Key:** ID of country |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |

Links to:

|  |  |
| --- | --- |
| **Table** | **Column** |
| country | country\_id |

Links from:

|  |  |
| --- | --- |
| **Table** | **Column** |
| address | city\_id |

## 2.11 Country

|  |  |  |
| --- | --- | --- |
| Columns | Data Type | Description |
| country\_id | SERIAL | **Primary Key:** ID of country |
| country | CHARACTER VARYING(50) | Country |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |

Links from:

|  |  |
| --- | --- |
| **Table** | **Column** |
| city | country\_id |