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Data Dictionary

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PK=Primary Key

FK= Foreign Key

Step 2. DbVisualizer A picture containing text, font, post-it note, screenshot

Description automatically generated

2.0 Fact Tables

2.1 Payment Tables

|  |  |  |  |
| --- | --- | --- | --- |
| Unique Key | Column | Data Type | Descripton |
| PK | payment\_id | serial | Unique Payment Identifier |
| FK | customer\_id | small int | ID of Customer |
| FK | staff\_id | Small int | Unique ID for staff |
| FK | rental\_id | integer | ID of rental |
|  | amount | numeric | Cost in numerical value |
|  | payment date | timestamp | Time and state of payment w/o time zone |

**2.2 Rental Table**

|  |  |  |  |
| --- | --- | --- | --- |
| Unique Key | Column | Data type | Description |
| PK | rental\_id | Serial | Unique identifier for rental |
|  | rental\_date | Timestamp w/o time zone | Date of rental |
| FK | inventory\_id | Integer | Inventory identifier |
| FK | customer\_id | smallint | ID of customer |
|  | return\_date | Timestamp w/o time zone | Date of return |
| FK | staff\_id | smallint | Unique id for staff |
|  | last\_update | Timestamp w/o time zone | Time of last update |

**Links to**

|  |  |
| --- | --- |
| Table | Description |
| Customer | Foreign key reference to customer table |
| Staff | Foreign key reference to staff table |
| Rental | Foreign key reference to rental table |

**Links from**

|  |  |
| --- | --- |
| Table | Description |
| Payment | Foreign key reference to payment table |

**3.0 Dimension Tables**

**3.1 Address Table**

|  |  |  |  |
| --- | --- | --- | --- |
| Unique Key | Column | Data Type | Description |
| PK | address\_id | Serial | Unique address identifier |
|  | address | Character varying (50) | Address line 1 |
|  | address2 | Character varying (50) | Address line 2 |
|  | district | Character varying (20) | District of the address |
| FK | city\_id | Smallint | Unique city identifier |
|  | postal\_code | Character varying (10) | Postal code of the address |
|  | Phone | Character varying (20) | Phone associated with the address |
|  | last\_update | Timestamp (6) without time zone | Date of last update |

Links to

|  |  |
| --- | --- |
| Table | Description |
| City | Foreign key to city table |

Links from

|  |  |
| --- | --- |
| Table | Description |
| Customer | Foreign key reference to customer table |
| Staff | Foreign key refence to staff table |
| Store | Foreign key refence to store table |

3.2 Category Table

|  |  |  |  |
| --- | --- | --- | --- |
| Unique Key | Column | Data Type | Description |
| PK | category\_id | Serial | Unique category identifier |
|  | name | Character Varying (25) | Category Name |
|  | last\_update | Timestamp (6) without time zone | Date of last update |

Links from

|  |  |
| --- | --- |
| Table | Description |
| Film\_category | Foreign key reference to film\_category table |

3.3 City Table

|  |  |  |  |
| --- | --- | --- | --- |
| Unique Key | Column | Data Type | Description |
| PK | city\_id | Serial | Unique city identifier |
|  | city | Character varying (50) | City name |
| FK | country\_id | Smallint | Unique country identifier |
|  | last\_update | Timestamp (6) without time zone | Date of last update |

Links to

|  |  |
| --- | --- |
| Table | Description |
| Country | Foreign key reference to country table |

Links from

|  |  |
| --- | --- |
| Table | Description |
| Address | Foreign key reference to address table |

3.4 Country Table

|  |  |  |  |
| --- | --- | --- | --- |
| Unique Key | Column | Data type | Description |
| PK | country\_id | Serial | Unique country identifier |
|  | country | Character varying (50) | Country name |
|  | last\_update | Timestamp (6) without time zone | Date of last update |

Links from

|  |  |
| --- | --- |
| Table | Description |
| City | Foreign key reference to city table |

3.5 Customer Table

|  |  |  |  |
| --- | --- | --- | --- |
| Unique Key | Column | Data Type | Description |
| PK | customer\_id | Serial | Unique customer identifier |
|  | store\_id | Smallint | Unique store identifier |
|  | first\_name | Character varying (45) | First name customer |
|  | last\_name | Character varying (45) | Last name customer |
|  | email | Character varying (50) | Email customer |
| FK | address\_id | Smallint | Unique address identifier |
|  | activebool | Boolean | Whether a customer is active |
|  | create\_date | Date | Date of customer profile creation |
|  | last\_update | Timestamp (6) without time zone | Date of last update |
|  | active | Integer | Customer status (Active=1) |

Links to

|  |  |
| --- | --- |
| Table | Description |
| Address | Foreign key reference to address table |

Links from

|  |  |
| --- | --- |
| Table | Description |
| Payment | Foreign key reference to payment table |
| Rental | Foreign key reference to rental table |

3.6 Film Actor Table

|  |  |  |  |
| --- | --- | --- | --- |
| Unique Key | Column | Data Type | Description |
| PK/FK | film\_id | Smallint | Unique film identifier |
| PK/FK | category\_id | Smallint | Unique category identifier |
|  | last\_update | Timestamp(6) without time zone | Date of last update |

Links to

|  |  |
| --- | --- |
| Table | Description |
| Category | Foreign key reference to category table |
| Film | Foreign key refe |

3.7 Film Category

|  |  |  |  |
| --- | --- | --- | --- |
| Unique Key | Column | Data Type | Description |
| PK/FK | film\_id | Smallint | Unique film identifier |
| PK/FK | category\_id | Smallint | Unique category identifier |
|  | last\_update | Timestamp (6) without time zone | Date of last update |

Links to

|  |  |
| --- | --- |
| Table | Description |
| Category | Foreign key reference to category table |
| Film | Foreign key reference to film table |

3.8 Inventory Table

|  |  |  |  |
| --- | --- | --- | --- |
| Unique Key | Column | Data Type | Description |
| PK | inventory\_id | Serial | Unique inventory identifier |
| FK | film\_id | Smallint | Unique film identifier |
|  | store\_id | Smallint | Unique store identifier |
|  | last\_update | Timestamp (6) without time stamp | Date of last update |

Links to

|  |  |
| --- | --- |
| Table | Description |
| Film | Foreign key reference to film table |
| Links from |  |
| Table | Description |
| Rental | Foreign key reference to rental table |

3.9 Language Table

|  |  |  |  |
| --- | --- | --- | --- |
| Unique Key | Column | Data Type | Description |
| PK | Language\_id | Serial | Unique language identifier |
|  | Name | Character varying (50) | Language name |
|  | Last\_update | Timestamp (6) without time stamp | Date of last update |

Links from

|  |  |
| --- | --- |
| Table | Description |
| Film | Foreign key reference to film table |

3.10 Staff Table

|  |  |  |  |
| --- | --- | --- | --- |
| Unique Key | Column | Data Type | Description |
| PK | staff\_id | Serial | Unique staff identifier |
|  | first\_name | Character varying (45) | First name of staff member |
|  | last\_name | Character varying (45) | Last name of staff member |
| FK | address\_id | Smallint | Unique address identifier |
|  | Email | Character varying (50) | Email of staff member |
|  | store\_id | Smallint | Unique store identifier |
|  | Active | Boolean | Whether a staff member is active |
|  | username | Character varying (16) | Staff member's username |
|  | password | Character varying (40) | Staff member's password |
|  | last\_update | Timestamp (6) without time zone | Date of last update |
|  | Picture | Bytea | Staff member's picture |

Links to

|  |  |
| --- | --- |
| Table | Description |
| Address | Foreign key reference to address table |

Links from

|  |  |
| --- | --- |
| Table | Description |
| Payment | Foreign key reference to payment table |
| Rental | Foreign key reference to rental table |
| Store | Foreign key reference to store table |

3.11 Film Table

|  |  |  |  |
| --- | --- | --- | --- |
| Unique Key | Column | Data Type | Description |
| PK | film\_id | Serial | Unique film identifier |
|  | title | Character varying (255) | Title of film |
|  | description | Text | Description of film |
|  | release\_year | Year | Year the film was released |
| FK | language\_id | Smallint | Language of film |
|  | rental\_duration | Smallint | Duration of film |
|  | rental\_rate | Numeric (4,2) | Rate of film |
|  | Length | Smallint | Length of film |
|  | replacement\_cost | Numeric (5,2) | Replacement cost for film |
|  | rating | Mpaa\_rating | Rating of film |
|  | last\_update | Timestamp (6) without time zone | Date of last update |
|  | special\_features | Text[] | Special feature of the film |
|  | Fulltext | Tsvector | List of key words and position |

Links to

|  |  |
| --- | --- |
| Table | Description |
| Language | Foreign key reference to language table |

Links from

|  |  |
| --- | --- |
| Table | Description |
| Film\_actor | Foreign key reference to film\_actor table |
| Inventory | Foreign key reference to inventory table |
| Film\_category | Foreign key reference to film\_category table |

3.12 Actor

|  |  |  |  |
| --- | --- | --- | --- |
| Unique Key | Column | Data Type | Description |
| PK | actor\_id | Serial | Unique actor identifier |
|  | 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 | Date of last update |

Links from

|  |  |
| --- | --- |
| Table | Description |
| film\_actor | Foreign key reference to film\_actor table |