Data Dictionary

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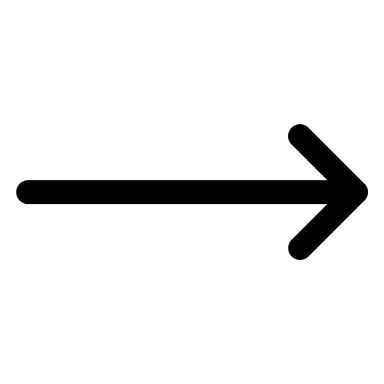
1. Entity Relationship Diagram (ERD)

A screenshot of a computer

Description automatically generated

*TABLES*

* *= Primary Key*

 *= Foreign Key*

***Fact Tables***

*Rental*

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Columns** | **Data Type** | **Description/ Attributes** |
| Key with solid fill | rental\_id | integer | Primary Key (surrogate) id of a rental |
|  | rental\_date | timestamp without zone | Date when the units were rented |
| Arrow Right with solid fill | Inventori\_id | integer | Foreign Key, unique number of inventory |
| Arrow Right with solid fill | customer\_id | smallint | Foreign Key, unique number of customer |
|  | return\_date | timestamp without time zone | Date of returning the rented movie |
| Arrow Right with solid fill | Staff\_id | smallint | Foreign Key, unique number of employee |
|  | last\_update | timestamp without time zone | Date and time of the last update |

Links to:

|  |  |
| --- | --- |
| **Table** | **Join** |
| Inventory | Rental.inventory\_id=inventory.inventory\_id |
| Customer | Rental.customer\_id=customer.customer\_id |
| Staff | Rental.staff\_id=staff.staff\_id |

Links from:

|  |  |
| --- | --- |
| **Table** | **Join** |
| Payment | Payment.rental\_id=rental.rental\_id |

*Payment*

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Columns** | **Data Type** | **Description/Attributes** |
| Key with solid fill | payment\_id | integer | Primary Key (surrogate) id of a payment |
| Arrow Right with solid fill | customer\_id | smallint | Foreign Key, unique number of a customer |
| Arrow Right with solid fill | staff\_id | smallint | Foreign Key, unique number of a staff member |
| Arrow Right with solid fill | rental\_id | integer | Foreign Key, unique number of a rental |
|  | amount | numeric | Amount recorded for each payment transaction |
|  | payment date | Timestamp  without time zone | Transaction date |

Links to:

|  |  |
| --- | --- |
| **Table** | **Join** |
| Rental | Payment.rental\_id=rental.rental\_id |
| Customer | Payment.customer\_id=customer.customer\_id |
| Staff | Payment.staff\_id=staff.staff\_id |

*Dimension Tables*

*Customer*

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Columns** | **Data Type** | **Description/ Attributes** |
| Key with solid fill | Customer\_id | Integer | Primay Key(surrogate) unique id of customer |
|  | store\_id | Smallint | Unique key of the store |
|  | First\_name | Character varying(45) | First name of the customer |
|  | last\_name | Character varing (45) | Last name of the customer |
|  | Email | Character varying (50) | Mixrd text, email address from customer |
| Arrow Right with solid fill | Address\_id | Smallint | Foreing Key, address from customers |
|  | Activebool | Boolean | Active true or false |
|  | Create\_date | Date | Date of creation |
|  | Last\_update | Timestamp without tome zone | Date and time of the last update |
|  | active | integer | If the account is active |

Links to:

|  |  |
| --- | --- |
| Table | Join |
| Address | Customer.address.id=address.address\_id |

Links from:

|  |  |
| --- | --- |
| Table | Join |
| Rental | Rental.customer\_id=customer.customer\_id |
| Payment | Payment.customer\_id=customer.customer\_id |

*Staff*

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Columns** | **Data Type** | **Description/ Attributes** |
| Key with solid fill | Staff\_id | Integer | Primary Key(surrogate),unique Id for each staff record |
|  | First\_name | Character varying(45) | First name of staff member |
|  | Last\_name | Character varying(45) | Last name of staff member |
| Arrow Right with solid fill | Address\_id | Smallint | Foreign Key,unique number address of staff member |
|  | Email | Character varying(45) | Mixed text, email address from staff member |
|  | Store\_id | Smallint | Unique Key ( no foreign according to schema) num. of stores |
|  | Active | Boolean | If staff member account active |
|  | Username | Character varying(45) | Online username of staff member |
|  | Active | Boolean | If staff member account active |
|  | Last\_update | Timestamp without time zone | Date and time of last update |
|  | Picture | bytea | Photo of staff member |

Links to:

|  |  |
| --- | --- |
| Table | Join |
| Address | Staff.address\_id=address.address\_id |

Links from:

|  |  |
| --- | --- |
| Table | Join |
| Rental | Rental.staff\_id=staff.staff\_id |
| Payment | Payment.staff\_id=staff.staff\_id |

*Store*

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Columns** | **Data Type** | **Description/ Attributes** |
| Key with solid fill | Store\_id | integre | Primary Key(surrogate)unique id for store |
| Arrow Right with solid fill | Manager\_staff\_id | smallint | Foreign Key , unique id of the staff manager |
| Arrow Right with solid fill | Address\_id | smallint | Foreign Key, unique id of store addresas |
|  | Last\_update | Timestamp without time zone | Date and time of last update |

Links to:

|  |  |
| --- | --- |
| **Table** | **Join** |
| Address | Store.address\_id=address.address\_id |

*Address*

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Columns** | **Data Type** | **Description / Attributes** |
| Key with solid fill | Address\_id | Integre | Primary Key(surrogate) unique id of address |
|  | Address | Character varying(50) | First line of address |
|  | Address2 | Character varying(50) | Second line of address ( unit number) |
|  | District | Character varying(20) | State/province/ country of given address |
| Arrow Right with solid fill | City\_id |  | Foreign Key, unique id of the city |
|  | Posrtal\_code | Character varying(10) | Mix text, postal code deatails |
|  | Phone | Character varying(20) | Mix number, phone number deatails |
|  | Last\_update | Timestamp without time zone | Date and time of last update |

Links to:

|  |  |
| --- | --- |
| Table | Join |
| City | Address.city\_id=city.city\_id |

Links from:

|  |  |
| --- | --- |
| Table | Join |
| Store | Store.address\_id=address.address\_id |
| Staff | Staff.address\_id.address.address\_id |
| Customer | Customer.address.address\_address\_id |

*City*

|  |  |  |  |
| --- | --- | --- | --- |
|  | Columns | Data Type | Description / Attributes |
| Key with solid fill | City\_id | Integre | Primary Key(surrogate) unique id of city number |
|  | City | Character Varying(50) | Name of the city |
| Arrow Right with solid fill | Country\_id | Smallint | Foreign Key , unique id of country |
|  | Last update | Timestamp without time zome | Date and time of last update |

Links to:

|  |  |
| --- | --- |
| Table | Join |
| Country | City.country\_id=country.country\_id |

Links from:

|  |  |
| --- | --- |
| Table | Join |
| Address | Address.city\_id=city.city\_id |

*Country*

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Columns** | **Data Type** | **Description/ Attributes** |
| Key with solid fill | Country\_id | Integre | Primary Key(surrogate)unique id of the country |
|  | Country | Character varying(50) | Name of the country |
|  | Last\_update | Timestamp without time zone | Date and time of last update |

Links from:

|  |  |
| --- | --- |
| Table | Join |
| City | City.country\_id=country.country\_id |

*Inventory*

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Columns** | **Data Type** | **Description/ Attributes** |
| Key with solid fill | Inventory\_id | integre | Primary Key(surrogate) unique id of inventory |
| Arrow Right with solid fill | Film\_id | Smallint | Foreign Key, unique id of the film |
|  | Store\_id | smallint | Unique id of the stored |
|  | Last\_update | Timestamp without the time zone | Date and time of last update |

|  |  |
| --- | --- |
| Table | Join |
| Film | Inventory.film\_id=film.film\_id |

*Film*

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Columns** | **Data Type** | **Description/ Attributes** |
| Key with solid fill | Film\_id | Integre | Primary Key(surrogate) unique id of the film |
|  | Title | Character varying(225) | Title of the movie |
|  | Description | Text | Description of the movie |
|  | Release\_year | Integre | The year that movie came out |
| Arrow Right with solid fill | Language\_id | Smallint | Foreign Key, unique id of the languae |
|  | Rental\_duration | Smallint | Movie rental duration |
|  | Rental\_rate | Numeric | Customer movie rate |
|  | Length | Smallint | Leigth of movie (min) |
|  | Preplacement\_cost | Numeric | Replacement cost for lost or damaged for rented movie |
|  | Rating | USED-DEFINED | Which age group can watch movie |
|  | Last\_update | Timestamp without time zone | Date and time of last update |
|  | Special\_features | ARRAY | Special features of the movie |
|  | fulltext | tsvectore | (cc) language |

Links to:

|  |  |
| --- | --- |
| Table | Join |
| Language | Film.language\_id=language.language\_id |

Links from:

|  |  |
| --- | --- |
| Table | Join |
| Film\_actor | Film.\_actor.film\_id=film.film\_id |

*Language*

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Column** | **Data Type** | **Description/ Attributes** |
| Key with solid fill | Language\_id | integre | Primary key(surrogate) unique od of language |
|  | Name | Character(20) | Name of language |
|  | Last\_update | Timestamp without time zone | Date and time of last update |

Links from:

|  |  |
| --- | --- |
| Table | Join |
| Film | Film.language\_id=language.language\_id |

*Film Category*

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Column** | **Data Type** | **Description / Attributes** |
| Key with solid fillArrow Right with solid fill | Film\_id | Smallint | Primary/foreign key, unique id of film |
| Key with solid fillArrow Right with solid fill | Category\_id | smallint | Primary/foreign key, unique id of category |
|  | Last\_update | Timestamp without time zone | Date and time of last update |

Links to:

|  |  |
| --- | --- |
| Table | Join |
| Film | Film\_categoty.film\_id=film.film\_id |
| Category | Film\_category.category=category.category\_id |

*Category*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Column** | | **Data Type** | **Description/ Attributes** | |
| Key with solid fill | Category\_id | | integre | Primary key(surrogate) unique id of category | |
|  | Name | | Character varying(25) | Name of the category | |
|  | Last\_update | | Timestamp without time zone | Date and time of last updated | |
| Table | | Join | | |
| Film\_Category | | Film\_categoty.category\_id=category.category\_id | | |

*Actor*

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Column** | **Data Type** | **Description/ Attributes** |
| Key with solid fill | Actore\_id | integre | Primary key(surrogate) unique id of actore |
|  | First\_name | Character varying(45) | First name of the actore |
|  | Last\_name | Character varying(45) | Last name of the actore |
|  | Last\_update | Timestamp without time zone | Date and time of last update |

Links from:

|  |  |
| --- | --- |
| Table | Join |
| Film\_Actor | Film\_actor.actor\_id=actor.actor\_id |

*Film\_Actore*

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Column** | **Data Type** | **Descriptiom/ Attributes** |
| Key with solid fillArrow Right with solid fill | Film\_id | Smallint | Primary/foreign key, unique id of film |
| Key with solid fillArrow Right with solid fill | Actore\_id | Smallint | Primary/foreign key, unique key of actore |
|  | Last\_update | Timestamp without time zone | Date and time of last update |

|  |  |
| --- | --- |
| Table | Join |
| Actor | Film\_actor.actor\_id=actor.actor\_id |
| Film | Film\_actor.film\_id=film.film\_id |