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| DATA DICTIONARY |
| Databases & SQL for Analysts |

*Ky Trac*

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| ENTITY RELATIONSHIP DIAGRAM |
| Databases & SQL for Analysts |

Diagram

Description automatically generated

[*file:///C:/Users/Low\_Ky\_Savage\_/Downloads/Blank%20diagram%20(1).pdf*](file:///C:/Users/Low_Ky_Savage_/Downloads/Blank%20diagram%20(1).pdf)

**Fact Tables**

|  |  |  |
| --- | --- | --- |
| **2.1 TABLE NAME:**  **rental** | | |
| *COLUMN NAME* | *DATA TYPE* | *COLUMN DESCRIPTION / ATRIBUTES* |
| rental\_id | SERIAL | Primary key, unique rental id number for each rental |
| rental\_date | TIMESTAMP(6) WITHOUT TIME ZONE | Date the movie was rented |
| inventory\_id | INTEGER | Foreign key, inventory id number for each movie |
| customer\_id | SMALLINT | Foreign key, id number for each customer |
| return\_date | TIMESTAMP(6) WITHOUT TIME ZONE | Date the movie was returned |
| staff\_id | SMALLINT | Foreign key, id number for staff member who serviced the customer |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Most recent update for the record. |
|  | | |
| *LINKS TO* |  | |
| Table | Join |  |
| inventory | rental.inventory\_id = inventory.inventory\_id |  |
| customer | rental.customer\_id = customer.customer\_id |  |
| staff | rental.staff\_id = staf.staf\_id |  |
|  |  |  |
| *LINKED FROM* |  | |
| Table | Join |  |
| payment | payment.rental\_id = rental.rental\_id |  |

|  |  |  |
| --- | --- | --- |
| ***2.2 TABLE NAME:***  ***payment*** | | |
| *COLUMN NAME* | *DATA TYPE* | *COLUMN DESCRIPTION / ATRIBUTES* |
| payment\_id | SERIAL | Primary key, unique payment id number for each payment |
| customer\_id | SMALLINT | Foreign key, customer id number  for customer making payment |
| staff\_id | SMALLINT | Foreign key, staff id number for staff receiving payment |
| rental\_id | INTEGER | Foreign key, rental id number for rental attached to payment |
| amount | NUMERIC(5,2) | Amount of payment received |
| payment\_date | TIMESTAMP(6) WITHOUT TIME ZONE | Date payment was made |
|  | | |
| *LINKS TO* |  | |
| Table | Join |  |
| customer | payment.customer\_id = customer.customer\_id |  |
| staff | payment.staff\_id = staff.staff\_id |  |
| rental | payment.rental\_id = rental.rental\_id |  |

**Dimension Tables**

|  |  |  |
| --- | --- | --- |
| ***3.1 TABLE NAME:***  ***store*** | | |
| *COLUMN NAME* | *DATA TYPE* | *COLUMN DESCRIPTION / ATRIBUTES* |
| Store\_id | Serial | Primary key, unique id number for each store |
| Manager\_staff\_id | Smallint | Foreign key, id number for store manager |
| address\_id | smallint | Foreign key, id number that represents the store address |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Most recent update for the record. |
|  | | |
| *LINKS TO* |  | |
| Table | Join |  |
| staff | *store.store\_id =*  *staff.store\_id* |  |
| address | *store.address\_id =*  *address.address\_id* |  |

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| ***3.2 TABLE NAME:***  ***film\_actor*** | | |
| *COLUMN NAME* | *DATA TYPE* | *COLUMN DESCRIPTION / ATRIBUTES* |
| actor\_id | SMALLINT | Primary key (combination), id number for each actor. Also foreign key |
| film\_id | SMALLINT | Primary key (combination), id number for each movie. Also, foreign key |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Most recent update for the record. |
|  | | |
| *LINKS TO* |  | |
| Table | Join |  |
| actor | film\_actor.actor\_id = actor\_actor\_id |  |
| film | film\_actor.film\_id = film.film\_id |  |

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| --- | --- | --- |
| ***3.3 TABLE NAME:***  ***inventory*** | | |
| *COLUMN NAME* | *DATA TYPE* | *COLUMN DESCRIPTION / ATRIBUTES* |
| inventory\_id | SERIAL | Primary key, unique id number for each item in inventory |
| film\_id | SMALLINT | Foreign key, id number representing each movie |
| store\_id | SMALLINT | Id number representing store where inventory item is located |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Most recent update for the record. |
|  | | |
| *LINKS TO* |  | |
| Table | Join |  |
| film | inventory.film\_id = film.film\_id |  |
|  | | |
| *LINKED FROM* |  | |
| Table | Join |  |
| rental | rental.inventory\_id = inventory.inventory\_id |  |

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| ***3.4 TABLE NAME:***  ***film\_category*** | | |
| *COLUMN NAME* | *DATA TYPE* | *COLUMN DESCRIPTION / ATRIBUTES* |
| film\_id | SMALLINT | Primary key (combination), id number for each movie. Also foreign key |
| category\_id | SMALLINT | Primary key (combination), id number for each film category. Also foreign key |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Most recent update for the record. |
|  | | |
| *LINKS TO* |  | |
| Table | Join |  |
| film | film\_category.film\_id = film.film\_id |  |
| category | film\_category.category\_id = category.category\_id |  |

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| ***3.5 TABLE NAME:***  ***customer*** | | |
| *COLUMN NAME* | *DATA TYPE* | *COLUMN DESCRIPTION / ATRIBUTES* |
| customer\_id | SERIAL | Primary key, unique id number for each customer |
| store\_id | SMALLINT | Id number of store the customer last visited |
| 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 | SMALLINT | Foreign key, id number representing customer's address. Foreign key |
| activebool | BOOLEAN | Is this an active customer (T/F) |
| create\_date | DATE | Date customer record created |
| Last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Most recent update for the record. |
| active | INTEGER | Is this an active customer (0/1) (Duplicate of activebool) |
|  | | |
| *LINKS TO* |  | |
| Table | Join |  |
| address | customer.address\_id = address.address\_id |  |
|  | | |
| *LINKED FROM* |  | |
| Table | Join |  |
| rental | rental.customer\_id = customer.customer\_id |  |
| payment | payment.customer\_id = customer.customer\_id |  |

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| ***3.6 TABLE NAME:***  ***staff*** | | |
| *COLUMN NAME* | *DATA TYPE* | *COLUMN DESCRIPTION / ATRIBUTES* |
| staff\_id | SERIAL | Primary key, unique id number for each staff member |
| first\_name | CHARACTER VARYING(45) | Staff member's first name |
| last\_name | CHARACTER VARYING(45) | Staff member's last name |
| address\_id | SMALLINT | Foreign key, id number representing staff members address |
| email | CHARACTER VARYING(50) | Staff member's email address |
| store\_id | SMALLINT | Store id number of the staff members location |
| active | BOOLEAN | Is the staff member active(T/F) |
| username | CHARACTER VARYING(16) | Staff members username |
| password | CHARACTER VARYING(40) | Staff members password |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Most recent update for the record. |
| picture | BYTEA | Picture number representing staff members picture |
|  | | |
| *LINKS TO* |  | |
| Table | Join |  |
| address | staff.address\_id = address.address\_id |  |
|  | | |
| *LINKED FROM* |  | |
| Table | Join |  |
| payment | payment.staff\_id = staff.staff\_id |  |
| rental | rental.staff\_id = staff.staff\_id |  |
| store | store.store\_id = staff.store\_id |  |

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| ***3.7 TABLE NAME:***  ***actor*** | | |
| *COLUMN NAME* | *DATA TYPE* | *COLUMN DESCRIPTION / ATRIBUTES* |
| actor\_id | SERIAL | Primary key, unique id number for each actor |
| first\_name | CHARACTER VARYING(45) | Actor's first name |
| last\_name | CHARACTER VARYING(45) | Actor's last name |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Most recent update for the record |
|  | | |
| *LINKED FROM* |  | |
| Table | Join |  |
| film\_actor | film\_actor.actor\_id = actor.actor\_id |  |

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| ***3.8 TABLE NAME:***  ***film*** | | |
| *COLUMN NAME* | *DATA TYPE* | *COLUMN DESCRIPTION / ATRIBUTES* |
| film\_id | SERIAL | Primary key, unique id number for each film |
| title | CHARACTER VARYING(255) | Movie title |
| description | TEXT | Movie description |
| release\_year | year | Year movie was released |
| anguage\_id | SMALLINT | Foreign key, id number representing the movie's language |
| rental\_duration | SMALLINT | Amount of time the movie was rented |
| rental\_rate | NUMERICAL(4.2) | Rental rate for the movie |
| length | SMALLINT | Runtime of the movie |
| replacement\_cost | NUMERICAL(5.2 | Cost to replace the movie |
| rating | mpaa\_rating | Movie's MPAA rating |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Most recent update for the record. |
| special\_features | TEXT | Movie's special features |
| fulltext | TSVECTOR | Keywords relevent in or related to the movie |
|  | | |
| *LINKS TO* |  | |
| Table | Join |  |
| language | film.language\_id = language.language\_id |  |
|  | | |
|  |  | |
| Table | Join |  |
| film\_actor | film\_actor.film\_id = film.film\_id |  |
| inventory | inventory.film\_id = film.film\_id |  |
| film\_category | film\_category.film\_id = film.film\_id |  |

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| ***3.9 TABLE NAME:***  ***category*** |  |  |
| *COLUMN NAME* | *DATA TYPE* | *COLUMN DESCRIPTION / ATRIBUTES* |
| category\_id | SERIAL | Primary key, unique id number representing the movie's category |
| name | CHARACTER VARYING(25) | Movie category name |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Most recent update for the record. |
|  | | |
| *LINKED FROM* |  | |
| Table | Join |  |
| film\_category | film\_category.category\_id = category.category\_id |  |

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| ***3.10 TABLE NAME:***  ***address*** |  |  |
| COLUMN NAME | DATA TYPE | COLUMN DESCRIPTION / ATRIBUTES |
| address\_id | SERIAL | Primary key, unique id number for each address |
| address | CHARACTER VARYING(50) | First address entry |
| address2 | CHARACTER VARYING(50) | Second address entry |
| district | CHARACTER VARYING(20) | District where address is located |
| city\_id | SMALLINT | Foreign key, id number representing the city in the address |
| postal\_code | CHARACTER VARYING(10) | Postal code for the address |
| phone | CHARACTER VARYING(20) | Phone number associated with the address |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Most recent update for the record. |
|  | | |
| *LINKS TO* |  | |
| Table | Join |  |
| city | address.city\_id = city.city\_id |  |
|  | | |
| *LINKED FROM* |  | |
| Table | Join |  |
| customer | customer.address\_id = address.address\_id |  |
| staff | staff.address\_id = address.address\_id |  |
| store | store.address\_id = address.address\_id |  |

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| **3.11 TABLE NAME:**  **language** |  | |
| *COLUMN NAME* | *DATA TYPE* | *COLUMN DESCRIPTION / ATRIBUTES* |
| language\_id | SERIAL | Primary key, unique id number for each language |
| name | CHARACTER VARYING(20) | Name of language |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Most recent update for the record. |
|  | | |
| *LINKED FROM* |  | |
| Table | Join |  |
| film | film.language\_id = language.language\_id |  |

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| ***3.12 TABLE NAME:***  ***city*** |  | |
| *COLUMN NAME* | *DATA TYPE* | *COLUMN DESCRIPTION / ATRIBUTES* |
| city\_id | SERIAL | Primary key, unique id number for each city |
| city | CHARACTER VARYING(50) | Name of city |
| country\_id | SMALLINT | Foreign key, id number representing each county |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Most recent update for the record. |
|  | | |
| *LINKS TO* |  | |
| Table | Join |  |
| country | city.country\_id = country.country\_id |  |
|  | | |
| *LINKED FROM* |  | |
| Table | Join |  |
| address | address.city\_id = city.city\_id |  |

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| ***3.13 TABLE NAME:***  ***country*** |  | |
| COLUMN NAME | DATA TYPE | COLUMN DESCRIPTION / ATRIBUTES |
| country\_id | SERIAL | Primary key, unique id number for each county |
| country | CHARACTER VARYING(50) | Name of county |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Most recent update for the record. |
|  | | |
| *LINKED FROM* |  | |
| Table | Join |  |
| city | country.country\_id = city.country\_id |  |