Rockbuster Stealth LLC

Data Dictionary

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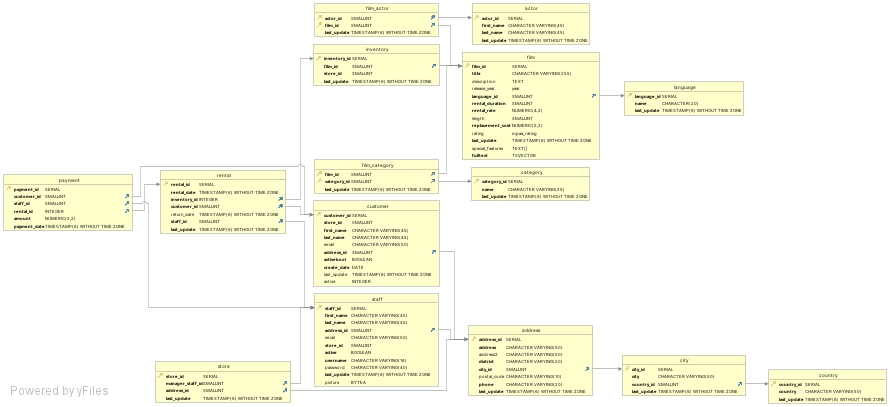
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# Entity relationship diagram (ERD)



# fact tables

## payment

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Primary Key (PK) / Foreign Key (FK)** | **Column** | **Data Type** | **Description** | **Links To / From** | **Table** |
| Primary key (PK) | payment\_id | SERIAL | unique identifier of a payment |  |  |
| Foreign Key (FK) | customer\_id | SMALLINT | unique identifier of a customer | links to | customer |
| FK | staff\_id | SMALLINT | unique identifier of a staff member | links to | staff |
| FK | rental\_id | INTEGER | unique identifier of a rental | links to | rental |
|  | amount | NUMERIC (5,2) | price of a rental |  |  |
|  | payment\_date | TIMESTAMP (6) WITHOUT TIME ZONE | date of payment |  |  |

## rental

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Primary Key (PK) / Foreign Key (FK)** | **Column** | **Data Type** | **Description** | **Links To / From** | **Table** |
| PK | rental\_id | SERIAL | unique identifier for each rental | links from | payment |
|  | rental\_date | TIMESTAMP (6) WITHOUT TIME ZONE | date of rental transaction |  |  |
| FK | inventory\_id | INTEGER | unique identifier for inventory | links to | inventory |
| FK | customer\_id | SMALLINT | unique identifier for a customer | links to | customer |
|  | return\_date | TIMESTAMP (6) WITHOUT TIME ZONE | Item “to be returned by” date |  |  |
| FK | staff\_id | SMALLINT | unique identifier for staff | links to | staff |
|  | last\_update | TIMESTAMP (6) WITHOUT TIME ZONE | date of last update |  |  |

# dimension tables

## actor

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Primary Key (PK) / Foreign Key (FK)** | **Column** | **Data Type** | **Description** | **Links To / From** | **Table** |
| PK | actor\_id | SERIAL | unique identifier for an actor | links to | film\_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 | date of last update |  |  |

## address

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Primary Key (PK) / Foreign Key (FK)** | **Column** | **Data Type** | **Description** | **Links To / From** | **Table** |
| PK | address\_id | SERIAL | unique identifier for an address | links from | customer  store  staff |
|  | address | CHARACTER VARYING(50) | address |  |  |
|  | address2 | CHARACTER VARYING(50) | additional address details |  |  |
|  | district | CHARACTER VARYING(20) | name of district |  |  |
| FK | city\_id | SMALLINT | unique identifier of a city | links to | city |
|  | postal\_code | CHARACTER VARYING(10) | postal code details |  |  |
|  | phone | CHARACTER VARYING(20) | phone number |  |  |
|  | last\_update | TIMESTAMP (6) WITHOUT TIME ZONE | date of last update |  |  |

## category

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Primary Key (PK) / Foreign Key (FK)** | **Column** | **Data Type** | **Description** | **Links To / From** | **Table** |
| PK | category\_id | SERIAL | unique identifier for a category | links from | film\_category |
|  | name | CHARACTER VARYING(25) | name of category |  |  |
|  | last\_update | TIMESTAMP (6) WITHOUT TIME ZONE | date of last update |  |  |

## city

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Primary Key (PK) / Foreign Key (FK)** | **Column** | **Data Type** | **Description** | **Links To / From** | **Table** |
| PK | city\_id | SERIAL | unique identifier for a city | links from | address |
|  | city | CHARACTER VARYING(50) | name of the city |  |  |
| FK | country\_id | SMALLINT | unique identifier for a country | links to | country |
|  | last\_update | TIMESTAMP (6) WITHOUT TIME ZONE | date of last update |  |  |

## country

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Primary Key (PK) / Foreign Key (FK)** | **Column** | **Data Type** | **Description** | **Links To / From** | **Table** |
| PK | country\_id | SERIAL | unique identifier for a country | links from | city |
|  | country | CHARACTER VARYING(50) | name of country |  |  |
|  | last\_update | TIMESTAMP (6) WITHOUT TIME ZONE | date of last update |  |  |
|  |  |  |  |  |  |

## customer

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Primary Key (PK) / Foreign Key (FK)** | **Column** | **Data Type** | **Description** | **Links To / From** | **Table** |
| PK | customer\_id | SERIAL | unique identifier for a customer | links from | rental  payment |
|  | store\_id | SMALLINT | unique identifier for the 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 |  |  |
| FK | address\_id | SMALLINT | address of customer | links to | address |
|  | activebool | BOOLEAN | active or not |  |  |
|  | create\_date | DATE | date customer was created in the system |  |  |
|  | last\_update | TIMESTAMP (6) WITHOUT TIME ZONE | date of last update |  |  |
|  | active | INTEGER | active or not |  |  |

## film

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Primary Key (PK) / Foreign Key (FK)** | **Column** | **Data Type** | **Description** | **Links To / From** | **Table** |
| PK | film\_id | SERIAL | Primary key, unique identifier for a film | links from | film\_actor  film\_category  inventory |
|  | title | CHARACTER VARYING(255) | title of film |  |  |
|  | description | TEXT | description of film |  |  |
|  | release\_year | year | year the film was released |  |  |
| FK | language\_id | SMALLINT | unique identifier for the language the film is in | links to | language |
|  | rental\_duration | SMALLINT | how long the film has been rented |  |  |
|  | rental\_rate | NUMBERIC(4,2) | rate of rental |  |  |
|  | length | SMALLINT | length of film |  |  |
|  | replacement\_cost | NUMBERIC(5,2) | cost to replace rental film |  |  |
|  | rating | mpaa\_rating | Motion picture association film rating, or what age groups the movie is appropriate for |  |  |
|  | last\_update | TIMESTAMP (6) WITHOUT TIME ZONE | date of last update |  |  |
|  | special\_features | TEXT [] | film special features |  |  |
|  | fulltext | TSVECTOR | text of film |  |  |

## film actor

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Primary Key (PK) / Foreign Key (FK)** | **Column** | **Data Type** | **Description** | **Links To / From** | **Table** |
| FK | actor\_id | SMALLINT | Primary key, unique identifier for an actor | links to | actor |
| FK | film\_id | SMALLINT | unique identifier for a film | links to | film |
|  | last\_update | TIMESTAMP (6) WITHOUT TIME ZONE | date of last update |  |  |

## film category

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Primary Key (PK) / Foreign Key (FK)** | **Column** | **Data Type** | **Description** | **Links To / From** | **Table** |
| FK | film\_id | SMALLINT | Primary key, unique identifier for a film | links to | film |
| FK | category\_id | SMALLINT | unique identifier for a category | links to | category |
|  | last\_update | TIMESTAMP (6) WITHOUT TIME ZONE | date of last update |  |  |

## inventory

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Primary Key (PK) / Foreign Key (FK)** | **Column** | **Data Type** | **Description** | **Links To / From** | **Table** |
| PK | inventory\_id | SERIAL | Primary key, unique identifier for inventory | links from | rental |
| FK | film\_id | SMALLINT | unique identifier for a film | links to | film |
| FK | store\_id | SMALLINT | unique identifier for a store | links to | store |
|  | last\_update | TIMESTAMP (6) WITHOUT TIME ZONE | date of last update |  |  |

## language

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Primary Key (PK) / Foreign Key (FK)** | **Column** | **Data Type** | **Description** | **Links To / From** | **Table** |
| PK | language\_id | SERIAL | Primary key, unique identifier for a language | links from | film |
|  | name | CHARACTER(20) | name of the language |  |  |
|  | last\_update | TIMESTAMP (6) WITHOUT TIME ZONE | date of last update |  |  |

## staff

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Primary Key (PK) / Foreign Key (FK)** | **Column** | **Data Type** | **Description** | **Links To / From** | **Table** |
| PK | staff\_id | SERIAL | Primary key, unique identifier for a staff member | links from | rental  payment  store |
|  | first\_name | CHARACTER VARYING(45) | staff member’s first name |  |  |
|  | last\_name | CHARACTER VARYING(45) | staff member’s last name |  |  |
| FK | address\_id | SMALLINT | staff member’s address | links to | address |
|  | email | CHARACTER VARYING(50) | staff member’s email |  |  |
| FK | store\_id | SMALLINT | unique identifier for a store | links to | store |
|  | active | BOOLEAN | active or not |  |  |
|  | 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 | photo of the staff member |  |  |

## store

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Primary Key (PK) / Foreign Key (FK)** | **Column** | **Data Type** | **Description** | **Links To / From** | **Table** |
| PK | store\_id | SERIAL | Primary key, unique identifier for a store | links from | inventory  staff |
| FK | manager\_staff\_id | SMALLINT | unique identifier for a staff manager |  | staff |
| FK | address\_id | SMALLINT | address of the store |  | address |
|  | last\_update | TIMESTAMP (6) WITHOUT TIME ZONE | date of last update |  |  |