

Rockbuster Stealth

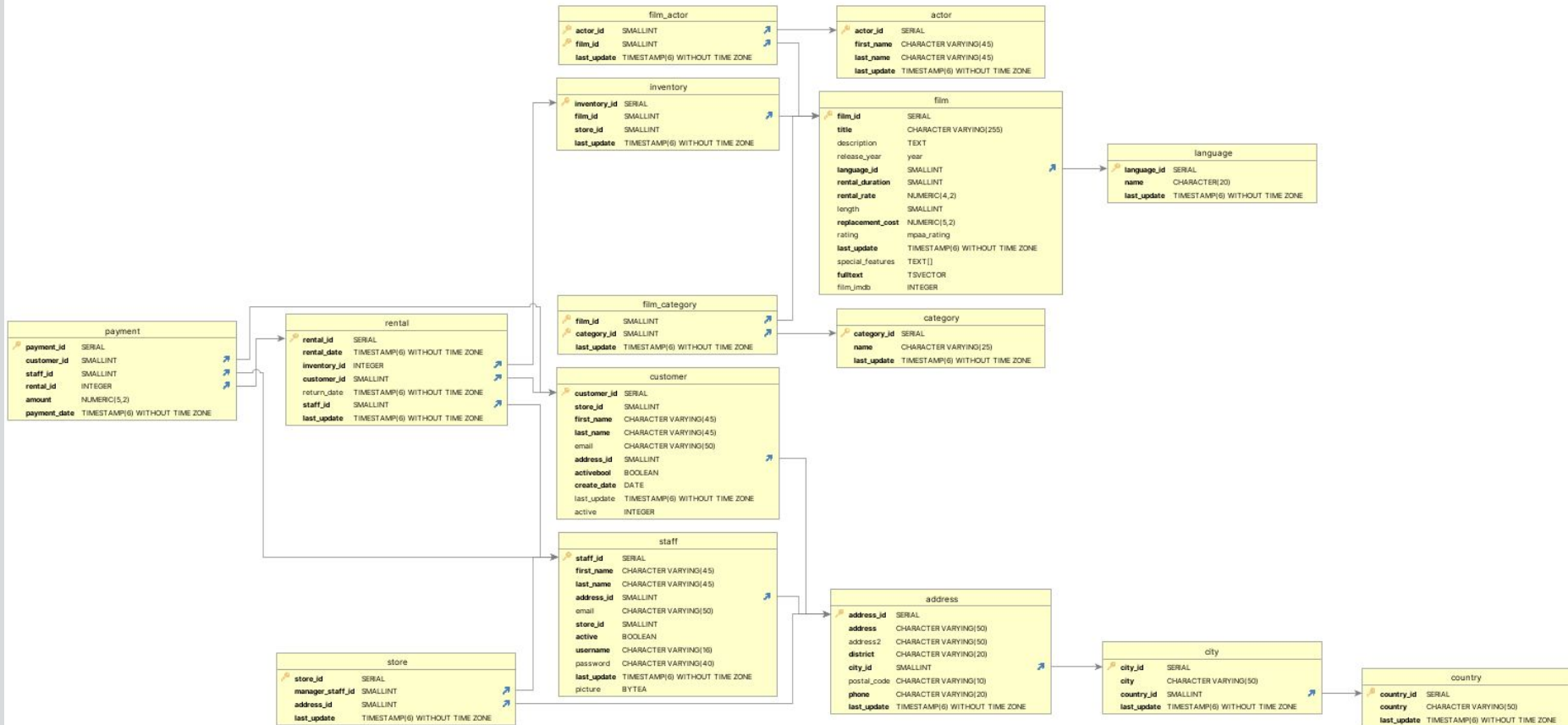
Data Dictionary

8/30/2023

Table of Contents

1.	ERD	3
2.	Legend	4
3.	Tables	5-16
a.	<u>Fact Tables</u>	
i.	Rental Table	5
ii.	Payment Table	6
b.	<u>Dimension Tables</u>	
i.	Film Table	7-8
ii.	Language Table.....	9
iii.	Actor Table	9
iv.	Film_actor.....	10
v.	Inventory Table	10
vi.	Film_category	11
vii.	Category Table	11
viii.	Customer Table	12
ix.	Store	13
x.	Staff Table	14-15
xi.	Address Table	15
xii.	City Table	16
xiii.	Country Table	16

Entity Relationship Diagram (ERD):



Legend:

Primary key:

It is a column that acts as a unique identifier for each record in the table.
It *has to be unique* for each entry and it *cannot be null*.

Foreign key:

It is a column that refers to the **primary key** in another table.
It is used to establish *relationships between tables*.

3. Tables

A. Fact Tables

i. Rental table

Columns	Data Type	Description
<i>Rental_id</i>	Serial	Primary key: Unique identifier for rentals
<i>rental_date</i>	Timestamp without time zone	Date and time of rental (YY-MM-DD HH:MM:SS)
<i>Inventory_id</i>	Integer	Foreign key: Unique identifier for inventory that connects to inventory table
<i>Customer_id</i>	Small integer	Foreign key: Unique identifier for customer that connects to customer table
<i>return_date</i>	Timestamp without time zone	Date and time of return (YY-MM-DD HH:MM:SS)
<i>Staff_id</i>	Small integer	Foreign key: Unique identifier for staff that connects to staff table
<i>last_update</i>	Timestamp without time zone	Date and time of latest update (YY-MM-DD HH:MM:SS)

Links to:

Inventory (inventory_id), customer (customer_id), staff (staff_id)

Links from:

Payment (rental_id)

ii. Payment table

Columns	Data Type	Description
<i>Payment_id</i>	Serial	Unique identifier for payments
<i>Customer_id</i>	Small integer	Foreign key: Unique identifier for customer that connects to customer table
<i>Staff_id</i>	Small integer	Foreign key: Unique identifier for staff that connects to staff table
<i>Rental_id</i>	Integer	Foreign key: Unique identifier for rental that connects to rental table
<i>Amount</i>	Numeric(5,2)	Amount of payment in \$
<i>Payment_date</i>	Timestamp without time zone	Date and time of payment (YY-MM-DD HH:MM:SS)

Links to:

Customer (customer_id), Staff (staff_id), Rental (rental_id)

Links from:

N/A

B. Dimension Tables
i. Film table

Columns	Data Type	Description
<i>Film_id</i>	Serial	Primary key: Unique identifier for film
<i>title</i>	Character varying (255)	Film title
<i>description</i>	Text	Film description
<i>release_year</i>	year	Film release year
<i>Language_id</i>	Small integer	Foreign key: Unique identifier for language that connects to language table
<i>rental_duration</i>	Small integer	Rental duration in days
<i>rental_rate</i>	Numeric (4,2)	Rental rate in \$
<i>length</i>	Small integer	Length of film in minutes.

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i. Film table (cont)

<i>Replacement_cost</i>	Numeric (5,2)	Film replacement cost in \$
<i>rating</i>	mpaa_rating	Film rating (PG, R, NC-17, PG-13, G)
<i>description</i>	Text	Film description
<i>last_update</i>	Timestamp without time zone	Date and time of update (YY-MM-DD HH:MM:SS)
<i>special_features</i>	Text	Film's special features
<i>fulltext</i>	TSVECTOR	Description of the film used for searching

Links to:

Language (language_id)

Links from:

Film_actor (film_id), inventory (film_id), film_category (film_id)

ii. Language table

Columns	Data Type	Description
<i>Language_id</i>	Serial	Primary key: Unique identifier for language
<i>name</i>	Character(20)	Language name, maximum 20 characters
<i>last_update</i>	Timestamp without time zone	Date and time of update (YY-MM-DD HH:MM:SS)

Links to:

N/A

Links from:

Film (language_id)

iii. film_actor table

Columns	Data Type	Description
<i>Actor_id</i>	Serial	Primary key: Unique identifier for actor
<i>first_name</i>	Character(45)	Actor's first name
<i>last_name</i>	Character(45)	Actor's last name
<i>last_update</i>	Timestamp without time zone	Date and time of update (YY-MM-DD HH:MM:SS)

Links to:

N/A

Links from:

Film_actor (actor_id)

iv. Film_actor table

Columns	Data Type	Description
<i>Actor_id</i>	Serial	Foreign key: Unique identifier for actor that connects to actor table
<i>Film_id</i>	Serial	Foreign key: Unique identifier for actor that connects to Film table
<i>last_update</i>	Timestamp without time zone	Date and time of update (YY-MM-DD HH:MM:SS)

Links to:

Actor (actor_id), Film (film_id)

Links from:

N/A

v. inventory table

Columns	Data Type	Description
<i>inventory_id</i>	Serial	Primary key: Unique identifier for inventory
<i>Film_id</i>	Serial	Foreign key: Unique identifier for film that connects to Film table
<i>Store_id</i>	Serial	Foreign key: Unique identifier for store that connects to store table
<i>last_update</i>	Timestamp without time zone	Date and time of update (YY-MM-DD HH:MM:SS)

Links to:

Film (film_id), Store (store_id)

Links from:

Rental (inventory_id)

vi. Film_category table

Columns	Data Type	Description
<i>Film_id</i>	Serial	Foreign key: Unique identifier for film that connects to Film table
<i>category_id</i>	Serial	Foreign key: Unique identifier for category that connects to category table
<i>last_update</i>	Timestamp without time zone	Date and time of update (YY-MM-DD HH:MM:SS)

Links to:

Actor (film_id), category (category_id)

Links from:

N/A

vii. category table

Columns	Data Type	Description
<i>Category_id</i>	Serial	Primary key: Unique identifier for category
<i>name</i>	Character varying (25)	Category name
<i>last_update</i>	Timestamp without time zone	Date and time of update (YY-MM-DD HH:MM:SS)

Links to:

N/A

Links from:

film_category (category_id)

viii. Customer table

Columns	Data Type	Description
<i>Customer_id</i>	Serial	Primary key: Unique identifier for customer
<i>store_id</i>	Serial	Foreign key: Unique identifier for store that connects to store table
<i>first_name</i>	Character(45)	Customer's first name
<i>last_name</i>	Character(45)	Customer's last name
<i>email</i>	Character(50)	Customer's email
<i>address_id</i>	Serial	Foreign key: Unique identifier for address that connects to address table
<i>activebool</i>	BOOLEAN	Customer activity status: active or inactive
<i>create_date</i>	DATE	Customer profile creation date (YY-MM-DD)
<i>last_update</i>	Timestamp without time zone	Date and time of update (YY-MM-DD HH:MM:SS)
<i>active</i>	INTEGER	Customer activity status: active or inactive

Links to:

Store (store_id),
Address (address_id)

Links from:

Payment (customer_id),
rental (customer_id)

ix. Store table

Columns	Data Type	Description
<i>Store_id</i>	Serial	Primary key: Unique identifier for film
<i>manager_staff_id</i>	Small integer	ID number for Manager staff
<i>address_id</i>	Small integer	Unique identifier of the address
<i>last_update</i>	Timestamp without time zone	Date and time of update (YY-MM-DD HH:MM:SS)

Links to:

address (address_id)

Links from:

Staff (store_id), inventory (store_id)

x. Staff table

Columns	Data Type	Description
<i>Staff_id</i>	Serial	Primary key: Unique identifier for staff
<i>first_name</i>	Character(45)	Staff's first name
<i>last_name</i>	Character(45)	Staff's last name
<i>address_id</i>	Serial	Foreign key: Unique identifier for address that connects to address table
<i>email</i>	Character(50)	Staff's email
<i>Store_id</i>	Serial	Foreign key: Unique identifier for store that connects to store table
<i>active</i>	BOOLEAN	Staff activity status: active or inactive
<i>create_date</i>	DATE	Customer profile creation date (YY-MM-DD)
<i>username</i>	Character varying (16)	Staff username
<i>password</i>	Character varying (40)	Staff password
<i>last_update</i>	Timestamp without time zone	Date and time of update (YY-MM-DD HH:MM:SS)

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x. Staff table (cont.)

<i>picture</i>	BYTEA	Staff photo
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Links to:

Store (store_id), Address (address_id)

Links from:

N/A

xi. Address Table

Columns	Data Type	Description
<i>Address_id</i>	Serial	Primary key: Unique identifier for address
<i>address</i>	Character varying (50)	Address
<i>Address 2</i>	Character varying (50)	Address line 2
<i>district</i>	Character varying (20)	District
<i>city_id</i>	Serial	Foreign key: Unique identifier for city that connects to city table
<i>Postal_code</i>	Character varying (10)	Postal code without spaces
<i>Phone</i>	Character varying (20)	Telephone number without spaces
<i>last_update</i>	Timestamp without time zone	Date and time of update (YY-MM-DD HH:MM:SS)

Links to:

City (city_id)

Links from:

Staff (address_id) , Store (address_id), Customer (address_id)

xii. City Table

Columns	Data Type	Description
<i>City_id</i>	Serial	Primary key: Unique identifier for city
<i>city</i>	Character varying (50)	City name
<i>Country_id</i>	Serial	Foreign key: Unique identifier for country that connects to country table
<i>last_update</i>	Timestamp without time zone	Date and time of update (YY-MM-DD HH:MM:SS)

Links to:

Country (country_id)

Links from:

Address (city_id)

xiii. Country table

Columns	Data Type	Description
<i>Country_id</i>	Serial	Primary key: Unique identifier for film
<i>Country</i>	Character varying (50)	Country
<i>last_update</i>	Timestamp without time zone	Date and time of update (YY-MM-DD HH:MM:SS)

Links to:

N/A

Links from:

City (country_id)