Rockbuster

DATA DICTONARY

GABRIELA SILVA CASCIONE

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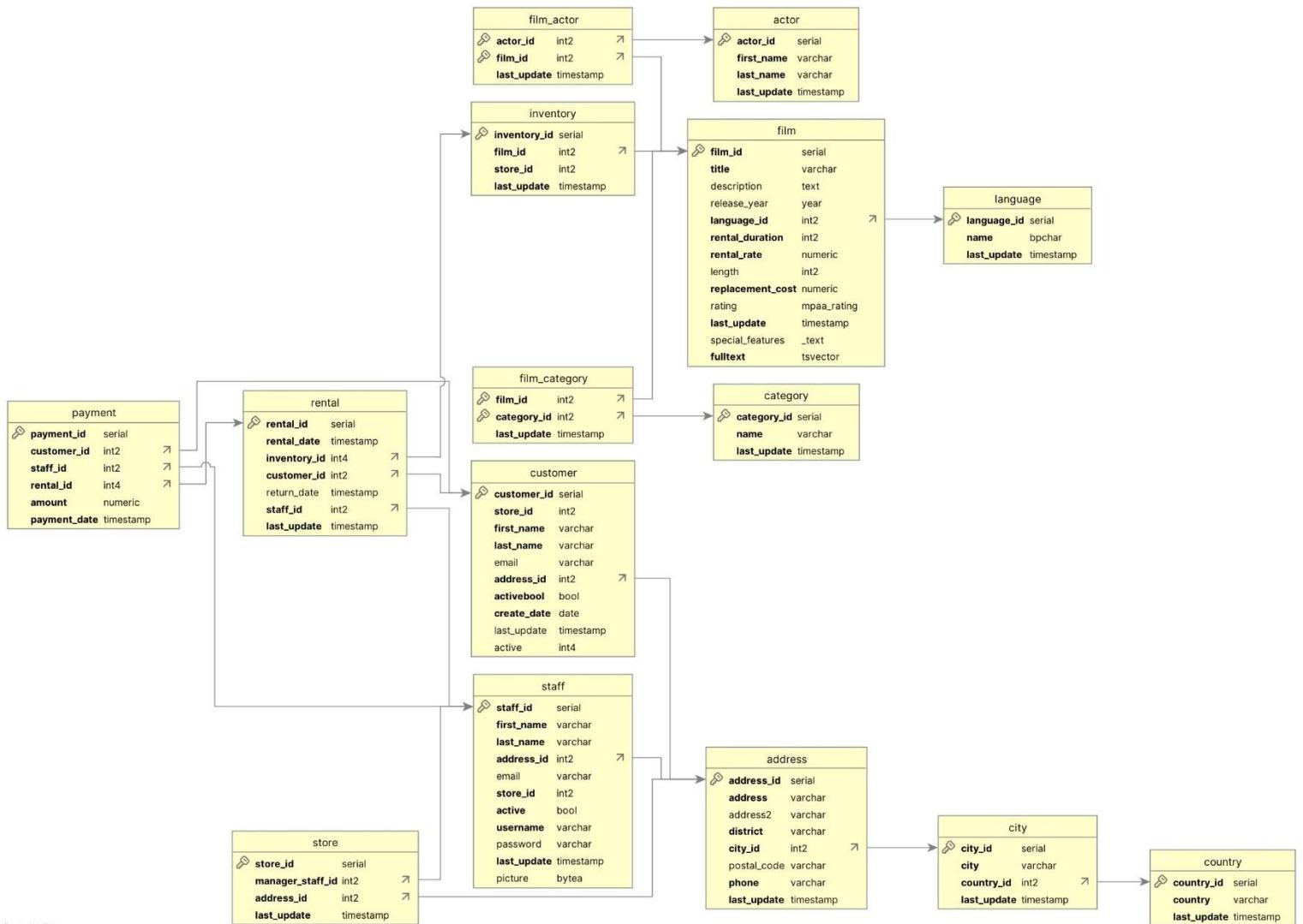
LEGEND

PK – Primary key

FK – Foreign key

CK – Composite Key

1.1 ERD

film_actor
- actor_id — int2
- film_id — int2
- last_update — timestamp

actor
- actor_id — serial
- first_name — varchar
- last_name — varchar
- last_update — timestamp

inventory
- inventory_id — serial
- film_id — int2
- store_id — int2
- last_update — timestamp

film
- film_id — serial
- title — varchar
- description — text
- release_year — year
- language_id — int2
- rental_duration — int2
- rental_rate — numeric
- length — int2
- replacement_cost — numeric
- rating — mpaa_rating
- last_update — timestamp
- special_features — _text
- fulltext — tsvector

language
- language_id — serial
- name — bpchar
- last_update — timestamp

film_category
- film_id — int2
- category_id — int2
- last_update — timestamp

category
- category_id — serial
- name — varchar
- last_update — timestamp

payment
- payment_id — serial
- customer_id — int2
- staff_id — int2
- rental_id — int4
- amount — numeric
- payment_date — timestamp

rental
- rental_id — serial
- rental_date — timestamp
- inventory_id — int4
- customer_id — int2
- return_date — timestamp
- staff_id — int2
- last_update — timestamp

customer
- customer_id — serial
- store_id — int2
- first_name — varchar
- last_name — varchar
- email — varchar
- address_id — int2
- activebool — bool
- create_date — date
- last_update — timestamp
- active — int4

staff
- staff_id — serial
- first_name — varchar
- last_name — varchar
- address_id — int2
- email — varchar
- store_id — int2
- active — bool
- username — varchar
- password — varchar
- last_update — timestamp
- picture — bytea

store
- store_id — serial
- manager_staff_id — int2
- address_id — int2
- last_update — timestamp

address
- address_id — serial
- address — varchar
- address2 — varchar
- district — varchar
- city_id — int2
- postal_code — varchar
- phone — varchar
- last_update — timestamp

city
- city_id — serial
- city — varchar
- country_id — int2
- last_update — timestamp

country
- country_id — serial
- country — varchar
- last_update — timestamp

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2.1 FACTS TABLES

2.1.1 payment

Column Name	Data Type	Data type name	Description
payment_id	4	serial	unique identifier of the payment
customer_id	5	int2	unique identifier of the customer
staff_id	5	int2	unique identifier of the staff that processed the payment
rental_id	4	int4	unique identifier of the rental
amount	2	numeric	cost of the rental
payment_date	93	timestamp	when the payment was made (date and time)

Links to

Links to table	Join
customer	customer_id = customer_id
staff	staff_id = staff_id
rental	rental_id = rental_id

Unique Keys

Key Type	Column
PK	payment_id
FK	customer_id
FK	staff_id
FK	rental_id

2.1.2 rental

Column Name	Data Type	Data type name	Description
rental_id	4	serial	unique identifier of the rental
rental_date	93	timestamp	when the rental started (date and time)
inventory_id	4	int4	unique identifier of the inventory
customer_id	5	int2	unique identifier of the customer
return_date	93	timestamp	when the rental finished (date and time)
staff_id	5	int2	unique identifier of the staff that processed the rental
last_update	93	timestamp	when this record was last updated (date and time)

Links to

Links to table	Join
inventory	inventory_id = inventory_id
customer	customer_id = customer_id
staff	staff_id = staff_id

Links from

Linked from table	Join
payment	rental_id = rental_id

Unique Keys

Key Type	Column
PK	rental_id
FK	inventory_id
FK	customer_id
FK	staff_id

2.2 DIMENSION TABLES

2.2.1 actor

Column Name	Data Type	Data type name	Description
actor_id	4	serial	unique identifier of the actor
first_name	12	varchar	actor`s first name
last_name	12	varchar	actor`s last name
last_update	93	timestamp	when this record was last updated (date and time)

Links from

Linked from table	Join
film_actor	actor_id = actor_id

Unique keys

Key Type	Column
PK	actor_id

2.2.2 address

Column Name	Data Type	Data type name	Description
address_id	4	serial	unique identifier of the address
address	12	varchar	street name and building number
address2	12	varchar	additional address information
district	12	varchar	district of the address
city_id	5	int2	unique identifier of the city
postal_code	12	varchar	postal code of the address
phone	12	varchar	phone number of this address
last_update	93	timestamp	when this record was last updated (date and time)

Links to

Links to table	Join
city	city_id = city_id

Links from

Linked from table	Join
staff	address_id = address_id
customer	address_id = address_id
store	address_id = address_id

Unique Keys

Key Type	Column
PK	address_id
FK	city_id

2.2.3 category

Column Name	Data Type	Data type name	Description
category_id	4	serial	unique identifier of the category
name	12	varchar	name of the category
last_update	93	timestamp	when this record was last updated (date and time)

Links from

Linked from table	Join
film_category	category_id = category_id

Unique keys

Key Type	Column
PK	category_id

2.2.4 city

Column Name	Data Type	Data type name	Description
city_id	4	serial	unique identifier of the city
city	12	varchar	name of the city
country_id	5	int2	unique identifier of the country
last_update	93	timestamp	when this record was last updated (date and time)

Links to

Links to table	Join
country	country_id = country_id

Links from

Linked from table	Join
address	city_id = city_id

Unique keys

Key Type	Column
PK	city_id
FK	country_id

2.2.5 country

Column Name	Data Type	Data type name	Description
country_id	4	serial	unique identifier of the country
country	12	varchar	name of the country
last_update	93	timestamp	when this record was last updated (date and time)

Links from

Linked from table	Join
city	country_id = country_id

Unique keys

Key Type	Column
PK	country_id

2.2.6 customer

Column Name	Data Type	Data type name	Description
customer_id	4	serial	unique identifier of the customer
store_id	5	int2	unique identifier of the store
first_name	12	varchar	customer`s first name
last_name	12	varchar	customer`s last name
email	12	varchar	customer`s email
address_id	5	int2	unique identifier of the address
activebool	-7	bool	shows if staff is active or not (true or false)
create_date	91	date	when was this line create (date only)
last_update	93	timestamp	when this record was last updated (date and time)
active	4	int4	shows if staff is active or not (1 or 0)

Links to

Links to table	Join
store	store_id = store_id
address	address_id = address_id

Links from

Linked from table	Join
rental	customer_id = customer_id

Unique keys

Key Type	Column
PK	customer_id
FK	store_id
FK	address_id

2.2.7 film

Column Name	Data Type	Data type name	Description
film_id	4	serial	unique identifier of the film
title	12	varchar	name of the movie
description	12	text	description of the movie
release_year	2001	year	year the movie was released
language_id	5	int2	unique identifier of the language of the movie
rental_duration	5	int2	max rent duration possible (in days)
rental_rate	2	numeric	cost of the rental
length	5	int2	how long is the movie in minutes
replacement_cost	2	numeric	cost to replace the movie
rating	12	mpaa_rating	age rating of the movie
last_update	93	timestamp	when this record was last updated (date and time)
special_features	2003	_text	extra content (e.g trailers, behind the scenes)
fulltext	1111	tsvector	key words for search

Links to

Links to table	Join
language	language_id = language_id

Links from

Linked from table	Join
film_actor	film_id = film_id

Unique keys

Key Type	Column
PK	film_id
FK	language_id

2.2.8 film_actor

Column Name	Data Type	Data type name	Description
actor_id	5	int2	unique identifier of the actor
film_id	5	int2	unique identifier of the film
last_update	93	timestamp	when this record was last updated (date and time)

Links to

Links to table	Join
actor	actor_id = actor_id
film	film_id = film_id

Unique keys

Key Type	Column
CK	actor_id
CK	film_id

2.2.9 film_category

Column Name	Data Type	Data type name	Description
film_id	5	int2	unique identifier of the film
category_id	5	int2	unique identifier of the category
last_update	93	timestamp	When this record was last updated

Links to

Links to table	Join
film	film_id = film_id
category	category_id = category_id

Unique keys

Key Type	Column
PK	film_id
FK	category_id

2.2.10 inventory

Column Name	Data Type	Data type name	Description
inventory_id	4	serial	unique identifier of the inventory
film_id	5	int2	unique identifier of the film
store_id	5	int2	unique identifier of the store
last_update	93	timestamp	when this record was last updated (date and time)

Links to

Links to table	Join
film	film_id = film_id
store	store_id = store_id

Links from

Linked from table	Join
rental	inventory_id = inventory_id

Unique keys

Key Type	Column
PK	inventory_id
FK	film_id
FK	store_id

2.2.11 language

Column Name	Data Type	Data type name	Description
language_id	4	serial	unique identifier of the language
name	1	bpchar	name of the language
last_update	93	timestamp	when this record was last updated (date and time)

Links from

Linked from table	Join
film	language_id = language_id

Unique keys

Key Type	Column
PK	language_id

2.2.12 staff

Column Name	Data Type	Data type name	Description
staff_id	4	serial	unique identifier of the staff
first_name	12	varchar	staff`s person first name
last_name	12	varchar	staff`s person last name
address_id	5	int2	unique identifier of the address
email	12	varchar	email address of the staff

store_id	5	int2	unique identifier of the store
active	-7	bool	shows if staff is active or not
username	12	varchar	user name of the staff in the system
password	12	varchar	password of the staff in the system
last_update	93	timestamp	when this record was last updated (date and time)
picture	-2	bytea	picture of the staff

Links to

Links to table	Join
address	address_id = address_id

Links from

Linked from table	Join
payment	staff_id = staff_id
store	store_id = store_id
store	manager_staff_id = staff_id
rental	staff_id = staff_id
address	address_id = address_id

Unique keys

Key Type	Column
PK	staff_id
FK	store_id
FK	address_id

2.2.13 store

Column Name	Data Type	Data type name	Description
store_id	4	serial	unique identifier of the store
manager_staff_id	5	int2	unique identifier of the staff that manages the store
address_id	5	int2	unique identifier of the address
last_update	93	timestamp	when this record was last updated (date and time)

Links to

Links to table	Join
staff	manager_staff_id = staff_id
address	address_id = address_id

Unique keys

Key Type	Column
PK	store_id
FK	manager_staff_id
FK	address_id