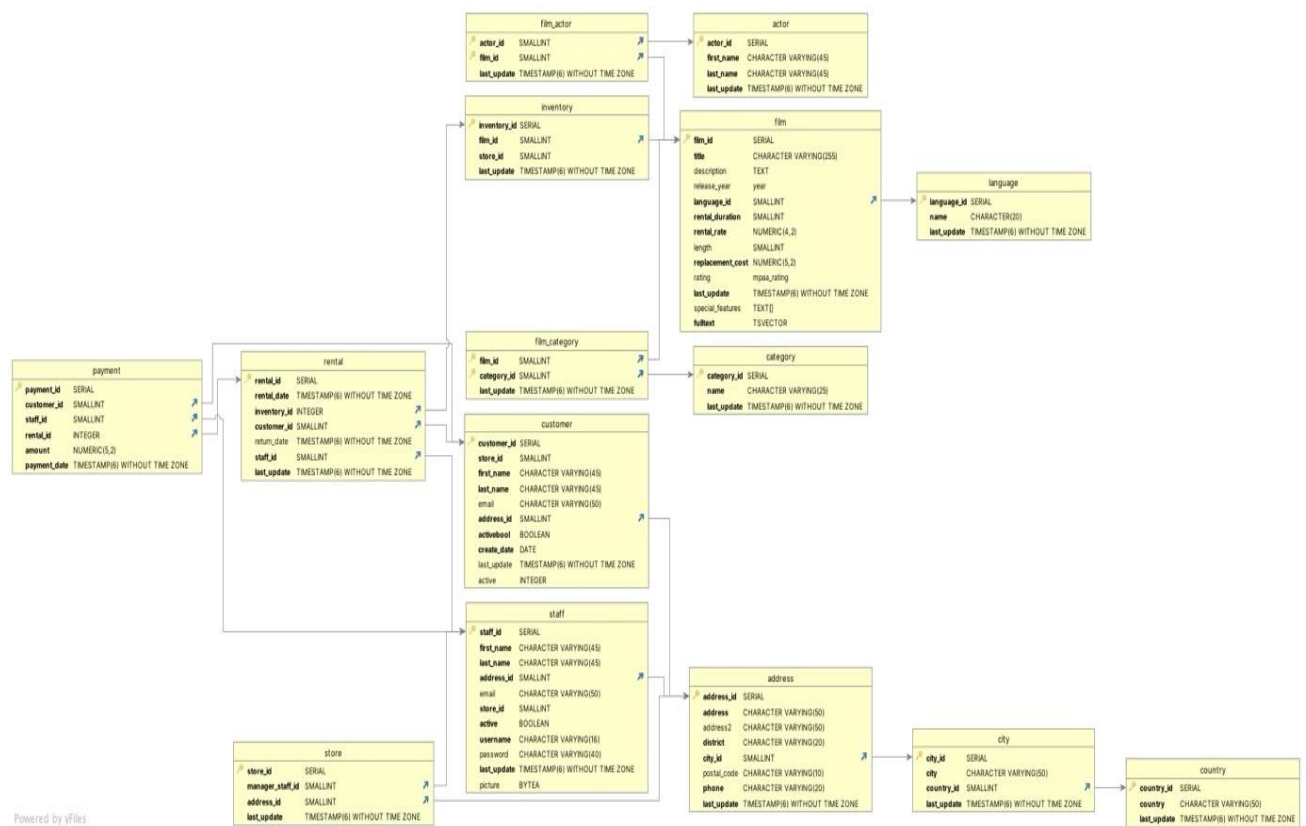


Relational Databases. Answers 3.2.



Even if the data scheme is more complex than a typical snowflake, I would still categorize it as snowflake schema because of its complexity, 2 fact tables, surrounded by dimension and sub-dimension tables.

Fact Tables

Customer

customer_id	serial	Primary key, an unique number for every customer
store_id	int2	A unique number for the store that registered the customer
first_name	varchar	The customers last name
last_name	varchar	The customers first name
email	varchar	The customers email
address_id	int2	A unique id for an address (household)
activebool	boolean	True/False statement about a customer being active/nonactive
create_date	date	The date the customer was introduced in the system
last_update	timestamp	The last update of the informations in the system

active	int4	The same as activebool but in integer format
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Rental

rental_id	serial	Primary key, unique number for each rental
rental_date	timestamp	Data format, the date of the registered rental
inventory_id	int4	Foreign Key, the id number for the movie rented
customer_id	int2	Foreign Key, un unique id for the customer
return_date	timestamp	A data type for the returning date
staff_id	int2	Foreign Key, an id number for the staff registering the transaction
last_update	timestamp	A date for the last updated informations

Dimension Tables

Staff

staff_id	serial	Primary key, a unique numbe belonging to one staff
first_name	varchar	First name of the staff
last_name	varchar	Last name of the staff
address_id	int2	Foreign key, a unique number belonging to a registered adress
email	varchar	Email of the staff
store_id	int2	A identification number for the store
active	bool	A true/false statement about the staff being active
username	varchar	Username to log in in the system
password	varchar	Password to log in in the system
last_update	timestamp	The last update of the informations
picture	bytea	The picture of the staff

Actor

actor_id	serial	Primary key, an unique id number for actor
first_name	varchar	The first name of the actor
last_name	varchar	The last name of the actor
last_update	timestamp	The last update of the information of the table

Film

film_id	serial	Primary key, an unique identification number for a movie
title	varchar	The title of the movie
description	text	A column for film description with multiple characters
release_year	year	The year of releasing
language_id	int2	Foreign Key, to identify the language of the audio language
rental_duration	int2	The duration of the movie
rental_rate	numeric	Rating of the movie
length	int2	The duration of the movie
replacement_cost	numeric	The cost that can be recovered from a customer in case the movie gets lost
rating	mpaa_rating	Film rating
last_update	timestamp	The last update of the informations
special_features	_text	Additional informations related to the movies
fulltext	tsvector	Key words for the movie

Adress

address_id	serial	Primary key, an unique number for the adress
address	varchar	Text identifying the adress
address2	varchar	Alternative adress
district	varchar	The district of the adress
city_id	int2	Foreign key, unique number to identify the cuty
postal_code	varchar	The postal code for the adress
phone	varchar	The phone number of the customer

last_update	timestamp	The last update of the informations in the table
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Category

category_id	serial	Primary key
name	varchar	The name of the category
last_update	timestamp	The last update of the informations in the table

City

city_id	serial	Primary key
city	varchar	The name of the city
country_id	int2	An unique number identifying the country
last_update	timestamp	The last update of the informations in the table

Country

country_id	serial	Primary key, an unique identification number for the country
country	varchar	The name of the country
last_update	timestamp	The last update of the informations in the table

Film_actor

actor_id	int2	Primary key, foreign key, an unique identification number for the actor
film_id	int2	Primary key, foreign key, an unique identification number for the film
last_update	timestamp	The last update of the informations in the table

Film_category

film_id	int2	Primary key, foreign key, , an unique identification number for the film
category_id	int2	Primary key, foreign key, , an unique identification number for the category

last_update	timestamp	The last update of the informations in the table
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Inventory

inventory_id	serial	Primary key, an unique identification number for the inventory
film_id	int2	an unique identification number for the film
store_id	int2	an unique identification number for the store
last_update	timestamp	The last update of the informations in the table

Language

language_id	serial	Primary key, an unique identification number for the language
name	bpchar	The name of the language
last_update	timestamp	The last update of the informations in the table

Payment

payment_id	serial	Primary key, an unique identification number for the payment
customer_id	int2	Foreign Key, an unique identification number for the customer
staff_id	int2	Foreign Key, an unique identification number for the staff
rental_id	int4	Foreign Key, an unique identification number for the rental
amount	numeric	The amount charged
payment_date	timestamp	The date of the payment, updated at every transaction

Store

store_id	serial	Primary key, an unique identification number for the store
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manager_staff_id	int2	Foreign key, an unique identification number for the staff
address_id	int2	Foreign Key, an unique identification number for the adress
last_update	timestamp	The last update of the informations in the table

1.Which actors brought Rockbuster the most revenue?

Payment/ Rental / Inventory / Film-Actor / Actor

2.What language are the majority of movies in the collection?

Film / Language