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Rockbuster Data Dictionary

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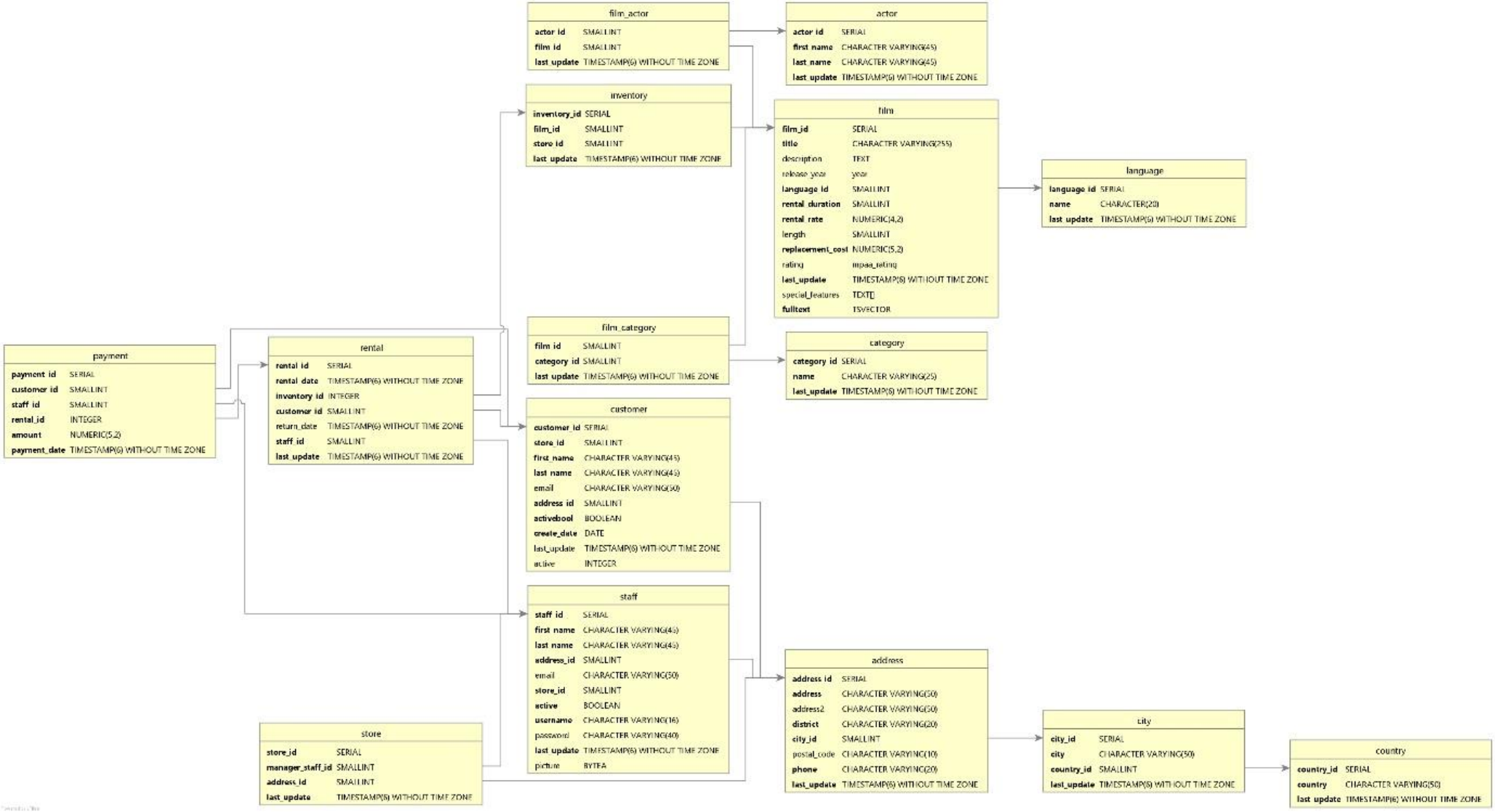
I. Entity Relationship Diagram (ERD)



1. Tables

2.1 Fact table:

2.1.1 Rental table

Columns	Data Type	Description
rental_id	SERIAL	id given to each movie rental. It is a PK.
rental_date	TIMESTAMP (6) WITHOUT TIME ZONE	Rental year, month, date, hour, minute, and second
inventory_id	INTEGER	Id given for each movie for monitoring purpose
customer_id	SNALLINT	Id given to each customer who rented the movie
return_date	TIMESTAMP (6) WITHOUT TIME ZONE	movie return year, month, date, hour, minute, and second
staff_id	SMALLINT	Id given to each staff
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Latest status of rental movie

Linked from:

Table	Join	Description/Attributes
Payment	payment.rental_id = rental.rental_id	rental_id FK to payment table

Linked to:

Table	Join	Description/Attributes
Inventory	rental.inventory_id = inventory.inventory_id	Inventory_id FK to rental table
customer	Rental.customer_id = customer.customer_id	Customer_id FK to rental table

2.2. Dimension tables:

2.2.1 Payment table

Columns	Data Type	Description
payment _id	SERIAL	Id for each payment made/record. It is a PK.
customer_id	SMALLINT	Id given to each customer
staff_id	SNALLINT	Id given to each staff
rental_id	INTEGER	Id for each movie rented
amount	NUMERIC(5.2)	Amount paid by customers
payment_date	TIMESTAMP (6) WITHOUT TIME ZONE	Year, month, date, hour, minute, and second of payment made

Linked to:

Table	Join	Description/Attributes
rental	rental.rental_id = payment.rental_id	rental_id FK to payment table
staff	Payment.staff_id = staff.staff_id	Staff_id FK to payment table

2.2.2 film_actor table

Columns	Data Type	Description
actor _id	SERIAL	Id given for each actor. It is a PK.
film_id	SMALLINT	Id given for each rental movie
last_updated	TIMESTAMP (6) WITHOUT TIME ZONE	Year, month, date, hour, minute, and second of payment made

Linked to:

Table	Join	Description/Attributes
actor	film_actor.actor_id = actor.actor_id	actor_id FK to film_actor table

2.2.3 inventory table

Columns	Data Type	Description
inventory_id	SERIAL	Id given for each movie for monitoring purpose. It is a PK.
film_id	SMALLINT	Id given for each rental movie
store_id	SMALLINT	Id given for each rental movie store
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Latest inventory status by Year, month, date, hour, minute, and second

Linked from:

Table	Join	Description/Attributes
rental	rental.inventory_id=inventory.inventory_id	Inventory_id FK to rental table

Linked to:

Table	Join	Description/Attributes
film	Inventory.film_id = film.film_id	Film_id FK to inventory table

2.2.4 film category

Columns	Data Type	Description
film_id	SERIAL	id given for each rental movie. It is a PK.
Category_id	SMALLINT	id given to each rental movie category
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Latest status by Year, month, date, hour, minute, and second

Linked to:

Table	Join	Description/Attributes
category	Film_category.category_id = category.category_id	Film.film_id FK to film_category table

2.2.5 customer

Columns	Data Type	Description
customer_id	SERIAL	Id given to each customer. It is a PK.
store_id	SMALLINT	Id given for each rental movie store
first_name	CHARACTER VARYING (45)	First name of customer
last_name	CHARACTER VARYING (45)	Last name of customer
email	CHARACTER VARYING (50)	Customer's email address
address_id	SMALLINT	Customer's address
activebool	SMALLINT	Status whether a customer is active or not
create_date	DATE	Customer registration date
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Latest update on a customer by Year, month, date, hour, minute, and second
active	INTEGER	Checks customer's status

Linked from:

Table	Join	Description/Attributes
rental	Rental.customer_id = customer.customer_id	Customer_id FK to rental table

2.2.6 staff table

Columns	Data Type	Description
staff_id	SERIAL	Id given to each staff. It is a PK.
first_name	CHARACTER VARYING (45)	First name of a staff
last_name	CHARACTER VARYING (45)	Last name of a staff
address_id	SMALLINT	Staff's address
email	CHARACTER VARYING (50)	Staff's email address
store_id	SMALLINT	movie rental store id's address
active	Boolean	Status of staff
username	CHARACTER VARYING (16)	Staff's username
password	CHARACTER VARYING (40)	Staff's password
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Staff's latest update by Year, month, date, hour, minute, and second
picture	BYTEA	Staff's picture

Linked from:

Table	Join	Description/Attributes

payment	Payment.staff_id = staff.staff_id	Staff_id FK to payment table

2.2.7 store table

Columns	Data Type	Description
store_id	SERIAL	movie rental store id's address. It is a PK.
manager_staff_id	SMALLINT	Id of each staff manager
address_id	SMALLINT	Address of staff manager
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Store's latest update by year, month, date, hour, minute, and second

Linked from:

Table	Join	Description/Attributes
staff	Store.store_id = staff.store_id	Store_id FK to staff table

2.2.8 actor table

Columns	Data Type	Description
actor_id	SERIAL	movie rental store id's address. It is a PK.
first_name	CHARACTER VARYING (45)	First name of an actor
last_name	CHARACTER VARYING (45)	Last name of an actor
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Actor's latest update by year, month, date, hour, minute, and second

Linked from:

Table	Join	Description/Attributes
Film_actor	Film_actor.actor_id = actor.actor_id	Actor_id FK to film_actor

2.2.9 film table

Columns	Data Type	Description
film_id	SERIAL	Id of each rental movie. It is a PK.
title	CHARACTER VARYING (45)	Titel of a rental movie
description	CHARACTER VARYING (45)	Description of rental movie
release_year	SMALLINT	The release year of rental movie
language_id	CHARACTER VARYING (50)	Language id of a rental movie
rental_duration	SMALLINT	The duration of rental movie rented out
rental_rate	Boolean	Cost of each rental movie
length	CHARACTER VARYING (16)	Length of a movie
replacement cost	CHARACTER VARYING (40)	Replacement cost for each movie rented out already
rating	TIMESTAMP (6) WITHOUT TIME ZONE	Rating given to a rental movie by year, month, date, hour, minute, and second
last_update	BYTEA	Latest update on a rental movie
special_features	TEXT	Description of special feature of each rental movie

fulltext	TSVECTOR	Short description of a rental movie

Linked from:

Table	Join	Description/Attributes
Inventory	Inventory.film_id = film.film_id	Film_id FK to inventory table
Film_category	Film_category.film_id = film.film_id	Film_id FK to film_category

2.2.10 category table

Columns	Data Type	Description
category_id	SERIAL	Id of each movie category. It is a PK.
Name	CHARACTER VARYING (25)	Rental movie category name
Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Latest update on a rental movie by year, month, date, hour, minute, and second

Linked from:

Table	Join	Description/Attributes
Film_category	Film_category.category_id – category.category.id	Category_id FK to film_category table

2.2.11 address table

Columns	Data Type	Description
address_id	SERIAL	Id of each store's address. It is a PK.
address	CHARACTER VARYING (50)	Address of each rental store id
address2	CHARACTER VARYING (50)	Second address of each store
district	CHARACTER VARYING (20)	District of each store id
city_id	SMALLINT	City of each store
postal_code	CHARACTER VARYING (10)	Store's postal code
phone	CHARACTER VARYING (20)	Phone number of each store
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Latest update on each store address by year, month, date, hour, minute, and second

Linked from:

Table	Join	Description/Attributes
store	Store.address_id = address.address_id	address_id FK to store table
customer	Customer.address_id = address.address_id	address_id FK to customer table
staff	Staff.address_id = address.address_id	address_id FK to staff table

2.2.12 language table

Columns	Data Type	Description
language_id	SERIAL	Movie's language id. It is a PK.

name	CHARACTER VARYING (20)	Language of each rental movie
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Latest update on movie language by year, month, date, hour, minute, and second

Linked from:

Table	Join	Description/Attributes
Film	Film.language_id = language.language_id	Language_id FK to film table

2.2.13 city table

Columns	Data Type	Description
city_id	SERIAL	Id of each store's city. It is a PK.
city	CHARACTER VARYING (50)	City of each movie rental store
country_id	SMALINT	Country id of each store location
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Latest update on each store's city by year, month, date, hour, minute, and second

Linked from:

Table	Join	Description/Attributes
address	Address.city_id = city.city_id	City_id FK to address table

2.2.14 country table

Columns	Data Type	Description
country_id	SERIAL	Id of each store's country. It is a PK.
country	CHARACTER VARYING (50)	Country of each movie rental store
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Latest update on each store's country by year, month, date, hour, minute, and second

Linked from:

Table	Join	Description/Attributes
city	City.country_id = country.country_id	Country_id FK to city table