Rockbuster: State of the Company Report 2020 Data Dictionary
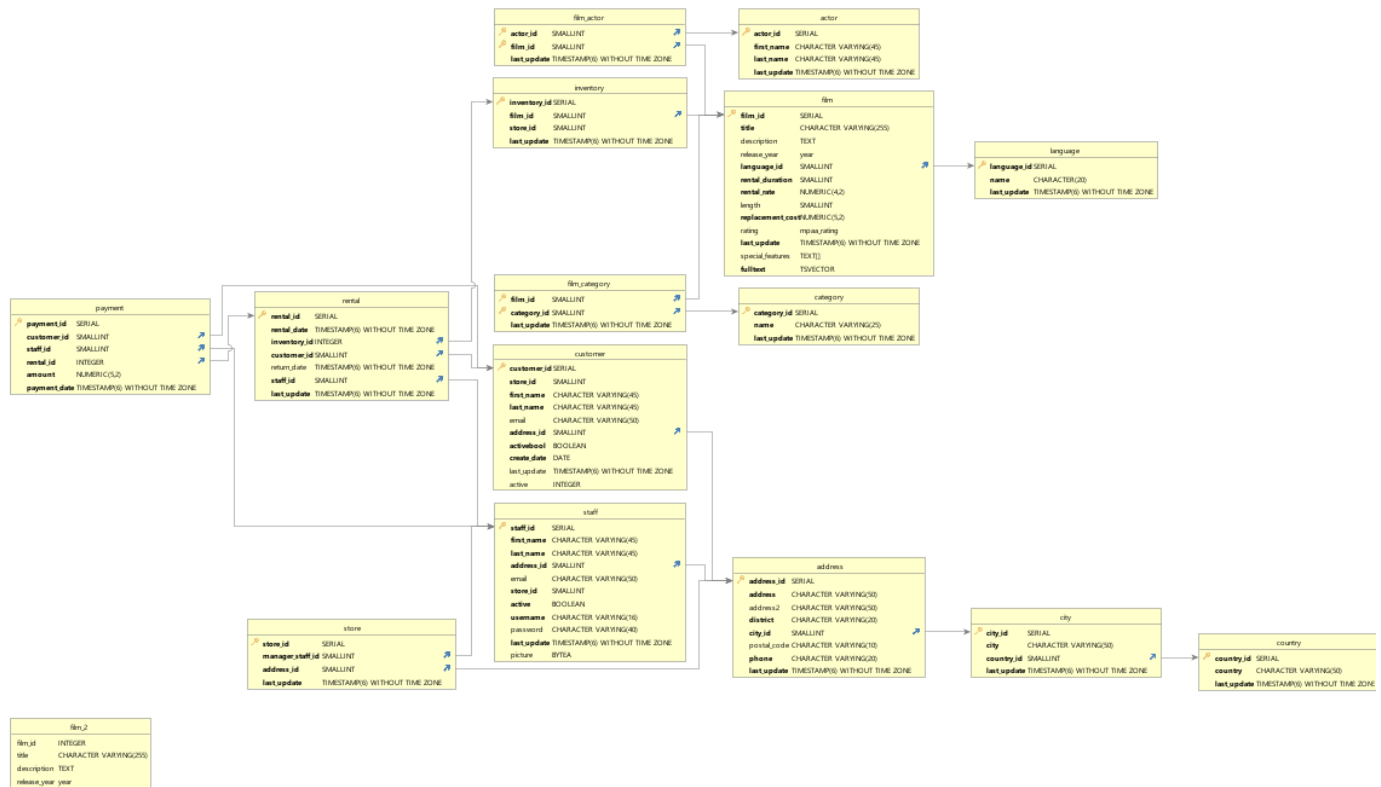
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1.) Entity Relationship Diagram

2.) Fact Tables

2.1   Rental

Column	Data Format	Description
rental_id	Serial	Unique identifier for a rental
rental_date	Timestamp (w/o timezone)	The date a rental was checked out
inventory_id	Integer	Unique identifier for a specific piece of inventory (i.e. the specific VHS or DVD)
customer_id	Small Integer(2-byte, values between -32,768 and 32,767)	Unique identifier for a customer
return_date	Timestamp (w/o timezone)	The date a rental was returned
staff_id	Small Integer (2-byte, values between -32,768 and 32,767)	Unique identifier for the staff member involved in the rental
last_update	Timestamp (w/o timezone)	The date a rental was returned

- **Links to Tables:**
    - Customer via customer_id
    - Staff via staff_id
    - Film_Category via film_id
    - Inventory via inventory_id
    - Payment via rental_id

2.2   Payment

Column	Data Format	Description
payment_id	Serial	Unique identifier for a payment transaction.
customer_id	Small Integer(2-byte, values between -32,768 and 32,767)	Unique identifier for a customer in the transaction.
staff_id	Small Integer(2-byte, values	Unique identifier for a staff

	between -32,768 and 32,767)	member involved in the transaction.
rental_id	Integer	Unique identifier for a rental transaction.
amount	Numeric (5,2)	Payment value.
payment_date	Timestamp (w/o timezone)	Date payment was rendered.

- **Links to Tables:**
  - Rental via rental_id
  - Customer via customer_id
  - Staff via staff_id

3.) Dimension Tables

3.1   Inventory

Column	Data Type	Description
inventory_id	Serial	Unique identifier of a specific piece of inventory (in this case, VHS tapes or DVDs.)
film_id	Small Integer(2-byte, values between -32,768 and 32,767)	Unique identifier for a specific film title (i.e. *Gone With the Wind, Up, etc.*)
store_id	Small Integer(2-byte, values between -32,768 and 32,767)	Unique identifier of a specific store related to the inventory in question
last_update	Timestamp (w/o timezone)	Date when inventory status was last updated.

- **Links to Tables:**
  - Film via film_id
  - Film_actor via film_id
  - Film-category via film_id
  - Rental via inventory_id

3.2   Film

Column	Data Type	Description
film_id	Serial	Unique identifier for a specific film title (i.e. *Gone With the Wind, Up, etc.*)

title	Character Variable (Max 255 characters)	Unique film title.
description	Text	Description of film.
release_year	year	Year specific film was released.
language_id	Small Integer(2-byte, values between -32,768 and 32,767)	Unique identifier of a film's language.
rental_duration	Small Integer(2-byte, values between -32,768 and 32,767)	Length of time for a particular film was rented- cumulative, I presume.
rental_rate	Numeric (4,2)	Price for renting expressed as a rate.
length	Small Integer(2-byte, values between -32,768 and 32,767)	Length of time for a specific film.
replacement_cost	Numeric (5,2)	Replacement cost for a specific film.
rating	mpaa_rating	Unique MPAA rating for a specific film.
last_update	Timestamp (w/o timezone)	Date a specific film was last updated in the database.
special_features	Text[]	A film's special features.
fulltext	TSVector (breaks up a sentence or phrase into distinct words/lexemes and provides each letter's respective order as a number next to it)	Organizes text fields in the entry into an easily-searchable format.

- **Links to Tables:**
  - Language via language_id
  - Inventory via film_id
  - Film_Actor via film_id
  - Film_Category via film_id

3.3   Language

Column	Data Type	Description
language_id	Serial	Unique identifier for a language (number)

name	Character (Max: 20 characters)	Full name for the language
last_update	Timestamp (w/o timezone)	Last update of the language entry in the database

- **Links to Tables:**
  - Film via language_id

3.4   Customer

Column	Data Type	Description
customer_id	Serial	Unique identifier for the customer (number)
store_id	Small Integer(2-byte, values between -32,768 and 32,767)	Unique identifier for the store (number)
first_name	Character Variable (Max 45 characters)	First name of the customer
last_name	Character Variable (Max 45 characters)	Last name of the customer
email	Character Variable (Max 50 characters)	Email of the customer
address_id	Small Integer(2-byte, values between -32,768 and 32,767)	Unique identifier for a customer address (number)
activebool	Boolean	True, False, or Null, is the customer active?
create_date	Date (date only)	Date the entry for the customer was created.
last_update	Timestamp (w/o timezone)	Date the entry was most recently updated.
active	Integer	Number value

- **Links to Tables:**
  - Address via address_id
  - Rental via customer_id
  - Payment via customer_id

3.5   Store

Column	Data Type	Description

store_id	Serial	Unique identifier for a store location (number)
manager_staff_id	Small Integer(2-byte, values between -32,768 and 32,767)	Unique identifier for a managerial staff member (number)
address_id	Small Integer(2-byte, values between -32,768 and 32,767)	Unique address identifier for a particular store (number)
last_update	Timestamp (w/o timezone)	Date the entry was most recently updated.

- **Links to Tables:**
  - Staff via store_id
  - Address via address_id

3.6   Staff

Column	Data Type	Description
staff_id	Serial	Unique staff member identifier (number)
first_name	Character Variable (Max 45 characters)	First name of the staff member
last_name	Character Variable (Max 45 characters)	Last name of the staff member
address_id	Small Integer(2-byte, values between -32,768 and 32,767)	Unique address identifier (number)
email	Character Variable (Max 50 characters)	Staff member email
store_id	Small Integer(2-byte, values between -32,768 and 32,767)	Unique store identifier (number)
active	Boolean	True, False, or Null- is the staff member active?
username	Character Variable (Max 16 characters)	Staff member username
password	Character Variable (Max 40 characters)	Staff member password

Column	Data Type	Description
last_update	Timestamp (w/o timezone)	Date the entry was last updated in the database
picture	Bytea (8-bit bytes, values- a series of binary strings)	Picture of the staff member as a string of binary data 2-bit bytes.

- **Links to Tables:**
    - Store via store_id
    - Payment via staff_id
    - Rental via staff_id
    - Address via address_id

3.7   Address

Column	Data Type	Description
address_id	Serial	Unique identifier for a store address (number)
address	Character Variable (Max 50 characters)	First line of store address
address2	Character Variable (Max 50 characters)	Second line of store address
district	Character Variable (Max 20 characters)	Store district
city_id	Small Integer(2-byte, values between -32,768 and 32,767)	Unique identifier for an address' city (number)
postal_code	Character Variable (Max 10 characters)	Postal code for the specific address
phone	Character Variable (Max 20 characters)	Phone number associated with the address.
last_update	Timestamp (w/o timezone)	Date the entry was last updated in the database.

- **Links to Tables:**
    - Customer via address_id
    - Staff via address_id
    - City via city_id
    - Store via address_id

3.8   City

Column	Data Type	Description
city_id	Serial	Unique identifier for the city (number)
city	Character Variable (Max 50 characters)	Full name of the city
country_id	Small Integer(2-byte, values between -32,768 and 32,767)	Unique identifier for the country of the city (number)
last_update	Timestamp (w/o timezone)	Date the entry was last updated in the database.

- **Links to Tables:**
    - Address via city_id
    - Country via country_id

3.9   Country

Column	Data Type	Description
country_id	Serial	Unique identifier for the country associated with the film (number)
country	Character Variable (Max 50 characters)	Country name
last_update	Timestamp (w/o timezone)	Date the entry was last updated in the database.

- **Links to Tables:**
    - City via country_id

3.10   Film_Actor

Column	Data Type	Description
actor_id	Small Integer(2-byte, values between -32,768 and 32,767)	Unique identifier for the actor (number)
film_id	Small Integer(2-byte, values between -32,768 and 32,767)	Unique identifier for the film (number)
last_update	Timestamp (w/o timezone)	Date the entry was last updated in the database.

- **Links to Tables:**

     ○   Actor via actor_id
     ○   Film via film_id

3.11   Actor

Column	Data Type	Description
actor_id	Serial	Unique identifier of the actor (number).
first_name	Character Variable (Max 45 characters)	Actor's first name.
last_name	Character Variable (Max 45 characters)	Actor's last name.
last_update	Timestamp (w/o timezone)	Date the entry was last updated in the database.

- **Links to Tables:**
  - Film_Actor via actor_id

3.12   Film_Category

Column	Data Type	Description
film_id	Small Integer(2-byte, values between -32,768 and 32,767)	Unique identifier for the film (number)
category_id	Small Integer(2-byte, values between -32,768 and 32,767)	Unique identifier of the category (number)
last_update	Timestamp (w/o timezone)	Date the entry was last updated in the database.

- **Links to Tables:**
  - Film via film_id
  - Category via category_id

3.13   Category

Column	Data Type	Description
category_id	Serial	Unique identifier for the category of the film (number)

name	Character Variable (Max 45 characters)	Full name of the film category/genre
last_update	Timestamp (w/o timezone)	Date the entry was last updated in the database.

- **Links to Tables:**
  - Film_Category via category_id