RockBuster Business Intelligence

DATA DICTIONARY

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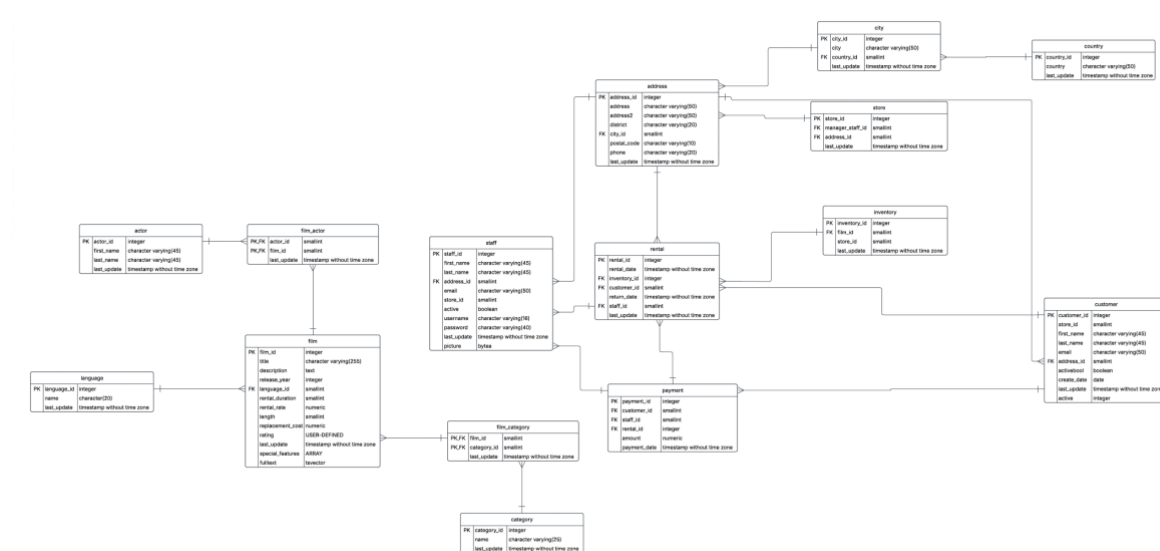
The data schema

Here's the link to the schema:
https://lucid.app/lucidchart/52e6a449-89e2-4e35-b704-b0acc912848c/view

This schema is more akin to a Snowflake Schema since it is more complex with a lot of foreign keys that create very granular data.

Tables

Columns	Data Type	Description
Actor		
actor_id	integer	Shows a unique identifier for each actor.
First_name	Character varying (45)	Actor's first name.
Last_name	Character varying (45)	Actor's last name.
Last_update	Timestamp without time zone	A timestamp
language		

Language_id	integer	A unique identifier for each language in the database.
Name	Character (20)	The language's name
Last_update	Timestamp without time zone	A timestamp

Film_actor		
Actor_id	smallint	Shows a unique identifier for each actor.
Film_id	Smallint	Shows a unique identifier for each film.
Last_update	Timestamp without time zone	A timestamp

film		
Film_id	Integer	Shows a unique identifier for each film.
Title	Character varying (255)	The movie's title
Description	Text	A short description about the movie.
Release_year	integer	The movie's release year.
Language_id	Smallint	Whats the movie's native language.
Rental_duration	Smallint	How many days the movie has been rented.
Rental_rate	Numeric	How often the movie is beeing rented.
Length	Smallint	The movie's length.
Replacement_cost	Numeric	How much it would be to replace the movie.
Rating	User-defined	The movie's rating.
Last_update	Timestamp without time zone	A timestamp.
Special features	ARRAY	Some special features.
Fulltext	Tsvector	I have no idea what this is.

Staff		
Staff_id	Integer	A unique identifier for staff.
First_name	Character varying (45)	The staff's first name.
Last_name	Character varying (45)	The staff's last name.
Address_id	Smallint	A unique identifier for staff's address.
Email	Character varying (50)	The staff's email address
Store_id	Smallint	Where the staff's working.
Active	Boolean	Active or not.
Username	Character varying (16)	The staff's username
Password	Character varying (40)	A hash of the staff's password
Last_update	Timestamp without time zone	Timestamp

Picture	Bytea	Binary data of a picture.

Fim_category		
Film_id	Smallint	Shows a unique identifier for each film.
Category_id	Smallint	Shows a unique identifier for each category.
Last_update	Timestamp without time zone	Timestamp for the last update.

Category		
Category_id	Smallint	Shows a unique identifier for each category.
Name	Character varying(25)	The category's name
Last_update	Timestamp without time zone	The timestamp of the last update.

Address		
Address_id	Integer	A unique identifer for each address.
Address	Character varying(50)	Each customer's address.
Address2	Character varying(50)	A second address.
District	Character varying(20)	The customer's region.
City_id	Smallint	The city the customer's from.
Postal_code	Character varying(10)	The postal code.
Phone	Character varying(20)	The customer's phone number.
Last_update	Timestamp without time zone	The timestamp of the last update.

Rental		
Rental_id	Integer	The rental's unique identifier.
Rental_date	Timestamp without time zone	The rental's timestamp.
Inventory_id	Integer	The rental's unkque identifier.
Customer_id	Smallint	The customer's unique identifier.
Return_date	Timestamp without time zone	When the customer returned the rental.
Staff_id	Smallint	The staff's unique identifier.
Last_update	Timestamp without time zone.	The timestamp of the last update.

Payment		
Payment_id	Integer	The payment's unique identifier.
Customer_id	Smallint	The customer's unique identifier.
Staff_id	Smallint	A unique identifier for staff.

Rental_id	Integer	The rental's unique identifier.
Amount	Numeric	How much the rental was.
Payment_date	Timestamp without time zone.	When the payment was made.

City

City_id	Integer	The city's unique identifier.
City	Character varying(50)	The city's name.
Country_id	Smallint	The country of origin's unique identifier.
Last_update	Timestamp without time zone.	Timestamp for the last update.

Store

Store_id	Integer	The store's unique identifier.
Manager_staff_id	Smallint	The manager's unique identifier.
Address_id	Smallint	The address's unique identifier.
Last_update	Timestamp without time zone.	The timestamp of the last update.

Inventory

Inventory_id	Integer	A unique identifier for the inventory.
Film_id	Smallint	Shows a unique identifier for each film.
Store_id	Smallint	Where the staff's working.
Last_update	Timestamp without time zone.	The timestamp of the last update.

Country

Country_id	Integer	The country of the renter.
Country	Character varying(50)	The name of the country of the renter.
Last_update	Timestamp without time zone	The timestamp of the last update.

Customer

Customer_id	Integer	The customer's unique identifier.
Store_id	Smallint	The store's unique identifier.
First_name	Character varying(45)	The first name of the customer.
Last_name	Character varying(45)	The last name of the customer.
Email	Character varying(45)	The customer's email.
Address_id	Smallint	The customer's address coded as a unique identifier.
Activebool	Boolean	Active rental or not.

Create_date	Date	When the entry was created.
Last_update	Timestamp without time zone	The last update's timestamp.
Active	Integer	Active or not.

Fact Table

Film_actor	Links actors to films.
Film_category	Links films to categories.
Rental	Tracks rental transactions.
Payment	Stores transaction details for payments.
Inventory	Stores information about available films in stores.

Dimension Tables

Actor	Stores information about actors.
Film	Stores detailed information about movies.
Category	Stores movie categories.
Language	Contains details about movie languages.
Staff	Stores employee details.
Customer	Stores customer information.
Store	Stores details about store locations.
Address	Stores address details
City	Stores details about the customer's city.
Country	Stores country details.