Rockbuster Data Dictionary

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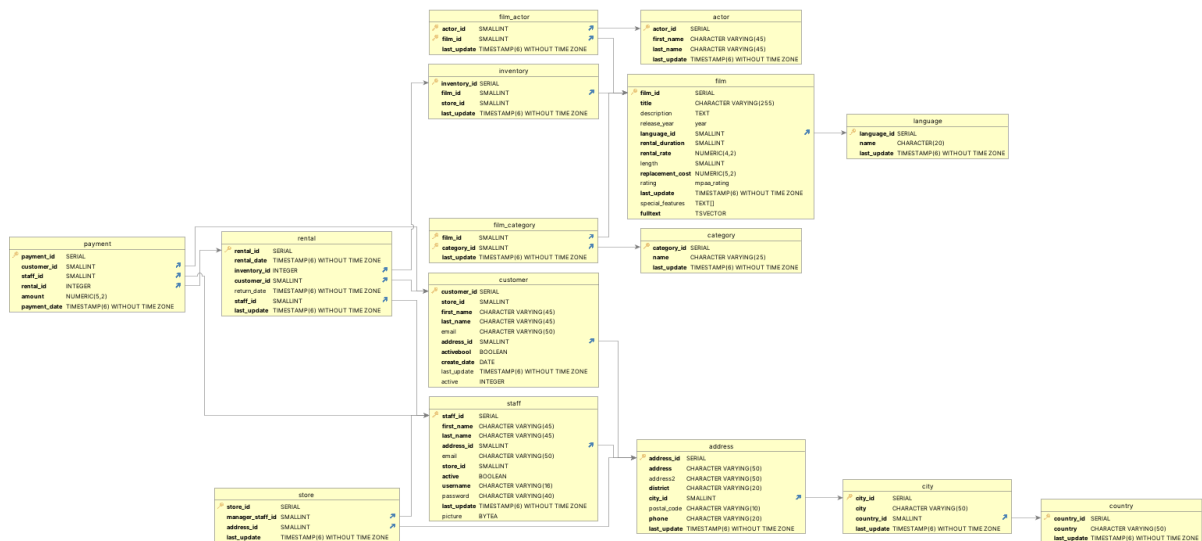
LEGEND

Primary Key:

Foreign Key:
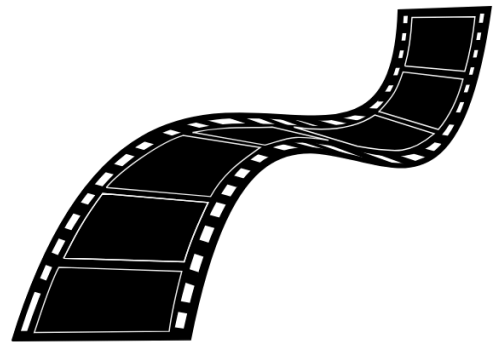
ENTITY RELATIONSHIP DIAGRAM

TABLES

Payment, Fact Table

	Column	Data Type	Description
🔑	payment_id	SERIAL	A unique identifier for each payment transaction recorded in the system.
🔑	customer_id	SMALLINT	The unique identifier associated with a customer who rents movies from the company.
🔑	staff_id	SMALLINT	The unique identifier for the staff member who processed the rental or payment transaction.
🔑	rental_id	INTEGER	A unique identifier for each individual movie rental transaction.
	amount	NUMERIC(5,2)	The monetary amount charged for the movie rental.
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	The date and time when the payment was made.

Links to	Join
Rental	payment.rental_id=rental.rental_id
Customer	payment.customer_id=customer.customer_id
Staff	payment.staff_id=staff.staff_id

Rental, Fact Table

	Column	Data Type	Description
🔑	rental_id	SERIAL	A unique identifier for each rental transaction within the company.
	rental_date	TIMESTAMP(6) WITHOUT TIMEZONES	The date and time when the movie was rented out to the customer.
🔑	inventory_id	INTEGER	The unique identifier for a specific copy of a movie.
🔑	customer_id	SMALLINT	The unique identifier associated with a customer who rents movies from the company.
	return_date	TIMESTAMP(6) WITHOUT TIMEZONES	The date and time when the rented movie was returned by the customer.
🔑	staff_id	SMALLINT	The unique identifier for the staff member who facilitated the rental or return transaction.
	last_update	TIMESTAMP(6) WITHOUT TIMEZONES	The date and time when the record was last updated.

Links to	Join
Inventory	rental.inventory_id=inventory.inventory_id
Customer	rental.customer_id=customer.customer_id
Staff	rental.staff_id=staff.staff_id

Links from	Join
Payment	payment.rental_id=rental.rental_id

Inventory, Dimension Table

	Column	Data Type	Description
🔑	inventory_id	SERIAL	A unique identifier for each specific item of movie inventory held by the company.
🔑	film_id	SMALLINT	The unique identifier that links each inventory item to its corresponding film title in the film catalog.
	story_id	SMALLINT	A unique identifier used to link films to their respective narratives or storylines.
	last_update	TIMESTAMP(6) WITHOUT TIMEZONES	Records the date and time when any record related to the inventory was last modified, ensuring that data remains current and accurate.

Links to	Join
Film	inventory.film_id = film.film_id
Store	inventory.store_id=store.store_id

Links from	Join
Rental	rental.inventory_id=inventory.inventory_id

Film_actor, Dimension Table

	Column	Data Type	Description
🔑	actor_id	SMALLINT	A unique identifier is assigned to each actor in the database.
🔑	film_id	SMALLINT	The unique identifier of a movie.
	last_update	TIMESTAMP(6) WITHOUT TIMEZONES	The most recent date and time that the record was updated.

Links to	Join
Actor	film_actor. actor_id=actor.actor_id
Film	film_actor.film_id=film.film_id

Film_category, Dimension Table

	Column	Data Type	Description
🔑	film_id	SMALLINT	The unique identifier of a movie.
🔑	category_id	SMALLINT	The unique identifier of a category
	last_update	TIMESTAMP(6) WITHOUT TIMEZONES	The most recent update of a film category

Links to	Join
Film	film_category.film_id= film.film_id
Category	film_category.category_id=category.category_id

Customer, Dimension Table

	Column	Data Type	Description
🔑	customer_id	SERIAL	The unique identifier associated with a customer who rents movies from the company.
	store_id	SMALLINT	The identifier that links a customer to a specific store location within the company's network.
	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(50)	The customer's email address
🔑	address_id	SMALLINT	The customer's physical address
	activebool	BOOLEAN	Indicates whether the customer is active or not
	create_date	DATE	The date when the customer's record was first created in the database.
	last_update	TIMESTAMP(6) WITHOUT TIMEZONES	The most recent date and time when the customer's record was updated.
	active	INTEGER	Indicates whether the customer is active or not

Links to	Join
Address	customer.address_id=address.address_id

Links from	Join
Payment	payment.customer_id=customer.customer_id
Rental	rental.customer_id=customer.customer_id

Staff, Dimension Table

	Column	Data Type	Description
🔑	staff_id	SERIAL	The unique identifier for the staff member who processed the rental or payment transaction.
	first_name	SMALLINT	First name of the staff
	last_name	CHARACTER VARYING(45)	Last name of the staff
🔑	address_id	SMALLINT	Address of the staff
	email	CHARACTER VARYING(50)	Email address of the staff
	store_id	SMALLINT	The store that the staff works
	active	BOOLEAN	Whether the staff is active or not
	username	CHARACTER VARYING(16)	Username of the staff
	password	CHARACTER VARYING(40)	Password of the staff
	last_update	TIMESTAMP(6) WITHOUT TIMEZONES	The most recent date and time when the staff's record was updated
	picture	BYTEA	Picture of the staff

Links to	Join
Address	staff.address_id=address.address_id

Links from	Join
Payment	payment.staff_id=staff.staff_id
Rental	rental.staff_id=staff.staff_id
Store	store.address_id=staff.address_id

Film, Dimension Table

	Column	Data Type	Description
🔑	film_id	SERIAL	A unique identifier for each film in the database.
	title	CHARACTER VARYING(255)	The name of the film.
	description	TEXT	A summary or overview of the film's plot.
	release_year	year	The year the film was originally released.
🔑	language_id	SMALLINT	An identifier that links the film to the language it is in.
	rental_duration	SMALLINT	The number of days that the film can be rented.
	rental_rate	NUMERIC(4,2)	The cost to rent the film for the standard duration.
	length	SMALLINT	The running time of the film.
	replacement_cost	NUMERIC(5,2)	The cost to replace the film's physical or digital copy.
	rating	mpas_rating	Rating of the film.
	last_update	TIMESTAMP(6) WITHOUT TIMEZONES	The date and time the film record was last modified.
	special_features	TEXT	A list of notable features in the film.
	fulltext	1SVECTOR	A searchable text field that includes elements like the title and description, optimized for full-text searches.

Links to	Join
Language	film.language_id=language.language_id

Links from	Join
Film_actor	film_actor.film_id=film.film_id
Inventory	inventory.film_id=film.film_id
Film_category	film_category.film_id=film.film_id

Actor, Dimension Table

	Column	Data Type	Description
🔑	actor_id	SERIAL	A unique identifier for each actor listed in the database.
	first_name	CHARACTER VARYING(45)	The first name of the actor.
	last_name	CHARACTER VARYING(45)	The last name of the actor.
	last_update	TIMESTAMP(6) WITHOUT TIMEZONES	The date and time the actor's record was last modified.

Links from	Join
Film_actor	film_actor. actor_id=actor.actor_id

Category, Dimension Table

	Column	Data Type	Description
🔑	category_id	SERIAL	A unique identifier for each genre or category of films.
	name	CHARACTER VARYING(25)	The name of the category
	last_update	TIMESTAMP(6) WITHOUT TIMEZONES	The date and time the category record was last updated.

Links from	Join
Film_category	film_category.category_id=category.category_id

Address, Dimension Table

	Column	Data Type	Description
🔑	address_id	SERIAL	A unique identifier for each address stored in the database.
	address	CHARACTER VARYING(50)	The primary street address of the location.
	address2	CHARACTER VARYING(50)	An additional field for extended address information
	district	CHARACTER VARYING(20)	The district or area of the city in which the address is located.
🔑	city_id	SMALLINT	A unique identifier that links the address to a specific city in the city table.
	postal_code	CHARACTER VARYING(10)	The postal or ZIP code for the address.
	phone	CHARACTER VARYING(20)	Telephone number.
	last_update	TIMESTAMP(6) WITHOUT TIMEZONES	The date and time the address record was last updated.

Links to	Join
City	address.city_id=city.city_id

Links from	Join
Payment	payment.staff_id=staff.staff_id
Rental	rental.staff_id=staff.staff_id

Store	store.address_id=staff.address_id

Language, Dimension Table

	Column	Data Type	Description
🔑	language_id	SERIAL	A unique identifier for each language available in the database.
	name	CHARACTER(20)	The name of the language.
	last_update	TIMESTAMP(6) WITHOUT TIMEZONES	The date and time the language record was last updated.

Links from	Join
film	film.language_id=language.language_id

City, Dimension Table

	Column	Data Type	Description
🔑	city_id	SERIAL	A unique identifier for each city listed in the database.
	city	CHARACTER VARYING(50)	The name of the city.
🔑	country_id	SMALLINT	A unique identifier that links the city to a specific country in the country table.
	last_update	TIMESTAMP(6) WITHOUT TIMEZONES	The date and time the city record was last updated.

Links to	Join
Country	city.country_id=country.country_id

Links from	Join

	Address	address.city_id=city.city_id

Country, Dimension Table

	Column	Data Type	Description
🔑	country_id	SERIAL	A unique identifier for each country listed in the database.
	country	CHARACTER VARYING(50)	The name of the country.
	last_update	TIMESTAMP(6) WITHOUT TIMEZONES	The date and time the country record was last updated.

Links from	Join
City	city.country_id=country.country_id