2024

ROCKBUSTER STEALTH LLC

DATA DICTIONARY
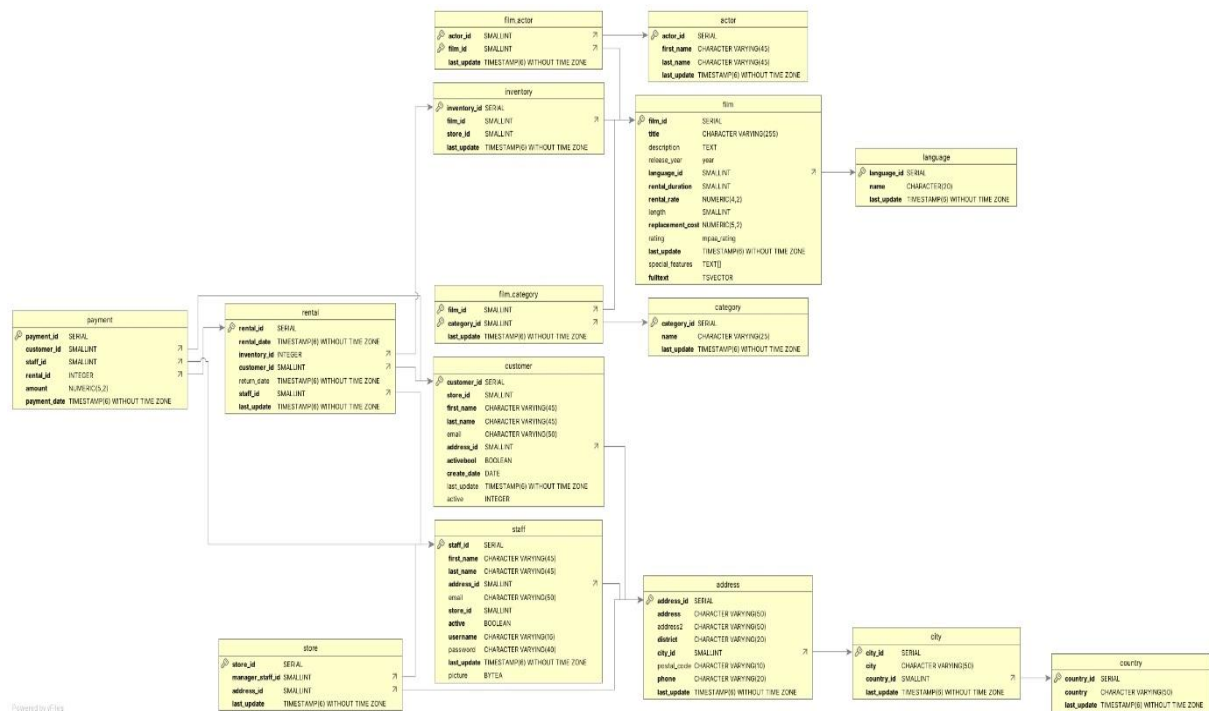
VERSION: 1.0
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1. ENTITY RELATIONSHIP DIAGRAM (ERD):

The Rockbuster database has a snowflake schema.

In a snowflake schema, dimension tables are normalized, which means they are broken down into related tables to remove redundancy.

For example, in the Rockbuster database, the address, city, and country tables are linked, each containing specific details rather than a single flat table. This structure allows for more efficient storage but can be more complex to query.

2. LEGENDS:

	Primary Key
	Foreign Key

3. TABLES:

3.1 FACT TABLES: These tables generally store quantitative data and often contain foreign keys pointing to dimension tables.

	PAYMENT		
Key Type	**Column**	**Data Type**	**Description**
🔑	payment_id	SERIAL	Unique identifier for each payment
🔑	customer_id	SMALLINT	Foreign key referencing the customer who made the payment
🔑	staff_id	SMALLINT	Foreign key referencing the staff who handled the payment
🔑	rental_id	INTEGER	Foreign key referencing the rental for which payment was made
	Amount	NUMERIC	The payment amount
	payment_date	TIMESTAMP	The date and time when the payment was made

	RENTAL		
Key Type	**Column**	**Data Type**	**Description**
🔑	rental_id	SERIAL	Unique identifier for each rental
	rental_date	TIMESTAMP	The date and time when the rental was made
🔑	inventory_id	INTEGER	Foreign key referencing the inventory
🔑	customer_id	SMALLINT	Foreign key referencing the customer
	return_date	TIMESTAMP	The date and time when the rental was returned
🔑	staff_id	SMALLINT	Foreign key referencing the staff handling the rental
	last_update	TIMESTAMP	The last time this record was updated

3.2 DIMENSION TABLES: These tables generally store descriptive attributes related to the fact tables.

ACTOR			
Key Type	**Column**	**Data Type**	**Description**
🔑	actor_id	SERIAL	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(6) WITHOUT TIME ZONE	The last time this record was updated

FILM			
Key Type	**Column**	**Data Type**	**Description**
🔑	film_id	SERIAL	Unique identifier for each film
	title	CHARACTER VARYING(255)	The title of the film
	description	TEXT	A brief description of the film
	release_year	year	The year the film was released
🔑	language_id	SMALLINT	Foreign key referencing the language of the film
	rental_duration	SMALLINT	The duration for which the film can be rented
	rental_rate	NUMERIC(4,2)	The rate at which the film can be rented
	length	SMALLINT	The length of the film
	replacement_cost	NUMERIC(5,2)	The cost to replace the film
	rating	mpaa_rating	The rating of the film
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last time this record was updated
	special_features	TEXT[]	Special features of the film
	fulltext	TSVECTOR	Text of the film

CUSTOMER			
Key Type	**Column**	**Data Type**	**Description**
🔑 (orange)	customer_id	SERIAL	Unique identifier for each customer
🔑 (blue)	store_id	SMALLINT	Foreign key referencing the store associated with the customer
	first_name	CHARACTER VARYING(45)	Customer's first name
	last_name	CHARACTER VARYING(45)	Customer's last name
	email	CHARACTER VARYING(50)	Customer's email address
🔑 (blue)	address_id	SMALLINT	Foreign key referencing the address
	activebool	BOOLEAN	Indicates if the customer is active
	create_date	DATE	The date the customer was created in the system
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last time this record was updated
	rating	mpaa_rating	The rating of the film
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last time this record was updated
	active	INTEGER	Another indicator of whether the customer is active

STORE			
Key Type	**Column**	**Data Type**	**Description**
🔑 (orange)	store_id	SERIAL	Unique identifier for each store
🔑 (blue)	manager_staff_id	SMALLINT	Foreign key referencing the staff managing the store
🔑 (blue)	address_id	SMALLINT	Foreign key referencing the address of the store
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last time this record was updated

INVENTORY

Key Type	Column	Data Type	Description
🔑 (orange)	inventory_id	SERIAL	Unique identifier for each inventory item
🔑 (blue)	film_id	SMALLINT	Foreign key referencing the film in inventory
🔑 (blue)	store_id	SMALLINT	Foreign key referencing the store where the inventory is held
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last time this record was updated

FILM_ACTOR

Key Type	Column	Data Type	Description
🔑 (orange) 🔑 (blue)	actor_id	SMALLINT	Unique identifier for each actor
🔑 (orange) 🔑 (blue)	film_id	SMALLINT	Unique identifier for each film
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last time this record was updated

FILM_CATEGORY

Key Type	Column	Data Type	Description
🔑 (orange) 🔑 (blue)	film_id	SMALLINT	Unique identifier for each film
🔑 (orange) 🔑 (blue)	category_id	SMALLINT	Unique identifier for each category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last time this record was updated

CATEGORY			
Key Type	**Column**	**Data Type**	**Description**
🔑	category_id	SERIAL	Unique identifier for each category
	Name	CHARACTER VARYING(25)	The name of the category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last time this record was updated

LANGUAGE			
Key Type	**Column**	**Data Type**	**Description**
🔑	language_id	SERIAL	Unique identifier for each language
	Name	CHARACTER (20)	The name of the category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last time this record was updated

ADDRESS			
Key Type	**Column**	**Data Type**	**Description**
🔑	address_id	SERIAL	Unique identifier for each address
	Address	CHARACTER VARYING(50)	The street address
	address2	CHARACTER VARYING(50)	Additional address information
	District	CHARACTER VARYING(20)	The district of the address
🔑	city_id	SMALLINT	Foreign key referencing the city
	postal_code	CHARACTER VARYING(10)	The postal code
	Phone	CHARACTER VARYING(20)	The phone number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last time this record was updated

CITY			
Key Type	**Column**	**Data Type**	**Description**
🔑	city_id	SERIAL	Unique identifier for each city
	City	CHARACTER VARYING(50)	The name of the city
🔑	country_id	SMALLINT	Foreign key referencing the country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last time this record was updated

COUNTRY			
Key Type	**Column**	**Data Type**	**Description**
	country_id	SERIAL	Unique identifier for each country
	country	CHARACTER VARYING(50)	The name of the country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last time this record was updated

STAFF			
	Column	**Data Type**	**Description**
	staff_id	SERIAL	Unique identifier for each staff member
	first_name	CHARACTER VARYING(45)	Staff member's first name
	last_name	CHARACTER VARYING(45)	Staff member's last name
	address_id	SMALLINT	Foreign key referencing the address
	Email	CHARACTER VARYING(50)	Staff member's email address
	store_id	SMALLINT	Foreign key referencing the store where the staff works
	Active	BOOLEAN	Indicates if the staff member is active
	user_name	CHARACTER VARYING(16)	Username of the staff member
	Password	CHARACTER VARYING(40)	Password of the staff member
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last time this record was updated
	Picture	BYTEA	A picture of the staff member