Rockbuster Stealth LLC

Data Dictionary

February 27, 2025

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1. Fact Tables

1.1 Rental Table

Column	Data Type	Description	
rental_id	integer (Primary Key, PK)	Unique identifier for each rental transaction.	
rental_date	timestamp without time zone	Date and time when the rental occurred.	
inventory_id	integer (Foreign Key. FK)	Links to the inventory table to identify the rented film.	
customer_id	smallint (FK)	Links to the customer who rented the film.	
return_date	timestamp without time zone	Date and time when the film was returned	
staff_id	smallint (FK)	Links to the staff member who processed the rental.	
last_update	timestamp without time zone	Timestamp for the last update of the record	

1. Fact Tables

1.2 Payment Table

Column	Data Type	Description	
payment_id	integer (PK)	Unique identifier for each payment.	
customer_id	smallint (FK)	Links to the customer who made the payment.	
staff_id	smallint (FK)	Links to the staff member who processed the payment.	
rental_id	integer (FK)	Links to the rental transaction for which payment was made.	
amount	numeric	Amount paid by the customer.	
payment_date	timestamp without time zone	Date and time of the payment transaction.	

2.1 Inventory Table

Column	Data Type	Description	
inventory_id	integer (PK)	Unique identifier for each inventory record.	
film_id	smallint (FK)	Links to the film being stored.	
store_id	smallint (FK)	Links to the store where the film is available.	
last_update	timestamp without time zone	Timestamp for the last update of the record.	

2.2 Customer Table

Column	Data Type	Description	
customer_id	integer (PK)	Unique identifier for each customer.	
store_id	smallint (FK)	Links to the store where the customer is registered.	
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.	
address_id	smallint (FK)	Links to the address table for the customer's address.	
activebool	boolean	Indicates whether the customer is active	
create_date	date	The date when the customer was added.	
last_update	timestamp without time zone	e Timestamp for the last update of the record.	
active	integer	Numeric version of the active status.	

2.3 Film Table

Column	Data Type	Description	
film_id	integer (PK)	Unique identifier for each film.	
title	character varying (255)	Title of the film.	
description	text	Brief summary of the film.	
release_year	integer	Year the film was released.	
language_id	smallint (FK)	Links to the language table.	
rental_duration	smallint	Number of days the film can be rented.	
rental_rate	numeric	Cost to rent the film.	
length	smallint	Duration of the film in minutes	
replacement_cost	numeric	Cost to replace the film if lost.	
rating	USER-DEFINED	Film rating (e.g., PG, R).	
special_features	ARRAY	Additional features (e.g., Behind the Scenes).	
fulltext	tsvector	Full-text search vector for the film.	
last_update	timestamp without time zone	Timestamp for the last update of the record.	

2.4 Staff Table

Column	Data Type	Description	
staff_id	integer (PK)	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 (FK)	Links to the staff member's address.	
email	character varying(50)	Staff member's email address.	
store_id	smallint (FK)	Links to the store where the staff works.	
active	boolean	Indicates if the staff member is active.	
username	character varying(16)	Staff member's login username.	
password	character varying(40)	Encrypted password for authentication	
last_update	timestamp without time zone	Timestamp for the last update of the record.	
picture	bytea	Stores the staff member's profile picture	

2.5 Store Table

Column	Data Type	Description	
store_id	integer (PK)	Unique identifier for each store	
manager_staff_id	smallint (FK)	Links to the staff member managing the store.	
address_id	smallint (FK)	Links to the address table.	
last_update	timestamp without time zone	Timestamp for the last update of the record.	

2.6 Address Table

Column	Data Type	Description	
address_id	integer (PK)	Unique identifier for each address.	
address	character varying(50)	Street address.	
address2	character varying(50)	Additional address info.	
district	character varying(20)	District or region.	
city_id	smallint (FK)	Links to the city table.	
postal_code	character varying(10)	Postal code.	
phone	character varying(20)	Contact number.	
last_update	timestamp without time zone	Timestamp for the last update of the record.	

2.7 Language Table

Column	Data Type	Description	
language_id	integer (PK)	Unique identifier for each language	
name	Character (20)	Describe films actual language.	
last_update	timestamp without time zone	Timestamp for the last update of the record.	

2.8 Film_Actor Table

Unique Key	Column	Data Type	Description
Foreign Key	Actor_id	integer (PK)	Unique identifier for each language
Foreign Key	Film_id	Character (20)	Describe films actual language.
	last_update	timestamp(6) without time zone	Date and time the data was updated

2.9 Actor Table

Unique Key	Column	Data Type	Description
Primary Key	Actor_id	integer (PK)	Unique identifier for each language
	First_name	character varying(45)	First name of the actor
	Last_name	character varying(45)	Last name of the actor
	last_update	timestamp(6) without time zone	Date and time the data was updated

2.10 Film_Category Table

Unique Key	Column	Data Type	Description
Primary Key	film_id	SMALLINT	A unique identifier assigned to a film
Foreign Key	category_id	SMALLINT	A unique identifier assigned to a film category
	last_update	timestamp(6) without time zone	Date and time the data was updated

2.11 Category Table

Unique Key	Column	Data Type	Description
Primary Key	category_id	SERIAL	A unique identifier assigned to a film category
	name	character varying(25)	Name of film category/genre
	last_update	timestamp(6) without time zone	Date and time the data was updated

2.12 City Table

Unique Key	Column	Data Type	Description
Primary Key	city_id	SERIAL	A unique identifier associated with the city where the staff or customer resides
	city	character varying(50)	Name of city of the staff or customer resides
	last_update	timestamp(6) without time zone	Date and time the data was updated
Foreign Key	country_id	SMALLINT	A unique identifier associated with the country where the staff or customer resides

2.13 Country Table

Unique Key	Column	Data Type	Description
Primary Key	country_id	SERIAL	A unique identifier associated with the country where the staff or customer resides
	country	character varying(50)	Name of the country where the staff or customer resides
	last_update	timestamp(6) without time zone	Date and time the data was updated

3. Entity Relationship Diagram (ERD)

