



ROCKBUSTER STEALTH

Data Dictionary



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Table of Contents

1 FACT TABLES	2
1.1 RENTAL TABLE	2
1.2 PAYMENT TABLE	2
2 DIMENSION TABLES	3
2.1 CUSTOMER TABLE	3
2.2 FILM TABLE	3
2.3 STORE TABLE	4
2.4 STAFF TABLE	4
2.5 ADDRESS TABLE	4
2.6 FILM_ACTOR TABLE	5
2.7 LANGUAGE TABLE	5
2.8 CITY TABLE	5
2.9 COUNTRY TABLE	5
2.10 INVENTORY TABLE	6
2.11 FILM TABLE	6
2.12 ACTOR TABLE	6
2.13 CATEGORY TABLE	6
3 PRIMARY AND FOREIGN KEY REFERENCES	7
4 ENTITY RELATIONSHIP DIAGRAM	7

1 FACT TABLES

1.1 RENTAL TABLE		
rental_id	SERIAL	Unique identifier for each rental transaction.
rental_date	TIMESTAMP	The date and time when the rental was made.
inventory_id	INTEGER	Foreign key referencing the specific inventory item rented.
customer_id	SMALLINT	Foreign key referencing the customer who rented the item.
return_date	TIMESTAMP	The date and time when the rental was returned.
staff_id	SMALLINT	Foreign key referencing the staff member handling the rental.
last_update	TIMESTAMP	Timestamp of the last update made to this rental record.

1.2 PAYMENT TABLE		
payment_id	SERIAL	Unique identifier for each payment transaction.
customer_id	SMALLINT	Foreign key referencing the customer who made the payment.
staff_id	SMALLINT	Foreign key referencing the staff member handling the payment.
rental_id	INTEGER	Foreign key referencing the rental associated with the payment.
amount	NUMERIC(5,2)	The monetary amount of the payment.
payment_date	TIMESTAMP(6)	The date and time of the payment with up to 6 digit.

2 DIMENSION TABLES

2.1 CUSTOMER TABLE		
customer_id	SERIAL	Unique identifier for each customer.
store_id	SMALLINT	Foreign key referencing the store where the customer is registered.
first_name	CHARACTER VARYING(45)	Customer first name.
last_name	CHARACTER VARYING(45)	Customer last name.
email	CHARACTER VARYING(50)	Customer email address.
address_id	SMALLINT	Foreign key referencing the address of the customer.
activebool	BOOLEAN	Indicates whether the customer is active.
create_date	DATE	Date when the customer was added to the database.
last_update	TIMESTAMP	Timestamp of the last update made to the customer record.
active	INTEGER	State of the customer

2.2 FILM TABLE		
film_id	SERIAL	Unique identifier for each film.
title	CHARACTER VARYING(255)	Title of the film.
description	TEXT	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	Rental duration in days.
rental_rate	NUMERIC(4,2)	Rental cost of the film.
length	SMALLINT	Length of the film in minutes.
replacement_cost	NUMERIC(5,2)	Pricing of a film inc ase of replacement.
rating	mpaa_rating	Rating of the film
last_update	TIMESTAMP	Timestamp of the last update made to the film record.
special_features	TEXT[]	Array of Film genres.
fulltext	TSVECTOR	Film keywords.

2.3 STORE TABLE

store_id	SERIAL	Unique identifier for each store.
manager_staff_id	SMALLINT	Foreign key referencing the staff member managing the store.
address_id	SMALLINT	Foreign key referencing the address of the store.
last_update	TIMESTAMP	Timestamp of the last update made to the store record.

2.4 STAFF TABLE

staff_id	SERIAL	Unique identifier for each staff member.
first_name	CHARACTER VARYING(45)	Staff member first name.
last_name	CHARACTER VARYING(45)	Staff member last name.
address_id	SMALLINT	Foreign key referencing the address of the staff member.
email	CHARACTER VARYING(50)	Staff member email address.
store_id	SMALLINT	Foreign key referencing the store where the staff member works.
active	BOOLEAN	State of the staff member
username	CHARACTER VARYING(16)	Staff member username for system access.
password	CHARACTER VARYING(40)	Staff member password
last_update	TIMESTAMP	Timestamp of the last update made to the staff record.
picture	BYTEA	picture image data

2.5 ADDRESS TABLE

address_id	SERIAL	Unique identifier for each address.
address	CHARACTER VARYING(50)	Primary address.
address2	CHARACTER VARYING(50)	Secondary address (optional).
district	CHARACTER VARYING(20)	District or region of the address.
city_id	SMALLINT	Foreign key referencing the city.

postal_code	CHARACTER VARYING(10)	Postal code for the address.
phone	CHARACTER VARYING(20)	Contact phone number.
last_update	TIMESTAMP(6)	Timestamp of the last update made to the address record.

2.6 FILM_ACTOR TABLE

actor_id	SMALLINT	Unique identifier for each actor.
film_id	SMALLINT	Unique identifier for each film.
last_update	TIMESTAMP(6)	Timestamp of the last update made to the film_actor record.

2.7 LANGUAGE TABLE

language_id	SERIAL	Unique identifier for each language.
name	CHARACTER(20)	Name of the language.
last_update	TIMESTAMP	Timestamp of the last update made to the language record.

2.8 CITY TABLE

city_id	SERIAL	Unique identifier for each city.
city	CHARACTER VARYING(50)	Name of the city.
country_id	SMALLINT	Foreign key referencing the country of the city.
last_update	TIMESTAMP	Timestamp of the last update made to the city record.

2.9 COUNTRY TABLE

country_id	SERIAL	Unique identifier for each country.
country	CHARACTER VARYING(50)	Name of the country.
last_update	TIMESTAMP	Timestamp of the last update made to the country record.

2.10 INVENTORY TABLE

inventory_id	SERIAL	Unique identifier for each item.
film_id	SMALLINT	Unique identifier for each film.
store_id	SMALLINT	Unique identifier for each store.
last_update	TIMESTAMP(6)	Timestamp of the last update made to the Inventory record.

2.11 FILM TABLE

film_id	SMALLINT	Unique identifier for each film.
category_id	SMALLINT	Unique identifier for each category.
last_update	TIMESTAMP(6)	Timestamp of the last update made to the film_category record.

2.12 ACTOR TABLE

actor_id	SERIAL	Unique identifier for each actor.
first_name	CHARACTER VARYING(45)	Actor first name
last_name	CHARACTER VARYING(45)	Actor last name
last_update	TIMESTAMP(6)	Timestamp of the last update made to the actor record.

2.13 CATEGORY TABLE

category_id	SERIAL	Film are categorized and every category has a specific number
name	CHARACTER VARYING(25)	Film genre
last_update	TIMESTAMP(6)	Timestamp of the last update made to the actor record.

3 PRIMARY AND FOREIGN KEY REFERENCES

Primary Keys: These are unique identifiers for each table, ensuring that every row within the table can be uniquely distinguished from others. For example, the `film_id` column in the `film` table serves as a primary key, guaranteeing that each film has a distinct identifier. Primary keys are critical for maintaining data integrity and enabling efficient referencing by other tables through foreign keys.

Foreign Keys: Columns that create relationships between different tables by referencing a primary key in another table. For example, the `language_id` column in the `film` table serves as a foreign key that links to the `language` table, ensuring that each film is associated with a valid language entry.

4 ENTITY RELATIONSHIP DIAGRAM

