

Title: Rockbuster Stealth Data Dictionary

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1. Introduction

The purpose of this data dictionary is to provide a structured reference for the **Rockbuster Stealth** database. It documents the **fact and dimension tables**, detailing **columns, data types, relationships, and constraints**. This dictionary ensures clear communication among **business analysts, data engineers, and developers** when working with Rockbuster data.



2. Fact Tables

2.1 Payment Table

Column Name	Data Type	Description
payment_id	INTEGER	Unique identifier for each payment.
customer_id	INTEGER	Foreign key referencing the customer table.
rental_id	INTEGER	Foreign key referencing the rental table.

amount	DECIMAL	Payment amount made by the customer.
payment_date	TIMESTAMP	Date and time when the payment was made.

Links To:

- customer_id → customer.customer_id
- rental_id → rental.rental_id

Links From:

- Referenced in reporting dashboards for revenue tracking.

Unique Key:

- payment_id
-

2.2 Rental Table

Column Name	Data Type	Description
rental_id	INTEGER	Unique identifier for each rental transaction.
customer_id	INTEGER	Foreign key linking to the customer table.
inventory_id	INTEGER	Foreign key linking to the inventory table.
return_date	TIMESTAMP	Date when the movie was returned.

Links To:

- customer_id → customer.customer_id
- inventory_id → inventory.inventory_id

Links From:

- Referenced in the payment table.

Unique Key:

- rental_id

3. Dimension Tables

3.1 Customer Table

Column Name	Data Type	Description
customer_id	INTEGER	Unique identifier for each customer.
first_name	VARCHAR	First name of the customer.
last_name	VARCHAR	Last name of the customer.
email	VARCHAR	Customer's email address.
address_id	INTEGER	Foreign key linking to the address table.

Links To:

- address_id → address.address_id
- Referenced by rental and payment tables.

Unique Key:

- customer_id

3.2 Film Table

Column Name	Data Type	Description
film_id	INTEGER	Unique identifier for each film.
title	VARCHAR	Name of the film.
release_year	INTEGER	Year the film was released.
rental_rate	DECIMAL	Rental price of the film.
category_id	INTEGER	Foreign key linking to the category table.

Links To:

- category_id → category.category_id

Unique Key:

- film_id
-

3.3 Category Table

Column Name	Data Type	Description
category_id	INTEGER	Unique identifier for each category.
name	VARCHAR	Category name.

Links From:

- Referenced in the film table.

Unique Key:

- category_id
-

3.4 City Table

Column Name	Data Type	Description
city_id	INTEGER	Unique identifier for each city.
city	VARCHAR	Name of the city.
country_id	INTEGER	Foreign key linking to the country table.

Links To:

- country_id → country.country_id

Unique Key:

- city_id
-

3.5 Country Table

Column Name	Data Type	Description
country_id	INTEGER	Unique identifier for each country.
country	VARCHAR	Name of the country.

Links From:

- Referenced in the city table.

Unique Key:

- country_id
-

3.6 Address Table

Column Name	Data Type	Description
address_id	INTEGER	Unique identifier for each address.
address	VARCHAR	Street address.
city_id	INTEGER	Foreign key linking to the city table.

Links To:

- city_id → city.city_id

Links From:

- Referenced in the customer table.

Unique Key:

- address_id

4. Table Relationships (ERD Reference)

- customer.customer_id → payment.customer_id
- customer.customer_id → rental.customer_id
- rental.rental_id → payment.rental_id
- customer.address_id → address.address_id
- address.city_id → city.city_id
- city.country_id → country.country_id
- film.category_id → category.category_id
- inventory.film_id → film.film_id
- rental.inventory_id → inventory.inventory_id

5. Unique Keys s Foreign Keys Summary

Table	Unique Key	Foreign Keys
payment	payment_id	customer_id, rental_id
rental	rental_id	customer_id, inventory_id
customer	customer_id	address_id
film	film_id	category_id
category	category_id	N/A
city	city_id	country_id
country	country_id	N/A
address	address_id	city_id