

Rockbuster Stealth Data Dictionary



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Fact Tables:

1. Payment:

Columns	Data Type	Description
Payment_id	integer	Unique identifier for each payment
Customer_id	smallint	Foreign key referencing the customer table.
Staff_id	smallint	Foreign key referencing the staff table.
Rental_id	integer	Foreign key referencing the rental table.
amount	numeric	Total amount paid for each rental.
Payment_date	timestamp without time zone	Date and time when the payment was made.

Columns it links from:

- **Customer_id:** Links to the customer table (via customer_id).
- **Staff_id:** Links to the staff table (via staff_id).
- **Rental_id:** Links to the rental table (via rental_id).

Links to:

- **Customer:** The Customer_id links to the customer table.
- **Staff:** The Staff_id links to the staff table.
- **Rental:** The Rental_id links to the rental table.

Unique keys: Payment_id (Primary key).

2. Rental:

Columns	Data Type	Description
rental_id	integer	Unique identifier for each rental transaction.
rental_date	timestamp without time zone	Date and time when the rental was made.
inventory_id	integer	Foreign key referencing the inventory table.
customer_id	smallint	Foreign key referencing the customer table.

return_date	timestamp without time zone	Date and time when the rental was returned.
staff_id	smallint	Foreign key referencing the staff table.
last_update	timestamp without time zone	Last update timestamp for the rental record.

Columns it links from:

- **Inventory_id:** Links to the inventory table (via inventory_id).
- **Customer_id:** Links to the customer table (via customer_id).
- **Staff_id:** Links to the staff table (via staff_id).

Links to:

- **Inventory:** The Inventory_id links to the inventory table.
- **Customer:** The Customer_id links to the customer table.
- **Staff:** The Staff_id links to the staff table.

Unique Key:

- **Rental_id** (Primary key).

Dimension Tables:

1. film_actor:

Columns	Data Type	Description
film_id	smallint	Foreign key referencing the film table.
last_update	timestamp without time zone	Timestamp for when the record was last updated.
actor_id	smallint	Foreign key referencing the actor table. Identifies the actor.

Columns it links from:

- **Film_id:** Links to the film table (via film_id).
- **Actor_id:** Links to the actor table (via actor_id).

Links to:

- **Film:** The Film_id links to the film table.

- **Actor:** The Actor_id links to the actor table.

Unique Key:

- Combination of **Film_id** and **Actor_id** (Composite primary key).

2. Actor:

Columns	Data Type	Description
last_name	character varying	Last name of the actor
last_update	timestamp without time zone	Date and time the data was updated
actor_id	integer	Unique identifier for actor
first_name	character varying	First name of the actor

Columns it links from:

- **Actor_id:** Links from the film_actor table (via actor_id).

Links to:

- **Film Actor:** The Actor_id links to the film_actor table.

Unique Key:

- **Actor_id** (Primary key).

3. Inventory:

Columns	Data Type	Description
inventory_id	integer	Unique identifier for each inventory item.
film_id	smallint	Foreign key referencing the film table.
store_id	smallint	Store identifier where the inventory is located.
last_update	timestamp without time zone	Last update timestamp for the inventory record.

Columns it links from:

- **Film_id:** Links from the film table (via film_id).
- **Store_id:** Links from the store table (via store_id).

Links to:

- **Film:** The Film_id links to the film table.
- **Store:** The Store_id links to the store table.

Unique Key:

- **Inventory_id** (Primary key).

4. film:

Columns	Data Type	Description
film_id	integer	Unique identifier for each film.
title	character varying	Title of the film.
description	text	Brief description of the film.
release_year	integer	Release year of the film.
language_id	smallint	Foreign key referencing the language table.
rental_duration	smallint	Rental duration in days.
rental_rate	numeric	Rental cost per day.
length	smallint	Duration of the film in minutes.
replacement_cost	numeric	Cost to replace the film.
rating	USER-DEFINED	Film rating
last_update	timestamp without time zone	Last update timestamp for the film record.
special_features	ARRAY	Special features included in the film.
fulltext	tsvector	Key words associated with the film

Columns it links from:

- **Language_id:** Links from the language table (via language_id).

Links to:

- **Language:** The Language_id links to the language table.

Unique Key:

- **Film_id** (Primary key).

5. Film_Category

Columns	Data Type	Description
film_id	smallint	A unique identifier assigned to a film
category_id	smallint	A unique identifier assigned to a film category

Last_update	timestamp without time zone	Date and time the data was updated
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Columns it links from:

- **Film_id:** Links from the film table (via film_id).
- **Category_id:** Links from the category table (via category_id).

Links to:

- **Film:** The Film_id links to the film table.
- **Category:** The Category_id links to the category table.

Unique Key:

- Combination of **Film_id** and **Category_id** (Composite primary key).

6. Language

Columns	Data Type	Description
Language_id	integer	A unique identifier for the primary language spoken in the film
Name	Character	Language spoken in the film
Last_update	timestamp without time zone	Date and time the data was updated

Columns it links from:

- **Language_id:** Links from the film table (via language_id).

Links to:

- **Film:** The Language_id links to the film table to specify which language each film is in.

Unique Key:

- **Language_id** (Primary key).

7. customer

Columns	Data Type	Description
customer_id	integer	Unique identifier for each customer.
store_id	smallint	Store identifier where the customer is registered.

first_name	character	Customer's first name.
last_name	character	Customer's last name.
email	character	Customer's email address.
address_id	smallint	Foreign key referencing the address table.
activebool	boolean	Indicates if the customer is active.
create_date	date	Date when the customer was created.
last_update	timestamp without time zone	Last update timestamp for the customer record.
active	integer	Numeric indicator of customer activity.

Columns it links from:

- **Address_id:** Links from the address table (via address_id).

Links to:

- **Address:** The Address_id links to the address table.

Unique Key:

- **Customer_id** (Primary key).

8. address

Columns	Data Type	Description
address_id	integer	Unique identifier for each address.
address	character	Street address.
address2	character	Secondary address (optional).
district	character	District or state of the address.
city_id	smallint	Foreign key referencing the city table.
postal_code	character	Postal or ZIP code.
phone	character	Contact phone number.
last_update	timestamp without time zone	Last update timestamp for the address record.

Columns it links from:

- **City_id:** Links from the city table (via city_id).

Links to:

- **City:** The City_id links to the city table.

Unique Key:

- **Address_id** (Primary key).

9. city

Columns	Data Type	Description
city_id	integer	Unique identifier for each city.
city	character	Name of the city.
country_id	smallint	Foreign key referencing the country table.
last_update	timestamp without time zone	Last update timestamp for the city record.

Columns it links from:

- **Country_id:** Links from the country table (via country_id).

Links to:

- **Country:** The Country_id links to the country table.

Unique Key:

- **City_id** (Primary key).

10. country

Columns	Data Type	Description
country_id	integer	Unique identifier for each country.
country	character	Name of the country.
last_update	timestamp without time zone	Last update timestamp for the country record.

Columns it links from:

- **None:** No links from other tables since this is the highest-level geographical classification.

Links to:

- **City:** The Country_id links to the city table.

Unique Key:

- **Country_id** (Primary key).

11. staff

Columns	Data Type	Description
staff_id	integer	Unique identifier for each staff member.
first_name	character	Staff member's first name.
last_name	character	Staff member's last name.
address_id	smallint	Foreign key referencing the address table.
email	character	Staff member's email address.
store_id	smallint	Store identifier where the staff works.
active	boolean	Indicates if the staff member is active.
username	character	Staff member's username.
password	character	Staff member's password.
last_update	timestamp without time zone	Last update timestamp for the staff record.
picture	bytea	Staff member's picture data.

Columns it links from:

- **Store_id:** Links from the store table (via store_id).

Links to:

- **Store:** The Store_id in the staff table links to the store table, indicating which store each staff member works at.

Unique Key:

- **Staff_id** (Primary key).