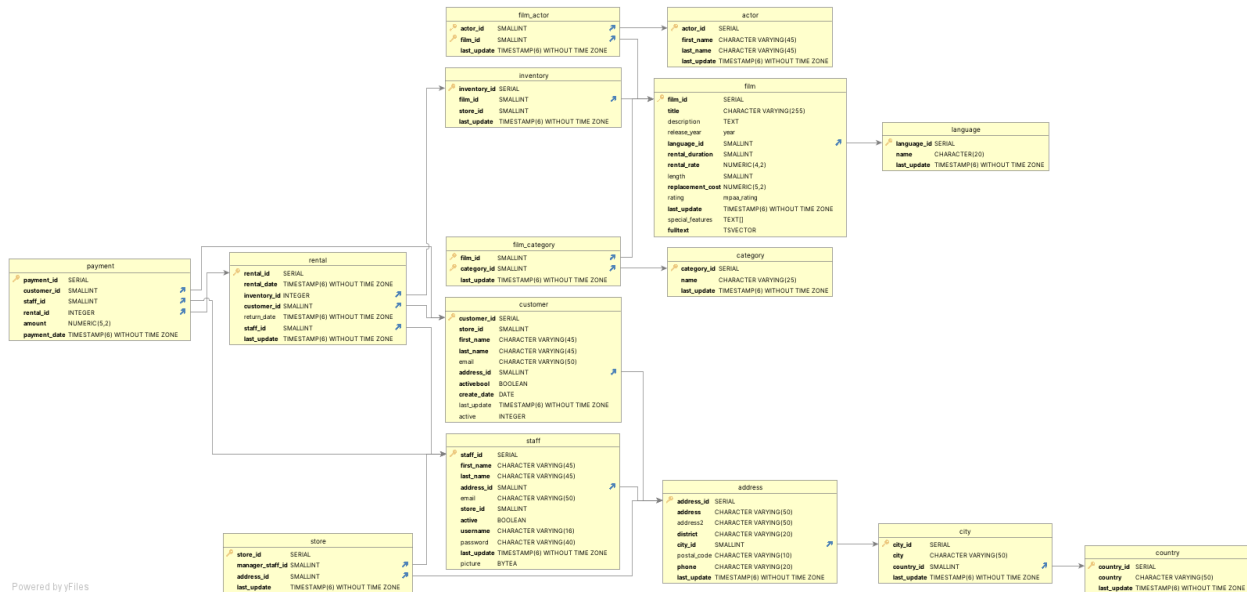


# Rockbuster Stealth Scheme and Data Dictionary

*Ideal Kuci*

## Relational Database Schema: Entity Relationship Diagram (ERD)



The Rockbuster data has a snowflake schema. Comparing to the star schema that has somewhat more of a simple form – consists of one fact table linked to various dimension tables, the snowflake schema has the shape of a snowflake: the fact table is linked to dimensions and sub-dimensions – table linked to a table that is linked to another table.

### Fact Table (one)

#### *Payment*

Columns	Data Type	Description
payment_id	SERIAL	Unique payment identifier – Primary Key
customer_id	SMALLINT	Unique costumer identifier
staff_id	SMALLINT	Unique staff identifier
rental_id	INTEGER	Unique rental identifier
amount	NUMERIC(5,2)	Payment amount
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of payment

### Fact Table (two)

#### *Rental*

Columns	Data Type	Description
rental_id	SERIAL	Unique rental identifier
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of rental
inventory_id	INTEGER	Unique inventory identifier
customer_id	SMALLINT	Unique costumer identifier
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Return date
staff_id	SMALLINT	Unique staff identifier
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the last update

### Dimension Tables

#### *Store*

Columns	Data Type	Description
store_id	SERIAL	Unique store identifier
managar_staff_id	SMALLINT	Unique manager identifier
address_id	SMALLINT	Unique address identifier
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the last update

### *Film\_actor*

Columns	Data Type	Description
actor_id	SMALLINT	Unique actor identifier
film_id	SMALLINT	Unique film identifier
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the last update

### *Inventory*

Columns	Data Type	Description
inventory_id	SERIAL	Unique inventory identifier
film_id	SMALLINT	Unique film identifier
store_id	SMALLINT	Unique store identifier
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the last update

### *Film\_category*

Columns	Data Type	Description
film_id	SMALLINT	Unique film identifier
category_id	SMALLINT	Unique category identifier
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the last update

### *Customer*

Columns	Data Type	Description
customer_id	SERIAL	Unique costumer identifier
store_id	SMALLINT	Unique store identifier
first_name	CHARACTER VARYING(45)	Customers first name
last_name	CHARACTER VARYING(45)	Customers last name
email	CHARACTER VARYING(50)	Customers email
address_id	SMALLINT	Unique address identifier
activebool	BOOLEAN	Active or not active status
create_date	DATE	Date of customers profile created
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the last update
active	INTEGER	Active (1), not active (0)

### *Staff*

Columns	Data Type	Description
staff_id	SERIAL	Unique staff member identifier
first_name	CHARACTER VARYING(45)	Staff members first name
last_name	CHARACTER VARYING(45)	Staff members last name
address_id	SMALLINT	Unique staff members address identifier
email	CHARACTER VARYING(50)	Staff members email
store_id	SMALLINT	Unique store identifier
active	BOOLEAN	Staff members active status
username	CHARACTER VARYING(16)	Staff members username
password	CHARACTER VARYING(40)	Staff members password
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the last update
picture	BYTEA	Staff members picture

### *Actor*

Columns	Data Type	Description
actor_id	SERIAL	Unique actor identifier
first_name	CHARACTER VARYING(45)	Actors' first name
last_name	CHARACTER VARYING(45)	Actors' last name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the last update

### *Film*

Columns	Data Type	Description
film_id	SERIAL	Unique film identifier
title	CHARACTER VARYING(255)	Film title
description	TEXT	Film description
release_year	year	Film release year
language_id	SMALLINT	Film language
rental_duration	SMALLINT	Rental duration
rental_rate	NUMERIC(4,2)	Rental rate
length	SMALLINT	Film length
replacement_cost	NUMERIC(5,2)	Film replacement cost
rating	mpaa_rating	Film rating
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the last update
special_features	TEXT	Trailers
fulltext	TSVECTOR	Index - searching

### Language

language_id	SERIAL	Unique languagena identifier
name	CHARACTER VARYING(20)	Language name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the last update

### Category

Columns	Data Type	Description
category_id	SERIAL	Unique category identifier
name	CHARACTER VARYING(25)	Category name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the last update

### Address

Columns	Data Type	Description
address_id	SERIAL	Unique address identifier
address	CHARACTER VARYING(25)	First line of address
address2	CHARACTER VARYING(25)	Second line of address
district	CHARACTER VARYING(20)	District name
city_id	SMALLINT	Unique city idenotfier
postal_code	CHARACTER VARYING(10)	Postal code
phone	CHARACTER VARYING(20)	Phone number
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the last update

### City

Columns	Data Type	Description
city_id	SERIAL	Citis unique identifier
city	CHARACTER VARYING(50)	City name
contry_id	SMALLINT	Countries unique identifier
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the last update

### Cuntry

Columns	Data Type	Description
contry_id	SERIAL	Countries unique identifier
country	CHARACTER VARYING(50)	Country name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the last update