ROCKBUSTER STEALTH LLC

Data dictionary

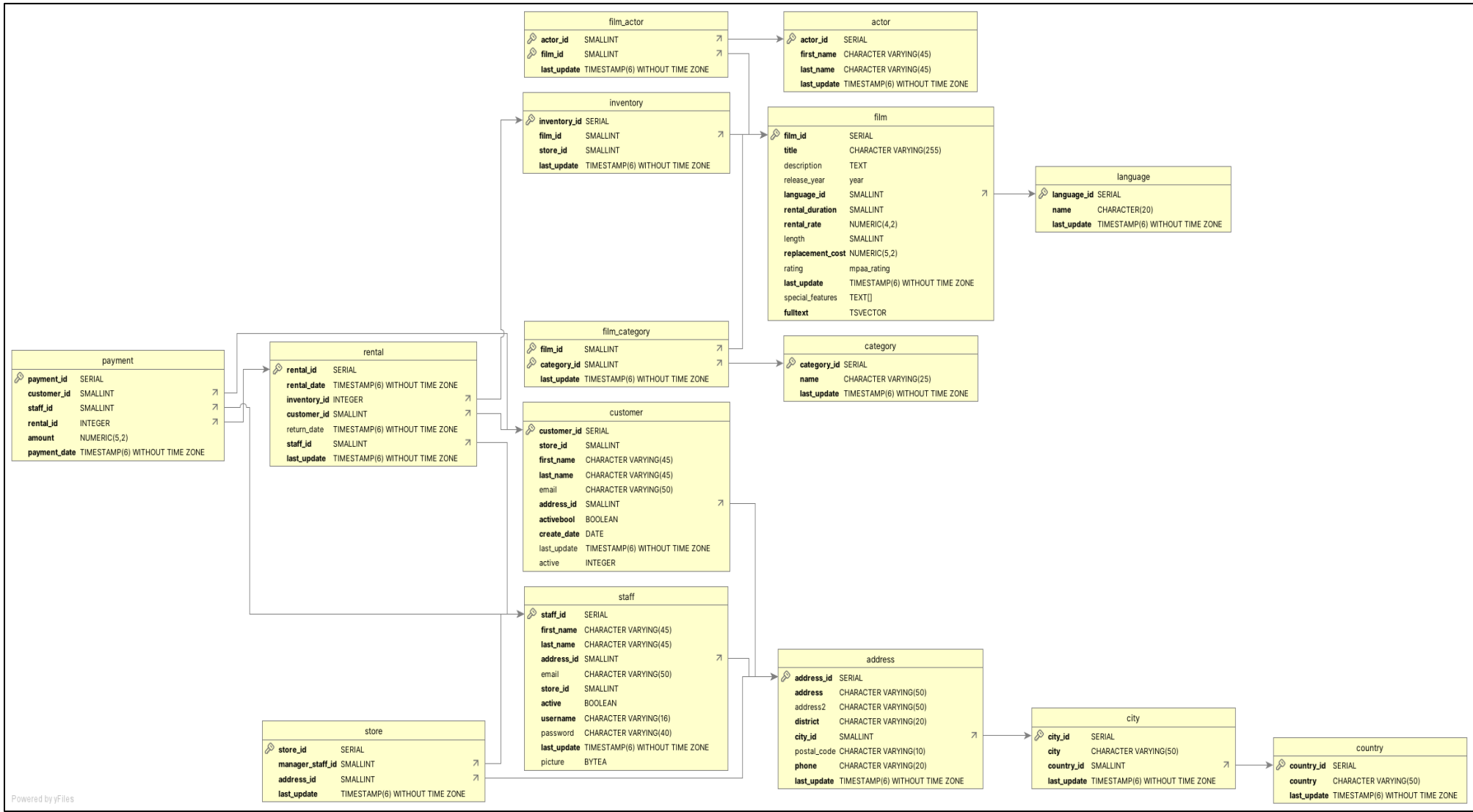# Table of Contents

1.Entity Relationship Diagram (ERD)

film_actor

🔑 **actor_id**	SMALLINT	↗
🔑 **film_id**	SMALLINT	↗
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	

actor

🔑 **actor_id**	SERIAL
first_name	CHARACTER VARYING(45)
last_name	CHARACTER VARYING(45)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

inventory

🔑 **inventory_id**	SERIAL	
film_id	SMALLINT	↗
store_id	SMALLINT	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	

film

🔑 **film_id**	SERIAL	
title	CHARACTER VARYING(255)	
description	TEXT	
release_year	year	
language_id	SMALLINT	↗
rental_duration	SMALLINT	
rental_rate	NUMERIC(4,2)	
length	SMALLINT	
replacement_cost	NUMERIC(5,2)	
rating	mpaa_rating	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	
special_features	TEXT[]	
fulltext	TSVECTOR	

language

🔑 **language_id**	SERIAL
name	CHARACTER(20)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

film_category

🔑 **film_id**	SMALLINT	↗
🔑 **category_id**	SMALLINT	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	

category

🔑 **category_id**	SERIAL
name	CHARACTER VARYING(25)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

payment

🔑 **payment_id**	SERIAL	
customer_id	SMALLINT	↗
staff_id	SMALLINT	↗
rental_id	INTEGER	↗
amount	NUMERIC(5,2)	
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	

rental

🔑 **rental_id**	SERIAL	
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	
inventory_id	INTEGER	↗
customer_id	SMALLINT	↗
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	
staff_id	SMALLINT	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	

customer

🔑 **customer_id**	SERIAL	
store_id	SMALLINT	
first_name	CHARACTER VARYING(45)	
last_name	CHARACTER VARYING(45)	
email	CHARACTER VARYING(50)	
address_id	SMALLINT	↗
activebool	BOOLEAN	
create_date	DATE	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	
active	INTEGER	

staff

🔑 **staff_id**	SERIAL	
first_name	CHARACTER VARYING(45)	
last_name	CHARACTER VARYING(45)	
address_id	SMALLINT	↗
email	CHARACTER VARYING(50)	
store_id	SMALLINT	
active	BOOLEAN	
username	CHARACTER VARYING(16)	
password	CHARACTER VARYING(40)	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	
picture	BYTEA	

store

🔑 **store_id**	SERIAL	
manager_staff_id	SMALLINT	↗
address_id	SMALLINT	↗
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	

address

🔑 **address_id**	SERIAL	
address	CHARACTER VARYING(50)	
address2	CHARACTER VARYING(50)	
district	CHARACTER VARYING(20)	
city_id	SMALLINT	↗
postal_code	CHARACTER VARYING(10)	
phone	CHARACTER VARYING(20)	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	

city

🔑 **city_id**	SERIAL	
city	CHARACTER VARYING(50)	
country_id	SMALLINT	↗
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	

country

🔑 **country_id**	SERIAL
country	CHARACTER VARYING(50)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

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ROCKBUSTER STEALTH LLC Data Dictionary

2.Legend

🔑	Primary key		⫸	Links To
🗝	Foreign key		⫷	Links From

3.Tables

3.1 Fact Tables:

3.1.1 Payment

Payment			
Columns		**Data type**	**Description**
🔑	payment_id	SERIAL	Primary key, Unique Id for each row in this table

🔑	customer_id	SMALLINT	Foreign key to link customer table, Unique Id for each row in that table
🔑	staff_id	SMALLINT	Foreign key to link staff table, Unique Id for each row in that table
🔑	rental_id	INTEGER	Foreign key to link rental table, Unique Id for each row in that table
	amount	NUMERIC(5,2)	A real number with 5 digits with 2 number after the decimal point, rental price
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date the rent has happened

Links

≫	customer	payment.customer_id = customer.customer_id
≫	staff	payment.staff_id = staff.staff_id
≫	rental	payment.rental_id = rental.rental_id

3.1.2 Rental

	Rental		
	Columns	**Data type**	**Description**
🔑	rental_id	SERIAL	Primary key, Unique Id for each row in this table
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the rent has begun
🔑	inventory_id	TIMESTAMP(6) WITHOUT TIME ZONE	Foreign key to link inventory table, Unique Id for each row in that table
🔑	customer_id	SMALLINT	Foreign key to link customer table, Unique Id for each row in that table
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the rent has finished
🔑	staff_id	SMALLINT	Foreign key to link staff table, Unique Id for each row
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple

Links

»»	customer	rental.customer_id = customer.customer_id
»»	staff	rental.staff_id = staff.staff_id
»»	inventory	rental.inventory_id = inventory.inventory_id
««	payment	payment.rental_id = rental.rental_id

3.2 Dimension Tables:

3.2.1 Inventory

Inventory		
Columns	**Data type**	**Description**
inventory_id	SERIAL	Primary key, Unique Id for each row in this table
film_id	SMALLINT	Foreign key to link film table, Unique Id for each row in that table
store_id	SMALLINT	A unique Id in store table
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple

Links

	film	inventory.film_id = film.film_id
	rental	rental.inventory_id = inventory.inventory_id

3.2.2 Film - Actor

Film_actor			
Columns		**Data type**	**Description**
🔑 ⌒	actor_id	SMALLINT	Composite key, Foreign key to link actor table
🔑 ⌒	film_id	SMALLINT	Composite key, Foreign key to link film table
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple

Links

»»	actor	film_actor.actor_id = actor.actor_id
»»	film	film_actor.film_id = film.film_id

3.2.3 Actor

Actor			
Columns		**Data type**	**Description**
🔑	actor_id	SERIAL	Primary key, Unique Id for each row in this table
	first_name	CHARACTER VARYING(45)	First name of the actor, variable-length string up to 45 characters
	last_name	CHARACTER VARYING(45)	Last name of the actor, variable-length string up to 45 characters
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple

Links

⟪	actor	film_actor.actor_id = actor.actor_id

3.2.4 Language

Language			
Columns		**Data type**	**Description**
🔑	language_id	SERIAL	Primary key, Unique Id for each row in this table
	name	CHARACTER(20)	Name of the language, Fixed-length string up to 20 characters
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple

Links

≪	film	film_language_id = language.language_id

3.2.5 Category

Category			
Columns		**Data type**	**Description**
🔑	category_id	SERIAL	Primary key, Unique Id for each row in this table
	name	CHARACTER VARYING(25)	Name of the film's category (genre), variable-length string up to 25 characters
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple

Links

≪	Film_category	film-category.category_id = category.category_id

3.2.6 Film - Category

Film_category			
Columns		**Data type**	**Description**
🔑⫘	film_id	SMALLINT	Composite key, Foreign key to link film table
🔑⫘	category_id	SMALLINT	Composite key, Foreign key to link category table
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple

Links

⫸	category	film-category.category_id = category.category_id
⫸	film	film-category.film_id = film.film_id

3.2.7 Film

Film			
Columns		**Data type**	**Description**
🔑	film_id	SERIAL	Primary key, Unique Id for each row in this table
	title	CHARACTER VARYING(255)	Name of the film, variable-length string up to 255 characters
	description	TEXT	Explanations, variable-length string without limitation

	release_year	year	Year of film's publication
(key)	language_id	SMALLINT	Foreign key to link language table, Unique Id for each row in there
	rental_duration	SMALLINT	Small integer, number of days film was rented
	rental_rate	NUMERIC(4,2)	A real number with 4 digits with 2 number after the decimal point, rental rate
	length	SMALLINT	Small integer, length of the film
	replacement_cost	NUMERIC(5,2)	A real number with 5 digits with 2 number after the decimal point, cost
	rating	mpaa_rating	Film rating
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple
	special_features	TEXT	Further explanations, variable-length string without limitation
	fulltext	TSVECTOR	Text which is used full-text searches

Links

⟫	language	film_language_id = language.language_id
⟪	Film_actor	film_actor.film_id = film.film_id
⟪	inventory	inventory.film_id = film.film_id
⟪	film_category	film-category.film_id = film.film_id

3.2.8 Customer

	Columns	Data type	Description
	customer_id	SERIAL	Primary key, Unique Id for each row in this table
	store_id	SMALLINT	A unique Id in store table
	first_name	CHARACTER VARYING(45)	First name of customer, variable-length string up to 45 characters
	last_name	CHARACTER VARYING(45)	Last name of customer, variable-length string up to 45 characters
	email	CHARACTER VARYING(50)	Customer's email, variable-length string up to 50 characters
	address_id	SMALLINT	Foreign key to link address table, Unique Id for each row in that table
	activebool	BOOLEAN	True or Fales value based on customer's status
	create_date	DATE	Date of customer's account creation
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple
	active	INTEGER	A number to indicate a customer is active or not

The header row "Customer" spans all columns above the Columns/Data type/Description header.

Links

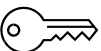|		
»»	address	customer.address_id = address.address_id
«««	payment	payment.customer_id = customer.customer_id
«««	rental	rental.customer_id = customer.customer_id

3.2.9 Store

store			
	Columns	Data type	Description
🔑	store_id	SERIAL	Primary key, Unique Id for each row
🔑	manager_staff_id	SMALLINT	Foreign key to link staff table, Unique Id for each row in that table
🔑	address_id	SMALLINT	Foreign key to link address table, Unique Id for each row in that table
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple

Links

»»	staff	store.store_id = staff.store_id
»»	address	store.address_id = address.address_id

3.2.10 Staff

	Columns	Data type	Description
🔑	staff_id	SERIAL	Primary key, Unique Id for each row in this table
	first_name	CHARACTER VARYING(45)	First name of staff, variable-length string up to 45 characters
	last_name	CHARACTER VARYING(45)	Last name of staff, variable-length string up to 45 characters
🔑	address_id	SMALLINT	Foreign key to link address table, Unique Id for each row in that table
	email	CHARACTER VARYING(50)	Staff's email, variable-length string up to 50 characters
	Store_id	SMALLINT	A unique Id in store table
	active	BOOLEAN	True or Fales value based on staff's account status
	username	CHARACTER VARYING(16)	Staff's account username, variable-length string up to 16 characters
	password	CHARACTER VARYING(40)	Staff's account password, variable-length string up to 40 characters
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple
	active	INTEGER	A number to indicate a staff is active or not
	Picture	BYTEA	Staff's picture

Links

⟫	address	staff.address_id = address.address_id
⟪	payment	payment.staff_id = staff.staff_id

	rental	rental.staff_id = staff.staff_id
	store	store.store_id = staff.store_id

3.2.11 City

City			
Columns		**Data type**	**Description**
	city_id	SERIAL	Primary key, Unique Id for each row in this table
	city	CHARACTER VARYING(50)	Name of the city, variable-length string up to 50 characters
	country_id	SMALLINT	Foreign key to link country table, Unique Id for each row in that table
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple

Links

	country	city.country_id = country.country_id
	address	city.city_id = address.city_id

3.2.12 Address

<table>
<tr><td colspan="4" align="center">Address</td></tr>
<tr><td align="center">Columns</td><td align="center">Data type</td><td colspan="2" align="center">Description</td></tr>
<tr><td>🔑 address_id</td><td align="center">SERIAL</td><td colspan="2" align="center">Primary key, Unique Id for each row</td></tr>
<tr><td align="center">address</td><td align="center">CHARACTER VARYING(50)</td><td colspan="2" align="center">Address, variable-length string up to 50 characters</td></tr>
<tr><td align="center">address2</td><td align="center">CHARACTER VARYING(50)</td><td colspan="2" align="center">Address, variable-length string up to 50 characters</td></tr>
<tr><td align="center">district</td><td align="center">CHARACTER VARYING(20)</td><td colspan="2" align="center">District, region, state, variable-length string up to 20 characters</td></tr>
<tr><td>🔑 city_id</td><td align="center">SMALLINT</td><td colspan="2" align="center">Foreign key to link city table, Unique Id for each row in that table</td></tr>
<tr><td align="center">postal_code</td><td align="center">CHARACTER VARYING(10)</td><td colspan="2" align="center">Postal code, variable-length string up to 10 characters</td></tr>
<tr><td align="center">phone</td><td align="center">CHARACTER VARYING(20)</td><td colspan="2" align="center">Phone number, variable-length string up to 20 characters</td></tr>
<tr><td align="center">last_update</td><td align="center">TIMESTAMP(6) WITHOUT TIME ZONE</td><td colspan="2" align="center">Time and date of the last changes happened to each tuple</td></tr>
</table>

Links

⫸	city	city.city_id = address.city_id
⫷	customer	customer.address_id = address.address_id
⫷	staff	staff.address_id = address.address_id
⫷	store	store.address_id = address.address_id

3.2.13 Country

Country		
Columns	**Data type**	**Description**
🔑 Country_id	SERIAL	Primary key, Unique Id for each row in this table
country	CHARACTER VARYING(50)	Name of the country, variable-length string up to 50 characters
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple

Links

⫷	city	city.country_id = country.country_id