



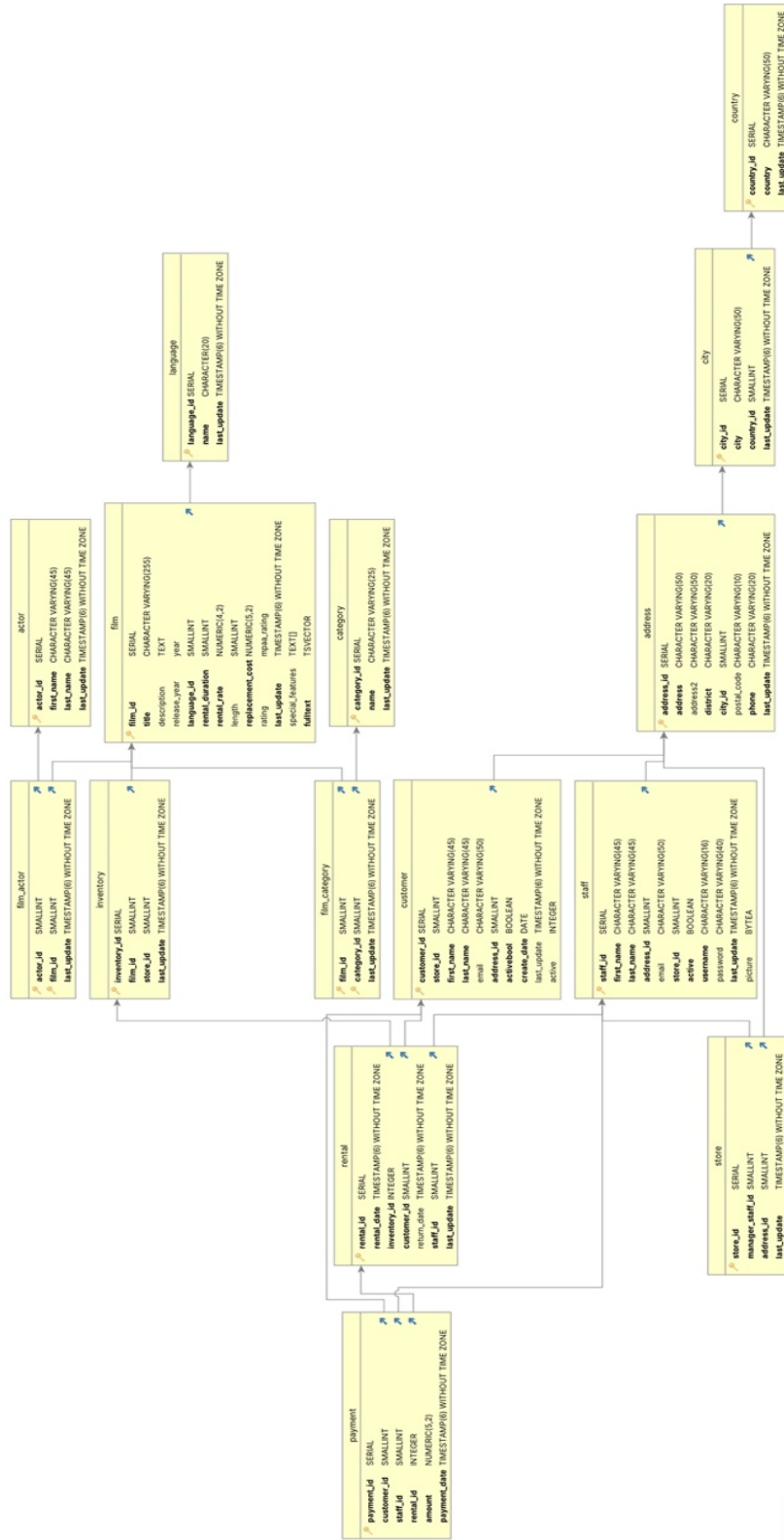
ROCKBUSTER STEALTH

Data Dictionary

Table of Contents

- 1. ENTITY RELATIONSHIP DIAGRAM..... 3**
- 2. LEGEND..... 4**
- 3. FACT TABLES..... 4**
 - 3.1 PAYMENT TABLE..... 4
 - 3.2 RENTAL TABLE..... 5
- 4. DIMENSION TABLES..... 7**
 - 4.1 ACTOR TABLE..... 7
 - 4.2 ADDRESS TABLE..... 8
 - 4.3 CATEGORY TABLE..... 9
 - 4.4 CITY TABLE..... 10
 - 4.5 COUNTRY TABLE..... 11
 - 4.6 CUSTOMER TABLE..... 12
 - 4.7 FILM TABLE..... 14
 - 4.8 FILM ACTOR TABLE..... 16
 - 4.9 FILM CATEGORY TABLE..... 17
 - 4.10 INVENTORY TABLE..... 18
 - 4.11 LANGUAGE TABLE..... 19
 - 4.12 STAFF TABLE..... 20
 - 4.13 STORE TABLE..... 22

1. Entity Relationship Diagram







2. Legend

 = Primary Key

 = Foreign Key





3. Fact Tables





3.1 Payment Table

PAYMENT			
Key	Columns	Data Type	Description
	payment_id	SERIAL	Primary key, identifier of payment
	customer_id	SMALLINT	Foreign key, identifier of customer
	staff_id	SMALLINT	Foreign key, identifier of staff
	rental_id	INTEGER	Foreign key, identifier of rental
	amount	NUMERIC(5,2)	Cost, numerical value
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of payment, no time zone




LINKS TO		
Table	Join	Description
customer	payment.customer_id = customer.customer_id	Foreign key constraint referencing customer_id
staff	payment.staff_id = staff.staff_id	Foreign key constraint referencing staff_id
rental	payment.rental_id = rental.rental_id	Foreign key constraint referencing rental_id

LINKS FROM
No links from other tables

KEYS		
Type	Column	Description
	payment_id	Primary key of payment table
	customer_id	Foreign key connecting customer table
	staff_id	Foreign key connecting staff table
	rental_id	Foreign key connecting rental table

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

3.2 Rental Table





RENTAL			
Key	Columns	Data Type	Description
	rental_id	SERIAL	Primary key, identifier of rental
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of rental, no time zone
	inventory_id	INTEGER	Foreign key, identifier of inventory
	customer_id	SMALLINT	Foreign key, identifier of customer

	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of return, no time zone
↙	staff_id	SMALLINT	Foreign key, identifier of staff
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of latest update, no time zone

LINKS TO		
Table	Join	Description
inventory	rental.inventory_id = inventory.inventory_id	Foreign key constraint referencing inventory_id
customer	rental.customer_id = customer.customer_id	Foreign key constraint referencing customer_id
staff	rental.staff_id = staff.staff_id	Foreign key constraint referencing staff_id


LINKS FROM		
Table	Join	Description
payment	rental.rental_id = payment.rental_id	Foreign key constraint referencing rental_id

KEYS		
Type	Column	Description
🔑	rental_id	Primary key of rental table
↙	inventory_id	Foreign key connecting inventory table
↙	customer_id	Foreign key connecting customer table
↙	staff_id	Foreign key connecting staff table

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

4. Dimension Tables


4.1 Actor Table


ACTOR			
Key	Columns	Data Type	Description
	actor_id	SERIAL	Primary key, identifier of actor
	first_name	CHARACTER VARYING(45)	First name of actor
	last_name	CHARACTER VARYING(45)	Last name of actor
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of latest update

LINKS TO
No links to other tables



LINKS FROM		
Table	Join	Description
film_actor	actor.actor_id = film_actor.actor_id	Foreign key constraint referencing actor_id

KEYS		
Type	Column	Description

	actor_id	Primary key of actor table
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actor	
	actor_id SERIAL
	first_name CHARACTER VARYING(45)
	last_name CHARACTER VARYING(45)
	last_update TIMESTAMP(6) WITHOUT TIME ZONE



4.2 Address Table

ADDRESS			
Key	Columns	Data Type	Description
	address_id	SERIAL	Primary key, identifier of address
	address	CHARACTER VARYING(50)	First line of address
	address2	CHARACTER VARYING(50)	Second line of address
	district	CHARACTER VARYING(20)	Region of address
	city_id	SMALLINT	Foreign key, identifier of city
	postal_code	CHARACTER VARYING(10)	Postal code of address
	phone	CHARACTER VARYING(20)	Phone number of address
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of latest update, no time zone


LINKS TO		
Table	Join	Description
city	address.city_id = city.city_id	Foreign key constraint referencing city_id

LINKS FROM		
Table	Join	Description
customer	address.address_id = customer.address_id	Foreign key constraint referencing address_id
staff	address.address_id = staff.address_id	Foreign key constraint referencing address_id
store	address.address_id = store.address_id	Foreign key constraint referencing address_id

KEYS		
Type	Column	Description
	address_id	Primary key of address table
	city_id	Foreign key connecting city table

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


4.3 Category Table


CATEGORY			
Key	Columns	Data Type	Description
	category_id	SERIAL	Primary key, identifier of category
	name	CHARACTER VARYING(25)	Name of category

	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of latest update, no time zone
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LINKS TO			
No links to other tables			

LINKS FROM		
Table	Join	Description
film_category	category.category_id = film_category.category_id	Foreign key constraint referencing category_id

KEYS		
Type	Column	Description
	category_id	Primary key of category table



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



4.4 City Table

CITY			
Key	Columns	Data Type	Description
	city_id	SERIAL	Primary key, identifier of city
	city	CHARACTER VARYING(50)	Identifier of city
	country_id	SMALLINT	Foreign key, identifier of country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of latest update, no time zone


LINKS TO		
Table	Join	Description
country	city.country_id = country.country_id	Foreign key constraint referencing country_id

LINKS FROM		
Table	Join	Description
address	city.city_id = address.city_id	Foreign key constraint referencing city_id

KEYS		
Type	Column	Description
	city_id	Primary key of city table
	country_id	Foreign key connecting country table

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


4.5 Country Table


COUNTRY			
Key	Columns	Data Type	Description
	country_id	SERIAL	Primary key, identifier of country
	country	CHARACTER VARYING(50)	Name of country

	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of latest update, no time zone
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LINKS TO			
No links to other tables			

LINKS FROM		
Table	Join	Description
city	country.country_id = city.country_id	Foreign key constraint referencing county_id

KEYS		
Type	Column	Description
	country_id	Primary key of country table

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

4.6 Customer Table



CUSTOMER			
Key	Columns	Data Type	Description
	customer_id	SERIAL	Primary key, identifier of customer
	store_id	SMALLINT	Identifier of store
	first_name	CHARACTER VARYING(45)	First name of customer
	last_name	CHARACTER VARYING(45)	Last name of customer
	email	CHARACTER VARYING(50)	Email of customer

↙	address_id	SMALLINT	Foreign key, identifier of address
	activebool	BOOLEAN	Status on if customer is active or not
	create_date	DATE	Date of customer profile creation
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of latest update, no time zone
	active	INTEGER	Active = 1, Inactive = 0



LINKS TO		
Table	Join	Description
address	customer.address_id = address.address_id	Foreign key constraint referencing address_id

LINKS FROM		
Table	Join	Description
rental	customer.customer_id = rental.customer_id	Foreign key constraint referencing customer_id
payment	customer.customer_id = payment.customer_id	Foreign key constraint referencing customer_id

KEYS		
Type	Column	Description
🔑	customer_id	Primary key of customer table
↙	address_id	Foreign key connecting address table



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

4.7 Film Table

FILM			
Key	Columns	Data Type	Description
	film_id	SERIAL	Primary key, identifier of film
	title	CHARACTER VARYING(255)	Title of film
	description	TEXT	Description of film
	release_year	year	Year of film release
	language_id	SMALLINT	Foreign key, identifier of language
	rental_duration	SMALLINT	Duration of rental
	rental_rate	NUMERIC(4,2)	Cost of rental
	length	SMALLINT	Length of film
	replacement_cost	NUMERIC(5,2)	Cost to replace film
	rating	mpaa_rating	Film rating
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of latest update, no time zone
	special_features	TEXT[]	Special features of film





LINKS TO		
Table	Join	Description
language	film.language_id = language.language_id	Foreign key constraint referencing language_id

LINKS FROM		
Table	Join	Description
inventory	film.film_id = inventory.film_id	Foreign key constraint referencing film_id
film_actor	film.film_id = film_actor.film_id	Foreign key constraint referencing film_id
film_category	film.film_id = film_category.film_id	Foreign key constraint referencing film_id

KEYS		
Type	Column	Description
	film_id	Primary key of film table
	language_id	Foreign key connecting language table





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





4.8 Film Actor Table

FILM ACTOR			
Key	Columns	Data Type	Description
 	actor_id	SMALLINT	Primary and foreign key, identifier of actor
 	film_id	SMALLINT	Primary and foreign key, identifier of film
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of latest update, no time zone





LINKS TO		
Table	Join	Description
actor	film_actor.actor_id = actor.actor_id	Foreign key constraint referencing actor_id
film	film_actor.film_id = film.film_id	Foreign key constraint referencing film_id

LINKS FROM
No links from other tables

KEYS		
Type	Column	Description
 	actor_id	Primary key of film_actor table, foreign key connecting actor table
 	film_id	Primary key of film_actor table, foreign key connecting film table



film_actor		
 actor_id	SMALLINT	
 film_id	SMALLINT	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	



4.9 Film Category Table





FILM CATEGORY			
Key	Columns	Data Type	Description
 	film_id	SMALLINT	Primary and foreign key, identifier of film
 	category_id	SMALLINT	Primary and foreign key, identifier of category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of latest update, no time zone

LINKS TO		
Table	Join	Description
film	film_category.film_id = film.film_id	Foreign key constraint referencing film_id
category	film_category.category_id = category.category_id	Foreign key constraint referencing category_id



LINKS FROM
No links from other tables

KEYS		
Type	Column	Description
 	film_id	Primary key of film_category table, foreign key connecting film table

 	category_id	Primary key of film_category table, foreign key connecting category table
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film_category		
	film_id SMALLINT	
	category_id SMALLINT	
	last_update TIMESTAMP(6) WITHOUT TIME ZONE	



4.10 Inventory Table

INVENTORY			
Key	Columns	Data Type	Description
	inventory_id	SERIAL	Primary key, identifier of inventory
	film_id	SMALLINT	Foreign key, identifier of film
	store_id	SMALLINT	Identifier of store
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of latest update, no time zone


LINKS TO		
Table	Join	Description
film	inventory.film_id = film.film_id	Foreign key constraint referencing film_id

LINKS FROM		
Table	Join	Description
rental	inventory.inventory_id = rental.inventory_id	Foreign key constraint referencing inventory_id

KEYS		
Type	Column	Description
	inventory_id	Primary key of inventory table
	film_id	Foreign key connecting film table


inventory	
 inventory_id	SERIAL
film_id	SMALLINT 
store_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE


4.11 Language Table

LANGUAGE			
Key	Columns	Data Type	Description
	language_id	SERIAL	Primary key, identifier of language
	name	CHARACTER(20)	Name of language
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of latest update, no time zone



LINKS TO
No links to other tables

LINKS FROM		
Table	Join	Description
film	language.language_id = film.language_id	Foreign key constraint referencing language_id

KEYS		
Type	Column	Description
	language_id	Primary key of language table



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



4.12 Staff Table

STAFF			
Key	Columns	Data Type	Description
	staff_id	SERIAL	Identifier of staff member
	first_name	CHARACTER VARYING(45)	First name of staff member
	last_name	CHARACTER VARYING(45)	Last name of staff member
	address_id	SMALLINT	Identifier of address
	email	CHARACTER VARYING(50)	Email of staff member
	store_id	SMALLINT	Identifier of store
	active	BOOLEAN	Status on if customer is currently employed or not
	username	CHARACTER VARYING(16)	Username of staff member
	password	CHARACTER VARYING(40)	Password of staff member
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of latest update, no time zone
	picture	BYTEA	Picture of staff member

LINKS TO		
Table	Join	Description
address	staff.address_id = address.address_id	Foreign key constraint referencing address_id

LINKS FROM		
Table	Join	Description
payment	staff.staff_id = payment.staff_id	Foreign key constraint referencing staff_id
rental	staff.staff_id = rental.staff_id	Foreign key constraint referencing staff_id
store	staff.staff_id = store.staff_id	Foreign key constraint referencing staff_id

KEYS		
Type	Column	Description
	staff_id	Primary key of staff table
	address_id	Foreign key connecting address table

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

4.13 Store Table

STORE			
Key	Columns	Data Type	Description
🔑	store_id	SERIAL	Primary key, identifier of store
↙	manager_staff_id	SMALLINT	Foreign key, identifier of staff manager
↙	address_id	SMALLINT	Foreign key, identifier of address
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of latest update, no time zone

LINKS TO		
Table	Join	Description
address	store.address_id = address.address_id	Foreign key constraint referencing address_id
staff	store.manager_staff_id = staff.staff_id	Foreign key constraint referencing staff_id and manager_staff_id

LINKS FROM
No links from other tables

KEYS		
Type	Column	Description
🔑	store_id	Primary key of store table
↙	manager_staff_id	Foreign key connecting staff table
↙	address_id	Foreign key connecting address table

store		
 store_id	SERIAL	
manager_staff_id	SMALLINT	
address_id	SMALLINT	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	