Rockbuster Stealth
Data Dictionary

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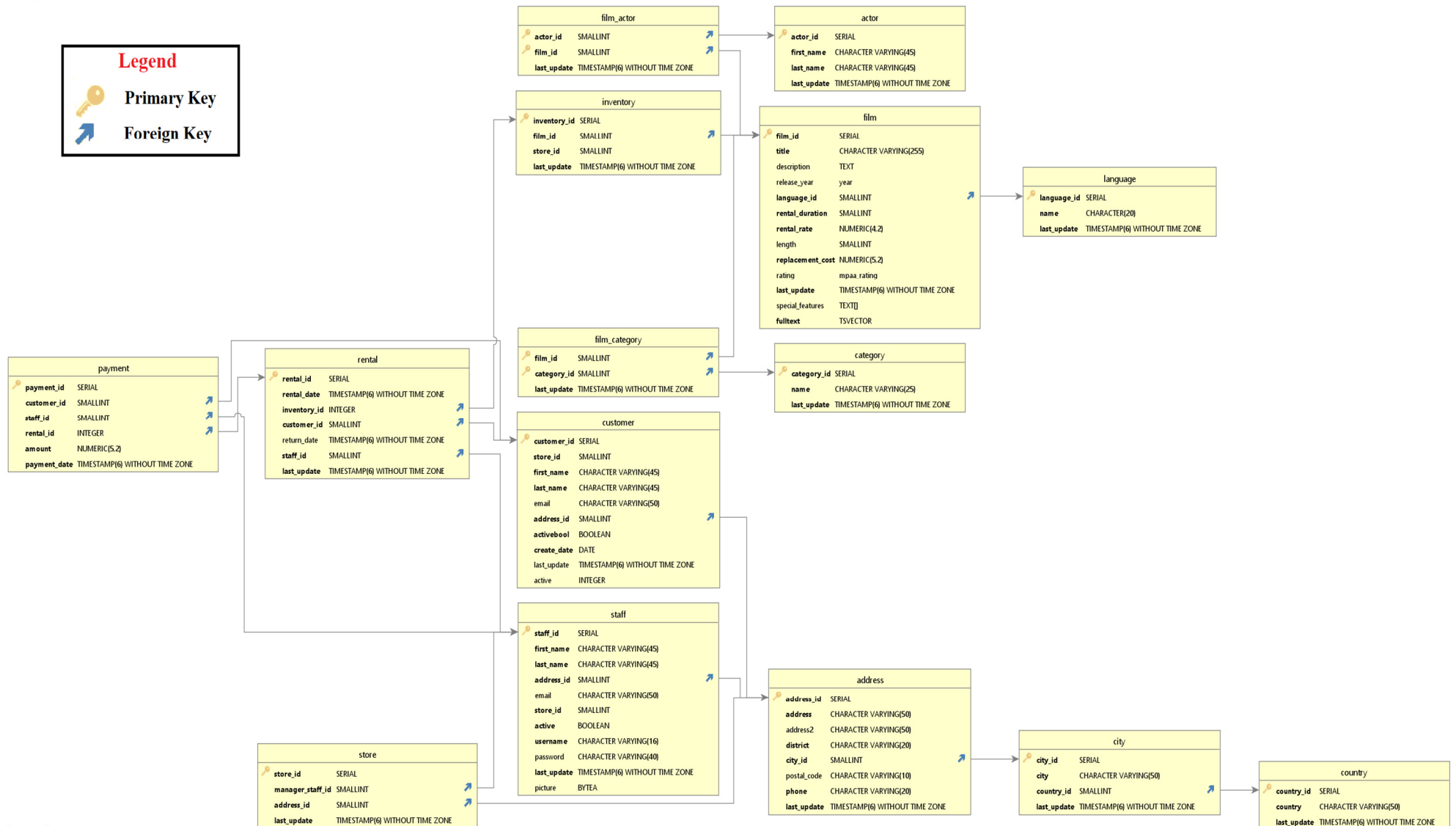
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Contents

Entity Relationship Diagram (ERD)

Legend
🔑 Primary Key
↗ Foreign Key

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

Fact Tables

Payment

Table:	payment	Description	Key	Links to	Links From
Columns	**Data Type**				
payment_id	SERIAL	unique number assigned to payment	🔑		
customer_id	SMALLINT	unique number assigned to each customer	↗	customer	
staff_id	SMALLINT	unique number assigned to each staff of the company	↗	staff	
rental_id	INTEGER	unique number assigned to each rental task	↗	rental	
amount	NUMERIC(5,2)	the amount of payment			
Payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	date of payment			

Rental

Table:	rental	Description	Key	Links to	Links From
Columns	**Data Type**				
rental_id	SERIAL	unique number assigned to each rental task	🔑		payment
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	date of renting			
inventory_id	INTEGER	number assigned to each movie in the stock	↗	inventory	
customer_id	SMALLINT	unique number assigned to each customer	↗	customer	
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	date of returning the movie			
staff_id	SMALLINT	unique number assigned to each staff of the company	↗	staff	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date of last update of the rental task			

Dimension Tables

Store

Table:	store	Description	Key	Links to	Links From
Columns	Data Type				
store_id	SERIAL	unique number assigned to each store	🔑		
manager_staff_id	SMALLINT	staff_id of the store manager	↗	staff	
address_id	SMALLINT	unique number assigned to store address	↗	address	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date of last update of this table			

Film_Actor

Table:	film_actor	Description	Key	Links to	Links From
Columns	Data Type				
actor_id	SMALLINT	unique number assigned to each film actor	🔑	actor	
film_id	SMALLINT	unique number assigned to each movie title	🔑	film	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date of last update of this table			

Inventory

Table:	inventory	Description	Key	Links to	Links From
Columns	Data Type				
inventory_id	SERIAL	number assigned to each movie in the stock	🔑		rental
film_id	SMALLINT	unique number assigned to each movie title	↗	film	
store_id	SMALLINT	unique number assigned to each store			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date of last update of this table			

Film_Category

Table:	film_category	Description	Key	Links to	Links From
Columns	Data Type				
film_id	SMALLINT	unique number assigned to each movie title	🔑	film	
category_id	SMALLINT	unique number assigned to each movie category (genre)	🔑	category	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date of last update of this table			

Customer

Table:	customer	Description	Key	Links to	Links From
Columns	Data Type				
customer_id	SERIAL	unique number assigned to each customer	🔑		Payment, rental
store_id	SMALLINT	unique number assigned to each store			
first_name	CHARACTER VARYING(45)	first name of the customer			
last_name	CHARACTER VARYING(45)	last name of the customer			
email	CHARACTER VARYING(45)	email of the customer			
address_id	SMALLINT	number assigned to customer address	↗	address	
activebool	BOOLEAN	is the customer recently active or not?			
create_date	DATE	date of submission of the customer			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date of last update of this table			
active	INTEGER	is customer active?			

Staff

Table:	staff	Description	Key	Links to	Links From
Columns	Data Type				
staff_id	SERIAL	unique number assigned to each staff of the company	🔑		rental
first_name	CHARACTER VARYING(45)	first name of the staff			payment
last_name	CHARACTER VARYING(45)	last name of the staff			store
address_id	SMALLINT	unique number assigned to the staff address	↗	address	
email	CHARACTER VARYING(50)	email address of the staff			
store_id	SMALLINT	unique number assigned to each store			
active	BOOLEAN	is the staff recently active or not?			
username	CHARACTER VARYING(16)	username of staff in renting system			
password	CHARACTER VARYING(40)	password of staff in renting system			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date of last update of this table			
picture	BYTEA	picture of the staff			

Actor

Table:	actor	Description	Key	Links to	Links From
Columns	Data Type				
actor_id	SERIAL	unique number assigned to each film actor	🔑		film_actor
first_name	CHARCTER VARYING(45)	first name of the actor			
last_name	CHARCTER VARYING(45)	last name of the actor			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date of last update of this table			

Film

Table:	film	Description	Key	Links to	Links From
Columns	Data Type				
film_id	SERIAL	unique number assigned to each movie title	🔑		film_actor
title	CHARACTER VARYING(255)	title of the movie			inventory
description	TEXT	a short description about the movie			film_category
release_year	YEAR	year of movie release			
language_id	SMALLINT	unique number assigned to each language	↗	language	
rental_duration	SMALLINT	the length of movie rental			
rental_rate	NUMERIC(4,2)	the price of movie renting			
length	SMALLINT	duration of the movie			
replacement_cost	NUMERIC(5,2)	the cost of replacement of the movie			
rating	MPAA_RATING	movie rating			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date of last update of this table			
special_features	TEXT[]	special features included with the movie			
fulltext	TSVECTOR	keywords related to the movie			

Category

Table:	category	Description	Key	Links to	Links From
Columns	Data Type				
category_id	SERIAL	unique number assigned to each movie category (genre)	🔑		film_category
name	CHARACTER VARYING(25)	the category name			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date of last update of this table			

Address

Table:	address	Description	Key	Links to	Links From
Columns	Data Type				
address_id	SERIAL	unique number assigned to the address	🔑		customer
address	CHARACTER VARYING(50)	main address			staff
address2	CHARACTER VARYING(50)	additional address			store
district	CHARACTER VARYING(25)	district of the address			
city_id	SMALLINT	unique number assigned to each city	↗	city	
postal_code	CHARACTER VARYING(10)	postal code			
phone	CHARACTER VARYING(20)	phone number			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date of last update of this table			

Language

Table:	language	Description	Key	Links to	Links From
Columns	Data Type				
language_id	SERIAL	unique number assigned to each language	🔑		film
name	CHARACTER(20)	name of the language			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date of last update of this table			

City

Table:	city	Description	Key	Links to	Links From
Columns	Data Type				
city_id	SERIAL	unique number assigned to each city	🔑		address
city	CHARACTER VARYING(50)	name of the city			
country_id	SMALLINT	uhique number assigned to each country	↗	country	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date of last update of this table			

Country

Table:	country		Description	Key	Links to	Links From
Columns	Data Type					
country_id	SERIAL		uhique number assigned to each country	🔑		city
country	CHARACTER VARYING(50)		name of the country			
last_update	TIMESTAMP(6) WITHOUT TIME ZONE		date of last update of this table			