

ROCKBUSTER STEALTH

Data Dictionary

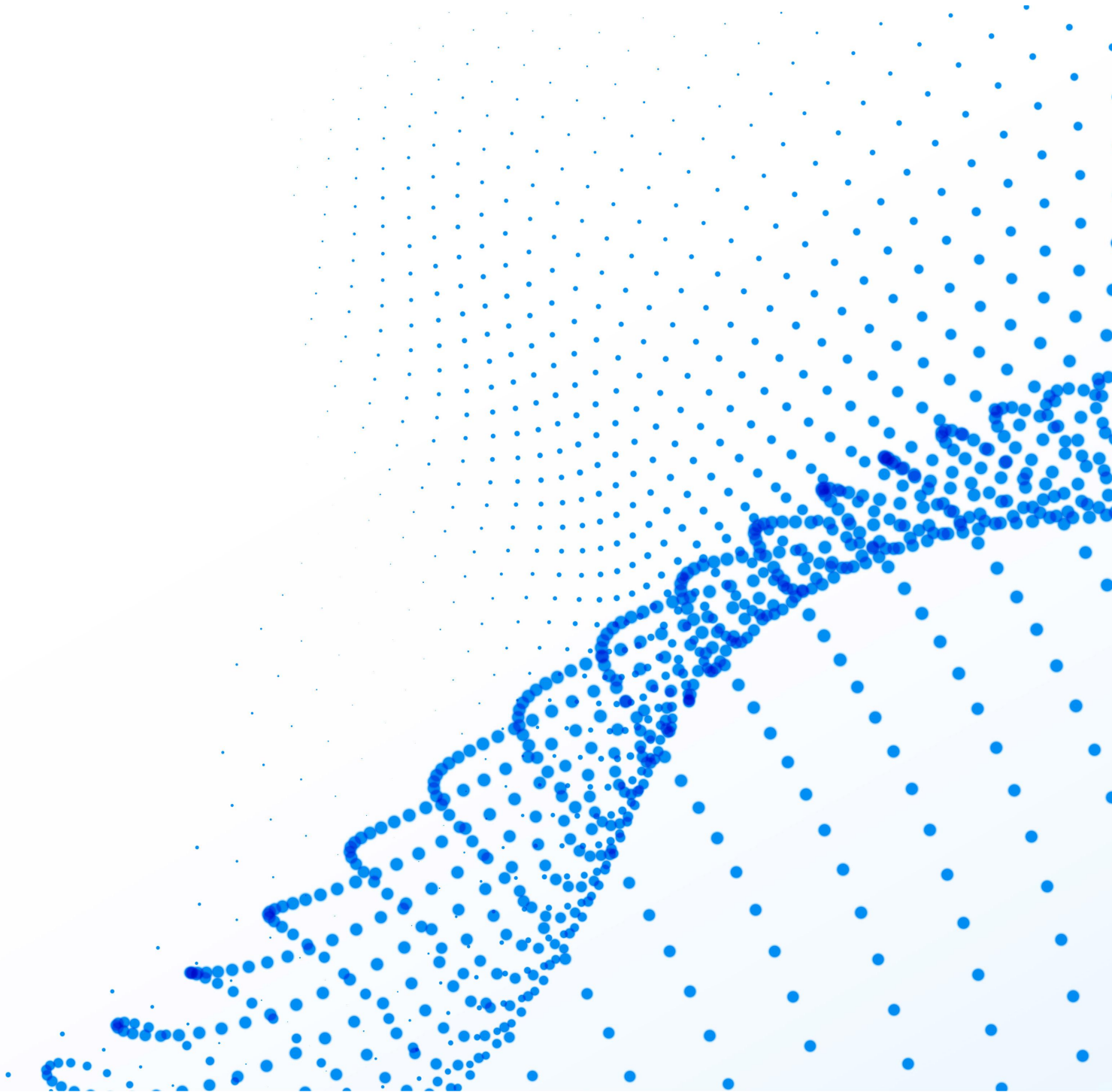
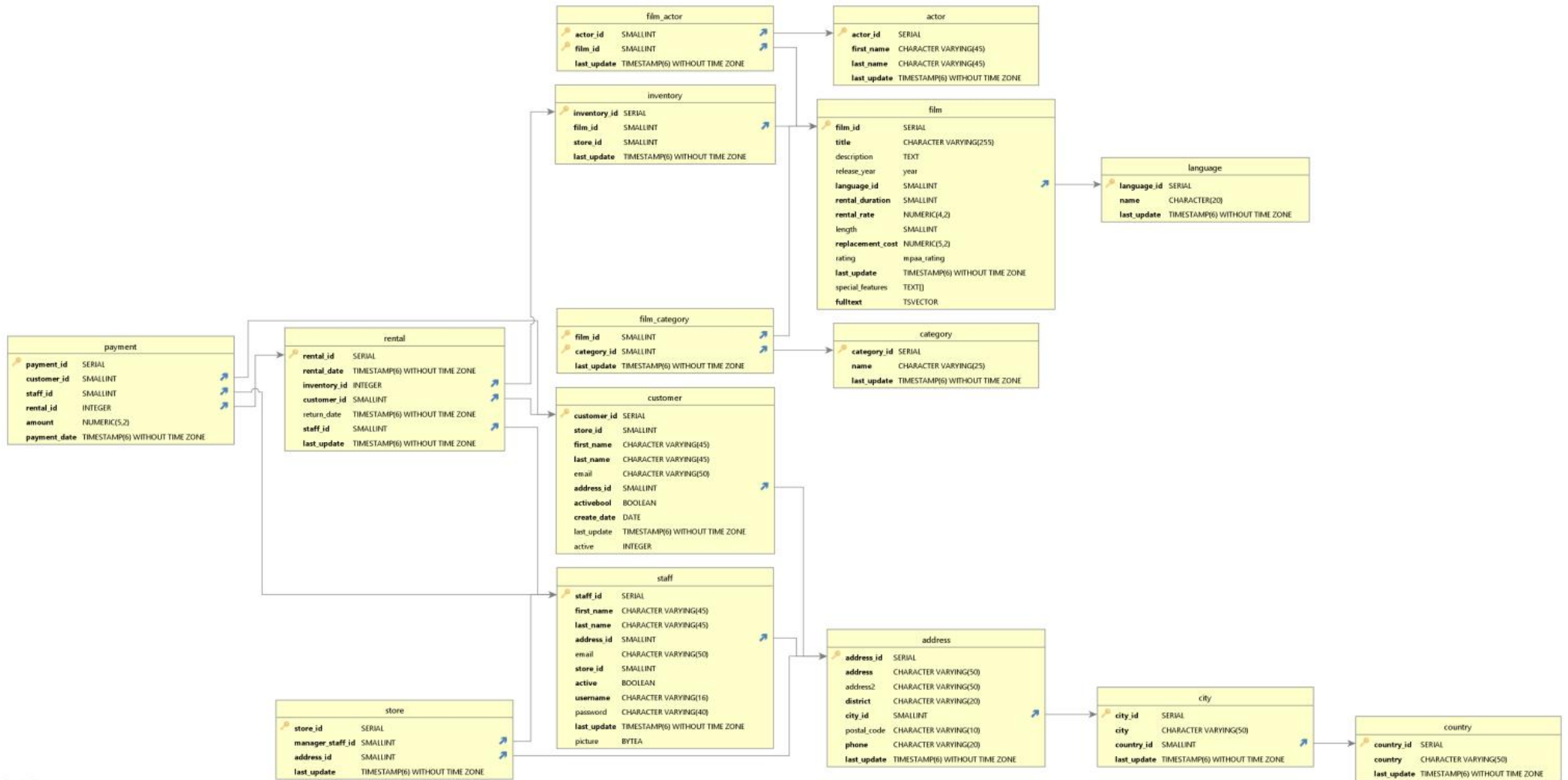


Table of Contents

1	Entity Relationship Diagram	2
2	Legend	3
3	Fact Tables	
3.1	payment	3
3.2	rental	3
4	Dimension Tables	
4.1	store	4
4.2	customer	4
4.3	staff	5
4.4	address	5
4.5	city	6
4.6	country	6
4.7	inventory	6
4.8	film	7
4.9	film_actor	7
4.10	actor	7
4.11	film_category	8
4.12	category	8
4.13	language	8

Entity Relationship Diagram



2 Legend:

Primary Key

Foreign Key

3 Fact Tables:

3.1 payment

Columns	Data Type	Description	Links to:
payment_id	SERIAL	Primary key, unique serial number for each transaction	
customer_id	SMALLINT	Foreign key linking to unique id numbers for each customer	customer, rental
staff_id	SMALLINT	Foreign key linking to unique id numbers for each employee	staff, rental, store
rental_id	INTEGER	Foreign key linking to unique id number for each rental transaction	rental
amount	NUMERIC(5,2)	Amount of transaction with two decimal places	
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the transaction	

3.2 rental

Columns	Data Type	Description	Links to:
rental_id	SERIAL	Primary key, unique serial number for each rental transaction	payment
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the rental	
inventory_id	INTEGER	Foreign key linking to unique id number for each rental movie	inventory
customer_id	SMALLINT	Foreign key linking to unique id numbers for each customer	customer
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time that the movie rental is due back	
staff_id	SMALLINT	Foreign key linking to unique id numbers for each employee	staff, payment, store
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated	

4 Dimension Tables:

4.1 store

Columns	Data Type	Description	Links to:
store_id	SERIAL	Primary key, unique serial number given to each store	staff, customer
manager_staff_id	SMALLINT	Foreign key linking to unique id number for each store manager	staff, rental, payment
address_id	SMALLINT	Foreign key linking to unique id number for each store's address	staff, address
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated	

4.2 customer

Columns	Data Type	Description	Links to:
customer_id	SERIAL	Primary key, unique serial number for each customer	payment, rental
store_id	SMALLINT	Foreign key linking to unique id number for each store (that customer registered at)	store, inventory
first_name	CHARACTER VARYING(45)	First name of the customer, up to 45 characters	
last_name	CHARACTER VARYING(45)	Last name of each customer, up to 45 characters	
email	CHARACTER VARYING(50)	Customer's e-mail address, up to 50 characters	
address_id	SMALLINT	Foreign key linking to unique id number for each customer's address	address
activebool	BOOLEAN	TRUE or FALSE value about if customer is active or not	
create_date	DATE	Date that the customer was registered in the store's system	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated	
active	INTEGER	Whether the customer is still active or not	

4.3

staff

Columns	Data Type	Description	Links to:
staff_id	SERIAL	Primary key, unique serial number for each store staff	store, rental, payment
first_name	CHARACTER VARYING(45)	First name of the staff, up to 45 characters	
last_name	CHARACTER VARYING(45)	Last name of the staff, up to 45 characters	
address_id	SMALLINT	Foreign key linking to unique id number for each staff's address	address
email	CHARACTER VARYING(50)	Customer's e-mail address, up to 50 characters	
store_id	SMALLINT	Foreign key linking to unique id number for each store (identifies which store this staff is working at)	store, inventory, customer
active	BOOLEAN	TRUE or FALSE value about if staff is still working or not	
username	CHARACTER VARYING(16)	Staff's username in store computer system (16 chars max)	
password	CHARACTER VARYING(40)	Staff's system password for store computer systems (they should not be storing these unencrypted in a database like this)	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated	
picture	BYTEA	A picture of the staff member	

4.4

address

Columns	Data Type	Description	Links to:
address_id	SERIAL	Unique serial number assigned to each address stored in the system	staff, store, customer,
address	CHARACTER VARYING(50)	First line of street address	
address2	CHARACTER VARYING(50)	Second (possible) line of street address	
district	CHARACTER VARYING(20)	District that the address is located in (where applicable)	
city_id	SMALLINT	Foreign key linking to unique id number for each city	city
postal_code	CHARACTER VARYING(10)	Zip code for sending mail	
phone	CHARACTER VARYING(20)	Phone number associated with this address	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated	

4.5

city

Columns	Data Type	Description	Links to:
city_id	SERIAL	Primary key, unique serial number given to each city	address
city	CHARACTER VARYING(50)	Name of city	
country_id	SMALLINT	Foreign key linking to unique id number for each country	country
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated	

4.6

country

Columns	Data Type	Description	Links to:
country_id	SERIAL	Primary key, unique serial number given to each country	city
country	CHARACTER VARYING(50)	Name of country	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated	

4.7

inventory

Columns	Data Type	Description	Links to:
inventory_id	SERIAL	Primary key, unique serial number given to each piece of inventory in the store	rental
film_id	SMALLINT	foreign key linking to unique id number given to each movie	film_actor, film, film_category
store_id	SMALLINT	Foreign key linking to unique id number for each store	store, customer, staff
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated	

4.8

film

Columns	Data Type	Description	Links to:
film_id	SERIAL	Primary key, unique serial number given to each movie	inventory, film_actor, film_category
title	CHARACTER VARYING(255)	Name of the movie, up to 255 characters	
description	TEXT	Short description of the movie	
release_year	year	Year the movie was released	
language_id	SMALLINT	Foreign key linking to unique id number for each language that the movie is in	language
rental_duration	SMALLINT	Number of days for the movie's rental period	
rental_rate	NUMERIC(4,2)	Cost to rent the movie (with 2 decimal places)	
length	SMALLINT	Number of minutes of the movie length	
replacement_cost	NUMERIC(5,2)	Cost to replace the movie if customer doesn't return it	
rating	Mpaa_rating	Movie content rating (e.g. G, PG, PG-13, etc)	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated	
special_features	TEXT[]	What type of special features the movie has, chosen from pre-selected categories	
fulltext	TSVECTOR	Multiple tags for the movie, somehow rearranged from the title of the movie	

4.9

film_actor

Columns	Data Type	Description	Links to:
actor_id	SMALLINT	Composite key, unique serial number given to each actor	actor
film_id	SMALLINT	Composite key, unique serial number given to each movie	film, inventory, film_category
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated	

4.10

actor

Columns	Data Type	Description	Links to:
actor_id	SERIAL	Primary key, unique serial number given to each actor	film_actor
first_name	CHARACTER VARYING(45)	First name of the actor, up to 45 characters	
last_name	CHARACTER VARYING(45)	Last name of each actor, up to 45 characters	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated	

4.11

film_category

Columns	Data Type	Description	Links to:
film_id	SMALLINT	Composite key, unique serial number given to each movie	film_actor, film_category, inventory, film
category_id	SMALLINT	Composite key, unique serial number given to each genre	category
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated	

4.12

category

Columns	Data Type	Description	Links to:
category_id	SERIAL	Primary key, unique serial number given to each genre	film_category
name	CHARACTER VARYING(25)	Name of movie genre (up to 25 characters)	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated	

4.13

language

Columns	Data Type	Description	Links to:
language_id	SERIAL	Primary key, unique serial number given to each language spoken	film
name	CHARACTER(20)	Name of language	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the record was last updated	