ROCKBUSTER STEALTH

Data Dictionary

3.24.23

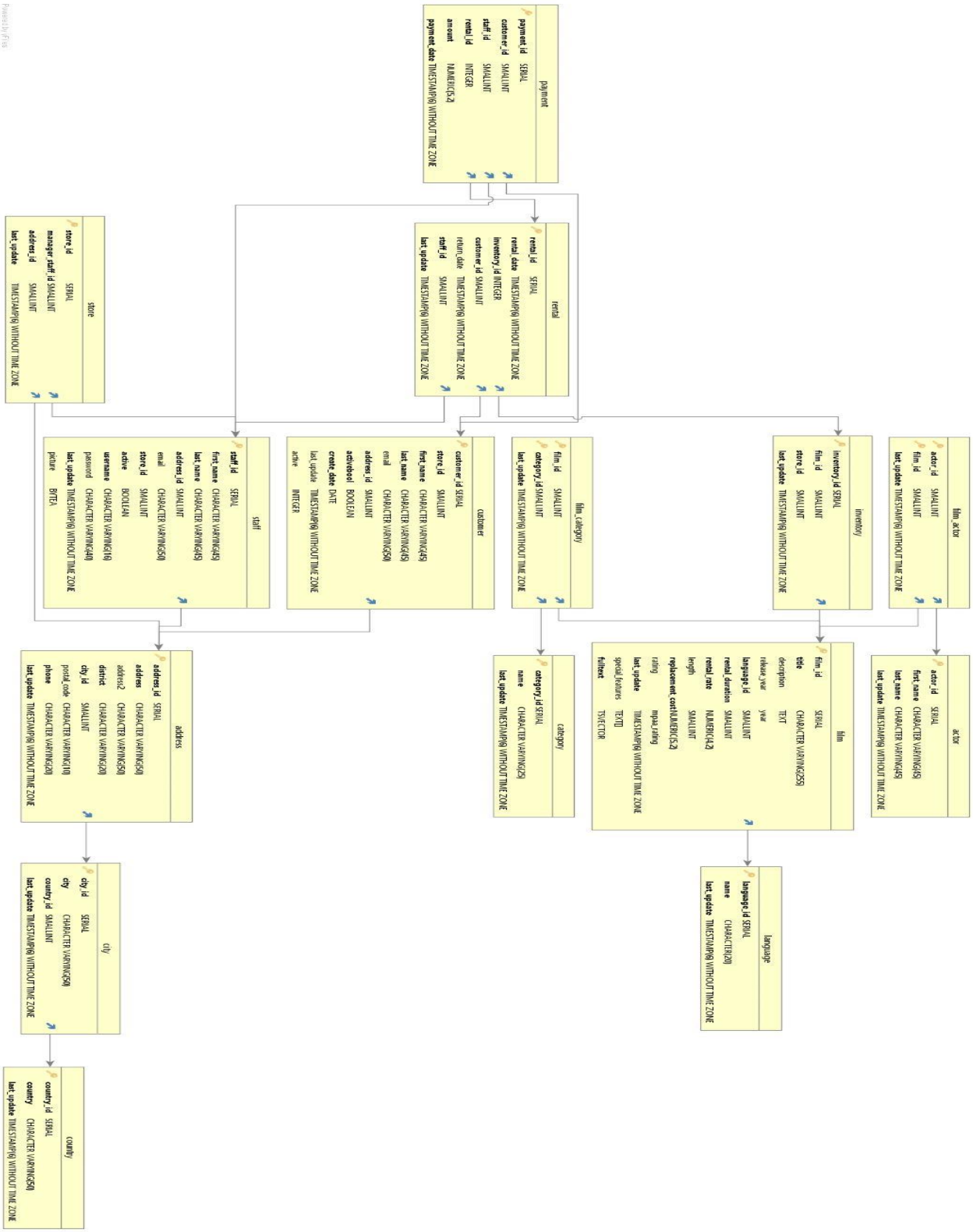
Danielle Sadler
dsadler@rockbuster.com

Table of Contents

1. Rockbuster Stealth

The Rockbuster Stealth database supports standard online transaction processing scenarios for a fictitious movie rental company. The company has had brick-and-mortar video rental locations around the world and is in the process of developing an online streaming service using their existing video licenses. Scenarios include Human Resources, Marketing, Sales, and Product Management.

2. Entity Relationship Diagram

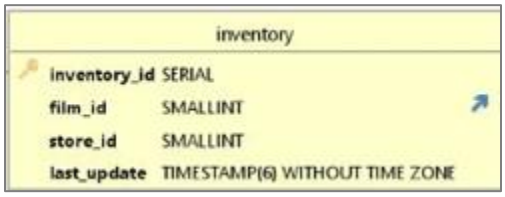


3. Tables

3.1 Inventory Tables

3.1.1 inventory

Inventory information for each film and its corresponding store.



	Columns	Data Type	Description
	inventory_id	SERIAL	ID number given to identify unique **inventory** records
	film_id	SMALLINT	ID number given to identify unique **film** records
	store_id	SMALLINT	ID number given to identify unique **store** records
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time stamp when the data was last updated, YYYYMMDD HHMMSS format without time zone

Links to

Table	Join
film	film_id.inventory = film_id.film

Linked from

Table	Join
rental	inventory_id.inventory = inventory_id.rental
store	

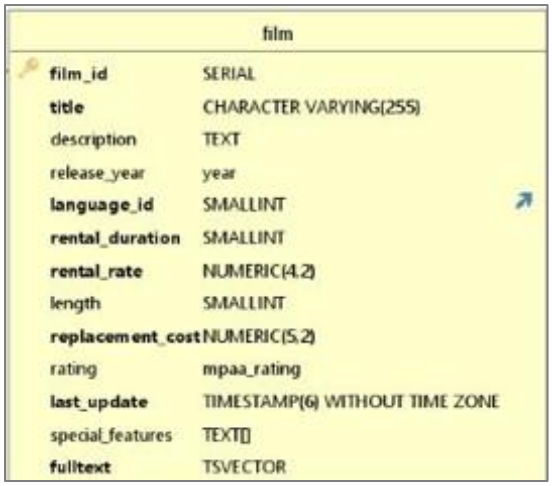
Unique Keys

	Columns	Name/ Description
	inventory_id	Primary key for **inventory**, foreign key for **rental**

	film_id	Foreign key for **inventory**, primary key for **film**
	store_id	Foreign key for **inventory**, primary key for **store**

3.1.2 film

Film description information for each film in inventory.



	Columns	Data Type	Description
	film_id	SERIAL	ID number given to identify unique **film** records
	title	CHARACTER VARYING(255)	Title of movie with this ID
	description	TEXT	Movie plot description
	release_year	year	Year the movie was released
	language_id	SMALLINT	ID number given to identify unique **language** records
	rental_duration	SMALLINT	Length of time movie rented
	rental_rate	NUMERIC(4,2)	Cost for movie rental
	length	SMALLINT	Length of time in minutes
	replacement_cost	NUMERIC(5,2)	Cost of replacing movie in USD
	rating	mpaa_rating	Movie rating

	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time stamp when the data was last updated, YYYYMMDD HHMMSS format without time zone
	special_features	TEXTJJ	Additional features of the movie: for example, trailers and deleted scenes
	fulltext	TSVECTOR	Text terms for searching in full-text database

Links to

Table	Join
language	language_id.film = language_id.language

Linked from

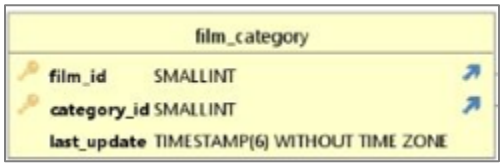
Table	Join
inventory	film_id.film = film_id.inventory
film_actor	film_id.film = film_id.film_actor
film_category	film_id.film = film_id.film_category

Unique Keys

	Columns	Name/ Description
	inventory_id	Primary key for **inventory**, foreign key for **rental**
	film_id	Foreign key for **inventory**, primary key for **film**
	store_id	Foreign key for **inventory**, primary key for **store**

3.1.3 film_category

Table linking each film to corresponding genre information.



	Columns	Data Type	Description

	film_id	SMALLINT	ID number given to identify unique **film** records
	category_id	SMALLINT	ID number given to identify unique **category** records
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time stamp when the data was last updated, YYYYMMDD HHMMSS format without time zone

Links to

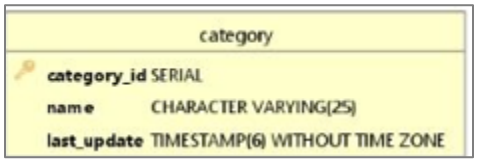
Table	Join
film	film_id.film_category = film_id.film
category	category_id.film_category = category_id.category

Unique Keys

	Columns	Name/ Description
	film_id	Combined primary key for **film_category**, primary key for **film**
	category_id	Combined primary key for **film_category**, primary key for **category**,

3.1.4 category

Information on the genres of each film category.



	Columns	Data Type	Description
	category_id	SERIAL	ID number given to identify unique **category** records
	name	CHARACTER VARYING (25)	Name of category of movie
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time stamp when the data was last updated, YYYYMMDD HHMMSS format without time zone

Links from

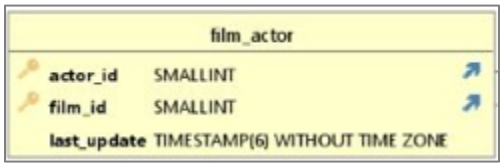
Table	Join
film_category	category_id.category = category_id.film_category

Unique Keys

	Columns	Name/ Description
	category_id	Primary key for **category**, combined primary key for **film_category**

3.1.5 film_actor

Table linking the actors to each of the films in inventory.



	Columns	Data Type	Description
	actor_id	SMALLINT	ID number given to identify unique **actor** records
	film_id	SMALLINT	ID number given to identify unique **film** records
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time stamp when the data was last updated, YYYYMMDD HHMMSS format without time zone

Links to

Table	Join
actor	actor_id.film_actor = actor_id.actor
film	film_id.film_actor = film_id.film

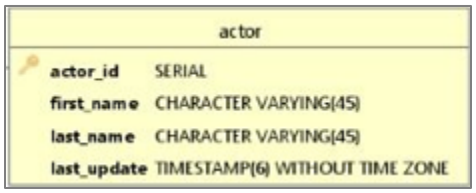
Unique Keys

	Columns	Name/ Description

	actor_id	Combined primary key for **film_actor**, primary key for **actor**
	film_id	Combined primary key for **film_actor**, primary key for **film**

3.1.6 actor

Information on the actors in each of the films in inventory.



	Columns	Data Type	Description
	actor_id	SERIAL	ID number given to identify unique **actor** records
	first_name	CHARACTER VARYING(45)	First name of actor with this ID
	last_name	CHARACTER VARYING(45)	Last name of actor with this ID
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time stamp when the data was last updated, YYYYMMDD HHMMSS format without time zone

Links from

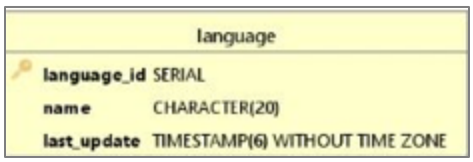
Table	Join
actor	actor_id.actor = actor_id.film_actor

Unique Keys

	Columns	Name/ Description
	actor_id	Primary key for **actor,** combined primary key for **film_actor**

3.1.7 language

Table providing language information for each of the films.



	Columns	Data Type	Description
	language_id	SERIAL	ID number given to identify unique **language** records
	name	CHARACTER (20)	Name of language of movie
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time stamp when the data was last updated, YYYYMMDD HHMMSS format without time zone

Links from

Table	Join
film	language_id.language = language_id.film

Unique Keys

	Columns	Name/ Description
	language_id	Primary key for language**,** foreign key for **film**

3.1.8 store

Table listing manager and address information for each store.

	Columns	Data Type	Description
	store_id	SERIAL	ID number given to identify unique **store** records
	manager_staff_id	SMALLINT	ID number given to identify unique manager records

	address_id	SMALLINT	ID number given to identify unique **address** records
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time stamp when the data was last updated, YYYYMMDD HHMMSS format without time zone

Links to

Table	Join
inventory	store_id.store = store_id.inventory
address	address_id.story = address_id.address

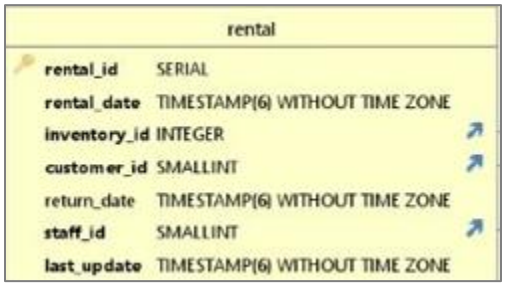
Unique Keys

	Columns	Name/ Description
	store_id	Primary key for **store**, foreign key for **inventory**
	address_id	Foreign key for **store**, primary key for **address**

3.2 Rental Tables

3.2.1 rental

Table with information on each rental transaction, including dates, customer, and inventory.



	Columns	Data Type	Description
	rental_id	SERIAL	ID number given to identify unique **rental** records
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Time stamp when the movie rental began, YYYYMMDD HHMMSS format without time zone

	inventory_id	INTEGER	ID number given to identify unique **inventory** records
	customer_id	SMALLINT	ID number given to identify unique **customer** records
	return_date		Time stamp when the movie was returned, YYYYMMDD HHMMSS format without time zone
	staff_id	SMALLINT	ID number given to identify unique **staff** records
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time stamp when the data was last updated, YYYYMMDD HHMMSS format without time zone

Links to

Table	Join
inventory	rental_id.rental = rental_id.inventory
customer	customer_id.rental = customer_id.customer
staff	staff_id.rental = staff_id.staff

Linked from

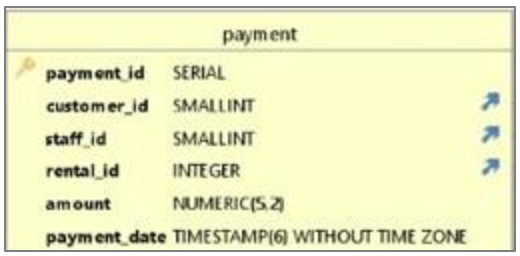
Table	Join
payment	rental_id.rental = rental_id.payment

Unique Keys

	Columns	Name/ Description
	rental_id	Primary key for **rental**, foreign key for **payment**
	inventory_id	Foreign key for **rental**, primary key for **inventory**
	customer_id	Foreign key for **rental**, primary key for **customer**
	staff_id	Foreign key for **rental**, primary key for **staff**

3.2.2 payment

Table providing payment information on each rental transaction, including staff, customer, and amount of payment.



	Columns	Data Type	Description
	payment_id	SERIAL	ID number given to identify unique **payment** records
	customer_id	SMALLINT	ID number given to identify unique **customer** records
	staff_id	SMALLINT	ID number given to identify unique **staff** records
	rental_id	INTEGER	ID number given to identify unique **rental** records
	amount	NUMERIC(5,2)	Amount of payment in USD
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time stamp when the data was last updated, YYYYMMDD HHMMSS format without time zone

Links to

Table	Join
rental	rental_id.payment = rental_id.rental
customer	customer_id.payment= customer_id.customer
staff	staff_id.pament= staff_id.staff

Unique Keys

	Columns	Name/ Description
	payment_id	Primary key for **payment**
	customer_id	Foreign key for **payment**, primary key for **customer**
	staff_id	Foreign key for **payment**, primary key for **staff**

	rental_id	Foreign key for **payment**, primary key for **rental**

3.3 People Tables

3.3.1 customer

Summary of customer information with names, address, and account details.

	Columns	Data Type	Description
	customer_id	SERIAL	ID number given to identify unique **customer** records
	store_id	SMALLINT	ID number given to identify unique **store** records
	first_name	CHARACTER VARYING(45)	First name of customer with this ID number
	last_name	CHARACTER VARYING(45)	Last name of customer with this ID number
	email	CHARACTER VARYING(45)	Email of customer with this ID number
	address_id	SMALLINT	Unique ID number given to address for customer with this ID number; foreign key to connect to primary key of dimension table
	activebool	BOOLEAN	True or false indicator of whether the customer is active or not
	create_date	DATE	Date the account was created
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time stamp when the data was last updated, YYYYMMDD HHMMSS format without time zone
	active	INTEGER	Numerical indicator of whether the customer is active or not

Links to

Table	Join
address	address_id.customer = address_id.address

Linked from

Table	Join
store	store_id.customer = store_id.store

Unique Keys

	Columns	Name/ Description
	customer_id	Primary key for **customer**
	address_id	Foreign key for **customer**, primary key for **address**
	store_id	Foreign key for **customer**, primary key for **store**

3.3.2 staff

Summary of staff information including names, store, email, and account information.

	Columns	Data Type	Description
	staff_id	SERIAL	ID number given to identify unique **staff** records
	first_name	CHARACTER VARYING(45)	First name of staff member with this ID number

	last_name	CHARACTER VARYING(45)	Last name of staff member with this ID number
	address_id	SMALLINT	ID number given to identify unique **address** records
	email	CHARACTER VARYING(45)	Email of staff member with this ID number
	store_id	SMALLINT	ID number given to identify unique **store** records
	active	INTEGER	Numerical indicator of whether the staff member is active or not
	username	CHARACTER VARYING(45)	Staff member's computer username
	password	CHARACTER VARYING(45)	Staff member's computer password
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time stamp when the data was last updated, YYYYMMDD HHMMSS format without time zone
	picture	BYTEA	Photo of staff member with this ID number

Links to

Table	Join
address	address_id.staff = address_id.address

Linked from

Table	Join
store	store_id.staff = store_id.store

Unique Keys

	Columns	Name/ Description
	staff_id	Primary key for **staff**
	address_id	Foreign key for **staff**, primary key for **address**
	store_id	Foreign key for **staff**, primary key for **store**

3.3.3 address

Summary of address details for customers and staff.

	Columns	Data Type	Description
	address_id	SERIAL	ID number given to identify unique **address** records
	address	CHARACTER VARYING(50)	Street address
	address2	CHARACTER VARYING(50)	Second line of street address
	district	CHARACTER VARYING(50)	Sales district
	city_id	SMALLINT	ID number given to identify unique **city** records
	postal_code	CHARACTER VARYING (10)	Zip code
	phone	CHARACTER VARYING (20)	Phone number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time stamp when the data was last updated, YYYYMMDD HHMMSS format without time zone

Linked from

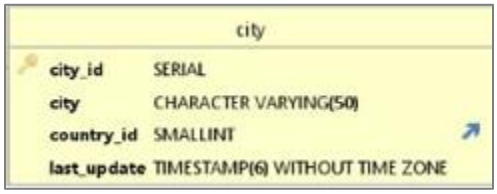
Table	Join
store	address_id.address = address_id.store
customer	address_id.address = address_id.customer
staff	address_id.address = address_id.staff

Unique Keys

	Columns	Name/ Description
	address_id	Primary key for **address**
	city_id	Foreign key for **address**, primary key for **city**

3.3.4 city

Summary of cities to link addresses to countries.



	Columns	Data Type	Description
	city_id	SERIAL	ID number given to identify unique **city** records
	city	CHARACTER VARYING (50)	City
	country_id	SMALLINT	Unique country identifier
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time stamp when the data was last updated, YYYYMMDD HHMMSS format without time zone

Links to

Table	Join
country	country_id.city = country_id.country

Linked from

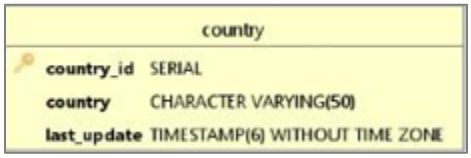
Table	Join
address	city_id.city = city_id.address

Unique Keys

	Columns	Name/ Description
	city_id	Primary key for **city**
	country_id	Foreign key for **city**, primary key for **country**

3.3.5 country

Summary of countries for customer and staff addresses.



	Columns	Data Type	Description
	country_id	SERIAL	ID number given to identify unique **country** records
	country	CHARACTER VARYING (50)	Country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time stamp when the data was last updated, YYYYMMDD HHMMSS format without time zone

Linked from

Table	Join
city	country_id.country = country_id.city

Unique Keys

	Columns	Name/ Description
	country_id	Primary key for **country**