ROCKBUSTER STEALTH DATA DICTIONARY

Table of Contents 1

Rockbuster Stealth

Introduction: This document will serve as a reference as a Data Dictionary for Rockbuster Stealth LLC SQL Database.

Data Set

This document is based off the Rockbuster Stealth's data set for multiple tables.

Entity Relationship Diagram

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

Powered by yFiles

3

Legend

Legend	
🔑	Primary Key
🗝️	Foreign Key

Fact Tables

a. Payment

Name	Data Type	Description
🔑 payment_id	Serial	Unique Key for Payment Table.
🔍 customer_id	Smallint	Unique Key for Customer Table.
🔍 staff_id	Smallint	Unique Key for Staff Table.
🔍 rental_id	Integer	Unique Key for Rental Table.
amount	Numeric (5,2)	Transaction Amount.
payment_date	Timestamp (6) w/o Time Zone	Transaction Date.

Links To:

- Customer Table on payment.customer_id = customer.customer.id
- Staff Table on payment.staff.id = staff.staff.id
- Rental Table on payment.rental_id = rental.rental_id

b. Rental

Name	Data Type	Description
🔑 rental_id	Serial	Unique Key for Rental Table.
rental_date	Timestamp (6) w/o Time Zone	Date of Rental.
🔍 inventory_id	Integer	Unique Key for Inventory Table.
🔍 customer_id	Smallint	Unique Key for Customer Table.
return_date	Timestamp (6) w/o Time Zone	Date of Return.
🔍 staff_id	Smallint	Unique Key for Staff Table.
last_update	Timestamp (6) w/o Time Zone	Last Update.

Links To:

- Inventory Table on rental.inventory_id = inventory.inventory_id
- Customer Table on rental.customer_id = customer.rental_id
- Staff Table on rental.staff_id = staff.staff_id

Dimension Tables

a. Store

Name	Data Type	Description
🔑 store_id	Serial	Unique Key for Store Table.
🔑 manager_staff_id	Smallint	Unique Key of Manager for Staff Table.
🔑 address_id	Smallint	Unique Key for Adress Table.
last_update	Timestamp (6) w/o Time Zone	Last Update date.

Links To:

- Address Table on store.address_id = address.address_id
- Staff Table on store.staff_id = staff.staff_id

b. Staff

Name	Data Type	Description
staff_id	Serial	Unique Key for Staff Table.
first_name	Character Varying(45)	First name of Staff.
last_name	Character Varying(45)	Last name of Staff.
address_id	Smallint	Unique Key for Address Table.
email	Character Varying(50)	Email of Staff.
store_id	Smallint	Unique Key for Store Table.
active	Boolean	Is staff Active - True or False.
username	Character Varying(16)	Username of Staff.
password	Character Varying(40)	Password of Staff.
last_update	Timestamp (6) w/o Time Zone	Last update date.
picture	BYTEA	Picture of Staff.

Links To:

- Address Table staff.address_id = address.address_id

Links From:

- Rental Table on rental.staff_id = staff.staff.id
- Store Table on store.manager_staff_id = staff.staff_id
- Payment Table on payment.staff_id = staff.staff_id

c. Address

Name	Data Type	Description
address_id	Serial	Unique Key of Address Table.
address	Character Varying(50)	Primary Address.
address2	Character Varying(50)	Secondary Address.
district	Character Varying(20)	Name of District.
city_id	Smallint	Name of City.
postal_code	Character Varying(10)	Postal Code of City.
phone	Character Varying(20)	Phone Number.
last_update	Timestamp (6) w/o Time Zone	Last Update date.

Links To:

- City Table on address.city_id = city.city_id

Links From:

- Store Table on store.address_id = address.address_id
- Staff Table on staff.address_id = address.address_id
- Customer Table on customer.address_id = address.address_id

d. City

Name	Data Type	Description
city_id	Serial	Unique Key for City Table.
city	Character Varying(50)	City Name.
country_id	Smallint	Unique Key for Country Table.
last_update	Timestamp (6) w/o Time Zone	Last Update date.

Links To:

- Country Table on city.country_id = country.country_id

Links From:

- Address Table on address.city_id = city.city_id

e. Country

Name	Data Type	Description
🔑 country_id	Serial	Unique Key for Country Table.
country_name	Character Varying(50)	Country Name.
last_update	Timestamp (6) w/o Time Zone	Last Update date.

Links From:

- City Table on city.country_id = country.country_id

f. Customer

Name	Data Type	Description
🔑 customer_id	Serial	Unique Key for Customer Table.
🗝 store_id	Smallint	Unique Key for Store Table.
first_name	Character Varying(45)	Customer First Name.
last_name	Character Varying(50)	Customer Last Name.
email	Character Varying(50)	Customer Email.
🗝 address_id	Smallint	Unique Key for Address Table.
activebool	Boolean	Is Customer Active - True or False.
create_date	Date	Date of Customer Creation.
activebool	Integer	Is Customer Active - Integer form.
last_update	Timestamp (6) w/o Time Zone	Last Update date.

Links To:

- Address Table on customer.address_id = address.address_id

Links From:

- Rental Table on rental.customer_id = customer.customer_id
- Payment Table on payment.customer_id = customer.customer_id

g. Film

Name	Data Type	Description
film_id	Serial	Unique Key for Payment Table.
title	Character Varying(45)	Title of Film.
description	TEXT	Description of Film.
release_year	Year	Release Year of Film.
language_id	Smallint	Unique Key for Payment Table.
rental_duration	Smallint	Rental Duration of Film.
rental_rate	Numeric(4,2)	Rental Rate of Film.
length	Smallint	Length of Film.
replacement_cost	Numeric(5,2)	Replacement Cost of Film.
rating	MPAA_Rating	Rating of Film.
last_update	Timestamp (6) w/o Time Zone	Last Update date.
special_features	Text[]	Special Features of Film.
fulltext	TSVECTOR	Tags Related to Film.

Links To:

- Language Table on film.language_id = language.language_id

Links From:

- Inventory Table on inventory.film_id = film.film_id
- Film_actor Table on film_actor.film_id = film.film_id
- Film_category Table on film_category.film_id = film.film_id

h. Film_actor

Name	Data Type	Description
actor_id	Smallint	Unique Key for Actor Table.
film_id	Smallint	Unique Key for Film Table.
last_update	Timestamp (6) w/o Time Zone	Last Update date.

Links To:

- Actor Table on film_actor.actor_id = actor.actor_id
- Film Table on film_actor.film_id = film.film_id

i. Actor

Name	Data Type	Description
actor_id	Serial	Unique Key for Actor Table.
first_name	Charcter Varying(45)	First Name of Actor.
last_name	Charcter Varying(45)	Last Name of Actor.
last_update	Timestamp (6) w/o Time Zone	Last Update date.

Links From:

- Film_actor Table on film_actor.actor_id = actor.actor_id

j. Language

	Name	Data Type	Description
🔑	inventory_id	Serial	Unique Key for Inventory Table.
🔑	film_id	Smallint	Unique Key for Film Table.
🔑	store_id	Smallint	Unique Key for Store Table.
	last_update	Timestamp (6) w/o Time Zone	Last Update date.

Links From:

- Film Table on film.language_id = language.language_id

k. Inventory

	Name	Data Type	Description
🔑	inventory_id	Serial	Unique Key for Inventory Table.
🔑	film_id	Smallint	Unique Key for Film Table.
🔑	store_id	Smallint	Unique Key for Store Table.
	last_update	Timestamp (6) w/o Time Zone	Last Update date.

Links To:

- Film Table on inventory.film_id = film.film_id

Links From:

- Rental Table on rental.inventory_id = inventory.inventory_id

l. Category

Name	Data Type	Description
category_id	Serial	Unique Key for Category Table.
name	Character Varying(25)	Name of Category.
last_update	Timestamp (6) w/o Time Zone	Last Update date.

Links From:

- Film_category Table on film_category.category_id = category.category_id

m. Film Category

Name	Data Type	Description
film_id	Smallint	Unique Key for Film Table.
category_id	Smallint	Unique Key for Category Table.
last_update	Timestamp (6) w/o Time Zone	Last Update date.

Links To:

- Film Table on film_category_id = film.film_id
- Category Table on film_category.category_id = category.category_id