ROCKBUSTER STEALTH LLC DATA DICTIONARY
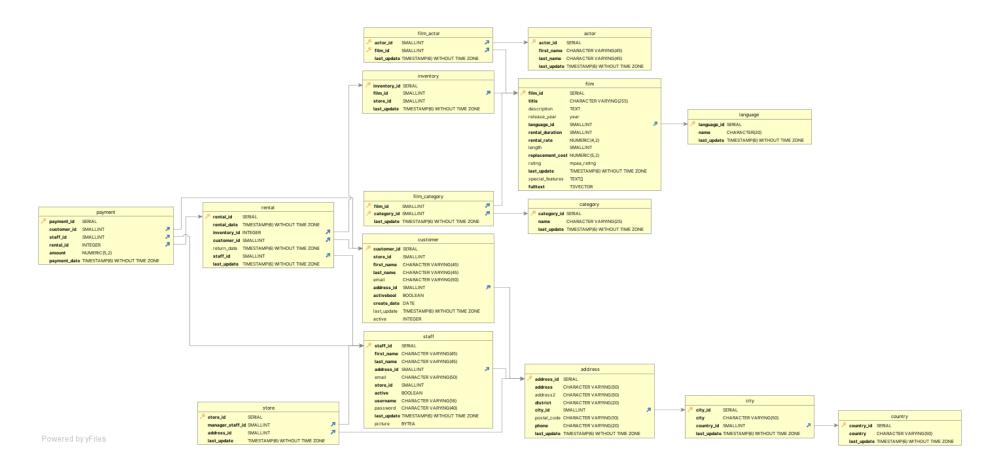
Done by: Ang Wei Jie

Contents

1. Entity Relationship Diagram (ERD)

2. Fact Tables

2.1 Payment

Columns	Data Type	Description
payment_id	SERIAL	Unique id for payment, primary key for payment table.
customer_id	SMALLINT	Unique id for customer identification, foreign key that links to customer table.
staff_id	SMALLINT	Unique id for staff identification, foreign key that links to staff table.
rental_id	INTEGER	Unique id for rental transaction identification, foreign key that links to rental table.
amount	NUMERIC (5,2)	Amount paid by customer for rental transaction, 5 numeric digits which contains 2 decimals.
payment_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date of payment transaction.

Unique Key	Primary Key / Foreign Key	Links To	Links From
payment_id	Primary Key		
customer_id	Foreign Key	customer.customer_id	
staff_id	Foreign Key	staff.staff_id	
rental_id	Foreign Key	rental.rental_id	

2.2 Rental

Columns	Data Type	Description
rental_id	SERIAL	Unique id for rental transaction, primary key for rental table.
rental_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date of rental transaction.
inventory_id	INTEGER	Unique id for Inventory, foreign key that links to inventory table.
customer_id	SMALLINT	Unique id for customer identification, foreign key that links to customer table.
return_date	TIMESTAMP (6) WITHOUT TIME ZONE	Return date of rental transaction.
staff_id	SMALLINT	Unique id for staff identification, foreign key that links to staff table.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last update date for transaction record.

Unique Key	Primary Key / Foreign Key	Links To	Links From
rental_id	Primary Key		payment.rental_id
inventory_id	Foreign Key	Inventory.inventory_id	
customer_id	Foreign Key	customer.customer_id	
staff_id	Foreign Key	staff.staff_id	

3. Dimension Tables

3.1 Store

Columns	Data Type	Description
store_id	SERIAL	Unique id for store identification, candidate key for store table.
manager_staff_id	SMALLINT	Unique id for manager staff identification, foreign key that links to staff table.
address_id	SMALLINT	Unique id for address of store, foreign key that links to address table.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last update date for transaction record.

Unique Key	Primary Key / Foreign Key	Links To	Links From
store_id	Primary Key		
manager_staff_id	Foreign Key	staff.staff_id	
address_id	Foreign Key	address.address_id	

3.2 Film_actor

Columns	Data Type	Description
actor_id	SMALLINT	Unique id for actor identification, foreign key that links to actor table.
film_id	SMALLINT	Unique id for film identification, foreign key that links to film table.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last update date for transaction record.

Unique Key	Primary Key / Foreign Key	Links To	Links From
actor_id	Primary Key, Foreign Key	actor.actor_id	
film_id	Primary Key, Foreign Key	film.film_id	

3.3 Inventory

Columns	Data Type	Description
inventory_id	SERIAL	Unique id for inventory identification, primary key for inventory table.
film_id	SMALLINT	Unique id for film identification, foreign key that links to film table.
store_id	SMALLINT	Unique id for store identification, foreign key that links to store table.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last update date for transaction record.

Unique Key	Primary Key / Foreign Key	Links To	Links From
inventory_id	Primary Key		rental.inventory_id
film_id	Foreign Key	film.film_id	

3.4 Film_category

Columns	Data Type	Description
film_id	SMALLINT	Unique id for film identification, foreign key that links to film table.
category_id	SMALLINT	Unique id for film category identification, foreign key that links to category table.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last update date for transaction record.

Unique Key	Primary Key / Foreign Key	Links To	Links From
film_id	Primary Key, Foreign Key	film.film_id	
category_id	Primary Key, Foreign Key	category.category_id	

3.5 Customer

Columns	Data Type	Description
customer_id	SERIAL	Unique id for customer identification, primary key for customer table.
store_id	SMALLINT	Unique id for store identification, foreign key that links to store table.
first_name	CHARACTER VARYING (45)	Customer first name, can contain up to 45 maximum characters.
last_name	CHARACTER VARYING (45)	Customer last name, can contain up to 45 maximum characters.
email	CHARACTER VARYING (50)	Customer email, can contain up to 50 maximum characters.
address_id	SMALLINT	Unique id for customer address, foreign key that links to address table.
activebool	BOOLEAN	True or false value for customer account status.
create_date	DATE	Creation date for customer account.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last update date for transaction record.
active	INTEGER	Integer value to indicate if the customer is active.

Unique Key	Primary Key / Foreign Key	Links To	Links From
customer_id	Primary Key		rental.customer_id, payment.customer_id
address_id	Foreign Key	address.address_id	

3.6 Staff

Columns	Data Type	Description
staff_id	SERIAL	Unique id for staff identification, primary key for staff table.
first_name	CHARACTER VARYING (45)	Staff first name, can contain up to 45 maximum characters.
last_name	CHARACTER VARYING (45)	Staff last name, can contain up to 45 maximum characters.
address_id	SMALLINT	Unique id for staff address, foreign key that links to address table.
email	CHARACTER VARYING (50)	Staff email, can contain up to 50 maximum characters.
store_id	SMALLINT	Unique id for store identification, foreign key that links to store table.
active	BOOLEAN	True of false value for staff account status.
username	CHARACTER VARYING (16)	Staff account username, can contain up to 16 maximum characters.
password	CHARACTER VARYING (40)	Staff account password, can contain up to 40 maximum characters.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last update date for transaction record.
picture	BYTEA	Image of staff.

Unique Key	Primary Key / Foreign Key	Links To	Links From
staff_id	Primary Key		payment.staff_id, rental.staff_id
address_id	Foreign Key	address.address_id	

3.7 Actor

Columns	Data Type	Description
actor_id	SERIAL	Unique id for actor, primary key for actor table.
first_name	CHARACTER VARYING (45)	Actor first name, can contain up to 45 maximum characters.
last_name	CHARACTER VARYING (45)	Actor last name, can contain up to 45 maximum characters.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last update date for transaction record.

Unique Key	Primary Key / Foreign Key	Links To	Links From
actor_id	Primary Key		film_actor.actor_id

3.8 Film

Columns	Data Type	Description
film_id	SERIAL	Unique id for film, primary key for film table.
title	CHARACTER VARYING (255)	Title of film, can contain up to 255 maximum characters.
description	TEXT	Short description for film.
release_year	year	Year of film release.
language_id	SMALLINT	Unique id for language of the film, foreign key that links to language table.
rental_duration	SMALLINT	Rental duration of film, in terms of number of days.
rental_rate	NUMERIC (4,2)	Rate of the film being rented out, 4 numeric digits which contains 2 decimals.
length	SMALLINT	Length of film.
replacement_cost	NUMERIC (5,2)	Cost to replace the film, 5 numeric digits which contains 2 decimals.
rating	mpaa_rating	Rating of film by Movie Picture Association.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last update date for transaction record.
special_features	TEXT[]	Extra information regarding the film features.
fulltext	TSVECTOR	Searchable word tag for the film.

Unique Key	Primary Key / Foreign Key	Links To	Links From
film_id	Primary Key		film_actor.film_id, inventory.film_id, film_category.film_id
language_id	Foreign Key	language.language_id	

3.9 Category

Columns	Data Type	Description
category_id	SERIAL	Unique id for film category identification, primary key for category table.
name	CHARACTER VARYING (25)	Name for film category, can contain up to 25 maximum characters.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last update date for transaction record.

Unique Key	Primary Key / Foreign Key	Links To	Links From
category_id	Primary Key		film_category.category_id

3.10 Address

Columns	Data Type	Description
address_id	SERIAL	Unique id for address identification, primary key for address table.
address	CHARACTER VARYING (50)	Line 1 for address, can contain up to 50 maximum characters.
address2	CHARACTER VARYING (50)	Line 2 for address, can contain up to 50 maximum characters.
district	CHARACTER VARYING (20)	District of the address, can contain up to 20 maximum characters.
city_id	SMALLINT	Unique id for city identification, foreign key that link to city table.
postal_code	CHARACTER VARYING (10)	Postal code for address, can contain up to 10 maximum characters.
phone	CHARACTER VARYING (20)	Phone number for address, can contain up to 20 maximum characters.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last update date for transaction record.

Unique Key	Primary Key / Foreign Key	Links To	Links From
address_id	Primary Key		customer.address_id, staff.address_id, store.address_id
city_id	Foreign Key	city.city_id	

3.11 Language

Columns	Data Type	Description
language_id	SERIAL	Unique id for language identification, primary key for language table.
name	CHARACTER VARYING (20)	Language name, can contain up to 20 maximum characters.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last update date for transaction record.

Unique Key	Primary Key / Foreign Key	Links To	Links From
language_id	Primary Key		film.language_id

3.12 City

Columns	Data Type	Description
city_id	SERIAL	Unique id for city identification, primary key for city table.
city	CHARACTER VARYING (50)	Name of city, can contain up to 50 maximum characters.
country_id	SMALLINT	Unique id for country identification, foreign key that links to country table.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last update date for transaction record.

Unique Key	Primary Key / Foreign Key	Links To	Links From
city_id	Primary Key		address.city_id
country_id	Foreign Key	country.country_id	

3.13 Country

Columns	Data Type	Description
country_id	SERIAL	Unique id for country identification, primary key for country table.
country	CHARACTER VARYING (50)	Name of country, can contain up to 50 maximum characters.
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last update date for transaction record.

Unique Key	Primary Key / Foreign Key	Links To	Links From
country_id	Primary Key		city.country_id