Rockbuster Stealth LLC

Data Dictionary
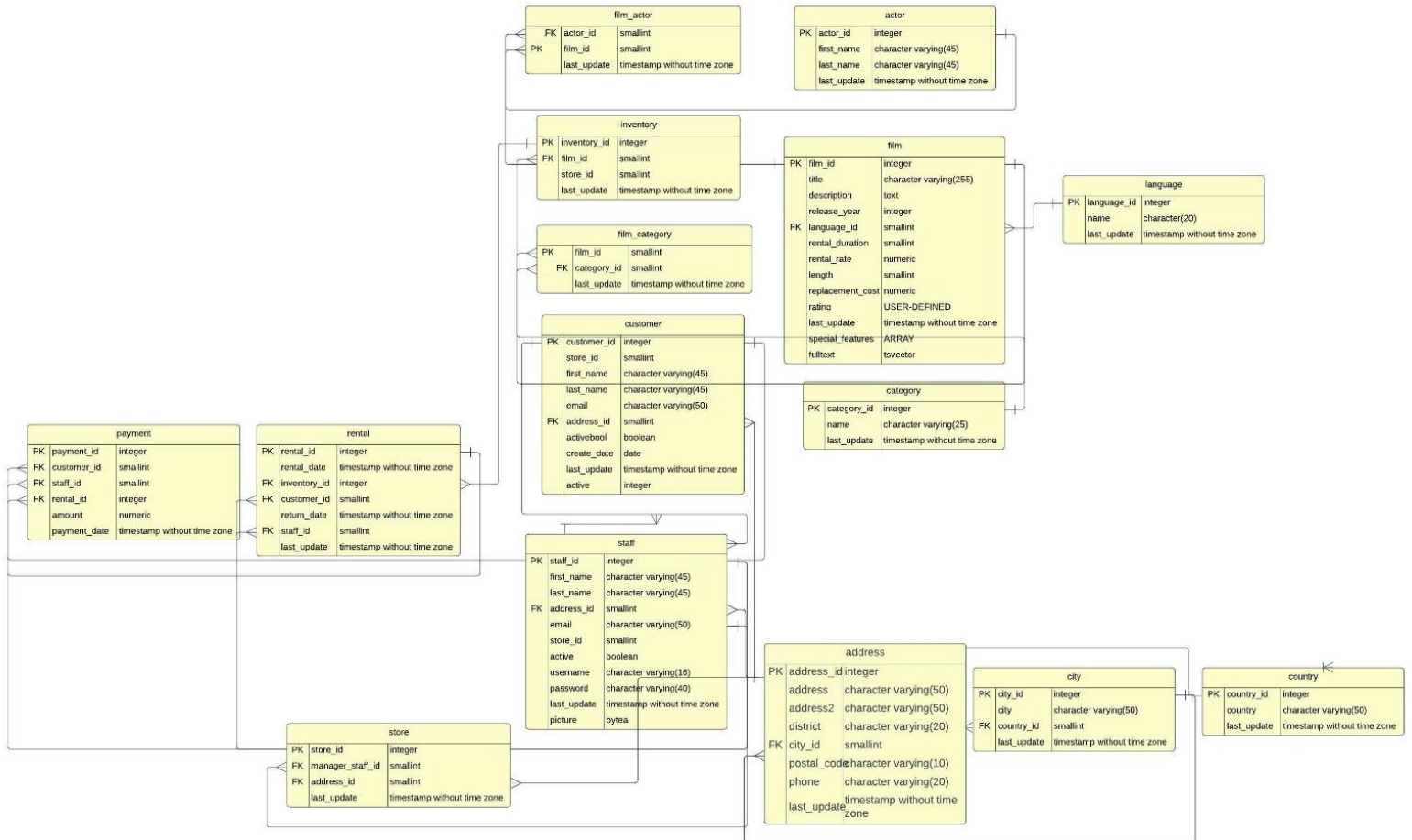
Digital Rental Launch Project

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Table of Contents

Schema

film_actor

FK	actor_id	smallint
PK	film_id	smallint
	last_update	timestamp without time zone

actor

PK	actor_id	integer
	first_name	character varying(45)
	last_name	character varying(45)
	last_update	timestamp without time zone

inventory

PK	inventory_id	integer
FK	film_id	smallint
	store_id	smallint
	last_update	timestamp without time zone

film

PK	film_id	integer
	title	character varying(255)
	description	text
	release_year	integer
FK	language_id	smallint
	rental_duration	smallint
	rental_rate	numeric
	length	smallint
	replacement_cost	numeric
	rating	USER-DEFINED
	last_update	timestamp without time zone
	special_features	ARRAY
	fulltext	tsvector

language

PK	language_id	integer
	name	character(20)
	last_update	timestamp without time zone

film_category

PK	film_id	smallint
FK	category_id	smallint
	last_update	timestamp without time zone

customer

PK	customer_id	integer
	store_id	smallint
	first_name	character varying(45)
	last_name	character varying(45)
	email	character varying(50)
FK	address_id	smallint
	activebool	boolean
	create_date	date
	last_update	timestamp without time zone
	active	integer

category

PK	category_id	integer
	name	character varying(25)
	last_update	timestamp without time zone

payment

PK	payment_id	integer
FK	customer_id	smallint
FK	staff_id	smallint
FK	rental_id	integer
	amount	numeric
	payment_date	timestamp without time zone

rental

PK	rental_id	integer
	rental_date	timestamp without time zone
FK	inventory_id	integer
FK	customer_id	smallint
	return_date	timestamp without time zone
FK	staff_id	smallint
	last_update	timestamp without time zone

staff

PK	staff_id	integer
	first_name	character varying(45)
	last_name	character varying(45)
FK	address_id	smallint
	email	character varying(50)
	store_id	smallint
	active	boolean
	username	character varying(16)
	password	character varying(40)
	last_update	timestamp without time zone
	picture	bytea

address

PK	address_id	integer
	address	character varying(50)
	address2	character varying(50)
	district	character varying(20)
FK	city_id	smallint
	postal_code	character varying(10)
	phone	character varying(20)
	last_update	timestamp without time zone

city

PK	city_id	integer
	city	character varying(50)
FK	country_id	smallint
	last_update	timestamp without time zone

country

PK	country_id	integer
	country	character varying(50)
	last_update	timestamp without time zone

store

PK	store_id	integer
FK	manager_staff_id	smallint
FK	address_id	smallint
	last_update	timestamp without time zone

Fact Tables

 Primary Key

 Foreign Key

Payment Table

Key	Column	Data Type	Description
	payment_id	Integer	Unique payment ID
	Customer_id	Smallint	Unique customer ID
	Staff_id	Smallint	Unique staff ID
	Rental_id	Integer	Unique rental ID
	Amount	Numeric	Amount paid
	Payment_date	Timestamp without time zone	Date and time when payment was made

Links to

	Table	Join	Description
	Rental	rental_id	Payment.rental_id is a foreign key that references to the primary key in the rental table rental.rental_id
	Staff	staff_id	Payment.staff_id is a foreign key that references to the primary key in the staff table staff.staff_id
	Customer	customer_id	Payment.customer_id is a foreign key that references to the primary key in the customer table customer.customer_id

Links From: None Observed

Unique Keys

	Column	Description
🔑	Payment_id	Unique payment ID; Primary key for the payment table
🗝️	Customer_id	Unique customer ID; Foreign key that joins to other tables
🗝️	Staff_id	Unique staff ID; Foreign key that joins to other tables
🗝️	Rental_id	Unique rental ID; Foreign key that joins to other tables

Rental Table

Key	Column	Data Type	Description
🔑	Rental_id	Integer	Unique rental ID
	Rental_date	Timestamp without time zone	Date and time when rented
🗝️	Inventory_id	Integer	Unique inventory ID
🗝️	Customer_id	Smallint	Unique customer ID
	Return_date	Timestamp without time zone	Date and time when returned
🗝️	Staff_id	Smallint	Unique staff ID
	Last_update	Timestamp without time zone	Date and time with last update

Links To

	Table	Join	Description
	Inventory	inventory_id	Rental.inventory_id is a foreign key that references to the primary key in the inventory table Inventory.inventory_id
	Staff	staff_id	Rental.staff_id is a foreign key that references to the primary key in the staff table staff.staff_id
	Customer	customer_id	Rental.customer_id is a foreign key that references the primary key in the customer table customer.customer_id

Links From

	Table	Join	Description
	Payment	rental_id	Payment.rental_id is a foreign key that references to the primary key in the rental table Rental.rental_id

Unique Keys

	Column	Description
🔑	Rental_id	Unique rental ID; primary key in the rental table
🔑	Inventory_id	Unique inventory ID; foreign key that joins to other tables
🔑	Customer_id	Unique customer ID; foreign key that joins to other tables
🔑	Staff_id	Unique staff ID; foreign key that joins to other tables

Dimension Tables:

Store Table

Key	Column	Data Type	Description
🔑	Store_id	Integer	Unique store ID
🔑	Manager_staff_id	Smallint	Unique manager ID
🔑	Address_id	Smallint	Unique address ID
	Last_update	Timestamp without time zone	Date and time with last update of store

Links To

	Table	Join	Description
	Address	address_id	store.address_id is a foreign key that references to the primary key in the address table address.address_id
	Staff	Manager_staff_id	store.manager_staff_id is a foreign key that references to the primary key in the staff table staff.staff_id

Links From: None Observed

Unique Keys

	Column	Description
🔑	Store_id	Unique store ID; primary key in the rental table
🔑	Manager_staff_id	Unique manager ID; foreign key that joins to other tables
🔑	Address_id	Unique address ID; foreign key that joins to other tables

Film Actor Table

Key	Column	Data Type	Description
🔑	Actor_id	Smallint	Unique actor ID
🔑	Film_id	Smallint	Unique film ID
	Last_update	Timestamp without time zone	Date and time with last update of film actor

Links To

	Table	Join	Description
	Actor	actor_id	Film_actor.actor_id is a primary and foreign key that references to the primary key in the actor table actor.actor_id
	Film	film_id	Film_actor.film_id is a primary and foreign key that references to the primary key in the film table film.film_id

Links From: None Observed

Unique Keys

	Column	Description
🔑	Actor_id	Unique actor ID; this is a foreign key that joins to other tables
🔑	Film_id	Unique film ID; this is both a primary key for the film actor table

Inventory Table

Key	Column	Data Type	Description
🔑	Inventory_id	Integer	Unique inventory ID
🔑	Film_id	Smallint	Unique film ID
	Store_id	Smallint	Unique store ID
	Last_update	Timestamp without time zone	Date and time with last update of inventory

Links To

	Table	Join	Description
	Film	film_id	Inventory.film_id is a foreign key that references to the primary key in the film table film.film_id

Links From

	Table	Join	Description
	Rental	inventory_id	Rental.inventory_id is a foreign key that references to the primary key in the inventory table inventory.inventory_id

Unique Keys

	Column	Description
🔑	Inventory_id	Unique inventory ID; primary key in the inventory table
🔑	Film_id	Unique film ID; foreign key that joins to the film table

Film Category Table

Key	Column	Data Type	Description
🔑	Film_id	Smallint	Unique film ID
🔑	Category_id	Smallint	Unique category ID
	Last_update	Timestamp without time zone	Date and time with last update of film category

Links To

	Table	Join	Description
	Category	category_id	Film_category.category_id is a foreign key that references to the primary key in the category table category.category_id
	Film	film_id	Film_category.film_id is a foreign key that references to the primary key in the film table film.film_id

Links From: None Observed

Unique Keys

	Column	Description
🔑	Film_id	Unique film ID; this is a primary key for the film actor table
🔑	Category_id	Unique category ID; this is a foreign key that joins to other tables

Customer Table

Key	Column	Data Type	Description
🔑	Customer_id	Integer	Unique customer ID
	Store_id	Smallint	Unique store ID
	First_name	Character varying(45)	First name of customer limited to 45 characters
	Last_name	Character varying(45)	Last name of customer limited to 45 characters
	Email	Character varying(50)	Email of customer limited to 50 characters
🔑	Address_id	Smallint	Unique address ID
	Activebool	Boolean	Status of whether customer is active or not
	Create_date	Date	Date when customer account was created
	Last_update	Timestamp without time zones	Date and time with last update of customer profile
	Active	Integer	Active status represented by 1 or 0

Links To

	Table	Join	Description
	Address	address_id	customer.address_id is a foreign key that references to the primary key in the address table address.address_id

Links From

	Table	Join	Description
	Payment	customer_id	Payment.customer_id is a foreign key that references to the primary key in the customer table customer.customer_id
	Rental	customer_id	Rental.customer_id is a foreign key that references to the primary key in the customer table customer.customer_id.

Unique Keys

	Column	Description
	Customer_id	Unique customer ID; This is the primary key of the customer table
	Address_id	Unique address ID; this is a foreign key that joins this table to other tables.

Staff Table

Key	Column	Data Type	Description
🔑	Staff_id	Integer	Unique staff ID
	First_name	Character varying(45)	First name of staff limited to 45 characters
	Last_name	Character varying(45)	Last name of staff limited to 45 characters
🔑	Address_ID	Smallint	Unique address ID
	Email	Character varying(50)	Email of staff limited to 50 characters
	Store_id	Smallint	Unique store ID
	Active	Boolean	Status of whether staff is currently employed
	Username	Character varying(16)	Username of staff limited to 16 characters
	Password	Character varying(40)	Password of staff limited to 40 characters
	Last_update	Timestamp without time zone	Date and time with last update of staff profile
	Picture	Bytea	Picture of staff

Links To

	Table	Join	Description
	Address	address_id	staff.address_id is a foreign key that references to the primary key in the address table address.address_id

Links From

	Table	Join	Description
	Store	Staff_id	Store.manager_staff_id is a foreign key that references to the primary key in the staff table staff.staff_id
	Rental	staff_id	Rental.staff_id is a foreign key that references to the primary key in the staff table staff.staff_id.
	Payment	Staff_id	Payment.staff_id is a foreign key that references to the primary key in the staff table staff.staff_id

Unique Keys

	Column	Description
🔑	Staff_id	Unique staff ID; This is the primary key of the staff table
🔑	Address_id	Unique address ID; this is a foreign key that joins this table to other tables.

Actor Table

Key	Column	Data Type	Description
🔑	Actor_id	Integer	Unique actor ID
	First_name	Character varying(45)	First name of actor limited to 45 characters
	Last_name	Character varying(45)	Last name of actor limited to 45 characters
	Last_update	Timestamp without time zone	Date and time with last update of actor profile

Links To: None Observed

Links From

	Table	Join	Description
	Film_actor	Actor_id	Film_actor.actor_id is a foreign key that references to the primary key in the actor table actor.actor_id

Unique Keys

	Column	Description
🔑	Actor_id	Unique actor ID; This is the primary key of the actor table

Film Table

Key	Column	Data Type	Description
🔑	Film_id	Integer	Unique movie ID
	Title	Character varying(255)	Title of movie limited to 255 characters
	Description	Text	Description of movie
	Release_year	Integer	Year when movie released
🔑	Language_id	Smallint	Unique language ID
	Rental_duration	Smallint	Duration of rental
	Rental_rate	Numeric	Cost of rental
	Length	Smallint	Length of movie
	Replacement_cost	Numeric	Cost of replacing movie
	Rating	User-defined	Rating of movie
	Last_update	Timestamp without time zone	Date and time with last update of movie profile
	Special_features	Array	Special features of the movie such as trailer or behind the scenes
	Fulltext	Tsvector	Significant words about the movie

Links To

	Table	Join	Description
	Language	Language_id	Film.language_id is a foreign key that references to the primary key in the language table language.language_id

Links From

	Table	Join	Description
	Film_actor	film_id	Film_actor.film_id is a foreign key that references to the primary key in the film table film.film_id
	Inventory	Film_id	Inventory.film_id is a foreign key that references to the primary key tin the film table film.film_id
	Film_category	Film_id	Film.categeory.film_id is a foreign key that references to the primary key in the film table film.film_id

Unique Keys

	Column	Description
🔑	film_id	Unique film ID; This is the primary key of the actor table
🔑	language_id	Unique language ID; this is a foreign key that joins this table to other tables.

Category Table

Key	Column	Data Type	Description
🔑	Category_id	Integer	Unique genre ID
	Name	Character varying(25)	Name of genre limited to 25 characters
	Last_update	Timestamp without time zone	Date and time with last update of category

Links To: None Observed

Links From

	Table	Join	Description
	Film_category	category_id	Film_category.category_id is a primary and foreign key that references to the primary key in the category table category.category_id

Unique Keys

	Column	Description
🔑	Category_id	Unique category ID; This is the primary key of the category table

Address Table

Key	Column	Data Type	Description
🔑	Address_ID	Integer	Unique address ID
	Address	Character varying(50)	First line of address limited to 50 characters
	Address 2	Character varying(50)	Second line of address limited to 50 characters
	District	Character varying(20)	District of address limited to 20 characters
🔑	City_id	Smallint	Unique city ID
	Postal_code	Character varying(10)	Zip code limited to 10 characters
	Phone	Character varying(20)	Phone number limited to 20 characters
	Last_update	Timestamp without time zone	Date and time with last update of address

Links To

	Table	Join	Description
	City	city_id	Address.city_id is a foreign key that references to the primary key in the city table city.city_id

Links From

	Table	Join	Description
	Staff	address_id	Staff.address_id is a foreign key that references to the primary key in the address table address.address_id
	Store	address_id	Store.address_id is a foreign key that references to the primary key in the address table address.address_id
	Customer	Address_id	Customer.address_id is the foreign key that references to the primary key in the address table address.address_id

Unique Keys

	Column	Description
🔑	Address_id	Unique address ID; This is the primary key of the address table
🗝️	City_id	Unique city ID; this is a foreign key that joins this table to other tables.

City Table

Key	Column	Data Type	Description
🔑	City_id	Integer	Unique city ID
	City	Character varying(50)	Name of city limited to 50 characters
🔑	Country_ID	Smallint	Unique country ID
	Last_update	Timestamp without time zone	Date and time with last update of city

Links To

	Table	Join	Description
	Country	country_id	city.country_id is a foreign key that references to the primary key in the country table country.country_id

Links From

	Table	Join	Description
	Address	city_id	Address.city_id is a foreign key that references to the primary key in the city table city.city_id

Unique Keys

	Column	Description
🔑	City_id	Unique city ID; This is the primary key of the city table
🔑	Country_id	Unique country ID; this is a foreign key that joins this table to other tables.

Language Table

Key	Column	Data Type	Description
🔑	Language_id	Integer	Unique language ID
	Name	Character(20)	Name of language limited to 20 characters
	Last_update	Timestamp without time zone	Date and time of last update of language

Links To: None Observed

Links From

	Table	Join	Description
	Film	Language_id	Film.language _id is a foreign key that references to the primary key in the language table language.language_id

Unique Keys

	Column	Description
🔑	Language	Unique language ID; This is the primary key of the language table

Country Table

Key	Column	Data Type	Description
🔑	Country_ID	Integer	Unique country ID
	Country	Character Varying(50)	Name of country limited to 50 characters
	Last_update	Timestamp without time zone	Date and time of last update of country

Links To: None Observed

Links From

	Table	Join	Description
	City	country_id	City.country_id is a foreign key that references to the primary key in the country table country.country_id

Unique Keys

	Column	Description
🔑	Country_id	Unique country ID; this is the primary key of the country table