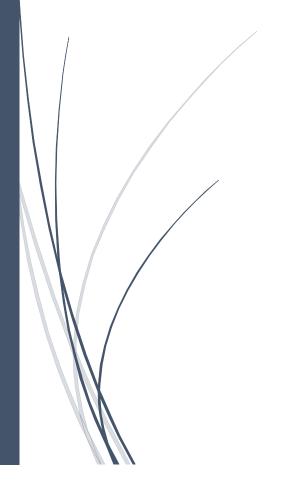
7/1/2023

Rockbuster Stealth

ERD & Data Dictionary

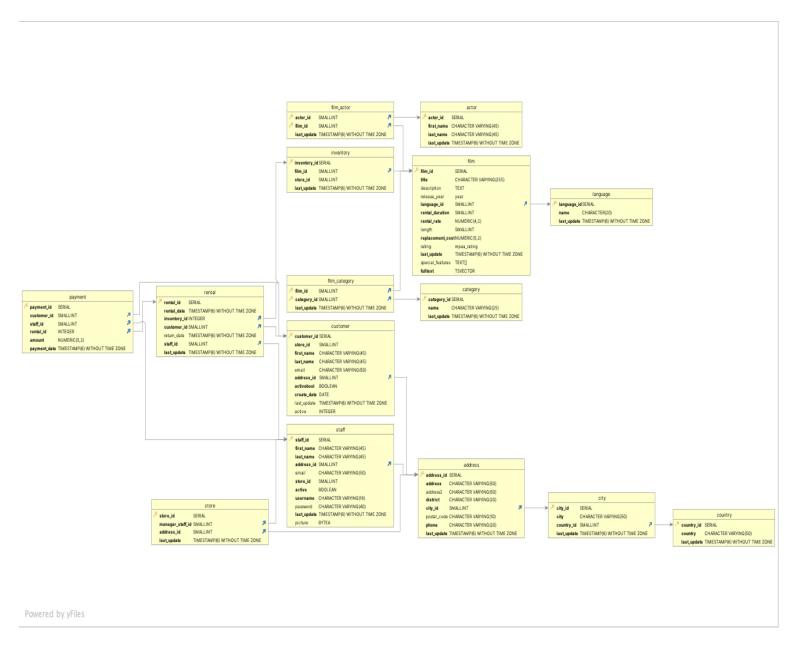


Mitchell Kubik

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Entity Relationship Diagram (ERD)



FACT TABLES

Payment

Key	Column	Data Type	Description
Primary	payment_id	[PK] INTEGER	Unique payment identifier
Foreign	customer_id	SMALLINT	Unique customer identifier
Foreign	staff_id	SMALLINT	Unique staff identifier
Foreign	rental_id	INTEGER	Unique rental identifier
	amount	NUMERIC (5,2)	Payment amount
	payment_date	TIMESTAMP WITHOUT TIME ZONE	Time and date of payment

Links to

Column	Join Table	Description
customer_id	Customer	Foreign key reference to customer table
staff_id	Staff	Foreign key reference to staff table
rental_id	Rental	Foreign Key reference to rental table

Rental

Key	Column	Data Type	Description
Primary	rental_id	[PK] INTEGER	Unique rental identifier
	rental_date	TIMESTAMP WITHOUT TIME ZONE	Time and date of rental
Foreign	inventory_id	INTEGER	Unique inventory identifier
Foreign	customer_id	SMALLINT	Unique customer identifier
	return_date	TIMESTAMP WITHOUT TIME ZONE	Time and date of return
Foreign	staff_id	SMALLINT	Unique staff identifier
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time and date of last update

Links to

Column	Join Table	Description
inventory_id	Inventory	Foreign key reference to inventory table
customer_id	Customer	Foreign key reference to customer table
staff_id	Staff	Foreign Key reference to staff table

Links from

Column	Join Table	Description
rental_id	Payment	Foreign key reference from payment table

DIMENSION TABLES

Store

Key	Column	Data Type	Description
Primary	store_id	SERIAL	Unique store identifier
Foreign	manager_staff_id	SMALLINT	Unique manager identifier
Foreign	address_id	SMALLINT	Unique address identifier
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time and date of last update

Links to

Column	Join Table	Description
Staff_id	Staff	Foreign key reference to staff table
Address_id	Address	Foreign key reference to address table

Film Actor

Key	Column	Data Type	Description
Primary/Foreign	actor_id	SMALLINT	Unique actor identifier
Primary/Foreign	film_id	SMALLINT	Unique film identifier
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time and date of last update

Links to

Column	Join Table	Description
Actor_id	Actor	P/F key reference to staff table
Film id	Film	P/F key reference to film table

Inventory

Key	Column	Data Type	Description
Primary	inventory_id	SERIAL	Unique inventory identifier
Foreign	film_id	SMALLINT	Unique film identifier
	store_id	SMALLINT	Unique store identifier
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time and date of last update

Links to

Column	Join Table	Description
Film_id	Film	Foreign Key reference to film table

Links from

Column	Join Table	Description
Inventory_id	Rental	Primary key reference from rental table

Film Category

Key	Column	Data Type	Description
Primary/Foreign	film_id	SMALLINT	Unique film identifier
Primary/Foreign	category_id	SMALLINT	Unique category identifier

	last_update	TIMESTAMP WITHOUT TIME ZONE	Time and date of last update
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Links to

Column	Join Table	Description
Film_id	Film	P/F key reference to film table
Category_id	Category	P/F key reference to category table

Customer

Key	Column	Data Type	Description
Primary	customer_id	SERIAL	Unique customer identifier
	store_id	SMALLINT	Unique store identifier
	first_name	CHARACTER VARYING (45)	First name of customer
	last_name	CHARACTER VARYING (45)	Last name of customer
	email	CHARACTER VARYING (50)	Email address of customer
Foreign	address_id	SMALLINT	Unique address identifier
	activebool	BOOLEAN	Customer active/inactive tatus
	create_date	DATE	Date of customer profile
			creation
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time and date of last update
	active	INTEGER	

Links to

Column	Join Table	Description
Address_id	Address	Foreign key reference to address table

Links from

Column	Join Table	Description
Customer_id	Payment	Foreign key reference from payment table
Customer_id	Rental	Foreign key reference from rental table

Staff

Key	Column	Data Type	Description
Primary	staff_id	SERIAL	Unique Staff Identifier
	first_name	CHARACTER VARYING (45)	First name of employee
	last_name	CHARACTER VARYING (45)	Last name of employee
Foreign	address_id	SMALLINT	Unique address identifier
	email	CHARACTER VARYING (50)	Employee email address
	store_id	SMALLINT	Unique store identifier
	active	BOOLEAN	Employee working status
	username	CHARACTER VARYING (16)	Employee username
	password	CHARACTER VARYING (40)	Employee password
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time and date of last update
	picture	BYTEA	Photo of employee

Links to

Column	Join Table	Description
Address_id	Address	Foreign key reference to address table

Links from

Column	Join Table	Description
Staff_id	Payment	Foreign key reference from payment table
Staff_id	Rental	Foreign key reference from rental table
Manager_staff_id	Store	Foreign Key reference from store table

Actor

Key	Column	Data Type	Description
Primary	actor_id	SERIAL	Unique actor identifier
	first_name	CHARACTER VARYING (45)	First name of actor
	last_name	CHARACTER VARYING (45)	Last name of actor
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time and date of last update

Links From

Column	Join Table	Description
Actor_id	Film actor	Primary key reference from film actor table

Film

Key	Column	Data Type	Description
Primary	film_id	SERIAL	Unique film identifier
	title	CHARACTER VARYING (255)	Title of film
	description	TEXT	Description of film
	release_year	YEAR	Year the film was released
Foreign	language_id	SMALLINT	Unique language identifier
	rental_duration	SMALLINT	Length of rental duration
	rental_rate	NUMERIC (4,2)	Cost of rental per rental
			duration
	length	SMALLINT	Length of film in minutes
	replacement_cost	NUMERIC (5,2)	Cost to replace inventory
	rating	MPAA_RATING	Motion picture association
			rating
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time and date of last update
	special_features	TEXT	Deleted scenes/trailers/ ets
	fulltext	TSVECTOR	Film index

Links to

Column	Join Table	Description
Language_id	Language	Foreign key reference to language table

Links from

Column	Join Table	Description
Film_id	Film_actor	P/F key reference from film_actor table
Film_id	Inventory	Foreign key reference from inventory table
Film_id	Film_category	P/F key reference from film_category table

Category

Key	Column	Data Type	Description
Primary	category_id	SERIAL	Unique category identifier
	name	CHARACTER VARYING (25)	Genre name
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time and date of last update

Links from

Column	Join Table	Description
Category_id	Film_category	P/F key reference from film_category table

Address

Key	Column	Data Type	Description
Primary	address_id	SERIAL	Unique address identifier
	address	CHARACTER VARYING (50)	Address line 1
	address2	CHARACTER VARYING (50)	Address line 2
	district	CHARACTER VARYING (20)	Location
Foreign	city_id	SMALLINT	Unique city identifier
	postal_code	CHARACTER VARYING (10)	Postal code
	phone	CHARACTER VARYING (20)	Phone number
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time and date of last update

Links to

Column	Join Table	Description
City_id	City	Foreign key reference to city table

Links from

Column	Join Table	Description
Address_id	Store	Foreign key reference from store table
Address_id	Customer	Foreign key reference from customer table
Address_id	Staff	Foreign key reference from staff table

Language

Key	Column	Data Type	Description
Primary	language_id	SERIAL	Unique language identifier
	name	CHARACTER (20)	Name of language
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time and date of last update

Links from

Column Join Table Description	
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Language_id	Film	Foreign key reference from film table

City

Key	Column	Data Type	Description
Primary	city_id	SERIAL	Unique city identifier
	city	CHARACTER VARYING (50)	City
Foreign	country_id	SMALLINT	Unique country identifier
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time and date of last update

Links to

Column	Join Table	Description
Country_id	Country	Foreign key reference to country table

Links From

Column	Join Table	Description
City_id	Address	Primary key reference from address table

Country

Key	Column	Data Type	Description
Primary	country_id	SERIAL	Unique country identifier
	country	CHARACTER VARYING (50)	Name of country
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time and date of last update

Links from

Elino irom					
	Column	Join Table	Description		
	Country id	city	Foreign key reference from city table		