Rockbuster Stealth Data Analysis

Data Dictionary

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Table of Contents

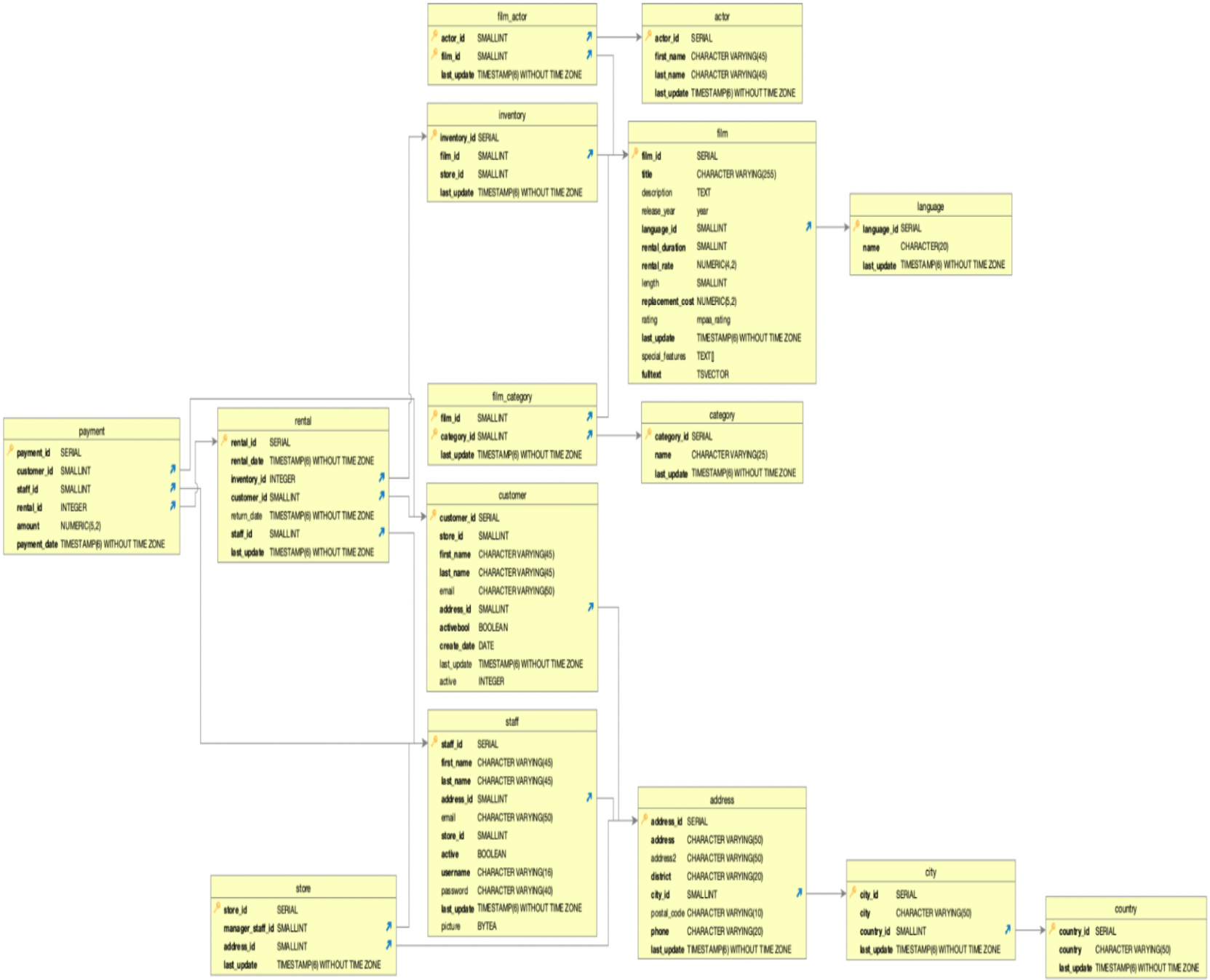
Entity Relationship Diagram (ERD).....2

Fact Tables.....3

Payment Table.....3
Rental Table.....3-4

Dimension Tables.....4

Store Table.....4
Staff Table.....5
Address Table.....6
City Table.....6-7
Country Table.....7
Customer Table.....7-8
Film Category Table.....8
Category Table.....9
Inventory Table.....9
Film Table.....10
Language Table.....11
Film Actor Table.....11
Actor Table.....12


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
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
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
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
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
store
store_id SERIAL
manager_staff_id SMALLINT
address_id SMALLINT
last_update TIMESTAMP(6) WITHOUT TIME ZONE

Fact Tables

Payment Table

Key	Column	Data Type	Description
Primary Key	payment_id	SERIAL	Unique identifier for payment
Foreign Key	customer_id	SMALLINT	Unique identifier for customer
Foreign Key	staff_id	SMALLINT	Unique identifier for staff
Foreign Key	rental_id	INTEGER	Unique identifier for rental
	amount	NUMERIC (5,2)	Amount value
	payment_date	TIMESTAMP(6) W/O TIMEZONE	Payment date and time w/o time zone

Links To:

Table	Link
Rental	payment.rental_id = rental.rental_id
Staff	payment.staff_id = staff.staff_id
Customer	payment.customer_id = customer.customer_id

Links From: N/A

Rental Table

Key	Column	Data Type	Description
Primary Key	rental_id	SERIAL	Unique identifier for rental
	rental_date	TIMESTAMP(6) W/O TIMEZONE	Rental data and time w/o time zone
Foreign Key	inventory_id	INTEGER	Unique identifier for inventory
Foreign Key	customer_id	SMALLINT	Unique identifier for customer
	return_date	TIMESTAMP(6) W/O TIMEZONE	Return date and time w/o time zone
Foreign Key	staff_id	SMALLINT	Unique identifier for staff
	last_update	TIMESTAMP(6) W/O TIMEZONE	Last update and time w/o time zone

Links To:

Table	Link
Customer	rental.customer_id = customer.customer_id
Staff	rental.staff_id = staff.staff_id
Inventory	rental.inventory_id = inventory.inventory_id

Links From:

Table	Link
Payment	payment.rental_id = rental.rental_id

Dimension Tables

Store Table

Key	Column	Data Type	Description
Primary Key	store_id	SERIAL	Unique identifier for store
Foreign Key	manager_staff_id	SMALLINT	Unique identifier for manager staff
Foreign Key	address_id	SMALLINT	Unique identifier for address
	last_update	TIMESTAMP(6) W/O TIMEZONE	Last update and time w/o time zone

Links To:

Table	Link
Address	store.address_id = address.address_id
Staff	store.staff_id = staff.staff_id

Links From: N/A

Staff Table

Key	Column	Data Type	Description
Primary Key	staff_id	SERIAL	Unique identifier for staff
	first_name	CHARACTER VARYING(45)	First name of staff
	last_name	CHARACTER VARYING(45)	Last name of staff
Foreign Key	address_id	SMALLINT	Unique identifier for address
	email	CHARACTER VARYING(50)	Email of the staff
	store_id	SMALLINT	Unique identifier for store
	active	SMALLINT	Tell us if status is active
	username	BOOLEAN	Username of the staff
	password	CHARACTER VARYING(16)	Password of the staff
	last_update	CHARACTER VARYING(40)	Last update and time w/o time zone
	picture	BYTEA	Picture of the staff

Links To:

Table	Link
Address	staff.address_id = address.address_id

Links From:

Table	Link
Payment	payment.staff_id = staff.staff_id
Rental	rental.staff_id = staff.staff_id
Store	store.staff_id = staff.staff_id

Address Table

Key	Column	Data Type	Description
Primary Key	address_id	SERIAL	Unique identifier for address
	address	CHARACTER VARYING(50)	First line of an address
	address2	CHARACTER VARYING(50)	Seconf line of an address
	district	CHARACTER VARYING(20)	The region of an address
Foreign Key	city_id	SMALLINT	The city of an address
	postal_code	CHARACTER VARYING(10)	The postal code of an address
	phone	CHARACTER VARYING(20)	The phone number of an address
	last_update	TIMESTAMP(6) W/O TIMEZONE	Last update and time w/o time zone

Links To:

Table	Link
City	address.city_id = city.city_id

Links From:

Table	Link
Staff	staff.address_id = address.address_id
Customer	customer.address_id = address.address_id
Store	store.address_id = address.address_id

City Table

Key	Column	Data Type	Description
Primary Key	city_id	SERIAL	Unique identifier for city
	city	CHARACTER VARYING(50)	Name of city
Foreign Key	country_id	SMALLINT	Unique identifier for country
	last_update	TIMESTAMP(6) W/O TIMEZONE	Last update and time w/o time zone

Links To:

Table	Link
Country	city.country_id = country.country_id

Links From:

Table	Link
Address	address.city_id = city.city_id

Country Table

Key	Column	Data Type	Description
Primary Key	country_id	SERIAL	Unique identifier for country
	country	CHARACTER VARYING(50)	Name of country
	last_update	TIMESTAMP(6) W/O TIMEZONE	Last update and time w/o time zone

Links To: N/A

Links From:

Table	Link
City	city.country_id = country.country_id

Customer Table

Key	Column	Data Type	Description
Primary Key	customer_id	SERIAL	Unique identifier for customer
	store_id	SMALLINT	Unique identifier for store
	first_name	CHARACTER VARYING(45)	First name of customer
	last_name	CHARACTER VARYING(45)	Last name of customer
	email	CHARACTER VARYING(50)	Email of customer
Foreign Key	address_id	SMALLINT	Unique identifier for address
	activebool	BOOLEAN	Tells us if status is active
	create_date	DATE	Date when the customer was created in the system
	last_update	TIMESTAMP(6) W/O TIMEZONE	Last update and time w/o time zone
	active	INTEGER	Number

Links To:

Table	Link
Address	customer.address_id = address.address_id

Links From:

Table	Link
Rental	rental.customer_id = customer.customer_id
Payment	payment.customer_id = customer.customer_id

Film Category Table

Key	Column	Data Type	Description
Primary Key, Foreign Key	film_id	SMALLINT	Unique identifier for film
Primary Key, Foreign Key	category_id	SMALLINT	Unique identifier for category
	last_update	TIMESTAMP(6) W/O TIMEZONE	Last update and time w/o time zone

Links To:

Table	Link
Category	film_category.category_id = category.category_id
Film	film_category.film_id = film.film_id

Links From: N/A

Category Table

Key	Column	Data Type	Description
Primary Key	category_id	SERIAL	Unique identifier for category
	name	CHARACTER VARYING(25)	Name of category
	last_update	TIMESTAMP(6) W/O TIMEZONE	Last update and time w/o time zone

Links To: N/A

Links From:

Table	Link
Film_Category	film_category.category_id = category.category_id

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Inventory Table

Key	Column	Data Type	Description
Primary Key	inventory_id	SERIAL	Unique identifier for inventory
Foreign Key	film_id	SMALLINT	Unique identifier for film
	store_id	SMALLINT	Unique identifier for store
	last_update	TIMESTAMP(6) W/O TIMEZONE	Last update and time w/o time zone

Links To:

Table	Link
Film	inventory.film_id = film.film_id

Links From:

Table	Link
Rental	rental.inventory_id = inventory.inventory_id

Film Table

Key	Column	Data Type	Description
Primary Key	film_id	SERIAL	Unique identifier for film
	title	CHARACTER VARYING(255)	Title of film
	description	TEXT	Description of film
	release_year	year	Release year of film
Foreign Key	language_id	SMALLINT	Unique identifier for language
	rental_duration	SMALLINT	The duration of the rental
	rental_rate	NUMERIC(4,2)	The rental rate of the film
	length	SMALLINT	The length of the film
	replacement_cost	NUMERIC(5,2)	The replacement cost of the film
	rating	mpaa_rating	The rating of the film
	last_update	TIMESTAMP(6) W/O TIMEZONE	Last update and time w/o time zone
	special_features	TEXT	The special features in the film
	fulltext	TSVECTOR	The index type, full-text index

Links To:

Table	Link
Language	film.language_id = language.language_id

Links From:

Table	Link
Inventory	inventory.film_id = film.film_id
Film_Actor	film_actor.film_id = film.film_id
Film_Category	film_category.film_id = film.film_id

Language Table

Key	Column	Data Type	Description
Primary Key	language_id	SERIAL	Unique identifier for language
	name	CHARACTER(20)	Name of the language
	last_update	TIMESTAMP(6) W/O TIMEZONE	Last update and time w/o time zone

Links To: N/A

Links From:

Table	Link
Film	film.language_id = language.language_id

Film Actor Table

Key	Column	Data Type	Description
Primary Key, Foreign Key	actor_id	SMALLINT	Unique identifier for actor
Primary Key, Foreign Key	film_id	SMALLINT	Unique identifier for film
	last_update	TIMESTAMP(6) W/O TIMEZONE	Last update and time w/o time zone

Links To:

Table	Link
Actor	film_actor.actor_id = actor.actor_id
Film	film_actor.film_id = film.film_id

Links From: N/A

Actor Table

Key	Column	Data Type	Description
Primary Key	actor_id	SERIAL	Unique identifier for actor
	first_name	CHARACTER VARYING(45)	First name of the actor
	last_name	CHARACTER VARYING(45)	Last name of the actor
	last_update	TIMESTAMP(6) W/O TIMEZONE	Last update and time w/o time zone

Links To: N/A

Links From:

Table	Link
Film_Actor	film_actor.actor_id = actor.actor_id