Rockbuster Stealth

Data Dictionary
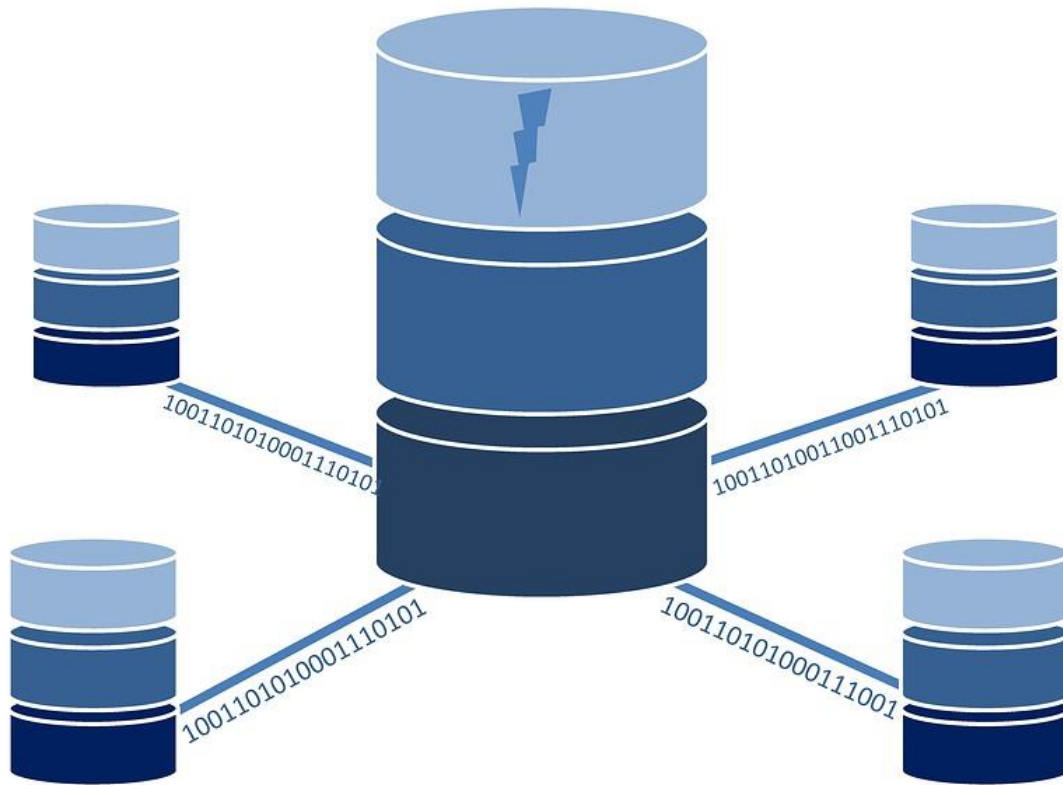
Data Immersion 3.10
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Contents

Rockbuster Diagram Schema

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

store
store_id	SERIAL
manager_staff_id	SMALLINT
address_id	SMALLINT
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

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Rockbuster Data Dictionary

🔑	**Primary Key**
🔑	**Foreign Key**

FACTS TABLE

TABLE: payment

Key	Columns	Data Type	Description
🔑	payment_id	SERIAL	Unique ID to identify each payment activity
🔑	customer_id	SMALLINT	Unique ID to identify each customer
🔑	staff_id	SMALLINT	Unique ID to identify the staff who handles the payment
🔑	rental_id	INT	Unique ID to identify each rental transaction
	amount	NUMERIC(5,2)	Total amount of payment
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the table was updated

Link to

Table	Join
Rental	Payment.rental_id = rental.rental_id
Customer	Payment.customer_id = Customer.customer_id
Staff	Payment.staff_id = staff.staff_id

TABLE: rental

Key	Columns	Data Type	Description
🔑	rental_id	SERIAL	Unique ID to identify each rental transaction
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the rental transaction
🔑	inventory_id	INTEGER	Unique ID to identify each inventory??
🔑	customer_id	SMALLINT	Unique ID to identify each customer
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the return
🔑	staff_id	SMALLINT	Unique ID to identify rental staff
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the table was updated

Link to

Table	Join
Inventory	Rental.inventory_id = inventory.inventory_id
Customer	Rental.customer_id = customer.customer_id
Staff	Rental.staff_id = staff.staff_id

Linked from

Table	Join
Payment	Payment.rental_id = rental.rental_id

DIMENSION Tables

TABLE: film_actor

Key	Columns	Data Type	Description
🔑	actor_id	SMALLINT	Unique ID to identify each actor
🔑	film_id	SMALLINT	Unique ID to identify each film title
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the table was updated

Link to

Table	Join
actor	actor.actor_id = film_actor.actor_id
film	film.film_id = film_actor.film_id

TABLE: actor

Key	Columns	Data Type	Description
🔑	actor_id	SMALLINT	Unique ID to identify each actor
	first_name	CHARVAR (45)	Actor first name
	last_name	CHARVAR (45)	Actor last name
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the table was updated

Linked from

Table	Join
film_actor	film.film_id = film_actor.film_id

TABLE: film

Key	Columns	Data Type	Description
🔑	film_id	SMALLINT	Unique ID to identify each movie
	title	CHARVAR (255)	Individual movie title
	description	TEXT	Brief summary of the movie's content
	release_year	year	The year the movie was released
🔑	language_id	SMALLINT	Original language in the movie
	rental_duration	SMALLINT	How many days the movie can be rented
	rental_rate	NUMERIC (4,2)	Rental price of each movie
	length	SMALLINT	Length of each movie in minutes
	replacement_cost	NUMERIC (5,2)	Customer's cost to replace lost movie rental
	rating	mpaa_rating	Movie's rating (PG-13, etc)

	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the table was updated
	special_features	TEXT[]	Additional movie scenes
	fulltext	TSVECTOR	Search keywords to best describe the movie content

Link to

Table	Join
language	film.language_id = language.language_id

Linked from

Table	Join
film_actor	Film_actor.language_id = language.language_id
inventory	inventory.film_id = film.film_id
film_category	film_category.film_id = film.film_id

TABLE: language

Key	Columns	Data Type	Description
🔑	language_id	SERIAL	Unique ID to identify each language
	name	CHAR(20)	Language name
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the table was updated

Linked from

Table	Join
film	film.language_id = language.language_id

TABLE: film_category

Key	Columns	Data Type	Description
🔑	category_id	SMALLINT	Unique ID to identify each film category
🔑	film_id	SMALLINT	Unique ID to identify each film title
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the table was updated

Link to

Table	Join
film	film_category.film_id = film.film_id
category	film_category.category_id = category.category_id

TABLE: category

Key	Columns	Data Type	Description
🔑	category_id	SERIAL	Unique ID to identify each film category
	name	CHARVAR(25)	Name of film category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the table was updated

Linked from

Table	Join
film_category	film_category.category_id = category.category_id

TABLE: customer

Key	Columns	Data Type	Description
🔑	customer_id	SERIAL	Unique ID to identify each customer
🔑	store_id	SMALLINT	Unique ID to identify each rental store
	first_name	CHARVAR(45)	Customer first name
	last_name	CHARVAR(45)	Customer last name
	email	CHARVAR(50)	Customer email address
🔑	address_id	SMALLINT	Unique ID to identify customer address
	active_bool	BOOLEAN	Boolean Indicator to identify a customer is
	create_date	DATE	Date when customer data was entered firs
	active	INTEGER	Integer Indicator to identify a customer is
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the table was updated

Link to

Table	Join
Address	Customer.address_id = address.address_id

Linked from

Table	Join
payment	Customer.customer_id = payment.customer_id
Rental	Customer.customer_id = rental.customer_id

TABLE: store

Key	Columns	Data Type	Description
🔑	store_id	SERIAL	Unique ID to identify each rental store
	manager_staff_id	SMALLINT	Unique ID to identify each store manager
🔑	address_id	SMALLINT	Unique ID to identify each store address
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the table was updated

Link to

Table	Join
Staff	Store.store_id = staff.store_id
Address	Store.address_id = address.address_id

TABLE: staff

Key	Columns	Data Type	Description
🔑	staff_id	SERIAL	Unique ID to identify each store staff
	first_name	CHARVAR(45)	Staff first name
	last_name	CHARVAR(45)	Staff last name
🔑	address_id	SMALLINT	Unique ID to identify staff address
	email	CHARVAR(50)	Staff email address
🔑	store_id	SMALLINT	Unique ID to identify rental store
	active	BOOLEAN	Indicator to identify if a staff is active or not
	username	CHARVAR(16)	Staff username to enter rental system
	password	CHARVAR(40)	Staff password to enter rental system
	picture	BYTEA	Staff self picture
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the table was updated

Link to

Table	Join
Address	Staff.address_id = address.address_id

Linked from

Table	Join
Payment	Staff.staff_id = payment.staff_id
Rental	Staff.staff_id = rental.staff_id
Store	Staff.store_id = store.store_id

TABLE: inventory

Key	Columns	Data Type	Description
🔑	inventory_id	SMALLINT	Unique ID to identify each inventory activity?
🔑	film_id	SMALLINT	Unique ID to identify each movie title
🔑	store_id	SMALLINT	Unique ID to identify each store that rents out the movies
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the table was updated

TABLE: address

Key	Columns	Data Type	Description
🔑	address_id	SERIAL	Unique ID to identify each address in the database
	address	CHARVAR(50)	First line of street address
	address2	CHARVAR(50)	Second line of street address
	district	CHARVAR(20)	Province or State of the address
🔑	city_id	SMALLINT	Unique ID to identify each city
	postal_code	CHARVAR(10)	Address postal code
	phone	CHARVAR(20)	Phone number associated with the address
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the table was updated

TABLE: city

Key	Columns	Data Type	Description
🔑	city_id	SERIAL	Unique ID to identify each city
	city	CHARVAR(50)	City name
🔑	country_id	SMALLINT	Unique ID to identify each country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the table was updated

TABLE: country

Key	Columns	Data Type	Description
🔑	country_id	SERIAL	Unique ID to identify each country
	country	CHARVAR(50)	Country name
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	