Rockbuster Stealth

Data Dictionary

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1. Rockbuster Entity Relationship Diagram (ERD)

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

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

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

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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2. Tables

2.1 Key

🔑	Primary Key
🔑	Foreign Key

2.2 Fact Tables

2.2.1 Table. Fact. Rental

Key	Rental	Data Type	Brief Description	Links From	Links To
🔑	rental_id	serial	number to represent rental	payment	
	rental_date	timestamp (6) without timezone	date and time that rental was made		
🔑	inventory_id	integer	number to represent the videos inventory		inventory
🔑	customer_id	smallint	number to represent customer		customer
	return_date	timestamp (6) without timezone	date and time that rental was returned		
🔑	staff_id	smallint	number to represent staff member		staff
	last_update	timestamp (6) without timezone	date and time of the last update		

2.3 Dimension Tables

2.3.1 Table. Dimension. Actor

Key	actor	Data Type	Brief Description	Links From	Links To
🔑	actor_id	serial	number to represent actors name	film_actor	
	first_name	character varying (45)	first name of actor		
	last_name	character varying (45)	last name of actor		
	last_update	timestamp (6) without timezone	date and time of the last update		

2.3.2 Table. Dimension. Address

Key	address	Data Type	Brief Description	Links From	Links To
🔑	address_id	serial	number to represent store address	customer, staff, store	
	address	character varying (50)	postal address of store		
	address2	character varying (50)	postal address of store		
	district	character varying (20)	postal address of store		
🔑	city_id	smallint	city		city
	postal_code	character varying (10)	postal code		
	phone	character varying (20)	phone number		
	last_update	timestamp (6) without timezone	date and time of the last update		

2.3.3 Table. Dimension. Category

Key	category	Data Type	Brief Description	Links From	Links To
🔑	category_id	serial	number to represent film category	film_category	
	name	character varying (25)	name of film category		
	last_update	timestamp (6) without timezone	date and time of the last update		

2.3.4 Table. Dimension. City

Key	city	Data Type	Brief Description	Links From	Links To
🔑	city_id	serial	number to represent city	address	
	city	character varying (50)	city name		
🔑	country_id	smallint	number to represent country		country
	last_update	timestamp (6) without timezone	date and time of the last update		

2.3.5 Table. Dimension. Country

Key	country	Data Type	Brief Description	Links From	Links To
🔑	country_id	serial	number to represent country	city	
	country	character varying (50)	country name		
	last_update	timestamp (6) without timezone	date and time of the last update		

2.3.6 Table. Dimension. Customer

Key	customer	Data Type	Brief Description	Links From	Links To
🔑	customer_id	serial	number to represent customer	payment, rental	
	store_id	smallint	number to represent the store location		
	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		
🔑	address_id	smallint	number to represent customers address		address
	activebool	boolean	status whether customer is active or not		
	create_data	date	creation date		
	last_update	timestamp (6) without timezone	date and time of the last update		
	active	integer	status of customer		

2.3.7 Table. Dimension. Film

Key	film	Data Type	Brief Description	Links From	Links To
🔑	film_id	serial	number to represent film	film_actor, inventory, film_category	
	title	character varying (255)	title name		
	description	text	description of film		
	release_year	year	date that the film was released		
🔑	language_id	smallint	number to represent what language film is in		language
	rental_duration	smallint	how long was the rental out for		
	rental_rate	numeric (4,2)	what was the cost of the rental		
	length	smallint	length of the film		
	replacement_cost	numeric (4,2)	how much it costs to replace lost or damaged film		
	rating	mpaa_rating	what rating the customer gave the film		
	last_update	timestamp (6) without timezone	date and time of the last update		
	special_features	text	if there are any special features available		
	full_text	tsvector	key words		

2.3.8 Table. Dimension. Film_Actor

Key	film_actor	Data Type	Brief Description	Links From	Links To
🔑	actor_id	smallint	number to represent actors name		actor
🔑	film_id	smallint	number to represent film title		film
	last_update	timestamp (6) without timezone	date and time of last update		

2.3.9 Table. Dimension. Film_Category

Key	film_category	Data Type	Brief Description	Links From	Links To
🔑	film_id	smallint	number to represent film title		film
🔑	category_id	smallint	number to represent film category		category
	last_update	timestamp (6) without timezone	date and time of last update		

2.3.10 Table. Dimension. Inventory

Key	inventory	Data Type	Brief Description	Links From	Links To
🔑	inventory_id	serial	number to represent the videos inventory	rental	
🔑	film_id	smallint	number to represent film		film
	store_id	smallint	number to represent the store location		
	last_update	timestamp (6) without timezone	date and time of the last update		

2.3.11 Table. Dimension. Language

Key	language	Data Type	Brief Description	Links From	Links To
🔑	language_id	serial	number to represent what language film is in	film	
	name	character (20)	name of the language		
	last_update	timestamp (6) without timezone	date and time of the last update		

2.3.12 Table. Dimension. Payment

Key	Payment	Data Type	Brief Description	Links From	Links To
🔑	payment_id	serial	numer to represent payment		
🔑	customer_id	smallint	number to represent customer		customer
🔑	staff_id	smallint	number to represent staff		staff
🔑	rental_id	integer	number to represent rental		rental
	amount	numeric (5,2)	how much the video cost		
	payment_date	timestamp (6) without timezone	date and time that payment was made		

2.3.13 Table. Dimension. Staff

Key	staff	Data Type	Brief Description	Links From	Links To
🔑	staff_id	serial	number to represent staff member	rental, payment, store	
	first_name	character varying (45)	first name of staff		
	last_name	character varying (45)	last name of staff		
🔑	address_id	smallint	address of staff member		address
	email	character varying (50)	email of staff member		
	store_id	smallint	number to represent the store location		
	active	boolean	status whether staff member is active or not		
	username	character varying (16)	username of staff member		
	password	character varying (40)	password of staff member		
	last_update	timestamp (6) without timezone	date and time of the last update		
	picture	bytea	photo of staff member		

2.3.14 Table. Dimension. Store

Key	store	Data Type	Brief Description	Links From	Links To
🔑	store_id	serial	number to represent store location		
🔑	manager_staff_id	smallint	number to represent the managers name		staff
🔑	address_id	smallint	number to represent store location address		address
	last_update	timestamp (6) without timezone	date and time of last update		