ROCKBUSTER STEALTH
Data Dictionary

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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

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

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LEGEND

🔑	Primary Key
🔑	Foreign Key

FACT TABLE

			rental - fact table		
Key	**Columns**	**Data Type**	**Description**	**Links From**	**Links To**
🔑	rental_id	SERIAL	Identification number assigned to each rental order	payment	
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of rental		
🔑	inventory_id	INTEGER	Inventory identification number		inventory
🔑	customer_id	SMALLINT	Customer identification number		customer
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of return		
🔑	staff_id	SMALLINT	Staff identification number processing rental order		staff
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry		

DIMENSION TABLE

			payment - dimension table		
Key	**Columns**	**Data Type**	**Description**	**Links From**	**Links To**
🔑	payment_id	SERIAL	Identification number assigned to each payment		
🔑	customer_id	SMALLINT	Customer identification number		customer
🔑	staff_id	SMALLINT	Staff identification number processing payment		staff
🔑	rental_id	INTEGER	Identification number assigned to each rental order		rental
	amount	NUMERIC (5,2)	Rental price		
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time when payment made		

			inventory - dimension table		
Key	**Columns**	**Data Type**	**Description**	**Links From**	**Links To**
🔑	inventory_id	SERIAL	Inventory identification number	rental	
🔑	film_id	SMALLINT	Identification number assigned to each film		film
	store_id	SMALLINT	Identification number assigned to each store		
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry		

			fim_actor - dimension table		
Key	**Columns**	**Data Type**	**Description**	**Links From**	**Links To**
🔑🔑	actor_id	SMALLINT	Identification number assigned to each film actor		actor
🔑🔑	film_id	SMALLINT	Identification number assigned to each film		film
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Staff identification number processing payment		

			actor - dimension table		
Key	**Columns**	**Data Type**	**Description**	**Links From**	**Links To**
🔑	actor_id	SERIAL	Identification number assigned to each film actor	film_actor	
	first_name	CHARACTER VARYING(45)	First name of the film actor		
	last_name	CHARACTER VARYING(45)	Last name of the film actor		
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry		

			actor - dimension table		
Key	**Columns**	**Data Type**	**Description**	**Links From**	**Links To**
🔑	actor_id	SERIAL	Identification number assigned to each film actor	film_actor	
	first_name	CHARACTER VARYING(45)	First name of the film actor		
	last_name	CHARACTER VARYING(45)	Last name of the film actor		
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry		

film_category - dimension table

Key	Columns	Data Type	Description	Links From	Links To
🔑🔑	film_id	SERIAL	Identification number assigned to each film		film
🔑🔑	category_id	SMALLINT	Film category (comedy, action, etc.)		category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry		

film - dimension table

Key	Columns	Data Type	Description	Links From	Links To
🔑	film_id	SERIAL	Identification number assigned to each film	inventory, film_category	
	title	CHARACTER VARYING(25)	Film title		
	description	TEXT	Short description of the film story (short summary)		
	release_year	year	Release year of the film		
🔑	languange_id	SMALLINT	Identification number assigned to each language		language
	rental_duration	SMALLINT	Duration of the film rental		
	rental_rate	NUMERIC(4,2)	Total number of a film ever being rented		
	length	SMALLINT	Length of film (in minutes)		
	replacement_cost	NUMERIC(5,2)	Cost to re-order film in case defect or missing		
	rating	mpaa_rating	Film rating		
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry		
	special_feature	TEXT	Special feature included in the film (sign language is included, etc.)		
	fulltext	TSVECTOR			

category - dimension table

Key	Columns	Data Type	Description	Links From	Links To
🔑	category_id	SERIAL	Identification number assigned to each film catrgory	film_category	
	name	CHARACTER VARYING(25)	Film category (comedy, action, etc.)		
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry		

customer - dimension table

Key	Columns	Data Type	Description	Links From	Links To
🔑	customer_id	SERIAL	Customer identification number		
	store_id	SMALLINT	Identification number assigned to each store		
	first_name	CHARACTER VARYING(45)	First name of the customer		
	last_name	CHARACTER VARYING(45)	Last name of the customer		
	email	CHARACTER VARYING(50)	Customer email address		
🔑	address_id	SMALLINT	Customer address		
	activebool	BOOLEAN	Whether or not this customer is active member		
	create_date	DATE	Creation date of membership		
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry		
	active	INETEGER	Membership status (silver, gold, etc.)		

staff - dimension table

Key	Columns	Data Type	Description	Links From	Links To
🔑	staff_id	SERIAL	Staff identification number processing rental order	payment, rental	
	first_name	CHARACTER VARYING(45)	First name of the staff		
	last_name	CHARACTER VARYING(45)	Last name of the staff		
🔑	address_id	SMALLINT	Staff address		address
	email	CHARACTER VARYING(50)	Staff email address		
	store_id	SMALLINT	Identification number assigned to each store		
	active	BOOLEAN	Whether or not this staff is active employee		
	username	CHARACTER VARYING(16)	Staff username		
	password	CHARACTER VARYING(40)	Staff account's password		
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry		
	picture	BYTEA	Staff password		

store - dimension table

Key	Columns	Data Type	Description	Links From	Links To
🔑	store_id	SERIAL	Identification number assigned to each store		
🔑	manager_staff_id	SMALLINT	Identification number assigned to each store manager		staff
🔑	address_id	SMALLINT	Identification number assigned to store location		address
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry		

address - dimension table

Key	Columns	Data Type	Description	Links From	Links To
🔑	address_id	SERIAL	Identification number assigned to store location	customer, staff, store	
	address	CHARACTER VARYING(50)	Store address		
	address2	CHARACTER VARYING(50)	Supplementary store address information		
	district	CHARACTER VARYING(20)	Store district		
🔑	city_id	SMALLINT	City name where store is located		city
	postal_code	CHARACTER VARYING(10)	Postal code of city where store is located		
	phone	CHARACTER VARYING(20)	Store phone		
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry		

city - dimension table

Key	Columns	Data Type	Description	Links From	Links To
🔑	city_id		City identification numbe where store is located	address	
	city	CHARACTER VARYING(50)	City name where store is located		
🔑	country_id	SMALLINT	Country identification number where store is located		country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry		

country - dimension table					
Key	Columns	Data Type	Description	Links From	Links To
🔑	country_id	SERIAL	Country identification number where store is located	city	
	country	CHARACTER VARYING(50)	Country name where store is located		
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry		