ROCKBUSTER STEALTH DATA DICTIONARY
VERSION 1.0

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I. ENTITY RELATIONSHIP DIAGRAM

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

II. FACT TABLES

Legend	
O━	Primary key
O━	Foreign key

A. payment

Key	Column	Data Type	Description
O━	payment_id	serial	Unique ID of payment
O━	customer_id	int2	Unique ID of customer
O━	staff_id	int2	Unique ID of staff member who processed the payment
O━	rental_id	int4	Unique ID of rental instance
	amount	numeric	Value of payment
	payment_date	timestamp	Date of payment

Links To:

Table	Join
customer	payment.customer_id=customer.customer_id
rental	payment.rental_id=rental.rental_id
staff	payment.staff_id=staff.staff_id

Linked From: None

B. rental

Key	Column	Data Type	Description

Key	Column	Data Type	Description
🔑	rental_id	serial	Unique ID of rental instance
	rental_date	timestamp	Date of rental
🔑	inventory_id	int4	Unique ID of item in inventory
🔑	customer_id	int2	Unique ID of customer
	return_date	timestamp	Date of return
🔑	staff_id	int2	Unique ID of staff member who processed the rental
	last_update	timestamp	Time of last update

Links 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

III. DIMENSION TABLES

A. actor

Key	Column	Data Type	Description
🔑	actor_id	serial	Unique ID of the actor

	first_name	varchar	First name of actor
	last_name	varchar	Last name of actor
	last_update	timestamp	Time of last update

Links To: None

Linked From:

Table	Join
film_actor	film_actor.actor_id=actor.actor_id

B. address

Key	Column	Data Type	Description
🔑	address_id	serial	Unique ID of the address
	address	varchar	First line of address
	address2	varchar	Second line of address
	district	varchar	State, province, etc.
🔑	city_id	int2	Unique ID of city
	postal_code	varchar	Address's postal code
	phone	varchar	Phone number for address
	last_update	timestamp	Time of last update

Links To:

Table	Join
city	address.city_id=city.city_id

Table	Join
customer	customer.address_id=address.address_id
staff	staff.address_id=address.address_id
store	store.address_id=address.address_id

C. category

Key	Column	Data Type	Description
	category_id	serial	Unique ID of category
	name	varchar	Name of category
	last_update	timestamp	Time of last update

Links To: None

Linked From:

Table	Join
film_category	film_category.category_id=category.category_id

D. city

Key	Column	Data Type	Description
🔑	city_id	serial	Unique ID of city
	city	varchar	Name of city
🔑	country_id	int2	Unique ID of country
	last_update	timestamp	Time of last update

Links To:

Table	Join
country	city.country_id=country.country_id

Linked From:

Table	Join
address	address.address_id=city.address_id

E. country

Key	Column	Data Type	Description
🔑	country_id	serial	Unique ID of country
	country	varchar	Name of country
	last_update	timestamp	Time of last update

Links To: None

Linked From:

Table	Join
city	city.country_id=country.country_id

F. customer

Key	Column	Data Type	Description
🔑	customer_id	serial	Unique ID of customer
🔑	store_id	int2	Unique ID of store
	first_name	varchar	First name of customer
	last_name	varchar	Last name of customer
	email	varchar	E-mail address of customer

Key			
🔑	address_id	int2	Unique ID of the address
	activebool	bool	Customer marked as active
	create_date	date	Customer record creation data
	last_update	timestamp	Time of last update
	active	int4	Active customers marked as 1, inactive as 0

Links To:

Table	Join
address	customer.address_id=address.address_id

Linked From:

Table	Join
rental	rental.customer_id=customer.customer_id
payment	payment.customer_id=customer.customer_id

G. film

Key	Column	Data Type	Description
🔑	film_id	serial	Unique ID of film
	title	varchar	Title of film
	description	text	Description of film
	release_year	year	Release year of film
🔑	language_id	int2	Unique ID of language

Key	Column	Data Type	Description
	rental_duration	int2	Allowed rental period in days
	rental_rate	numeric	Cost of renting the film
	length	int2	Length of the film in minutes
	replacement_cost	numeric	Cost of replacing the film
	rating	mpaa_rating	MPAA rating of the film
	last_update	timestamp	Time of last update
	special_features	_text	Special features of the film
	fulltext	tsvector	Keywords and their usage frequency in the film

Links To:

Table	Join
language	film.language_id=language.language_id

Linked From:

Table	Join
film_actor	film_actor.film_id=film.film_id
film_category	film_category.film_id=film.film_id
inventory	inventory.film_id=film.film_id

H. film_actor

Key	Column	Data Type	Description

Key	Column	Data Type	Description
🔑	actor_id	int2	Unique ID of the actor
🔑	film_id	int2	Unique ID of film
	last_update	timestamp	Time of last update

Links To:

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

Linked From: None

I. film_category

Key	Column	Data Type	Description
🔑	film_id	int2	Unique ID of film
🔑	category_id	int2	Unique ID of category
	last_update	timestamp	Time of last update

Links To:

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

Linked From: None

J. inventory

Key	Column	Data Type	Description
🔑	inventory_id	serial	Unique ID of inventory
🔑	film_id	int2	Unique ID of film

	store_id	int2	Unique ID of store
	last_update	timestamp	Time of last update

Links To:

Table	Join
film	inventory.film_id=film.film_id

Linked From:

Table	Join
store	store.store_id=inventory.store_id

K. language

Key	Column	Data Type	Description
🔑	language_id	serial	Unique ID of language
	name	bpchar	Name of language
	last_update	timestamp	Time of last update

Links To: None

Linked From:

Table	Join
film	film.language_id=language.language_id

L. staff

Key	Column	Data Type	Description
🔑	staff_id	serial	Unique ID of staff member
	first_name	varchar	First name of staff member

	last_name	varchar	Last name of staff member
🔑	address_id	int2	Unique ID of staff member's address
	email	varchar	Staff member's e-mail address
🔑	store_id	int2	Unique ID of store
	active	bool	If staff is presently employed
	username	varchar	Staff member's username
	password	varchar	Staff member's encrypted password hash
	last_update	timestamp	Time of last update
	picture	bytea	Photo of staff member

Links To:

Table	Join
address	staff.address_id=address.address_id

Linked From:

Table	Join
rental	rental.staff_id=staff.staff_id
payment	payment.staff_id=staff.staff_id
store	store.store_id=staff.store_id

M. store

Key	Column	Data Type	Description
🔑	store_id	serial	Unique ID of store
	manager_staff_id	int2	Unique ID of manager
🔑	address_id	int2	Unique ID of store's address
	last_update	timestamp	Time of last update

Links To:

Table	Join
address	store.store_id=address.address_id
staff	store.staff_id=staff.staff_id

Linked From: None