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

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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Legend

🔑	Primary Key
🔑	Foreign Key

Fact Table

Fact Table: rental			
Column	**Data Type**	**Description**	**Link to**
rental_id 🔑	SERIAL	Unique ID assigned to each rental order	**payment**
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of rental	
inventory_id 🔑	INTEGER	Inventory number	**inventory**
customer_id 🔑	SMALLINT	Customer identification number	**customer**
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of rental return	
staff_id 🔑	SMALLINT	Staff identification number	**staff**
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update	

Dimensions

Dimension Table: payment			
Column	**Data Type**	**Description**	**Link to**
payment_id 🔑	SERIAL	Unique ID assigned to each payment	
customer_id 🔑	SMALLINT	Customer identification number	**customer**
staff_id 🔑	SMALLINT	Staff identification number	**staff**
rental_id 🔑	INTEGER	Unique ID assigned to each rental order	**rental**
amount	NUMERIC(5,2)	Amount paid during transaction	
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of payment	

Dimension Table: store

Column		Data Type	Description	Link to
store_id	🔑	SERIAL	Unique ID assigned to each store	**customer, inventory, staff**
manager_staff_id	🔑	SMALLINT	Manager identification number	**staff**
address_id	🔑	SMALLINT	Address of Store	**address**
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update	

Dimension Table: film_actor

Column		Data Type	Description	Link to
actor_id	🔑	SMALLINT	Unique ID assigned to each actor	**actor**
film_id	🔑	SMALLINT	Film identification number	**film**
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update	

Dimension Table: inventory

Column		Data Type	Description	Link to
inventory_id	🔑	SERIAL	Unique ID assigned to each inventory item	**rental**
film_id	🔑	SMALLINT	Film identification number	**film**
store_id	🔑	SMALLINT	Unique ID assigned to each store	**store**
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update	

Dimension Table: film_category

Column		Data Type	Description	Link to
film_id	🔑	SMALLINT	Film identification number	**film**
category_id	🔑	SMALLINT	Category identification number	**category**
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update	

Dimension Table: customer

Column		Data Type	Description	Link to
customer_id	🔑	SERIAL	Unique ID assigned to each customer	**payment**, **rental**
store_id	🔑	SMALLINT	Unique ID assigned to each store	**store**
first_name		CHARACTER VARYING(45)	Customer first name	
last_name		CHARACTER VARYING(45)	Customer last name	
email		CHARACTER VARYING(50)	Customer email address	
address_id	🔑	SMALLINT	Customer address	**address**
activebool		BOOLEAN	Status of customer: active or inactive	
create_date		DATE	Date customer record created	
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update	
active		INTEGER	Status of customer	

Dimension Table: actor

Column		Data Type	Description	Link to
actor_id	🔑	SERIAL	Unique ID assigned to each actor	**film_actor**
first_name		CHARACTER VARYING(45)	Actor first name	
last_name		CHARACTER VARYING(45)	Actor last name	
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update	

Dimension Table: staff

Column	Data Type	Description	Link to
staff_id 🔑	SERIAL	Unique ID assigned to each staff member	**payment, rental**
first_name	CHARACTER VARYING(45)	Staff first name	
last_name	CHARACTER VARYING(45)	Staff last name	**address**
address_id 🔑	SMALLINT	Staff address	
email	CHARACTER VARYING(50)	Staff email address	
store_id 🔑	SMALLINT	Unique ID assigned to each store	**store**
active	BOOLEAN	Status ofstaff: active or inactive	
username	CHARACTER VARYING(16)	Staff username	
password	CHARACTER VARYING(40)	Staff password	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update	
picture	INTEGER	Picture of staff	

Dimension Table: category

Column	Data Type	Description	Link to
category_id 🔑	SERIAL	Unique ID assigned to each category	**film_category**
name	CHARACTER VARYING(25)	Category name	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update	

Dimension Table: language

Column	Data Type	Description	Link to
language_id 🔑	SERIAL	Unique ID assigned to each language	**film**
name	CHARACTER VARYING(20)	Language name	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update	

Dimension Table: film

Column	Data Type	Description	Link to
film_id 🔑	SERIAL	Unique ID assigned to each film	**film_actor, category, inventory**
title	CHARACTER VARYING(255)	Title of film	
description	TEXT	Description of film	
release_year	year	Film release year	
language_id 🔑	SMALLINT	Film language	**language**
rental_duration	SMALLINT	Duration of rental	
rental_rate	NUMERIC(4,2)	Price of rental	
length	SMALLINT	Duration of film	
replacement_cost	NUMERIC(5,2)	Amount needed to replace the rental	
rating	mpaa_rating	Film rating	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update	
special_features	TEXT[]	Description of films special features, if any	
fulltext	TSVECTOR	Text	

Dimension Table: address

Column	Data Type	Description	Link to
address_id 🔑	SERIAL	Unique ID assigned to each store address	**customer, staff, store**
address	CHARACTER VARYING(50)	Store address first line	
address2	CHARACTER VARYING(50)	Store address second line	
district	CHARACTER VARYING(20)	Address district	
city_id 🔑	SMALLINT	Unique ID assigned to each city	**city**
postal_code	CHARACTER VARYING(10)	Store address postal code	
phone	CHARACTER VARYING(20)	Store phone number	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update	

Dimension Table: city

Column	Data Type	Description	Link to
city_id 🔑	SERIAL	Unique ID assigned to each city	**address**
city	CHARACTER VARYING(45)	City name	
county_id 🔑	SMALLINT	Unique ID assigned to each county	**country**
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update	

Dimension Table: county

Column	Data Type	Description	Link to
county_id 🔑	SERIAL	Unique ID assigned to each county	**city**
county	CHARACTER VARYING(50)	County name	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of last update	