Rockbuster Stealth

Data Dictionary

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Entiry Relationship Diagram (ERD)

actor
- actor_id — SERIAL
- first_name — CHARACTER VARYING(45)
- last_name — CHARACTER VARYING(45)
- 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

category
- category_id — SERIAL
- name — CHARACTER VARYING(25)
- last_update — TIMESTAMP(6) WITHOUT TIME ZONE

film_actor
- actor_id — SMALLINT
- film_id — SMALLINT
- 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_category
- film_id — SMALLINT
- category_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

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

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

store
- store_id — SERIAL
- manager_staff_id — SMALLINT
- address_id — SMALLINT
- 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

<u>Fact Tables</u>

Payment table:

Name of Table	Column	Key	Data Type	Description
Payment	Payment_id	Primary	Serial	Unique payment identifier
	Customer_id	Foreign	Small Int	Unique customer identifier
	Staff_id	Foreign	Small Int	Unique staff identifier
	Rental_id	Foreign	Integer	Unique rental identifier
	Amount		Numeric(5,2)	Amount of payment received
	Payment_date		Timestamp w/o Time Zone	Date of payment

Payment table links to:

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

Payment table links from: N/A

Rental table

Name of Table	Column	Key	Data Type	Description
Rental	Rental_id	Primary	Serial	Unique rental identifier
	Rental_date		Timestamp w/o Time Zone	Date of rental
	Inventory_id	Foreign	Integer	Unique inventory identifier
	Customer_id	Foreign	Small Int	Unique customer identifier
	Return_date		Timestamp w/o Time Zone	Date of return
	Staff_id	Foreign	Small Int	Unique staff identifier
	Last_update		Timestamp w/o Time Zone	Time of last update

Rental table links to:

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

Rental table links from:

Table	Link
Payment	Payment.rental_id = rental.rental_id

Dimension Tables

Film_actor table

Name of Table	Column	Key	Data Type	Description
Film_actor	Actor_id	Primary Foreign	Small Int	Unique identifier of actor
	Film_id	Primary Foreign	Small Int	Unique identifier of film
	Last_update		Timestamp w/o Time Zone	Time of last update

Film_actor table links to:

Table	Link
Film	Film_actor.film_id = film.film_id
Actor	Film_actor.actor_id = actor.actor_id

Film_actor table links from: n/a

Inventory table

Name of Table	Column	Key	Data Type	Description
Inventory	Inventory_id	Primary	Serial	Unique identifier of inventory
	Film_id	Foreign	Small Int	Unique identifier of film
	Store_id		Small Int	Unique identifier of store
	Last_update		Timestamp w/o Time Zone	Time of last update

Inventory table links to:

Table	Link
Film	Inventory.film_id = film.film_id

Inventory table links from:

Table	Link
Rental	Rental.inventory_id = inventory.inventory_id

Film_category table

Name of Table	Column	Key	Data Type	Description
Film_category	Film_id	Primary Foreign	Small Int	Unique identifier of film
	Category_id	Primary Foreign	Small Int	Unique identifier of category
	Last_update		Timestamp w/o Time Zone	Time of last update

Film_category table links to:

Table	Link
Category	Film_category.category_id = category.category_id
Film	Film_category.film_id = film.film_id

Film_category table links from: n/a

Customer table

Name of Table	Column	Key	Data Type	Description
Customer	Customer_id	Primary	Small Int	Unique customer identifier
	Store_id		Small Int	Unique identifier of store
	First_name		Character Varying(45)	First name of customer
	Last_name		Character Varying(45)	Last name of customer
	Email		Character Varying(50)	Email address of customer
	Address_id	Foreign	Small Int	Unique identifier of address
	Activebool		Boolean	Whether customer is active
	Create_date		Date	Date of customer profile creation
	Last_update		Timestamp w/o Time Zone	Time of last update
	Active		Integer	Active status represented by 0 or 1

Customer table links to:

Table	Link
Address	Customer.address_id = address.address_id

Customer table links from:

Table	Link
Rental	Rental.customer_id = customer.customer_id
Payment	Payment.customer_id = customer.customer_id

Staff table

Name of Table	Column	Key	Data Type	Description
Staff	Staff_id	Primary	Serial	Unique identifier of staff member
	First_name		Character Varying(45)	First name of staff member
	Last_name		Character Varying(45)	Last name of staff member
	Address_id	Foreign	Small Int	Unique identifier of address
	Email		Character Varying(50)	Email address of staff member
	Store_id		Small Int	Unique identifier of store
	Active		Boolean	Whether staff member is active
	username		Character Varying(16)	Staff member's username
	Password		Character Varying(40)	Staff member's password
	Last_update		Timestamp w/o Time Zone	Time of last update
	Picture		Bytea	Picture of staff member

Staff table links to:

Table	Link
Address	Staff.address_id = address.address_id

Staff table links from:

Table	Link
Store	Store.manager_staff_id = staff.staff_id
Rental	Rental.staff_id = staff.staff_id

Payment	Payment.staff_id = staff.staff_id

Actor table

Name of Table	Column	Key	Data Type	Description
Actor	Actor_id	Primary	Serial	Unique identifier of actor
	First_name		Character Varying(45)	First name of actor
	Last_name		Character Varying(45)	Last name of actor
	Last_update		Timestamp w/o Time Zone	Time of last update

Actor table links from:

Table	Link
Film_actor	Film_actor.actor_id = actor.actor_id

Film table

Name of Table	Column	Key	Data Type	Description
Film	Film_id	Primary	Serial	Unique identifier of film
	Title		Character Varying(255)	Title of film
	Description		Text	Description of film
	Release_year		Year	Year of film release
	Language_id	Foreign	Small Int	Language of film
	Rental_duration		Small Int	Duration of rental
	Rental_rate		Numeric(4,2)	Rate of rental
	Length		Small Int	Length of film

	Replacement _cost		Numeric(5,2)	Replacement cost of film
	Rating		Mpaa_rating	Rating of film
	Last_update		Timestamp w/o Time Zone	Time of last update
	Special_features		Text[]	Special features of film
	Fulltext		Tsvector	Film index; contains count of key words in description

Film table links to:

Table	Link
Language	Film.language_id = language.language_id

Film table links from:

Table	Link
Film Category	Film_category.film_id = film.film_id
Inventory	Inventory.film_id = film.film_id
Film Actor	Film_actor.film_id = film.film_id

Category table

Name of Table	Column	Key	Data Type	Description
Category	Category_id	Primary	Serial	Unique identifier of category
	Name		Character Varying(25)	Name of category
	Last_update		Timestamp w/o Time Zone	Time of last update

Category table links to: N/A

Category table links from:

Table	Link
Film Category	Film_category.category_id = category.category_id

Address table

Name of Table	Column	Key	Data Type	Description
Address	Address_id	Primary	Serial	Unique identifier of address
	Address		Character Varying(50)	First line of address
	Address2		Character Varying(50)	Second line of address
	District		Character Varying(20)	District of address
	City_id	Foreign	Small Int	Unique identifier of city
	Postal_code		Character Varying(10)	Postal code associated with address
	Phone		Character Varying(20)	Phone number for address
	Last_update		Timestamp w/o Time Zone	Time of last update

Address table links to:

Table	Link
City	Address.city_id = city.city_id

Address table links from:

Table	Link

Staff	Staff.address_id = address.address_id
Store	Store.address_id = address.address_id
Customer	Customer.address_id = address.address_id

Language table

Name of Table	Column	Key	Data Type	Description
Language	Language_id	Primary	Serial	Unique identifier of language
	Name		Character Varying(20)	Name of language
	Last_update		Timestamp w/o Time Zone	Time of last update

Language table links to: N/A

Language table links from:

Table	Link
Film	Film.language_id = language.language_id

City table

Name of Table	Column	Key	Data Type	Description
City	City_id	Primary	Serial	Unique identifier of city
	City		Character Varying(50)	Name of city
	Country_id	Foreign	Small Int	Unique identifier of country
	Last_update		Timestamp w/o Time Zone	Time of last update

City table links to:

Table	Link
Country	City.country_id = country.country_id

City table links from:

Table	Link
Address	Address.city_id = city.city_id

Country table

Name of Table	Column	Key	Data Type	Description
Country	Country_id	Primary	Serial	Unique identifier of country
	Country		Character Varying(50)	Name of country
	Last_update		Timestamp w/o Time Zone	Time of last update

Country table links to: N/A

Country table links from:

Table	Link
City	City.country_id = country.country_id