Data dictionary

ROCKBUSTER STEALTH
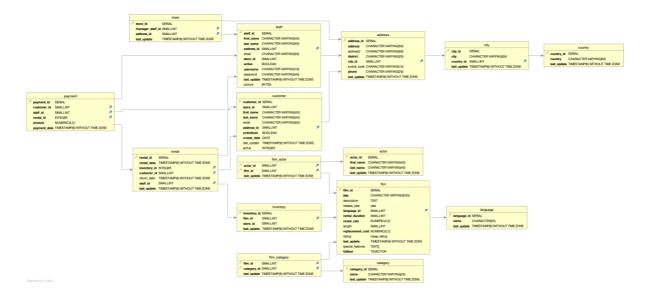
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Table of Contents

Entity Relationship Diagram

store
store_id	SERIAL
manager_staff_id	SMALLINT
address_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

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

payment
payment_id	SERIAL
customer_id	SMALLINT
staff_id	SMALLINT
rental_id	INTEGER
amount	NUMERIC(5,2)
payment_date	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

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_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

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

inventory
inventory_id	SERIAL
film_id	SMALLINT
store_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

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

Tables

1. Payment Table

Column	Data Type	Description
payment_id	serial	Primary key for payment
customer_id	int2	Foreign key for customer table
staff_id	int2	Foreign key for staff table
rental_id	int4	Foreign key for rental table
amount	numeric	Amount
payment_date	timestamp	Date when the payment was made

1.1 Link To

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

1.2 Link From

None

1.3 Unique Keys

Unique Keys	Description
payment_id	Unique key for payment table
customer_id	Unique key for customer table
staff_id	Unique key for staff table
rental_id	Unique key for rental table

2. Rental Table

Column	Data Type	Description
rental_id	serial	Primary key for rental records
rental_date	timestamp	Date when rental was made
inventory_id	int4	Foreign key for inventory records
customer_id	int2	Foreign key for customer records
return_date	timestamp	Date when return is to be made
staff_id	int2	Foreign key for staff records
last_update	timestamp	Date and time the record was last updated

2.1 Link To

Table	Columns
staff	rental.staff_id = staff.staff_id
customer	rental.customer_id = customer.customer_id
inventory	rental.inventory_id = inventory.inventory_id

2.2 Link From

Table	Columns
payment	payment.rental_id = rental.rental_id

2.3 Unique Keys

Unique Keys	Description
rental_id	Unique key for rental table
inventory_id	Unique key for inventory table
customer_id	Unique key for customer table
staff_id	Unique key for staff table

3. Customer Table

Column	Data Type	Description
customer_id	serial	Primary key for customer records
store_id	int2	Foreign key for store records
first_name	varchar	First Name of customer
last_name	varchar	Last Name of customer
email	varchar	Email address of customer
address_id	int2	Foreign key for address records
activebool	bool	Customer status - Active (True or False)
create_date	date	Date when the customer record was created
last_update	timestamp	Date and time the record was last updated
active	int4	Number

3.1 Link To

Table	Columns
address	customer.address_id = address.address_id
store	customer.store_id = store.store_id

3.2 Link From

Table	Columns
payment	payment.customer_id = customer.customer_id
rental	rental.customer_id = customer.customer_id

3.3 Unique Keys

Unique Keys	Description
customer_id	Unique key for customer table
store_id	Unique key for store table
address_id	Unique key for address table

4. Staff Table

Column	Data Type	Description
staff_id	serial	Primary key for staff records
first_name	varchar	First name of staff
last_name	varchar	Last name of staff
address_id	int2	Foreign key for address records
email	varchar	Email address of staff
store_id	int2	Foreign key for staff records
active	bool	Staff Status - Active (True or False)
username	varchar	Staff username
password	varchar	Staff password
last_update	timestamp	Date and time the record was last updated
picture	bytea	Image

4.1 Link To

Table	Columns
address	staff.address_id = address.address_id
store	staff.store_id = store.store_id

4.2 Link From

Table	Columns
payment	payment.staff_id = staff.staff_id
rental	rental.staff_id = staff.staff_id

4.3 Unique Keys

Unique Keys	Description
staff_id	Unique key for staff table
address_id	Unique key for address table
store_id	Unique key for store table

5. Inventory Table

Column	Data Type	Description
inventory_id	serial	Primary key of inventory
film_id	int2	Foreign key of film
store_id	int2	Foreign key of store
last_update	timestamp	Date and time the record was last updated

5.1 Link To

Table	Columns
film	inventory.film_id = film.film_id
store	inventory.store_id = store.store_id

5.2 Link From

Table	Columns
rental	rental.inventory_id = inventory.inventory_id

5.3 Unique Keys

Unique Keys	Description
inventory_id	Unique key for inventory table
film_id	Unique key for film table
store_id	Unique key for store table

6. Store Table

Column	Data Type	Description
store_id	serial	Primary key of store
manager_staff_id	int2	ID of manager
address_id	int2	Foreign key of address
last_update	timestamp	Date and time the record was last updated

6.1 Link To

Table	Columns
address	store.address_id = address.address_id

6.2 Link From

Table	Columns
staff	staff.store_id = store.store_id
customer	customer.store_id = store.store_id
inventory	inventory.store_id = store.store_id

6.3 Unique Keys

Unique Keys	Description
store_id	Unique key for store table
address_id	Unique key for address table

7. Address Table

Column	Data Type	Description
address_id	serial	Primary key of address
address	varchar	Address First Line
address2	varchar	Address Second Line
district	varchar	District
city_id	int2	Foreign key for city
postal_code	varchar	Postal Code
phone	varchar	Phone
last_update	timestamp	Date and time the record was last updated

7.1 Link To

Table	Columns
city	address.city_id = city.city_id

7.2 Link From

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

7.3 Unique Keys

Unique Keys	Description
address_id	Unique key for address table
city_id	Unique key for city table

8. City Table

Column	Data Type	Description
city_id	serial	Primary key of city
city	varchar	City Name
country_id	int2	Foreign key of country
last_update	timestamp	Date and time the record was last updated

8.1 Link To

Table	Columns
country	city.country_id = country.country_id

8.2 Link From

Table	Columns
address	address.city_id = city.city_id

8.3 Unique Keys

Unique Keys	Description
city_id	Unique key for city table
country_id	Unique key for country table

9. Country Table

Column	Data Type	Description
country_id	serial	Primary key of country
country	varchar	Country Name
last_update	timestamp	Date and time the record was last updated

9.1 Link To

None

9.2 Link From

Table	Columns
city	city.country_id = country.country_id

9.3 Unique Keys

Unique Keys	Description
country_id	Unique key for country table

10. Film Table

Column	Data Type	Description
film_id	serial	Primary key of film
title	varchar	Film Title
description	text	Film Description
release_year	year	Film release year
language_id	int2	Foreign key of language
rental_duration	int2	Rental Duration
rental_rate	numeric	Rental Rate
length	int2	Length
replacement_cost	numeric	Replacement cost
rating	mpaa_rating	Rating
last_update	timestamp	Date and time the record was last updated
special_features	_text	Special features of the film
fulltext	tsvector	String describing film

10.1   Link To

Table	Columns
language	film.language_id = language.language_id

10.2   Link From

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

10.3   Unique Keys

Unique Keys	Description
film_id	Unique key for film table
language_id	Unique key for language table

11. Language Table

Column	Data Type	Description
language_id	serial	Primary key of language
name	bpchar	Language
last_update	timestamp	Date and time the record was last updated

11.1   Link To

None

11.2   Link From

Table	Columns
film	film.language_id = language.language_id

11.3   Unique Keys

Unique Keys	Description
language_id	Unique key for language table

12. Fim_Actor Table

Column	Data Type	Description
actor_id	int2	Primary key of Actor
film_id	int2	Foreign key of film
last_update	timestamp	Date and time the record was last updated

12.1   Link To

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

12.2   Link From

None

12.3   Unique Keys

Unique Keys	Description
actor_id	Unique key for actor table
film_id	Unique key for film table

13. Film_Category Table

Column	Data Type	Description
film_id	int2	Primary key of film records
category_id	int2	Foreign key of category records
last_update	timestamp	Date and time the record was last updated

13.1   Link To

Table	Columns
film	film_category.film_id = film.film_id
category	film_category.category_id = category.cateogry_id

13.2   Link From

None

13.3   Unique Keys

Unique Keys	Description
film_id	Unique key for film table
category_id	Unique key for category table

14. Actor Table

Column	Data Type	Description
actor_id	serial	Primary key of actor records
first_name	varchar	First name of actor
last_name	varchar	Last name of actor
last_update	timestamp	Date and time the record was last updated

14.1   Link To

None

14.2   Link From

Table	Columns
film_actor	film_actor.actor_id = actor.actor_id

14.3   Unique Keys

Unique Keys	Description
actor_id	Unique key for actor table

15. Category Table

Column	Data Type	Description
category_id	serial	Primary key of category records
name	varchar	Name of the category
last_update	timestamp	Date and time the record was last updated

15.1   Link To

None

15.2   Link From

Table	Columns
film_category	film_category.category_id = category.category_id

15.3   Unique Keys

Unique Keys	Description
category_id	Unique key for category table