



ROCKBUSTER STEALTH

Data Dictionary | Kanchan Malge

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1. Introduction:

The Rockbuster Stealth Data Dictionary provides a comprehensive overview of the data entities, relationships, and attributes within the Rockbuster Stealth database.

Entity Relationship Diagram



2. Data Sources and Entities:

The data in the Rockbuster Stealth database is sourced from various tables that represent different aspects of the business operations. The primary entities include Rentals, Payments, Customers, Films, Inventories, Categories, Languages, Staff, and Stores.

3. Data Dictionary:

3.1. Fact Tables:

3.1.1. Payment Table

Name Of Table	Column	Data Type	Description
Payment	Payment_id	Serial	Payment Identifier
	Customer_id	Small Int	Customer Identifier
	Staff_id	Small Int	Staff Identifier
	Rental_id	Integer	Rental Identifier
	Amount	Numeric(5,2)	Amount of Payment Received
	Payment_date	Timestamp w/o Time Zone	Date of Payment

Links from

- payment (payment.rental_id > rental.rental_id)

Links to

- inventory (rental.inventory_id > inventory.inventory_id)
- customer (rental.customer_id > customer.customer_id)
- staff (rental.staff_id > staff.staff_id)

Unique keys

- rental_id
- inventory_id
- customer_id
- staff_id

3.1.2. Rental Table

Rental	Rental_id	Serial	Unique rental identifier
	Rental_date	Timestamp w/o Time zone	Date of Rental
	Inventory_id	Integer	inventory identifier
	Customer_id	Small Int	Customer identifier
	Return_date	Timestamp w/o Time Zone	Date of Return
	Staff_id	Small Int	Staff Identifier
	Last_update	Timestamp w/0 Time Zone	Time of last update

Links from

- --- Links to
- rental (payment.rental_id > payment.rental_id)
- customer (payment.customer_id > customer.customer_id)
- staff (payment.staff_id > staff.staff_id)

Unique keys

- payment_id
- rental_id
- customer_id
- staff_id

3.2. Dimension Table

3.2.1. Actor Table

Table	Datatype	Column	Description
Actor	Integer	actor_id	Primary key for the actor
	String(45)	first_name	First name of the actor
	String(45)	last_name	Last name of the actor
	DateTime	last_update	Date and time of the last update for the actor

Links from

- film_actor (film_actor.actor_id > actor.actor_id)

Links to

- ---

Unique keys

- actor_id

3.2.2. Category Table

Table	Datatype	Column	Description
Category	Integer	category_id	Primary key for the category
	String(25)	name	Name of the category
	DateTime	last_update	Date and time of the last update for the category

Links from

- Film_category(film_category.category_id > category.category_id)

Link to

- ---

Unique keys

- category_id

3.2.3. Country Table

Table	Datatype	Column	Description
Country	Integer	country_id	Primary key for the country
	String(50)	country	Name of the country
	DateTime	last_update	Date and time of the last update for the country

Links from

- city (city.country_id country.country_id)

Links to

- ---

Unique keys

- country_id

3.2.4. Language Table

Table	Datatype	Column	Description
Language	Integer	language_id	Primary key for the language
	CHAR(20)	name	Name of the language
	DateTime	last_update	Date and time of the last update for the language

Links from

- film (film.language_id > language.language_id)

Links to

- ---

Unique keys

- language_id

3.2.5. City Table

Table	Datatype	Column	Description
City	Integer	city_id	Primary key for the city
	String(50)	city	Name of the city
	SmallInteger	country_id	Foreign key referencing the country table
	DateTime	last_update	Date and time of the last update for the city

Links from

- address (address.city_id > city.city_id)

Links to

- country (city.country_id > country.country_id)

Unique keys

- city_id
- country_id

3.2.6. Film Table

Table	Datatype	Column	Description
Film	Integer	film_id	Primary key for the film
	String(255)	title	Title of the film
	Text	description	Description of the film
	Integer	release_year	Year of the film release
	SmallInteger	language_id	Foreign key referencing the language table
	SmallInteger	rental_duration	Duration of film rental in days
	Numeric(4, 2)	rental_rate	Rental rate for the film
	SmallInteger	length	Length of the film in minutes
	Numeric(5, 2)	replacement_cost	Cost of replacing the film
	Enum('G', 'PG', 'PG-13', 'R', 'NC-17', name='mpaa_rating')	rating	Rating of the film (G, PG, PG-13, R, NC-17)
	DateTime	last_update	Date and time of the last update for the film
	ARRAY(Text())	special_features	Array of special features of the film
	TSVECTOR	fulltext	Full-text search vector for the film

Links from

- film_actor (film_actor.film_id > language.film_id)
- inventory (inventory.film_id > language.film_id)
- film_category (film_category.film_id > language.film_id)

Links to

- language (film.city_id > language.language_id)

Unique keys

- film_id
- language_id

3.2.7.Address Table

Table	Datatype	Column	Description
Address	Integer	address_id	Primary key for the address
	String(50)	address	Address line 1
	String(50)	address2	Address line 2
	String(20)	district	District or locality
	SmallInteger	city_id	Foreign key referencing the city table
	String(10)	postal_code	Postal code of the address
	String(20)	phone	Phone number of the address
	DateTime	last_update	Date and time of the last update for the address

Links from

- customer (customer.city_id > address.address_id)
- staff (staff.city_id > address.address_id)
- store (store.city_id > address.address_id)

Links to

- city (address.city_id > city.city_id)

Unique keys

- address_id
- city_id

3.2.8.FilmActor Table

Table	Datatype	Column	Description
FilmActor	SmallInteger	actor_id	Foreign key referencing the actor table
	SmallInteger	film_id	Foreign key referencing the film table
	DateTime	last_update	Date and time of the last update for the relationship

Links from

- --

Links to

- actor (film_actor.actor_id > actor.actor_id)
- film (film_actor.film_id > film.film_id)

Unique keys

- actor_id
- film_id

3.2.9.FilmCategory Table

	Datatype	Column	Description
FilmCategory	SmallInteger	film_id	Foreign key referencing the film table
	SmallInteger	category_id	Foreign key referencing the category table
	DateTime	last_update	Date and time of the last update for the relationship

Links from

- --

Links to

- category (category.category_id > category.category_id)
- film (film_category.film_id > film.film_id)

Unique keys

- category_id
- film_id

3.2.10. Inventory Table

Table	Datatype	Column	Description
Inventory	Integer	inventory_id	Primary key for the inventory
	SmallInteger	film_id	Foreign key referencing the film table
	SmallInteger	store_id	Store ID where the inventory is located
	DateTime	last_update	Date and time of the last update for the inventory

Links from

- rental (rental_inventory_id > inventory.inventory_id)

Links to

- film (inventory.film_id > film.film_id)

Unique keys

- inventory_id
- film_id

3.2.11. Customer Table

Table	Datatype	Column	Description
Customer	Integer	customer_id	Primary key for the customer
	SmallInteger	store_id	Store ID where the customer is registered
	String(45)	first_name	First name of the customer
	String(45)	last_name	Last name of the customer
	String(50)	email	Email address of the customer
	SmallInteger	address_id	Foreign key referencing the address table
	Boolean	activebool	Boolean flag for customer's active status
	Date	create_date	Date of customer registration
	DateTime	last_update	Date and time of the last update for the customer
	Integer	active	Integer flag for customer's active status

Links from

- rental (rental.customer_id > customer.customer_id)
- payment (payment.customer_id > customer.customer_id)

Links to

- address (customer.address_id > address.address_id)

Unique keys

- customer_id

3.2.12. Staff Table

Table	Datatype	Column	Description
Staff	Integer	staff_id	Primary key for the staff
	String(45)	first_name	First name of the staff
	String(45)	last_name	Last name of the staff
	SmallInteger	address_id	Foreign key referencing the address table
	String(50)	email	Email address of the staff
	SmallInteger	store_id	Store ID where the staff is assigned
	Boolean	active	Boolean flag for staff's active status
	String(16)	username	Username for staff login
	String(40)	password	Encrypted password for staff login
	DateTime	last_update	Date and time of the last update for the staff
	LargeBinary	picture	Binary image data for staff picture

Links from

- rental (rental.staff_id > staff.staff_id)
- payment (payment.staff_id > staff.staff_id)
- store (store.manager_staff_id > staff.staff_id)

Links to

- address (staff.address_id > address.address_id)

Unique keys

- staff_id
- address_id

3.2.13. Store Table

Table	Datatype	Column	Description
Store	Integer	store_id	Primary key for the store
	SmallInteger	manager_staff_id	Foreign key referencing the staff table
	SmallInteger	address_id	Foreign key referencing the address table
	DateTime	last_update	Date and time of the last update for the store

Links from

- ---

Links to

- staff (store.manager_staff_id > staff.staff_id)
- address (store.address_id > address.address_id)

Unique keys

- store_id
- manager_staff_id
- address_id