

Rockbuster Stealth

ROCKBUSTER STEALTH

DATA DICTIONARY

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ENTITY RELATIONSHIP DIAGRAM



FACT TABLES

2.1 Rental Table

Table	Datatype	Column	Description
Rental	Integer	rental_id	Primary key for the rental
	DateTime	rental_date	Date and time of the rental
	SmallInteger	inventory_id	Foreign key referencing the inventory table
	SmallInteger	customer_id	Foreign key referencing the customer table
	DateTime	return_date	Date and time of the rental return
	SmallInteger	staff_id	Foreign key referencing the staff table
	DateTime	last_update	Date and time of the last update for the rental

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

2.2 Payment Table

<i>Table</i>	Datatype	Column	Description
<i>Payment</i>	Integer	payment_id	Primary key for the payment
	SmallInteger	customer_id	Foreign key referencing the customer table
	SmallInteger	staff_id	Foreign key referencing the staff table
	SmallInteger	rental_id	Foreign key referencing the rental table
	Numeric(5, 2)	amount	Payment amount
	DateTime	payment_date	Date and time of the payment

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

DIMENSION TABLES

3.1 Actor Table

Table	Datatype	Column	Description
<i>Actor</i>	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 Category Table

Table	Datatype	Column	Description
<i>Category</i>	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)

Links to

- --- Unique keys
- category_id

3.3 Country Table

Table	Datatype	Column	Description
<i>Country</i>	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

3.4 Language Table

<i>Table</i>	Datatype	Column	Description
<i>Language</i>	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

3.5 City Table

<i>Table</i>	Datatype	Column	Description
<i>City</i>	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

3.6 Film Table

Table	Datatype	Column	Description
<i>Film</i>	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

3.7 Address Table

<i>Table</i>	Datatype	Column	Description
<i>Address</i>	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

3.8 FilmActor Table

<i>Table</i>	Datatype	Column	Description
<i>FilmActor</i>	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

3.9 FilmCategory Table

<i>Table</i>	Datatype	Column	Description
<i>FilmCategory</i>	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

3.10 Inventory Table

<i>Table</i>	Datatype	Column	Description
<i>Inventory</i>	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

3.11 Customer Table

Table	Datatype	Column	Description
<i>Customer</i>	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
- address_id

3.12 Staff Table

Table	Datatype	Column	Description
<i>Staff</i>	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

3.13 Store Table

Table	Datatype	Column	Description
<i>Store</i>	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