Rockbuster Stealth LLC

Data Dictionary

CONTENTS

1.1 LEGEND

🔑 (orange)	Primary Key
🔑 (blue)	Foreign Key
🔑 (green)	Composite Key

2.1 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

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

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

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3 TABLES

Fact Tables:

3.1 PAYMENT

	payment		
key	columns	data type	description
	payment_id	SERIAL	Primary key for table
	customer_id	SMALLINT	Number assigned to customer, foreign key to customer table
	staff_id	SMALLINT	Number assigned to staff, foreign key to staff table
	rental_id	INTERGER	Number assigned to rental, foreign key to rental table
	amount	NUMERIC(5,2)	Monetary amount of payment
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date/time of payment

Links To:

Table	Key Type	Join
customer	foreign	payment.customer_id = customer.customer_id
staff	foreign	payment.staff_id = staff.staff_id
rental	foreign	payment.rental_id = rental.rental_id

3.2 FILM CATEGORY

	film_category		
key	columns	data type	description
	film_id	SMALLUNIT	Number assigned to film, primary key for table
	category_id	SMALLUNIT	Number assigned to category, candidate key for table, foreign key for category table
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date/time film category last updated

Table	Key Type	Join
film	primary/foreign	film_category.film_id = film.film_id
category	primary/foreign	film_category.category_id = category.category_id

3.3 STORE

key	store		
	columns	data type	description
🔑	store_id	SERIAL	Number assigned to store, primary key for table
🔑	manager_staff_id	SMALLUNIT	Number assigned to manager staff member, foreign key for staff table
🔑	address_id	SMALLUNIT	Address of store, foreign key for address table
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date/time store last updated

Links To:

Table	Key Type	Join
staff	foreign	store.manager_staff_id = staff.staff_id
address	foreign	store.address_id = address.address_id

3.4 FILM ACTOR

key	film_actor		
	columns	data type	description
🔑	actor_id	SMALLUNIT	Number assigned to actor, primary key for table
🔑	film_id	SMALLUNIT	Number assigned to film, candidate key for table, foreign key for film table
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date/time film actor last updated

Links Together:

Table	Key Type	Join
actor	primary/foreign	film_category.film_id = film.film_id

film	primary/foreign	film_category.category_id = category.category_id

Dimension Tables:

3.5 RENTAL

key	columns	data type	description
🔑	rental_id	SERIAL	Number assigned to rental, primary key for table
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date/time of rental
🔑	inventory_id	INTERGER	Number assigned to inventory, foreign key for inventory table
🔑	customer_id	SMALLUNIT	Number assigned to customer, foreign key for customer table
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date/time of return
🔑	staff_id	SMALLUNIT	Number assigned to staff member, foreign key for staff table
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date/time rental last updated

Links To:

Table	Key Type	Join
inventory	foreign	rental.inventory.id = inventory.inventory_id
customer	foreign	rental.customer_id = customer.customer_id
staff	foreign	rental.staff_id = staff.staff_id

Links From:

Table	Key Type	Join
payment	primary	payment.rental_id = rental.rental_id

3.6 CUSTOMER

key	columns	data type	description
🔑	customer_id	SERIAL	Number assigned to customer, primary key for table

key		columns	data type	description
		store_id	SMALLINT	Number assigned to store
		first_name	CHARACTER VARYING(45)	Customer first name
		last_name	CHARACTER VARYING(45)	Customer last name
		email	CHARACTER VARYING(45)	Customer email
🔑		address_id	SMALLINT	Number addressed to customer address, foreign key for address table
		activebool	BOOLEAN	Customer active? True/false
		create_date	DATE	Date entry created
		last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date customer last updated
		active	INTERGER	Customer active?

Links To:

Table	Key Type	Join
address	foreign	customer.address_id = address.address_id

Links From:

Table	Key Type	Join
rental	primary	rental.rental_id = customer.rental_id
payment	primary	payment.customer_id = customer.customer_id

3.7 STAFF

	staff		
key	columns	data type	description
🔑	staff_id	SERIAL	Number assigned to staff member, primary key for table
	first_name	CHARACTER VARYING(45)	Employee first name
	last_name	CHARACTER VARYING(45)	Employee last name
🔑	address_id	SMALLINT	Employee address, foreign key for address table
	email		Employee email
	store_id	SMALLINT	Number assigned to store
	active	BOOLEAN	Employee active? True/false
	username	CHARACTER CHARACTER VARYING(50)VARYING(16)	Employee username

	password	CHARACTER VARYING(40)	Employee password
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date/time employee last updated
	picture	BYTEA	Employee picture

Links To:

Table	Key Type	Join
address	foreign	staff.address_id = address.address_id

Links From:

Table	Key Type	Join
rental	primary	rental.staff_id = staff.staff_id
store	primary	store.manager_staff_id = staff.staff_id
payment	primary	payment.staff_id = staff.staff_id

3.8 ADDRESS

	address		
key	columns	data type	description
🔑	address_id	SERIAL	Number assigned to staff addressed, primary key for table
	address	CHARACTER VARYING(50)	Staff address line 1
	address2	CHARACTER VARYING(50)	Staff address line 2
	district	CHARACTER VARYING(20)	Staff address district
🔑	city_id	SMALLINT	Number assigned to address city, foreign key for city table
	postal_code	CHARACTER VARYING(10)	Staff address postal code
	phone	CHARACTER VARYING(20)	Staff address phone number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date/time address last updated

Links To:

Table	Key Type	Join
city	foreign	address.city_id = city.city_id

Table	Key Type	Join
customer	foreign	customer.address_id = address.adress_id
staff	foreign	staff.address_id = address.address_id
store	foreign	store.address_id = address.address_id

3.9 CITY

key	city		
key	columns	data type	description
🔑	city_id	SERIAL	Number assigned to city, primary key for table
	city	CHARACTER VARYING(50)	City
🔑	country_id	SMALLINT	Number assigned to country, foreign key for country table
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date/time city last updated

Links To:

Table	Key Type	Join
country	foreign	city.country_id = country.country_id

Links From:

Table	Key Type	Join
address	primary	address.city_id = city.city_id

3.10 COUNTRY

key	country		
key	columns	data type	description
🔑	country_id	SERIAL	Number assigned to country, primary key for table
	country	CHARACTER VARYING(50)	Country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date/time country last updated

Links From:

Table	Key Type	Join
city	primary	city.city_id = country.city_id

3.11 CATEGORY

key	category		
key	columns	data type	description
🔑	category_id	SERIAL	Number assigned to category, primary key for table
	name	CHARACTER VARYING(25)	Category name
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date/time category last updated

Links From:

Table	Key Type	Join
Customer	Primary	film_category.category_id = category.category_id

3.12 INVENTORY

key	inventory		
key	columns	data type	description
🔑	inventory_id	SERIAL	Number assigned to inventory item, primary key for table
🔑	film_id	SMALLINT	Number assigned to film, foreign key to film table
	store_id	SMALLINT	Number assigned to store
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date/time inventory last updated

Links To:

Table	Key Type	Join
film	foreign	inventory.film_id = film.film_id

Links From:

Table	Key Type	Join
rental	primary	rental.inventory_id = inventory.inventory_id

3.13 ACTOR

Key	actor		
Key	columns	data type	description

key	columns	data type	description
🔑	actor_id	SERIAL	Number assigned to actor, primary key for table
	first_name	CHARACTER VARYING(45)	Actor first name
	last_name	CHARACTER VARYING(45)	Actor last name
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date/time actor last updated

Links From:

Table	Key Type	Join
film_actor	primary	film_actor.actor_id = actor.actor_id

3.14 FILM

	film		
key	columns	data type	description
🔑	film_id	SERIAL	Number assigned to film, primary key for table
	title	CHARACTER VARYING(255)	Title
	description	TEXT	Film description
	release_year	year	Film release year
🔑	language_id	SMALLINT	Number assigned to language, foreign key for language table
	rental_duration	SMALLINT	Duration of film rental
	rental_rate	NUMERIC(4,2)	Film rental rate
	length	SMALLINT	Film length
	replacement_cost	NUMERIC(5,2)	Film replacement cost
	rating	mpaa_rating	Film rating
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date/time film last updated
	special_features	TEXT[]	Special features included with film
	fulltext	TSVECTOR	Keywords associated with film

Links To:

Table	Key Type	Join
language	foreign	film.language_id = language.language_id

Links From:

Table	Key Type	Join
film_actor	primary	film_actor.film_id = film.film_id

| inventory | primary | inventory.film_id = film.film_id |
| film_category | primary | film_category.film_id = film.film_id |

3.15 LANGUAGE

	language		
key	columns	data type	description
🔑	language_id	SERIAL	Number assigned to language, primary key for table
	name	CHARACTER(20)	Language name
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date/time language last updated

Links From:

Table	Key Type	Join
film	primary	film.language_id = language.language_id