Rockbuster

DATA DICTIONARY
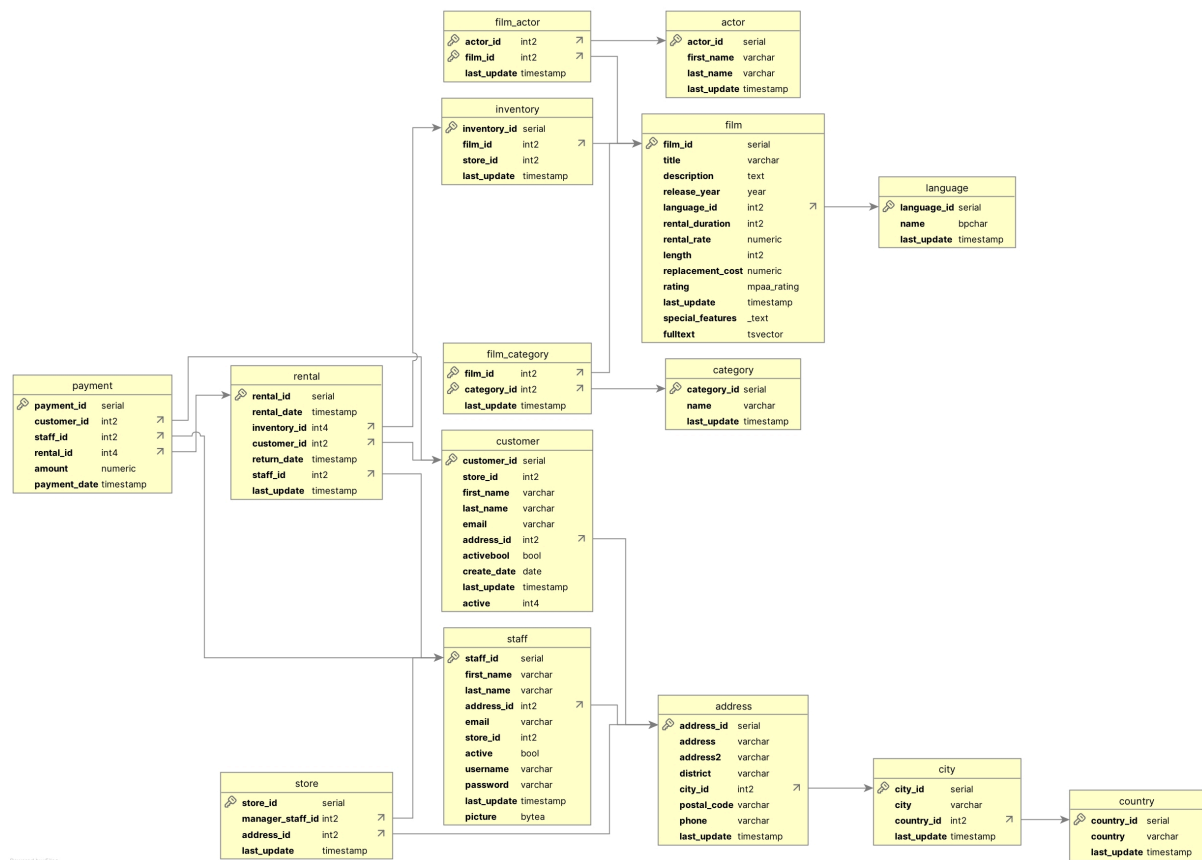
Rockbuster Data Dictionary

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1. Rockbuster Data Dictionary

- Names, addresses and location of individual customers, Stores, Staff and Actors.

- Name, category, language and inventory of films.

Legend

🔑 Primary Key

🔑 Unique Key

➡️ Primary Key relation

⬅️ Foreign Key relation

1.1: Tables

1.1.1: Table: Payment

	Columns	Data Type	Description
🔑	payment_id	Serial	ID number of the payment in series format; 001, 002, 003 etc.
	customer_id	Int2	ID of the customer.
	staff_id	int2	Unique ID of the staff members in 2 byte integers.
	rental_id	int4	ID of the rental in 4 byte integers.
	amount	numeric	Price of the rental in numbers.
	payment_date	timestamp	Timestamp of the payment

Linked To

	Table	Join	Description
➡️	Customer	payment.customer_id=customer.customer_id	FK_customer_id
➡️	Staff	payment.staff_id=staff.staff_id	FK_staff_id
➡️	Rental	payment.rental_id=rental.rental_id	FK_rental_id

Unique Keys

	Columns	Description
🔑	payment_id	PK_payment_payment_id
🔑	customer_id, staff_id, rental_id	AK_payment_payment_id_staff_id_rental_id
🔑	amount	AK_payment_amount

1.1.2: Table: Film_Actor

	Columns	Data Type	Description
🔑	actor_id	int2	ID of the actor.
🔑	film_id	int2	ID of the film.
	last_update	timestamp	Timestamp of the last update

Linked To

	Table	Join	Description
➡️	actor	film_actor.actor_id = actor.actor_id	FK_actor_id
➡️	film	film_actor.film_id = film.film_id	FK_film_id

Unique Keys

	Table	Description
🔑	actor_id, film_id	PK_film_actor_actor_id_film_id

1.1.3: Table: Store

	Columns	Data Type	Description
🔑	store_id	serial	ID of the store in Series; 001, 002, 003 etc.
	manager_staff_id	int2	ID of the manager of the store.
	address_id	int2	Address of the store.
	last_update	timestamp	Timestamp of the last update

Linked To

	Table	Join	Description
➡️	staff	store.store_id = staff.store_id	PK_store_id
➡️	address	store.address_id = address_address_id	FK_address_id

Unique Keys

	Table	Description
🔑	store_id	PK_store_store_id
🔑	manager_staff_id, address_id	AK_manager_staff_id_address_id

1.1.4: Table: Film_category

	Columns	Data Type	Description
🔑	film_id	int2	ID of the film.
🔑	category_id	int2	ID of the Category of the film.
	last_update	timestamp	Timestamp of the last update

Linked To

	Table	Join	Description
➡️	film	film_category.film_id = film.film_id	FK_film_id
➡️	Category	film_category.category_id = category.category_id	FK_category_id

Unique Keys

	Table	Description
🗝️	film_id, category_id	AK_film_category_film_id_category_id

1.1.5: Table: Rental

	Columns	Data Type	Description
🗝️	rental_id	Serial	ID of the specific rental in Series; 001, 002, 003 etc.
	rental_date	timestamp	Exact timestamp of the rental
	inventory_id	Int4	ID of the inventory.
	customer_id	Int2	ID of the customer
	return_date	timestamp	Exact timestamp of the rental return.
	staff_id	int2	ID of the staff.
	last_update	timestamp	Timestamp of the last update

Linked From

	Table	Join	Description
⬅️	payment	rental.rental_id = payment.rental_id	FK_rental_id

Linked to

	Table	Join	Description
➡️	inventory	rental.inventory_id = inventory_inventory_id	FK_inventory_id
➡️	customer	rental.customer_id = customer_customer_id	FK_customer_id
➡️	staff	rental.staff_id = staff.staff_id	FK_staff_id

Unique Keys

	Table	Description
🔑	rental_id	PK_rental_rental_id
🗝️	inventory_id, customer_id, staff_id	AK_rental_inventory_id_customer_id_staff_id

1.1.6: Table: Inventory

	Columns	Data Type	Description
🔑	inventory_id	Serial	ID of the inventory.
	film_id	int2	ID of the film.
	store_id	int2	ID of the store.
	last_update	timestamp	Timestamp of the last update

Linked From

	Table	Join	Description
←	rental	rental.inventory_id = inventory_inventory_id	PK_inventory_id

Linked to

	Table	Join	Description
→	film	inventory.film_id = film.film_id	FK_film_id

Unique Keys

	Table	Description
🔑	inventory_id	PK_inventory_id
🔑	film_id, store_id	AK_inventory_film_id_store_id

1.1.7: Table: Customer

	Columns	Data Type	Description
🔑	customer_id	Serial	ID of the customer.
	Store_id	int2	ID of the store.
	first_name	varchar	First Name of the customer
	last_name	varchar	Last Name of the customer
	email	varchar	Email of the customer
	address_id	int2	Address of the customer
	activebool	bool	Is the account active: Yes/No
	create_date	date	Creation date of the customer account.
	last_update	timestamp	Timestamp of the last update
	active	int4	Is the customer active: Yes/No

Linked from

	Table	Join	Description
←	payment	payment.customer_id = customer.customer_id	FK_payment_customer_id
←	rental	rental.customer_id = customer.customer_id0	FK_rental_customer_id

Linked To

	Table	Join	Description
→	address	customer.address_id = address.address_id	FK_address_address_id

Unique Keys

	Table	Description
🔑	customer_id	PK_customer_id
🔑	store_id, address_id	AK_customer_store_id_address_id
🔑	first_name, last_name, email	AK_customer_first_name_last_name_email

1.1.8: Table: Staff

	Columns	Data Type	Description
🔑	staff_id	Serial	ID of the staff.
	first_name	varchar	First Name of the staff.
	last_name	varchar	Last Name of the staff.
	address_id	int2	Address of the staff.
	email	varchar	Email of the staff.
	store_id	int2	ID of the store the staff is in.
	active	bool	Is the staff active: Yes/No.

	Columns	Data Type	Description
	username	varchar	Username of the staff account.
	password	varchar	Password of the staff account.
	last_update	timestamp	Timestamp of the last update.
	picture	bytea	Picture of the staff.

Linked from

	Table	Join	Description
←	payment	payment.staff_id = staff.staff_id	FK_payment_staff_id
←	store	store.store_id = staff.store_id	FK_store_staff_id
←	rental	rental.staff_id = staff.staff_id	FK_rental_staff_id

Linked to

	Table	Join	Description
→	address	staff.address_id = address.address_id	FK_address_address_id

Unique Keys

	Table	Description
🔑	staff_id	PK_staff_id
🔑	first_name, last_name, email, username, password	AK_staff_first_name_last_name_email_username_password
🔑	address_id, store_id	AK_staff_address_id_store_id

1.1.9: Table: Actor

	Columns	Data Type	Description
🔑	actor_id	Serial	ID of the actor
	first_name	varchar	First name of the actor
	last_name	varchar	Last name of the actor
	last_update	timestamp	Timestamp of the last update

Linked From

	Table	Join	Description
←	film_actor	film_actor.actor_id = actor.actor_id	FK_film_actor_actor_id

Unique Keys

	Table	Description
🔑	actor_id	PK_actor_id
🔑	first_name, last_name	AK_actor_first_name_last_name

1.2.0: Table: Film

	Columns	Data Type	Descritpion
🔑	film_id	Serial	ID of the film
	title	varchar	Title of the film
	description	text	Description of the film
	release_year	year	Release year of the film
	language_id	int2	Language of the film
	rental_duration	int2	Rental duration of the film
	rental_rate	numeric	Rental price of the film
	length	int2	Length of the film

	Columns	Data Type	Descritpion
	replacement_cost	numeric	Replacement cost of the film
	rating	mpaa_rating	Rating of the film
	last_update	timestamp	Timestamp of the last update
	special_features	_text	Special Features of the film: Action, adventure etc.
	fulltext	tsvector	Relevant Hashtags of the film

Linked From

	Table	Join	Description
⬅	film_actor	film_actor.film_id = film.film_id	FK_film_actor_film_id
⬅	inventory	inventory.film_id = film.film_id	FK_inventory_film_id
⬅	film_category	film_category_film_id = film.film_id	FK_film_category_film_id

Linked To

	Table	Join	Description
➡	Language	film.language_id = language.language_id	FK_language_language_id

Unique Keys

	Table	Description
🔑	film_id	PK_film_id
🔑	title, description, release_year, rental_rate, length, replacement_cost, rating, rental_duration, language_id	AK_film_title_description_release_year_rental_rate_length_replacement_cost_rating_rental_duratio

1.2.1: Table: Category

	Columns	Data Type	Description
🔑	Category_id	Serial	ID of the category of the film
	name	varchar	Name of the Category
	last_update	timestamp	Timestamp of the last update

Linked From

	Table	Join	Description
⬅	film_category	film_category.category_id = category.category_id	FK_film_category_category_id

Unique Keys

	Table	Description
🔑	categoty_id	PK_category_id
🔑	name	AK_category_name

1.2.2: Table: Address

	Columns	Data Type	Description
🔑	address_id	Serial	Address of the Store
	address	varchar	Address of the customer
	address2	varchar	2nd Address of the customer
	district	varchar	District of the customer
	city_id	int2	ID of the city of the customer

	Columns	Data Type	Description
	postal_code	varchar	Postal code of the customer
	phone	varchar	Phone number of the customer
	last_update	timestamp	Timestamp of the last update

Linked from

	Table	Join	Description
←	customer	customer.address_id = address.address_id	FK_customer_address_id
←	staff	staff.address_id = address.address_id	FK_staff_address_id
←	store	store.address_id = address.address_id	FK_store_address_id

Linked To

	Table	Join	Description
→	city	address.city_id = city.city_id	FK_city_city_id

Unique Keys

	Table	Description
🔑	address_id	PK_address_id
🔑	address, address2, district, postal_code, phone	AK_address_address_address2_district_postal_code_phone
🔑	city_id	AK_address_city_id

1.2.3: Table: Language

	Columns	Data Type	Description
🔑	language_id	Serial	ID of the language in series: 001, 002, 003 etc.
	name	bpchar	Name of the language
	last_update	timestamp	Timestamp of the last update

Linked from

	Table	Join	Description
←	film	film.language_id = language.language_id	FK_film_language_id

Unique Keys

	Table	Description
🔑	language_id	PK_language_id
🔑	name	AK_language_name

1.2.4: Table: City

	Columns	Data Type	Description
🔑	city_id	Serial	ID of the city of the customer
	city	varchar	Name of the city of the customer
	country_id	int2	Name of the country of the customer
	last_update	timestamp	Timestamp of the last update

Linked From

	Table	Join	Description
←	address	address.city_id = city.city_id	FK_address_city_id

Linked to

	Table	Join	Description
➡️	country	city.country_id = country.country_id	FK_country_id

Unique Keys

	Table	Description
🔑	city_id	PK_city_id
🔑	city	AK_city_city
🔑	country_id	AK_city_country_id

1.2.5: Table: Country

	Columns	Data Type	Description
🔑	country_id	Serial	ID of the country of the customer
	country	varchar	Name of the country of the customer
	last_update	timestamp	Timestamp of the last update

Linked From

	Table	Join	Description
⬅️	city	city.country_id = country.country_id	FK_city_country_id

Unique Keys

	Table	Description
🔑	Country_id	PK_country_id
🔑	country	AK_country_country