



Data Dictionary

Rockbuster Stealth LLC

Table of Contents

1 Rockbuster Database ERD 2

2 Fact Tables 3

 2.1 Payment 3

 2.2 Rental..... 3

3 Dimension Tables 4

 3.1 Customer 4

 3.2 Staff 4

 3.3 Store 5

 3.4 Address 5

 3.5 City 5

 3.6 Country 6

 3.7 Film 6

 3.8 Inventory..... 6

 3.9 Language 7

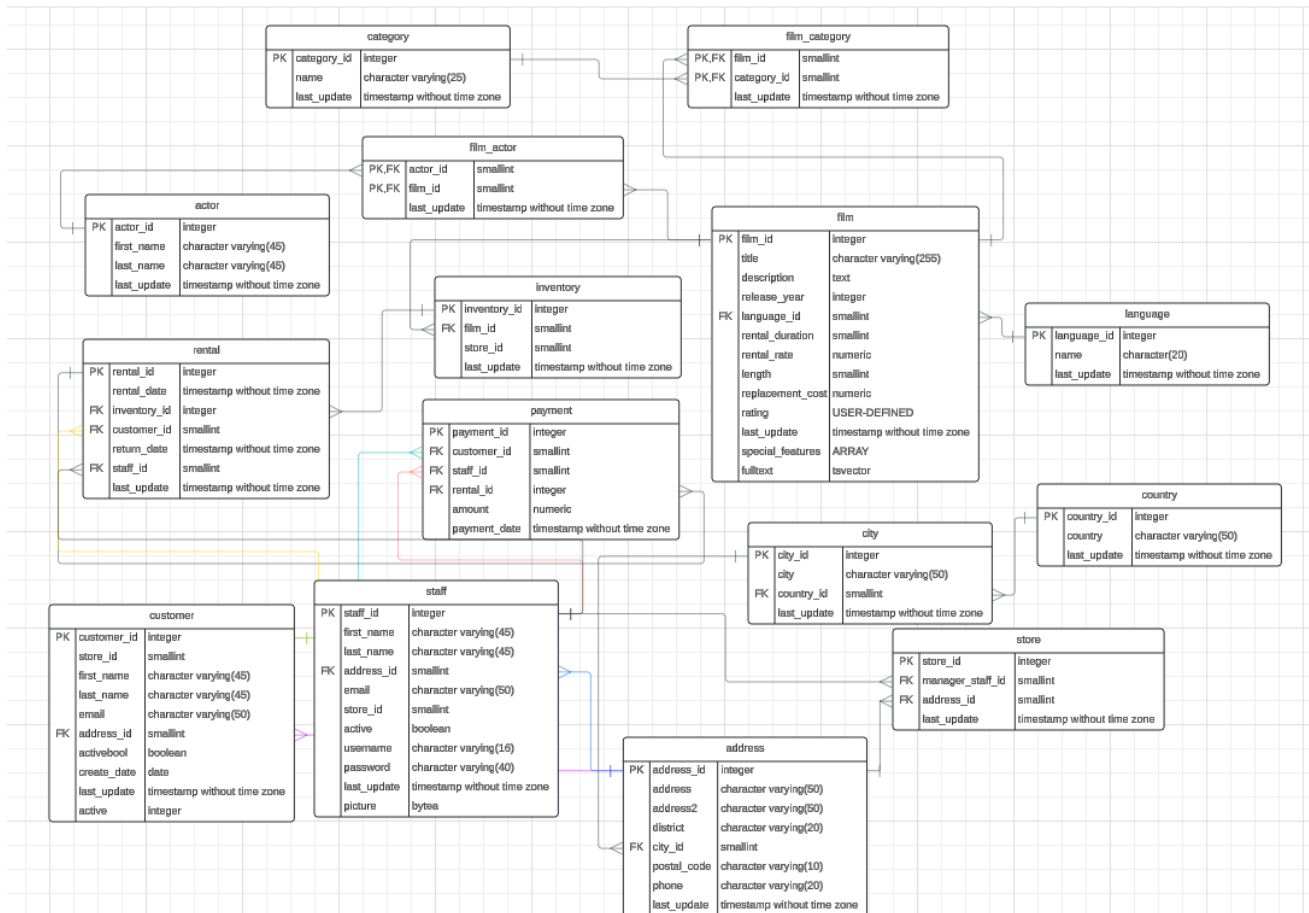
 3.10 Film_actor..... 7

 3.11 Actor..... 7

 3.12 Film_category..... 7

 3.13 Category 8

1 Rockbuster Database ERD



2 Fact Tables

2.1 Payment

Key	Column	Data type	Description
Primary	payment_id	SERIAL	Unique identifier for a payment
Foreign	customer_id	SMALLINT	Unique identifier for each customer
Foreign	staff_id	SMALLINT	Unique identifier for each staff member
Foreign	rental_id	INTEGER	Unique identifier per rental transaction
	amount	NUMERIC(5,2)	Price of rental; max value 999.99
	payment_date	TIMESTAMP(6) W/O TIME ZONE	Date of payment (hours:minutes:sec)

Links To/From	Table	Join
→	rental	rental.rental_id = payment.rental_id
→	customer	customer.customer_id = payment.customer_id
→	staff	staff.staff_id = payment.staff_id

2.2 Rental

Key	Column	Data type	Description
Primary	rental_id	SERIAL	Unique identifier per rental transaction
	rental_date	TIMESTAMP(6) W/O TIME ZONE	Rental date & time (yyyy-mm-dd) (hours:minutes:sec)
Foreign	inventory_id	INTEGER	Unique identifier of a film or item in inventory
Foreign	customer_id	SMALLINT	Unique identifier for customer
	return_date	TIMESTAMP(6) W/O TIME ZONE	Date to be returned (yyyy-mm-dd) (hours:minutes:sec)
Foreign	staff_id	SMALLINT	Unique identifier for staff member
	last_update	TIMESTAMP(6) W/O TIME ZONE	Record last updated (yyyy-mm-dd) (hours:minutes:sec)

Links To/From	Table	Join
→	inventory	inventory.inventory_id = rental.inventory_id
→	customer	customer.customer_id = rental.customer_id
→	staff	staff.staff_id = rental.staff_id
←	payment	payment.rental_id = rental.rental_id

3 Dimension Tables

3.1 Customer

Key	Columns	Data type	Description
Primary	customer_id	SERIAL	Unique identifier for each customer
	store_id	SMALLINT	Unique identifier for each store
	first_name	CHARACTER VARYING(45)	Customer first name, max 45 characters
	last_name	CHARACTER VARYING(45)	Customer last name, max 45 characters
	email	CHARACTER VARYING(50)	Customer email. Max 50 characters
Foreign	address_id	SMALLINT	Customer address, linked to address table
	activebool	BOOLEAN	True / False to indicate the customer account status
	create_date	DATE	Date the customer account was created (yyyy-mm-dd)
	last_update	TIMESTAMP(6) W/O TIME ZONE	Record last updated (yyyyy-mm-dd) (hours:minutes:sec)
	active	INTEGER	Integer to indicate if the customer account is active or not

Links To/From	Table	Join
➔	Address	address.address_id = customer.address_id
➔	Rental	rental.customer_id = customer.customer_id

3.2 Staff

Key	Columns	Data type	Description
Primary	staff_id	SERIAL	Unique identifier for staff member
	first_name	CHARACTER VARYING(45)	Employee first name, max 45 characters
	last_name	CHARACTER VARYING(45)	Employee last name, max 45 characters
Foreign	address_id	SMALLINT	Employee address identifier, linked to Address table
	email	CHARACTER VARYING(50)	Employee email. Max 50 characters
	store_id	SMALLINT	Unique identifier for each store
	active	BOOLEAN	True / False to indicate the employee status
	username	CHARACTER VARYING(16)	Employee username / log-in ID, max 16 characters
	password	CHARACTER VARYING(40)	Employee password for log in, max 40 characters
	last_update	TIMESTAMP(6) W/O TIME ZONE	Record last updated (yyyyy-mm-dd) (hours:minutes:sec)
	picture	BYTEA	Employee picture. Bytea data image

Links To/From	Table	Join
➔	Address	address.address_id = staff.address_id
➔	Rental	rental.staff_id = staff.staff_id
➔	payment	payment.staff_id = staff.staff_id
➔	store	store.manager_staff_id = staff.staff_id

3.3 Store

Key	Columns	Data type	Description
Primary	store_id	SERIAL	Unique identifier for each store
Foreign	manager_staff_id	SMALLINT	Unique identifier for store manager
Foreign	address_id	SMALLINT	Store address identifier, linked to Address table
	last_update	TIMESTAMP(6) W/O TIME ZONE	Record last updated (yyyyy-mm-dd) (hours:minutes:sec)

Links To/From	Table	Join
→	Address	address.address_id = store.address_id
→	Staff	staff.staff_id = store.manager_staff_id

3.4 Address

Key	Columns	Data type	Description
Primary	address_id	SERIAL	unique number used to identify the address in this table
	address	CHARACTER VARYING(50)	Address - line1 (street number and street name)
	address2	CHARACTER VARYING(50)	Address - line2, can be a secondary address designator
	district	CHARACTER VARYING(20)	Any address district – (district / state / region name)
Foreign	city_id	SMALLINT	Unique identifier for city, linked to City table
	postal_code	CHARACTER VARYING(10)	Postal code, max 10 characters
	phone	CHARACTER VARYING(20)	Phone number related to the address, max 20 characters
	last_update	TIMESTAMP(6) W/O TIME ZONE	Record last updated (yyyyy-mm-dd) (hours:minutes:sec)

Links To/From	Table	Join
→	City	city.city_id = address.city_id
←	customer	customer.address_id = address.address_id
←	staff	staff.address_id = address.address_id
←	store	store.address_id = address.address_id

3.5 City

Key	Columns	Data type	Description
Primary	city_id	SERIAL	Unique identifier for city, linked to address table
	city	CHARACTER VARYING(50)	City name
Foreign	country_id	SMALLINT	Unique identifier for country, linked to Country table
	last_update	TIMESTAMP(6) W/O TIME ZONE	Record last updated (yyyyy-mm-dd) (hours:minutes:sec)

Links To/From	Table	Join
→	Country	country.country_id = city.country_id
←	Address	address.city_id = city.city_id

3.6 Country

Key	Columns	Data type	Description
Primary	country_id	SERIAL	Unique identifier for country
	country	CHARACTER VARYING(50)	Country name
	last_update	TIMESTAMP(6) W/O TIME ZONE	Record last updated (yyyyy-mm-dd) (hours:minutes:sec)

Links To/From	Table	Join
←	City	city.country_id = country.country_id

3.7 Film

Key	Columns	Data type	Description
Primary	film_id	SERIAL	unique identifier for each film
	title	CHARACTER VARYING(255)	Film title, fixed-length max 255 characters
	description	TEXT	Film synopsis with unlimited length
	release_year	year	Integer, the year the film was released
Foreign	language_id	SMALLINT	Unique identifier for language; linked to Language table
	rental_duration	SMALLINT	Number of days the item was rented for
	rental_rate	NUMERIC(4,2)	Rental rate
	length	SMALLINT	Length of the film (minutes)
	replacement_cost	NUMERIC(5,2)	Cost charged in event of loss or damage of rental item.
	rating	mpaa_rating	Film rating introduced by Movie Picture Association
	last_update	TIMESTAMP(6) W/O TIME ZONE	Record last updated (yyyyy-mm-dd) (hours:minutes:sec)
	special_features	TEXT[]	Extra videos related to the film available for audience
	fulltext	TSVECTOR	Text-searchable data of film

Links To/From	Table	Join
→	Language	language.language_id = film.language_id
←	Inventory	inventory.film_id = film.film_id
←	film_category	film_category.film_id = film.film_id
←	film_actor	film_actor.film_id = film.film_id

3.8 Inventory

Key	Columns	Data type	Description
Primary	inventory_id	SERIAL	Unique identifier of a film or item in inventory
Foreign	film_id	SMALLINT	Unique identifier for each film
	store_id	SMALLINT	Unique identifier for each store
	last_update	TIMESTAMP(6) W/O TIME ZONE	Record last updated (yyyyy-mm-dd) (hours:minutes:sec)

Links To/From	Table	Join
→	film	film.film_id = inventory.film_id

Links To/From	Table	Join
←	rental	rental.inventory_id = inventory.inventory_id

3.9 Language

Key	Columns	Data type	Description
Primary	language_id	SERIAL	Unique identifier for language
	name	CHARACTER(20)	The name of the language of the film audio
	last_update	TIMESTAMP(6) W/O TIME ZONE	Record last updated (yyyy-mm-dd) (hours:minutes:sec)

Links To/From	Table	Join
←	film	film.language_id = language .language_id

3.10 Film_actor

Key	Columns	Data type	Description
Composite	actor_id	SMALLINT	Unique identifier for actor; Foreign key to <i>Actor</i> table
Composite	film_id	SMALLINT	Unique identifier for each film
	last_update	TIMESTAMP(6) W/O TIME ZONE	Record last updated (yyyy-mm-dd) (hours:minutes:sec)

Links To/From	Table	Join
→	Film	film.film_id = Film_actor.film_id
→	actor	actor.actor_id = Film_actor.actor_id

3.11 Actor

Key	Columns	Data type	Description
Primary	actor_id	SERIAL	Unique identifier for actor
	first_name	CHARACTER VARYING(45)	Actor's first name, max 45 characters
	last_name	CHARACTER VARYING(45)	Actor's last name, max 45 characters
	last_update	TIMESTAMP(6) W/O TIME ZONE	Record last updated (yyyy-mm-dd) (hours:minutes:sec)

Links To/From	Table	Join
←	film_actor	film_actor.actor_id = actor.actor_id

3.12 Film_category

Key	Columns	Data type	Description
Composite	film_id	SMALLINT	Unique identifier for each film. Foreign key to <i>Film</i> table.
Composite	category_id	SMALLINT	Unique identifier of film category; Foreign key to <i>Category</i>
	last_update	TIMESTAMP(6) W/O TIME ZONE	Record last updated (yyyy-mm-dd) (hours:minutes:sec)

Links To/From	Table	Join
➔	film	film.film_id = film_category.film_id
➔	category	category.category_id = film_category.category_id

3.13 Category

Key	Columns	Data type	Description
Primary	category_id	SERIAL	Unique identifier for film category
	name	CHARACTER VARYING(25)	Name of the film category, max 25 characters
	last_update	TIMESTAMP(6) W/O TIME ZONE	Record last updated (yyyy-mm-dd) (hours:minutes:sec)

Links To/From	Table	Join
←	film_category	film_category.category_id = category.category_id