ROCKBUSTER MOVIE RENTALS
Data Dictionary

Table of Contents

Legend

- 🔑 Primary key
- 🔑 Primary key disabled
- 🔑 User-defined primary key
- 🔑 Unique key
- 🔑 Unique key disabled
- 🔑 User-defined unique key
- ⚡ Active trigger
- ⚡ Disabled trigger
- ➤ Primary key relation
- ⇥@ Input
- @⇥ Output
- ⇄@ Input/Output
    - *N*   Nullable

1. Rockbuster LLC

Rockbuster Stealth LLC is a movie rental company that used to have stores around the world. This is a documentation of the databases tables and structures available for the movie rental transactions, customer, information, and movie inventory data.

2. Business Entities
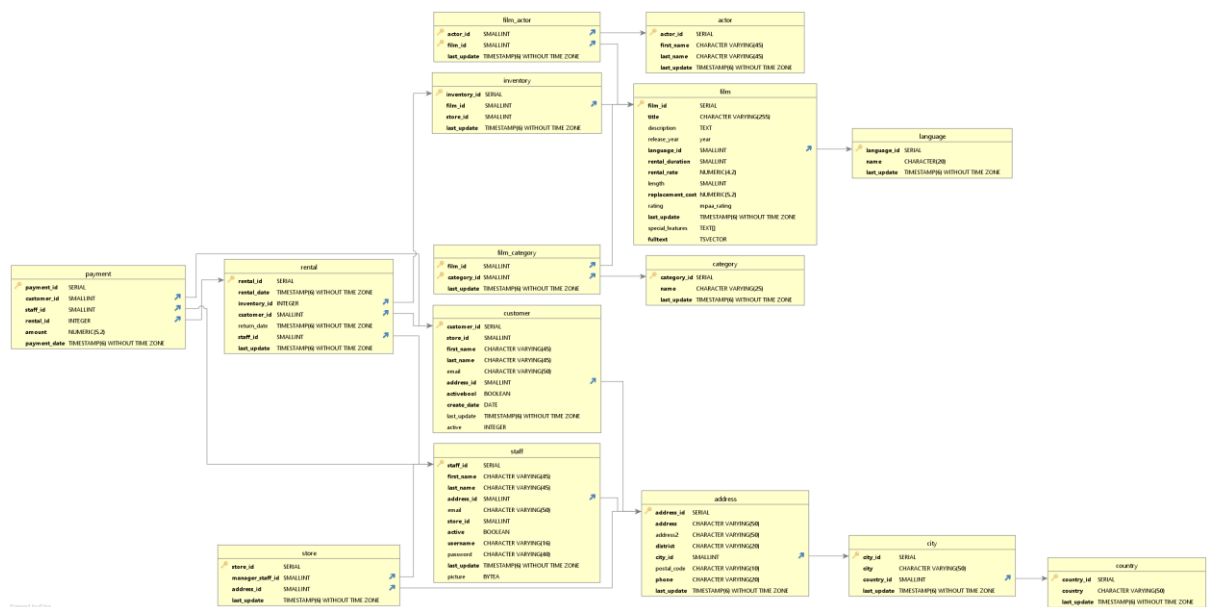
3. Tables

3.1. Table: Address

Street address information for customers, employees, and stores.

Columns

	Name	Data type	N	Description / Attributes
🔑	addressID	int		Primary key for Address records. Identity / Auto increment column
	address	varchar(50)		First street address line.
	address2	varchar(50)	*N*	Second street address line.
	district	varchar(20)		Name of the district.
	city_id	smallint		city_id from city table
	postal_code	varchar(10)	*N*	Postal code for the street address.
	Phone	Varchar(20)		Phone number
	last_update	datetime		Date and time the record was last updated. Default: now()

Links to

Table	Join	Title / Name / Description
Store	store.address_id=address.address_id	store_address_id_fkey Foreign key constraint referencing store.address_id
Staff	staff.address_id=address.address_id	staff_address_id_fkey Foreign key constraint referencing staff.address_id
Customer	customer.address_id=address.address_id	customer_address_id_fkey Foreign key constraint referencing customer.address_id

Linked from

Table	Join	Title / Name / Description
city	city.city_id=address.city_id	fk_address_city Foreign key constraint referencing city.city_id

Unique keys

	Columns	Name / Description
🔑	address_id	address_pkey

3. 2.   Table: Actor

Actor names of the films.

Columns

Name	Data type	N	Description / Attributes

	Name	Data type	N	Description / Attributes
🔑	actor_id	int		Primary key for actor records. Identity / Auto increment column Default: nextval('actor_actor_id_seq'::regclass)
	first_name	varchar(45)		First name
	last_name	varchar(45)		Last name
	last_update	datetime		Date and time the record was last updated. Default: now()

Links to

Table	Join	Title / Name / Description
film_actor	film_actor.actor_id=actor.actor_id	film_actor_actor_id_fkey Foreign key constraint referencing film_actor.actor_id

Unique keys

	Columns	Name / Description
🔑	actor_id	actor_pkey

3. 3.   Table: Category

Film category details

Columns

	Name	Data type	N	Description / Attributes
🔑	category_id	int		Primary key for category records. Identity / Auto increment column Default: nextval('actor_actor_id_seq'::regclass)
	name	varchar(25)		Category name
	last_update	datetime		Date and time the record was last updated. Default: now()

Links to

Table	Join	Title / Name / Description
film_category	film_category.category_id=category.category_id	film_category_category_id_fkey Foreign key constraint referencing Film_category.category_id

Unique keys

	Columns	Name / Description
🔑	category_id	category_pkey

3. 4.   Table: City

City name table

Columns

	Name	Data type	N	Description / Attributes
🔑	city_id	int		Primary key for city records. Identity / Auto increment column Default: nextval('actor_actor_id_seq'::regclass)
	name	varchar(50)		City name
	country_id	smallint		Country_id from country table
	last_update	datetime		Date and time the record was last updated. Default: now()

Links to

Table	Join	Title / Name / Description
address	address.city_id=city.city_id	fk_address_city Foreign key constraint referencing address.city_id

Linked from

Table	Join	Title / Name / Description
country	country.country_id=city.country_id	fk_city Foreign key constraint referencing country.country_id

Unique keys

	Columns	Name / Description
🔑	city_id	city_pkey

3. 5. Table: Country

Country data

Columns

	Name	Data type	N	Description / Attributes
🔑	country_id	int		Primary key for country records. Identity / Auto increment column Default: nextval('actor_actor_id_seq'::regclass)
	country	varchar(50)		Country name
	last_update	datetime		Date and time the record was last updated. Default: now()

Links to

Table	Join	Title / Name / Description
city	city.country_id=country.country_id	fk_city Foreign key constraint referencing city.country_id

Unique keys

Columns	Name / Description

🔑 country_id	country_pkey	

3. 6. Table: Customer

Customer details like name, address

Columns

	Name	Data type	N	Description / Attributes
🔑	customer_id	int		Primary key for customer records. Identity / Auto increment column Default: nextval('actor_actor_id_seq'::regclass)
	store_id	smallint		Store_id can be referenced from store table
	first_name	varchar(45)	*N*	First name of customer
	last_name	varchar(45)		Last name of customer
	email	varchar(50)		Email id of customer
	address_id	smallint		Foreign key from address table. Refers to customer's address
	activebool	boolean		Default: true
	create_date	date		Date of the record creation. Default: ('now'::text)::date
	last_update	datetime	*N*	Date and time the record was last updated. Default: now()
	active	integer	*N*	0/1 flag to identify if the customer is active or inactive

Links to

Table	Join	Title / Name / Description
rental	rental.customer_id=customer.customer_id	rental_customer_id_fkey Foreign key constraint referencing rental.customer_id
payment	payment..customer_id=customer.customer_id	payment_customer_id_fkey Foreign key constraint referencing payment.customer_id

Linked from

Table	Join	Title / Name / Description
address	address.address_id=customer.address_id	customer_address_id_fkey Foreign key constraint referencing Address.address_id

Unique keys

Columns	Name / Description
🔑 customer_id	customer_pkey

3. 7. Table: Film

Film information like title, language, release year etc

Columns

	Name	Data type	N	Description / Attributes
🔑	film_id	int		Primary key for Address records. Identity / Auto increment column
	title	varchar(50)		First street address line.
	description	varchar(50)	N	Second street address line.
	release_year	varchar(20)		Name of the district.
	release_year	smallint		city_id from city table
	rental_duration	varchar(10)	N	Postal code for the street address.
	phone	varchar(20)		Phone number
	last_update	datetime		Date and time the record was last updated. Default: now()

Links to

Table	Join	Title / Name / Description
store	store.address_id=address.address_id	store_address_id_fkey Foreign key constraint referencing store.address_id
staff	staff.address_id=address.address_id	staff_address_id_fkey Foreign key constraint referencing staff.address_id
customer	customer.address_id=address.address_id	customer_address_id_fkey Foreign key constraint referencing customer.address_id

Linked from

Table	Join	Title / Name / Description
city	city.city_id=address.city_id	fk_address_city Foreign key constraint referencing city.city_id

Unique keys

	Columns	Name / Description
🔑	address_id	address_pkey

3. 8.   Table: Film_actor

Mapping of films with actor.

Columns

	Name	Data type	N	Description / Attributes
🔑	actor_id	int		Primary key and foreign key referencing actor_id from actor table.
🔑	film_id	smallint		Primary key and foreign key referencing film_id from film table.
	last_update	datetime		Date and time the record was last updated. Default: now()

Linked from

Table	Join	Title / Name / Description
actor	actor.actor_id=film_actor.actor_id	film_actor_actor_id_fkey Foreign key constraint referencing actor.actor_id
film	film.film_id=film_actor.film_id	film_actor_film_id_fkey Foreign key constraint referencing film.film_id

Unique keys

	Columns	Name / Description
🔑	actor_id and film_id	film_actor_pkey

3. 9.   Table: film_category

Table to link film with categories.

Columns

	Name	Data type	N	Description / Attributes
🔑	film_id	int		Primary key and foreign key referencing film_id from film table
🔑	category_id	smallint		Primary key and foreign key referencing category_id from category table
	last_update	datetime		Date and time the record was last updated. Default: now()

Linked from

Table	Join	Title / Name / Description
film	film.film_id=film_category.film_id	film_category_film_id_fkey Foreign key constraint referencing film.film_id
category	category.category_id=film_category.category_id	film_category_category_id_fkey Foreign key constraint referencing category.category_id

Unique keys

	Columns	Name / Description
🔑	film_id and category_id	film_category_pkey

3. 10.   Table: inventory

Inventory details containing which movies are available in which stores.

Columns

	Name	Data type	N	Description / Attributes
🔑	inventory_id	int		Primary key for inventory records. Identity / Auto increment column Default: nextval('inventory_inventory_id_seq'::regclass)
	film_id	smallint		Foreign key referencing film_id from film_table

	store_id	smallint		Unique ID for store, Store_id from store table
	last_update	datetime		Date and time the record was last updated. Default: now()

Links to

Table	Join	Title / Name / Description
rental	rental.inventory_id=inventory.inventory_id	rental_inventory_id_fkey Foreign key constraint referencing rental.inventory_id

Linked from

Table	Join	Title / Name / Description
film	film.film_id=inventory.film_id	inventory_film_id_fkey Foreign key constraint referencing film.film_id

Unique keys

	Columns	Name / Description
🔑	inventory_id	inventory_pkey

3. 11.   Table: Language

Street address information for customers, employees, and stores.

Columns

	Name	Data type	N	Description / Attributes
🔑	language_id	int		Primary key for language records. Identity / Auto increment column nextval('language_language_id_seq'::regclass)
	name	varchar(50)		Language name
	last_update	datetime		Date and time the record was last updated. Default: now()

Links to

Table	Join	Title / Name / Description
film	film.language_id=language.language_id	film_language_id_fkey Foreign key constraint referencing film.language_id

Unique keys

	Columns	Name / Description
🔑	language_id	language_pkey

3. 12.   Table: Payment

Stores rental details like payment, film, amount, and date

Columns

	Name	Data type	N	Description / Attributes
🔑	payment_id	int		Primary key for payment records. Identity / Auto increment column nextval('payment_payment_id_seq'::regclass)
	customer_id	smallint		Foreign key referencing Customer_id from customer table. Customer who is making the payment.
	staff_id	smallint	N	Foreign key referencing staff_id from staff table. Staff who handled the payment
	rental_id	int		Foreign key referencing rental_id from rental table. Rental being paid.
	amount	numeric(5,2)		Amount of length 5 digits and 2 decimal points.(Max 99999.99)
	payment_date	datetime		Date and time the payment was done

Linked from

Table	Join	Title / Name / Description
customer	customer.customer_id=payment.customer_id	payment_customer_id_fkey Foreign key constraint referencing customer.customer_id
rental	rental.rental_id=payment.rental_id	payment_rental_id_fkey Foreign key constraint referencing rental.rental_id
staff	staff.staff_id=payment.staff_id	payment_staff_id_fkey Foreign key constraint referencing staff.staff_id

Unique keys

	Columns	Name / Description
🔑	payment_id	payment_pkey

3. 13.   Table: Rental

Rental information recording inventory, customer and staff information making the rental.

Columns

	Name	Data type	N	Description / Attributes
🔑	rental_id	int		Primary key for rental records. Identity / Auto increment column Default: nextval('rental_rental_id_seq'::regclass)
	rental_date	datetime		Date and time of rental
	inventory_id	int		Foreign key referencing inventory_id from inventory table
	customer_id	smallint		Foreign key referencing customer_id from customer table
	return_date	datetime	N	Date and time of return of movie. This can be NULL when rental is being registered
	staff_id	smallint		Foreign key referencing staff_id from staff table Staff who is entering rental into the system.
	last_update	datetime		Date and time the record was last updated. Default: now()

Links to

Table	Join	Title / Name / Description
payment	payment.rental_id=rental.rental_id	payment_rental_id_fkey Foreign key constraint referencing rental.rental_id

Linked from

Table	Join	Title / Name / Description
customer	customer.customer_id=rental.customer_id	rental_customer_id_fkey Foreign key constraint referencing customer.customer_id
Inventory	inventory.inventory_id=rental.inventory_id	rental_inventory_id_fkey Foreign key constraint referencing inventory.inventory_id
staff	staff.staff_id=rental.staff_id	rental_staff_id_key Foreign key constraint referencing staff.staff_id

Unique keys

	Columns	Name / Description
🔑	rental_id	rental_pkey

3. 14.   Table: Staff

Information about staff like staff id, address, email ID, user name and password.

Columns

	Name	Data type	N	Description / Attributes
🔑	staff_id	int		Primary key for staff records. Identity / Auto increment column Default: nextval('rental_rental_id_seq'::regclass)
	first_name	varchar(45)		First name of the staff
	last_name	varchar(45)		Last name of the staff
	address_id	smallint		Foreign key referencing address_id from address table
	email	varchar(50)	N	Email ID of the staff
	store_id	Smallint		Store_id of the staff employed in
	active	boolean		Status of employment
	username	varchar(16)		Username of the staff
	password	varchar(40)	N	Password of the staff
	last_update	datetime		Date and time the record was last updated. Default: now()
	photo	bytea	N	Photo of the staff

Links to

Table	Join	Title / Name / Description
payment	payment.staff_id=staff.staff_id	payment_staff_id_fkey Foreign key constraint referencing staff.staff_id
rental	rental.staff_id=staff.staff_id	rental_staff_id_key Foreign key constraint referencing staff.staff_id

Linked from

Table	Join	Title / Name / Description
address	address.address_id=staff.address_id	staff_address_id_fkey Foreign key constraint referencing address.address_id

Unique keys

	Columns	Name / Description
🔑	staff_id	staff_pkey

3. 15.   Table: Store

Store information like store ID, manager ID and address

Columns

	Name	Data type	N	Description / Attributes
🔑	store_id	int		Primary key for store records. Identity / Auto increment column Default: nextval('rental_rental_id_seq'::regclass)
	manager_staff_id	smallint		Foreign key , Manager staff_id from staff table
	address_id	smallint		Foreign key address_id from address table
	last_update	datetime		Date and time the record was last updated. Default: now()

Linked from

Table	Join	Title / Name / Description
address	address.address_id=store.address_id	store_address_id_fkey Foreign key constraint referencing address.address_id
staff	staff.staff_id=store.manager_staff_id	store_manager_staff_id_fkey Foreign key constraint referencing staff.staff_id

Unique keys

	Columns	Name / Description
🔑	store_id	store_pkey