September 2024

Rockbuster Stealth LLC

DATA DICTIONARY

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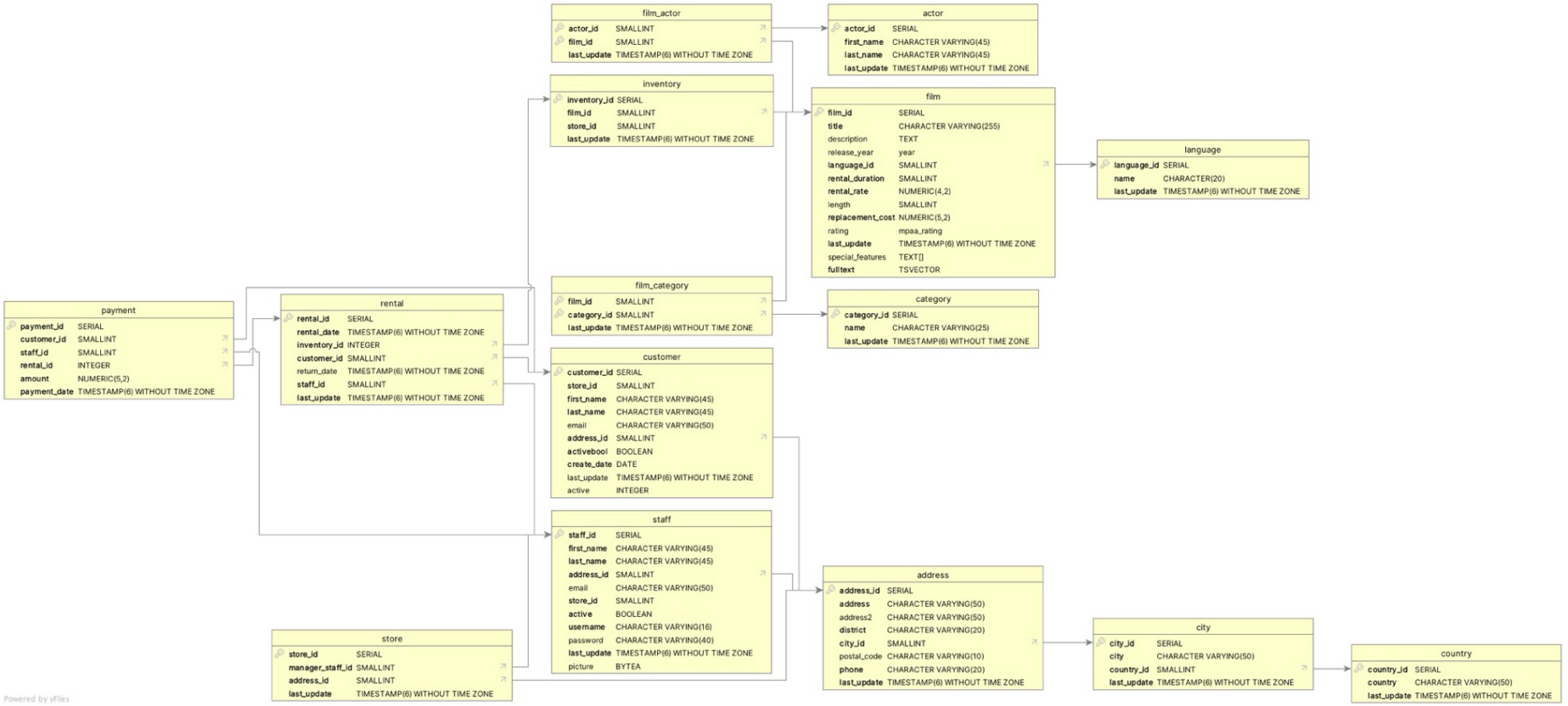
Entity Relationship Diagram



Fact Tables

Rental

Columns

	Column	Data type	Description
🔑 ➡️	rental_id	integer	Unique identifier for rental transaction
	rental_date	timestamp without time zone	Date & time of rental transaction
🔗 ⬅️	inventory_id	integer	Unique identifier for film rented
🔗 ⬅️	customer_id	smallint	Unique identifier for customer renting film
	return_date	timestamp without time zone	Date & time when film should be returned
🔗 ⬅️	staff_id	smallint	Unique identifier for staff member processing rental transaction
	last_update	timestamp without time zone	Date & time record was last updated

Linked from

Legend	Table	Link on
➡️	Payment	rental_id

Links to

Legend	Table	Link on
⬅️	Inventory	inventory_id
⬅️	Customer	customer_id
⬅️	Staff	staff_id

Unique keys

Legend	Column	Description
🔑	rental_id	Primary key
🔗	inventory_id	Foreign key
🔗	customer_id	Foreign key
🔗	staff_id	Foreign key

Payment

Columns

Legend	Column	Data type	Description
🔑 ➡️	payment_id	integer	Unique identifier for payment
🔗 ⬅️	customer_id	smallint	Unique identifier for customer making payment
🔗 ⬅️	staff_id	smallint	Unique identifier for staff member processing payment
🔗 ⬅️	rental_id	integer	Unique identifier for applicable rental transaction
	amount	numeric	Amount paid
	payment_date	timestamp without time zone	Date & time of payment

Links to

Legend	Table	Link on
⬅️	Customer	customer_id
⬅️	Staff	staff_id
⬅️	Rental	rental_id

Unique keys

Legend	Column	Description
🔑	payment_id	Primary key
🔗	customer_id	Foreign key
🔗	staff_id	Foreign key
🔗	rental_id	Foreign key

Dimension Tables

Inventory

Columns

Legend	Column	Data type	Description
🔑 ➡️	inventory_id	integer	Unique identifier for inventory item
🔗 ⬅️	film_id	smallint	Unique identifier for film linked to inventory item
🔗 ⬅️	store_id	smallint	Unique identifier for store where inventory item is located
	last_update	timestamp without time zone	Date & time record was last updated

Linked from

Legend	Table	Link on
➡️	Rental	inventory_id

Links to

Legend	Table	Link on
⬅️	Film	film_id
⬅️	Store	store_id

Unique keys

Legend	Column	Description
🔑	inventory_id	Primary key
🔗	film_id	Foreign key
🔗	store_id	Foreign key

Film

Columns

Legend	Column	Data type	Description
🔑 ➡️	film_id	integer	Unique identifier for film
	title	character varying(255)	Title of film
	description	text	Description / synopses of film
	release_year	integer	Year film was released
🔗 ⬅️	language_id	smallint	Unique identifier for film language
	rental_duration	smallint	Number of days film has been rented
	rental_rate	numeric	Rental cost per day
	length	smallint	Film length in minutes
	replacement_cost	numeric	Cost to replace film
	rating	USER-DEFINED	Film age rating
	last_update	timestamp without time zone	Date & time record was last updated
	special_features	ARRAY	Special features of film
	fulltext	tsvector	Text of film

Linked from

Legend	Table	Link on
➡️	Inventory	film_id
➡️	Film Category	film_id
➡️	Film Actor	film_id

Links to

Legend	Table	Link on
⬅️	Language	language_id

Unique keys

Legend	Column	Description
🔑	film_id	Primary key
🔗	language_id	Foreign key

Language

Columns

Legend	Column	Data type	Description
🔑 ➡️	language_id	integer	Unique identifier for language
	name	character(255)	Language name
	last_update	timestamp without time zone	Date & time record was last updated

Linked from

Legend	Table	Link on
➡️	Film	language_id

Unique keys

Legend	Column	Description
🔑	language_id	Primary key

Film category

Columns

Legend	Column	Data type	Description
🔑🔗 ⬅️➡️	film_id	smallint	Unique identifier for film
🔑🔗 ⬅️➡️	category_id	smallint	Unique identifier for film category
	last_update	timestamp without time zone	Date & time record was last updated

Linked from

Legend	Table	Link on
➡️	Film Actor	film_id
➡️	Inventory	film_id

Links to

Legend	Table	Link on
⬅️	Film	film_id
⬅️	Category	category_id

Unique keys

Legend	Column	Description
🔑🔗	film_id	Primary / Foreign key
🔑🔗	category_id	Primary / Foreign key

Category

Columns

Legend	Column	Data type	Description
🔑 ➡️	category_id	integer	Unique identifier for film category
	name	character varying(25)	Film category name
	last_update	timestamp without time zone	Date & time record was last updated

Linked from

Legend	Table	Link on
➡️	Film Category	category_id

Unique keys

Legend	Column	Description
🔑	category_id	Primary key

Film actor

Columns

Legend	Column	Data type	Description
🔑🔗 ⬅️➡️	actor_id	smallint	Unique identifier for actor
🔑🔗 ⬅️➡️	film_id	smallint	Unique identifier for film
	last_update	timestamp without time zone	Date & time record was last updated

Linked from

Legend	Table	Link on
➡️	Inventory	film_id
➡️	Film Category	film_id

Links to

Legend	Table	Link on
⬅️	Actor	actor_id
⬅️	Film	film_id

Unique keys

Legend	Column	Description
🔑🔗	actor_id	Primary / Foreign key
🔑🔗	film_id	Primary / Foreign key

Actor

Columns

Legend	Column	Data type	Description
🔑 ➡️	actor_id	integer	Unique identifier for actor
	first_name	character varying(45)	First name of actor
	last_name	character varying(45)	Last name of actor
	last_update	timestamp without time zone	Date & time record was last updated

Linked from

Legend	Table	Link on
➡️	Film actor	actor_id

Unique keys

Legend	Column	Description
🔑	actor_id	Primary key

Customer

Columns

Legend	Column	Data type	Description
🔑 ➡️	customer_id	integer	Unique identifier for customer
🔗 ⬅️	store_id	smallint	Unique identifier for store where customer is registered.
	first_name	character varying(45)	First name of customer
	last_name	character varying(45)	Last name of customer
	email	character varying(50)	Email address of customer
🔗 ⬅️	address_id	smallint	Unique identifier for customer address
	activebool	boolean	Customer status: Active / Inactive (True / False)
	create_date	date	Date customer record was created
	last_update	timestamp without time zone	Date & time record was last updated
	active	integer	Customer status: Active / Inactive (1/0)

Linked from

Legend	Table	Link on
➡️	Rental	customer_id
➡️	Payment	customer_id

Links to

Legend	Table	Link on
⬅️	Store	store_id
⬅️	Address	address_id

Unique keys

Legend	Column	Description
🔑	customer_id	Primary key
🔗	store_id	Foreign key
🔗	address_id	Foreign key

Staff

Columns

Legend	Column	Data type	Description
🔑 ➡️	staff_id	integer	Unique identifier for staff member
	first_name	character varying(45)	First name of staff member
	last_name	character varying(45)	Last name of staff member
🔗 ⬅️	address_id	Smallint	Unique identifier for staff address
	email	character varying(50)	Email address of staff member
🔗 ⬅️	store_id	smallint	Unique identifier for store linked to staff profile.
	active	boolean	Staff status: Active / Inactive (True / False)
	username	character varying(16)	Username for staff member
	password	character varying(40)	Password for staff member
	last_update	timestamp without time zone	Date & time record was last updated
	picture	bytea	Picture of staff member

Linked from

Legend	Table	Link on
➡️	Rental	staff_id
➡️	Payment	staff_id
➡️	Store	staff_id

Links to

Legend	Table	Link on
⬅️	Address	address_id
⬅️	Store	store_id

Unique keys

Legend	Column	Description
🔑	staff_id	Primary key
🔗	address_id	Foreign key
🔗	store_id	Foreign key

Store

Columns

Legend	Column	Data type	Description
🔑 ➡️	store_id	integer	Unique identifier for store
🔗 ⬅️	manager_staff_id	smallint	Unique identifier for staff member who is the store manager
🔗 ⬅️	address_id	smallint	Unique identifier for store address
	last_update	timestamp without time zone	Date & time record was last updated

Linked from

Legend	Table	Link on
➡️	Inventory	store_id
➡️	Customer	store_id
➡️	Staff	store_id

Links to

Legend	Table	Link on
⬅️	Staff	manager_staff_id
⬅️	Address	address_id

Unique keys

Legend	Column	Description
🔑	store_id	Primary key
🔗	manager_staff_id	Foreign key
🔗	address_id	Foreign key

Address

Columns

Legend	Column	Data type	Description
🔑 ➡️	address_id	Integer	Unique identifier for address
	address	character varying(50)	Address details
	address2	character varying(50)	Additional address details
	district	character varying(20)	Name of district
🔗 ⬅️	city_id	smallint	Unique identifier for city
	postal_code	character varying(10)	Postal code
	phone	character varying(20)	Phone number
	last_update	timestamp without time zone	Date & time record was last updated

Linked from

Legend	Table	Link on
➡️	Customer	address_id
➡️	Staff	address_id
➡️	Store	address_id

Links to

Legend	Table	Link on
⬅️	City	city_id

Unique keys

Legend	Column	Description
🔑	address_id	Primary key
🔗	city_id	Foreign key

City

Columns

Legend	Column	Data type	Description
🔑 ➡️	city_id	integer	Unique identifier for city
	city	character varying(50)	City name
🔗 ⬅️	country_id	smallint	Unique identifier for country
	last_update	timestamp without time zone	Date & time record was last updated

Linked from

Legend	Table	Link on
➡️	Address	city_id

Links to

Legend	Table	Link on
⬅️	Country	country_id

Unique keys

Legend	Column	Description
🔑	city_id	Primary key
🔗	country_id	Foreign key

Country

Columns

Legend	Column	Data type	Description
🔑 ➡️	country_id	integer	Unique identifier for country
	country	character varying(50)	Country name
	last_update	timestamp without time zone	Date & time record was last updated

Linked from

Legend	Table	Link on
➡️	City	country_id

Unique keys

Legend	Column	Description
🔑	country_id	Primary key