Rockbuster

Data Dictionary

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Table of Contents

Entity Relationship Diagram

language

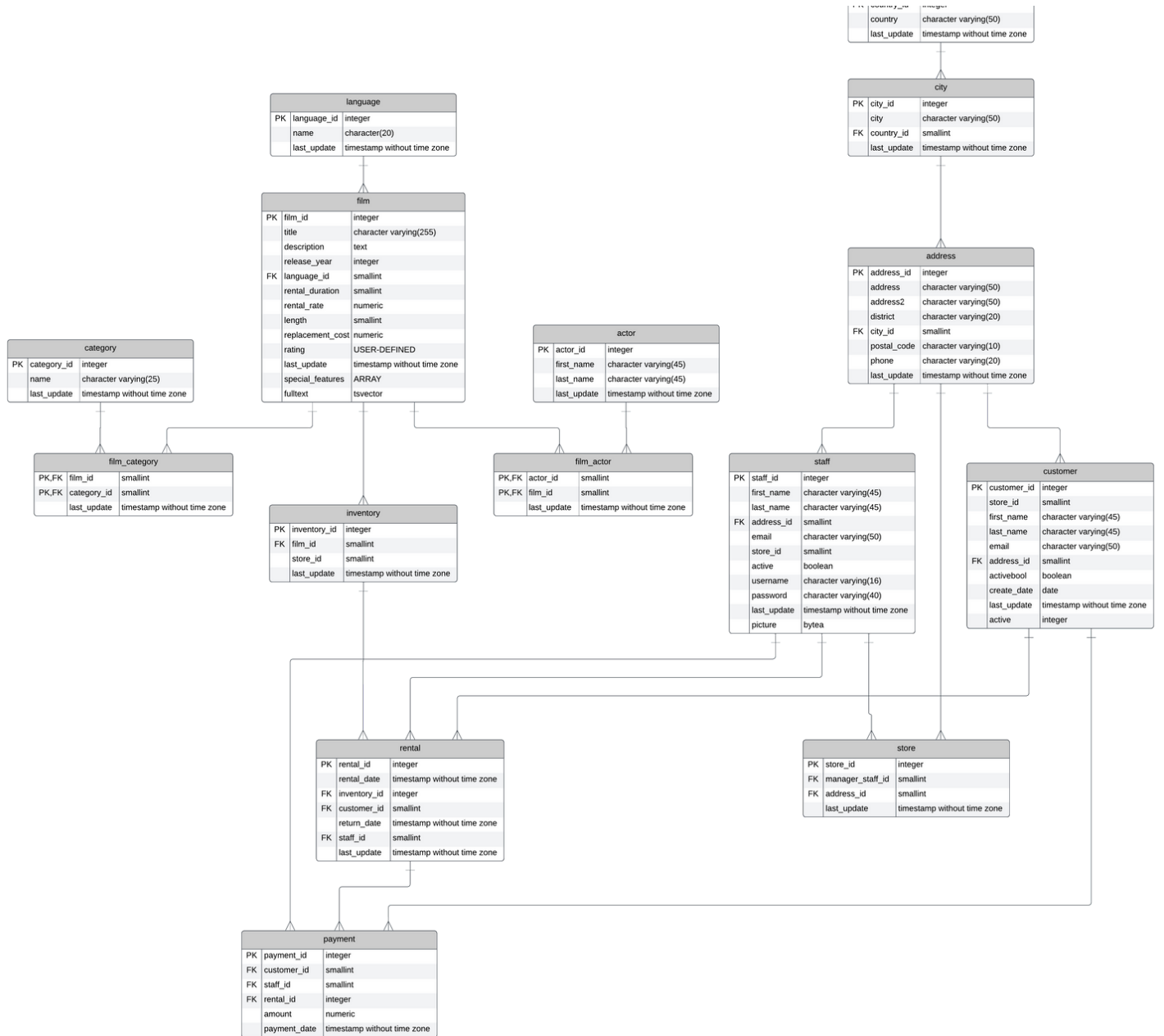|		
PK	language_id	integer
	name	character(20)
	last_update	timestamp without time zone

film

PK	film_id	integer
	title	character varying(255)
	description	text
	release_year	integer
FK	language_id	smallint
	rental_duration	smallint
	rental_rate	numeric
	length	smallint
	replacement_cost	numeric
	rating	USER-DEFINED
	last_update	timestamp without time zone
	special_features	ARRAY
	fulltext	tsvector

category

PK	category_id	integer
	name	character varying(25)
	last_update	timestamp without time zone

actor

PK	actor_id	integer
	first_name	character varying(45)
	last_name	character varying(45)
	last_update	timestamp without time zone

film_category

PK,FK	film_id	smallint
PK,FK	category_id	smallint
	last_update	timestamp without time zone

film_actor

PK,FK	actor_id	smallint
PK,FK	film_id	smallint
	last_update	timestamp without time zone

inventory

PK	inventory_id	integer
FK	film_id	smallint
	store_id	smallint
	last_update	timestamp without time zone

country

	country_id	integer
	country	character varying(50)
	last_update	timestamp without time zone

city

PK	city_id	integer
	city	character varying(50)
FK	country_id	smallint
	last_update	timestamp without time zone

address

PK	address_id	integer
	address	character varying(50)
	address2	character varying(50)
	district	character varying(20)
FK	city_id	smallint
	postal_code	character varying(10)
	phone	character varying(20)
	last_update	timestamp without time zone

staff

PK	staff_id	integer
	first_name	character varying(45)
	last_name	character varying(45)
FK	address_id	smallint
	email	character varying(50)
	store_id	smallint
	active	boolean
	username	character varying(16)
	password	character varying(40)
	last_update	timestamp without time zone
	picture	bytea

customer

PK	customer_id	integer
	store_id	smallint
	first_name	character varying(45)
	last_name	character varying(45)
	email	character varying(50)
FK	address_id	smallint
	activebool	boolean
	create_date	date
	last_update	timestamp without time zone
	active	integer

rental

PK	rental_id	integer
	rental_date	timestamp without time zone
FK	inventory_id	integer
FK	customer_id	smallint
	return_date	timestamp without time zone
FK	staff_id	smallint
	last_update	timestamp without time zone

store

PK	store_id	integer
FK	manager_staff_id	smallint
FK	address_id	smallint
	last_update	timestamp without time zone

payment

PK	payment_id	integer
FK	customer_id	smallint
FK	staff_id	smallint
FK	rental_id	integer
	amount	numeric
	payment_date	timestamp without time zone

payment

	Columns	Data Type	Description
PK	payment_id	integer	Unique ID of actor
FK	customer_id	smallint	First name of actor
FK	staff_id	smallint	Unique ID of staff member
FK	rental_id	integer	Unique ID of rented item
	amount	numeric	Dollar amount of transaction
	last_update	timestamp without time zone	Last date the table was updated

Links to		Links from	
Table	Join	Table	Join
staff	payment.staff_id = staff.staff_id		
rental	payment.rental_id = rental.rental_id		
customer	payment.customer_id = customer.customer_id		

rental

	Columns	Data Type	Description
PK	rental_id	integer	Unique ID of a rental record
	rental_date	timestamp without time zone	Date of a rental
FK	inventory_id	integer	Unique ID of a piece of inventory
FK	customer_id	smallint	Unique ID of a customer
	return_date	timestamp without time zone	Date of a rental return
FK	staff_id	smallint	Unique ID of a staff member
	last_update	timestamp without time zone	Last date the table was updated

Links to		Links from	
Table	Join	Table	Join
inventory	rental.inventory_id = inventory.inventory_id	payment	rental.rental_id = payment.rental_id
staff	rental.staff_id = staff.staff_id		
customer	rental.customer_id = customer.customer_id		

inventory

	Columns	Data Type	Description
PK	inventory_id	integer	Unique ID of inventory item
FK	film_id	smallint	Unique ID of film (inventory item)
	store_id	smallint	Unique ID of store where inventory item is
	last_update	timestamp without time zone	Last date the table was updated

Links to		Links from	
Table	Join	Table	Join
film	inventory.film_id = film.film_id	rental	inventory.inventory_id = rental.inventory_id

film

	Columns	Data Type	Description
PK	film_id	integer	Unique ID of film
	title	character varying(255)	Title of film
	description	text	Short one-line description of film
	release_year	integer	Last date the table was updated
FK	language_id	smallint	Unique ID of language of film
	rental_duration	smallint	Number of days film was rented for
	rental_rate	numeric	Cost of film rental
	length	smallint	Length of film (runtime)
	replacement_cost	numeric	Cost of replacing film
	rating	USER-DEFINED	MPAA rating of film
	last_update	timestamp without time zone	Last date the table was updated
	special_features	ARRAY	Film special features included such as Trailers, Deleted Scenes, Commentaries, Behind the Scenes
	fulltext	tsvector	List of strings in film description

Links to		Links from	
Table	Join	Table	Join
language	film.language_id = language.language_id	film_category	film.film_id = film_category.film_id
		inventory	film.film_id = inventory.film_id
		film_actor	film.film_id = film_actor.film_id

film_category

	Columns	Data Type	Description
PK, FK	film_id	smallint	Unique ID of film
PK, FK	category_id	smallint	Unique ID of film's category or genre
	last_update	timestamp without time zone	Last date the table was updated

Links to		Links from	
Table	**Join**	**Table**	**Join**
category	film_category.category_id = category.category_id	film	film_category.film_id = film.film_id

category

	Columns	Data Type	Description
PK	category_id	integer	Unique ID of film's category or genre
	name	character varying(25)	Name of film's category or genre
	last_update	timestamp without time zone	Last date the table was updated

Links to		Links from	
Table	**Join**	**Table**	**Join**
		film_category	category.category_id = film_category.category_id

language

	Columns	Data Type	Description
PK	language_id	integer	Unique ID of film's language
	name	character(20)	Name of language
	last_update	timestamp without time zone	Last date the table was updated

Links to		Links from	
Table	**Join**	**Table**	**Join**
		film	language.language_id = film.language_id

film_actor

	Columns	Data Type	Description
PK, FK	actor_id	smallint	Unique ID of actor
PK, FK	film_id	smallint	Unique ID of film
	last_update	timestamp without time zone	Last date the table was updated

Links to		Links from	
Table	**Join**	**Table**	**Join**
actor	film_actor.actor_id = actor.actor_id	film	film_actor.film_id = film.film_id

actor

	Columns	Data Type	Description
PK	actor_id	integer	Unique ID of 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	Last date the table was updated

Links to		Links from	
Table	**Join**	**Table**	**Join**
		film	actor.actor_id = film_actor.actor_id

staff

	Columns	Data Type	Description
PK	staff_id	integer	Unique ID of a staff member
	first_name	character varying(45)	First name of staff member
	last_name	character varying(45)	Last name of staff member
FK	address_id	smallint	Unique ID of staff member's address
	email	character varying(50)	Staff member's email address
	store_id	smallint	Unique ID of store
	active	boolean	Whether staff account is currently active
	username	character varying(16)	Staff member's username
	password	character varying(40)	Staff member's password
	last_update	timestamp without time zone	Last date the table was updated
	picture	bytea	Staff member picture

Links to		Links from	
Table	**Join**	**Table**	**Join**
address	staff.address_id = address.address_id	payment	staff.staff_id = payment.staff_id
		rental	staff.staff_id = rental.staff_id
		store	staff.store_id = store.store_id

store

	Columns	Data Type	Description
PK	store_id	integer	Unique ID of store
FK	manager_staff_id	smallint	Unique ID of store manager
FK	address_id	smallint	Unique ID of store address
	last_update	timestamp without time zone	Last date the table was updated

Links to		Links from	
Table	**Join**	**Table**	**Join**
staff	store.store_id = staff.storeid		
address	store.address_id = address.address_id		

address

	Columns	Data Type	Description
PK	address_id	integer	Unique ID of address
	address	character varying(50)	Address line 1
	address2	character varying(50)	Address line 2
	district	character varying(20)	Name of district where address is
FK	city_id	smallint	Unique ID of city where address is
	postal_code	character varying(10)	Postal code of address
	phone	character varying(20)	Phone number associated with address
	last_update	timestamp without time zone	Last date the table was updated

Links to		Links from	
Table	**Join**	**Table**	**Join**
city	address.city_id = city.city_id	staff	address.address_id = staff.address_id
		store	address.address_id = store.address_id
		customer	address.address_id = customer.address_id

city

	Columns	Data Type	Description
PK	city_id	integer	Unique ID of city
	city	character varying(50)	Name of city
FK	country_id	smallint	Unique ID of country where city is
	last_update	timestamp without time zone	Last date the table was updated

Links to		Links from	
Table	**Join**	**Table**	**Join**
country	city.country_id = country.country_id	address	city.city_id = address.city_id

country

	Columns	Data Type	Description
PK	country_id	integer	Unique ID of country
	country	character varying(50)	Name of country
	last_update	timestamp without time zone	Last date the table was updated
	Columns	Data Type	Description

Links to		Links from	
Table	Join	Table	Join
		city	country.country_id = city.country_id

customer

	Columns	Data Type	Description
PK	customer_id	integer	Unique ID of customer
	store_id	smallint	Unique ID of store where customer rented
	first_name	character varying(45)	First name of customer
	last_name	character varying(45)	Last name of customer
	email	character varying(50)	Customer's email address
FK	address_id	smallint	Unique ID of customer's address
	activebool	boolean	Whether customer is currently active
	create_date	date	Date of customer's first transaction
	last_update	timestamp without time zone	Last date the table was updated
	active	integer	Whether customer is currently active; 1=TRUE, 0=FALSE

Links to		Links from	
Table	Join	Table	Join
address	customer.address_id = address.address_id	rental	customer.customer_id = rental.customer_id
		payment	customer.customer_id = payment.customer_id