

Rockbuster Database Data Dictionary

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Fact Table

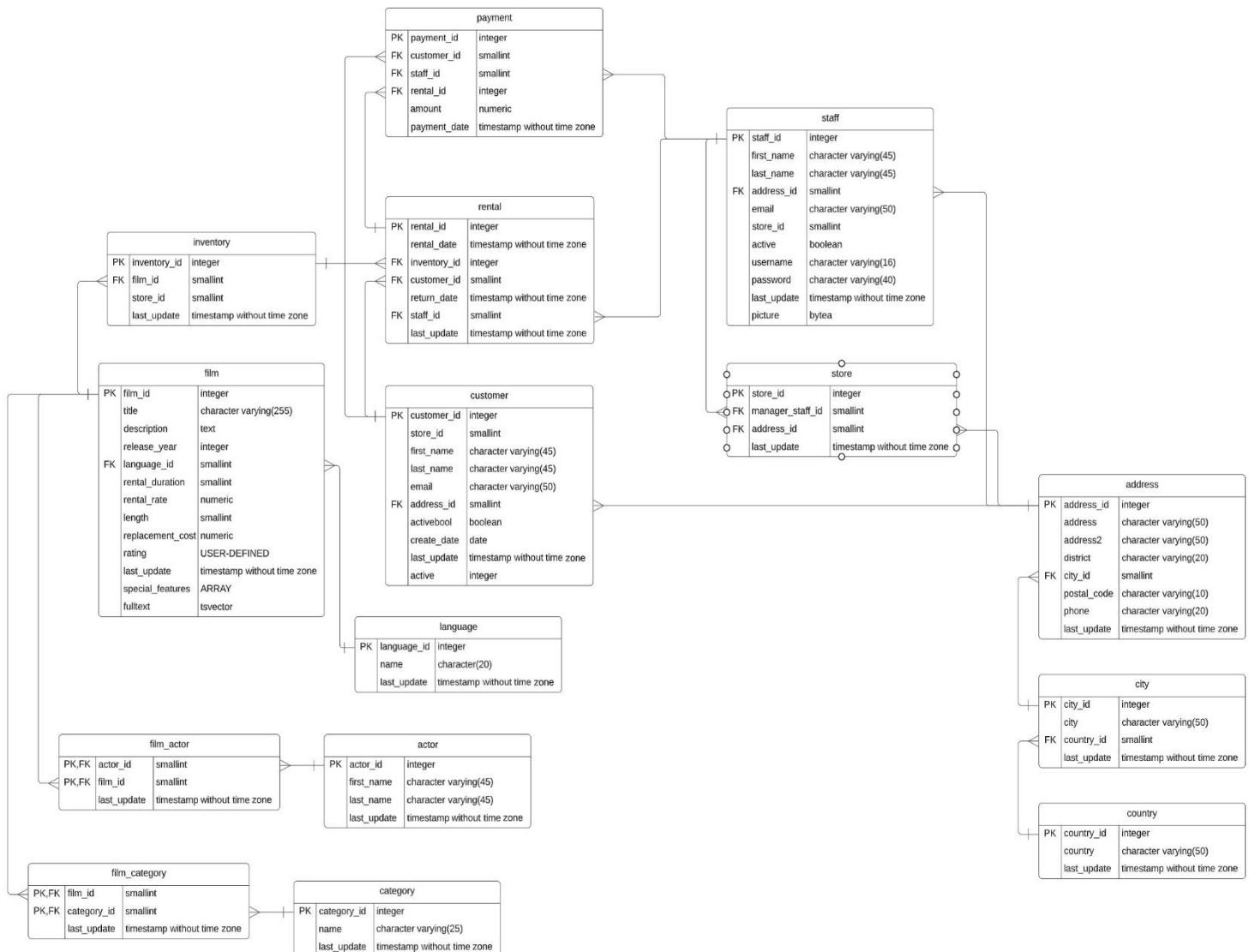
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3. Entity Relationship Diagram

Shown below is the Rockbuster Stealth entity relationship diagram showing all tables in the database and how they are linked. PK's represent primary keys, while FK's represent foreign keys. Lines linking the tables are shown to illustrate their relationships to each other.



4.1 Legend

Keys	Key Color
Primary Key	
Foreign Key	

4.2 Payment

Key	Columns	Data Type	Description	Link to
	payment_id	integer	ID number of the rental transaction	
	customer_id	smallint	ID number of the customer	Customer
	staff_id	smallint	ID number of the staff member	Staff
	rental_id	integer	ID number generated for each unique rental	Rental
	amount	numeric	Amount the customer paid	
	payment_date	timestamp w/o time zone	Date the customer paid	

4.3 Rental

Key	Columns	Data Type	Description	Link to
	rental_id	integer	ID number generated for each unique rental	
	rental_date	timestamp w/o time zone	Date the movie was rented	
	inventory_id	integer	ID number of the movie in the store's inventory	Inventory
	customer_id	smallint	ID number of the customer	Customer
	return_date	timestamp w/o time zone	Date on which the movie was returned	
	staff_id	smallint	ID number of the staff member	Staff
	last_update	timestamp w/o time zone	Last time there was a recorded update	

5.1 Inventory

Key	Columns	Data Type	Description	Link to
	inventory_id	integer	ID number of the movie in the store's inventory	
	film_id	smallint	ID number of the movie	Film
	store_id	smallint	ID number of the store	
	last_update	timestamp w/o time zone	Last time there was a recorded update	

5.2 Staff

Key	Columns	Data Type	Description	Link to
	staff_id	smallint	ID number of the staff member	
	first_name	character varying(45)	Customer's first name	
	last_name	character varying(45)	Customer's last name	
	address_id	smallint	ID number of the staff member's address	Address
	email	character varying(50)	Email address of the staff member	
	store_id	smallint	ID number of the store	
	active	boolean	Staff member's activity status	
	username	character varying(16)	Staff member's username	
	password	character varying(40)	Staff member's password	
	last_update	timestamp w/o time zone	Last time there was a recorded update	
	picture	bytea	Picture of staff member	

6.1 Film

Key	Columns	Data Type	Description	Link to
	film_id	integer	ID number of the movie	Film actor, film category
	title	character varying(255)	Title of the movie	
	description	text	Description of the movie	
	release_year	integer	Year the movie was released	
	language_id	smallint	ID number of the language of the movie	Language
	rental_duration	smallint	The duration of the movie's rental (in number of days)	
	rental_rate	numeric	The price of the movie's rental	
	length	smallint	Length of the movie	
	replacement_cost	numeric	The price to replace the movie (presumably if lost/stolen/damaged)	
	rating	USER_DEFINED	MPAA movie ratings	
	last_update	timestamp w/o time zone	Last time there was a recorded update	
	special_features	ARRAY	Extra features in addition to the movie	
	fulltext	tsvector	Keywords related to the movie	

7.1 Customer

Key	Columns	Data Type	Description	Link to
	customer_id	integer	ID number of the customer	
	store_id	smallint	ID number of the store	
	first_name	character varying(45)	Customer's first name	
	last_name	character varying(45)	Customer's last name	
	email	character varying(50)	Customer's email	
	address_id	smallint	ID number of the customer's address	Address
	activebool	boolean	Customer's activity status	
	create_date	date	Date the customer's account was created	
	last_update	timestamp w/o time zone	Last time there was a recorded update	
	active	integer	(unclear) Another expression of customer's activity status	

7.2 Store

Key	Columns	Data Type	Description	Link to
	store_id	integer	ID number of the store	
	manager_staff_id	smallint	ID number of store's manager	Staff
	address_id	smallint	ID number of the store's address	Address
	last_update	timestamp w/o time zone	Last time there was a recorded update	

8.1 Language

Key	Columns	Data Type	Description	Link to
	language_id	integer	ID number of the language of the movie	
	name	character(20)	Language of the movie	
	last_update	timestamp w/o time zone	Last time there was a recorded update	

8.2 Film Actor

Key	Columns	Data Type	Description	Link to
	actor_id	smallint	ID number of the actor	Actor
	film_id	smallint	ID number of the movie	Film
	last_update	timestamp w/o time zone	Last time there was a recorded update	

8.3 Actor

Key	Columns	Data Type	Description	Link to
	actor_id	integer	ID number of the actor in a movie	
	first_name	character varying(45)	First name of the actor	
	last_name	character varying(45)	Last name of the actor	
	last_update	timestamp w/o time zone	Last time there was a recorded update	

8.4 Film Category

Key	Columns	Data Type	Description	Link to
	film_id	smallint	ID number of the movie	Film
	category_id	smallint	ID number of movie's category	Category
	last_update	timestamp w/o time zone	Last time there was a recorded update	

9.1 Category

Key	Columns	Data Type	Description	Link to
	category_id	integer	ID number of movie's category	
	name	character varying(25)	Name of the movie's category	
	last_update	timestamp w/o time zone	Last time there was a recorded update	

9.2 Address

Key	Columns	Data Type	Description	Link to
	address_id	integer	ID number of the address	
	address	character varying(50)	First line of address	
	address2	character varying(50)	Second line of address	
	district	character varying(20)	District of the address	
	city_id	smallint	ID number of the city	City
	postal_code	character varying(10)	Postal code of the address	
	phone	character varying(20)	Phone number of the registered address	
	last_update	timestamp w/o time zone	Last time there was a recorded update	

9.3 City

Key	Columns	Data Type	Description	Link to
	city_id	integer	ID number of the city	
	city	character varying(50)	Name of the city	
	country_id	smallint	ID number of the country	Country
	last_update	timestamp w/o time zone	Last time there was a recorded update	

10.1 Country

Key	Columns	Data Type	Description	Link to
	country_id	integer	ID number of the country	
	country	character varying(50)	Name of the country	
	last_update	timestamp w/o time zone	Last time there was a recorded update	