



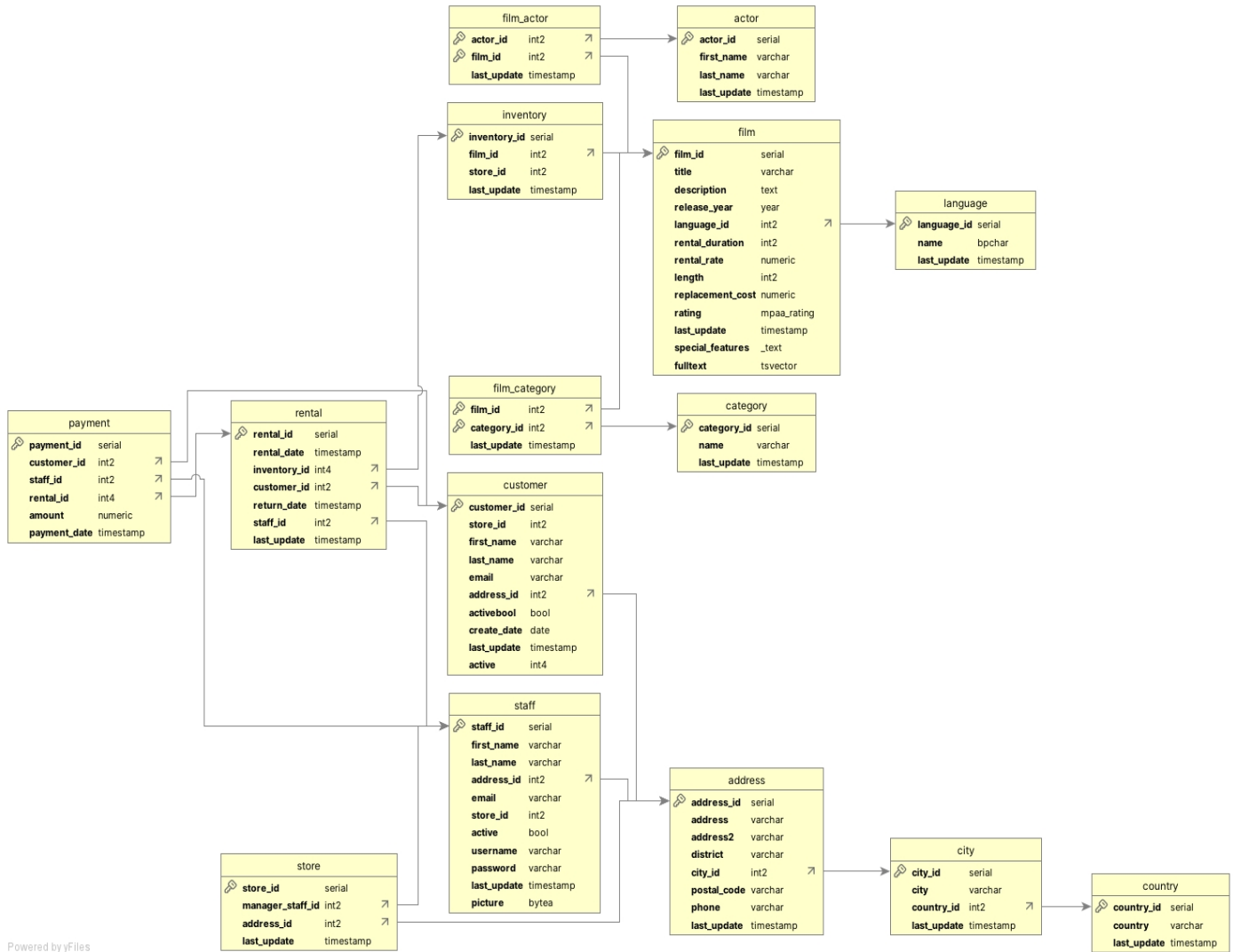
Rockbuster Stealth LLC

Data Dictionary

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1. ER Diagram: Data Storage and Structure



Legend:



Primary Key







Foreign Key

2. Fact Tables:





2.1 Payment Table

Information about payment transactions with timestamps of customers.

	Columns	Data Type	Description	Relationships
	payment_id	serial	Unique identifier for the payment	Primary key
	customer_id	smallint	Unique identifier for the customer	Foreign key Links to rental and customer tables via customer_id
	staff_id	smallint	Unique identifier for the staff	Foreign key Links to rental and staff tables via staff_id
	rental_id	integer	Unique identifier for the rental	Foreign key Links to rental table via rental_id
	amount	numeric (5,2)	Amount of payment	
	payment_date	timestamp without time zone	Date of payment	

2.2 Rental Table


Rental information and transactions with timestamps of customers.

	Columns	Data Type	Description	Relationships
	rental_id	serial	Unique identifier for the rental	Primary key Foreign key in payment table
	rental_date	timestamp without time zone	Date and time of the rental	
	inventory_id	integer	Unique identifier for the inventory	Foreign key
	customer_id	smallint	Unique identifier for the customer	Foreign key
	return_date	timestamp without time zone	Date and time of rental return	
	staff_id	smallint	Unique identifier for staff	Foreign key
	last_update	timestamp without time zone	Date and time of the last update	

3. Dimension Tables



3.1 Actor Table

First and last names of actors.

	Columns	Data Type	Description	Relationships
	actor_id	serial	Unique identifier for the actor	Primary key Foreign key in film_actor table
	first_name	varchar(45)	First name of the actor	
	last_name	varchar(45)	Last name of the actor	
	last_update	timestamp without time zone	Date and time of the last update	


3.2 Address Table

Street address, district, and postal code information for customers.
Phone numbers of customers with update information.

	Columns	Data Type	Description	Relationships
	address_id	serial	Unique identifier for the address	Primary key Foreign key in staff, store, and customer tables
	address	varchar(50)	Street address	
	address2	varchar(50)	null	
	district	varchar(20)	District, region, state, or prefecture of address	
	city_id	smallint	Unique identifier for the city	Foreign key
	postal_code	varchar(10)	Zip or postal code of the address	
	phone	varchar(20)	Phone number	
	last_update	timestamp without time zone	Date and time of last update	



3.3 Category Table

Film genres.

	Columns	Data Type	Description	Relationships
	category_id	serial	Unique identifier for the category	Primary key Foreign key in film_category table
	name	varchar(25)	Genre of film	
	last_update	timestamp without time zone	Date and time of last update	


3.4 City Table

Names of cities.
City and country IDs

	Columns	Data Type	Description	Relationships
	city_id	serial	Unique identifier for the city	Primary key Foreign key in adress table
	city	varchar(50)	Name of city	
	country_id	smallint	Unique identifier for the country	Foreign key
	last_update	timestamp without time zone	Date and time of last update	



3.5 Country Table

Names of countries and country IDs.

	Columns	Data Type	Description	Relationships
	country_id	serial	Unique identifier for the country	Primary key Foreign key in city table
	country	varchar(50)	Name of country	
	last_update	timestamp without time zone	Date and time of last update	

3.6 Customer Table



Customer information and active status at stores.

	Columns	Data Type	Description	Relationships
	customer_id	serial	Unique identifier for the customer	Primary key Foreign key in rental and payment tables
	store_id	smallint	Unique identifier for the store	
	first_name	varchar(45)	First name of customer	
	last_name	varchar(45)	Last name of the customer	
	email	varchar(50)	Customer email	
	address_id	smallint	Unique identifier for the customer address	Foreign key
	activebool	boolean	States if the customer is active (true/false)	
	create_date	date	Date of customer acquisition	
	last_update	timestamp without time zone	Date and time of last update	
	active	integer	States if the customer is active (binary)	

3.7 Film Table



Film information.

Information about film rentals.

	Columns	Data Type	Description	Relationships
	film_id	serial	Unique identifier for the film	Primary key Foreign key in inventory, film_actor, and film_category tables
	title	varchar(255)	Title of the film	
	description	text	Film description	
	release_year	integer	Year of film release	
	language_id	smallint	Unique identifier for the language of film	Foreign key
	rental_duration	smallint	How many days the film was rented for	
	rental_rate	numeric(4,2)	Price of rental rate	
	length	smallint	Length of film	
	replacement_cost	numeric(5,2)	Price of rental	
	rating	mpaa_rating	Rating of film	
	last_update	timestamp without time zone	Date and time of last update	
	special_features	text[]	Extra features like commentary, deleted scenes, BTS, trailers)	
	fulltext	tsvector	Improves searches (keywords in film description)	



3.8 Film_Actor Table

Actor and film IDs.

	Columns	Data Type	Description	Relationships
	actor_id	smallint	Unique identifier for the actor	Primary key Foreign key in actor table
	film_id	smallint	Unique identifier for the film	Foreign key, compostite key
	last_update	timestamp without time zone	Date and time of last update	


3.9 Film_Category Table

Film and category IDs.

	Columns	Data Type	Description	Relationships
	film_id	smallint	Unique identifier for the film	Composite key, foreign key
	category_id	smallint	Unique identifier for the film category	Composite key, foreign key
	last_update	timestamp without time zone	Date and time of last update	


3.10 Inventory Table

Inventory, store, and film IDs.

	Columns	Data Type	Description	Relationships
	inventory_id	serial	Unique identifier for the inventory item	Primary key Foreign key
	film_id	smallint	Unique identifier for the film	
	store_id	smallint	Unique identifier of store inventory	
	last_update	timestamp without time zone	Date and time of last update	



3.11 Language Table

Language of films.

	Columns	Data Type	Description	Relationships
	language_id	serial	Unique identifier for the language	Primary key Foreign key
	name	char(20)	Language	
	last_update	timestamp without time zone	Date and time of last update	




3.12 Staff Table

Staff account information at stores.

	Columns	Data Type	Description	Relationships
	staff_id	serial	Unique identifier for the staff member	Primary key
	first_name	varchar(45)	First name of staff member	Foreign key
	last_name	varchar(45)	Last name of staff member	
	address_id	smallint	Unique identifier for the address of staff member	Foreign key
	email	varchar(50)	Email of staff member	
	store_id	smallint	Unique identifier for the store	
	active	boolean	Staff member active status (true/false)	
	username	varchar(16)	Username of staff member	
	password	varchar(40)	Password of staff member	
	last_update	timestamp without time zone	Date and time of last update	
	picture	bytea	Image of staff member	

3.13 Store Table

Manager IDs who work at each store.

	Columns	Data Type	Description	Relationships
	store_id	serial	Unique identifier for the store	Primary key
				Foreign key
	manager_staff_id	smallint	ID of store manager	Foreign key
	address_id	smallint	ID of store address	Foreign key
	last_update	timestamp without time zone	Date and time of last update	