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Rockbuster Stealth LLC

Data Dictionary

Table of Contents

1. Entity Relationship Diagram 2

2. Tables 3

2.1 Fact Tables 3

2.1.1 Table: payment 3

2.1.2 Table: rental 3

2.2 Dimension Tables 4

2.2.1 Table: customer 4

2.2.2 Table: staff 4

2.2.3 Table: film_category 5

2.2.4 Table: film_actor 5

2.2.5 Table: inventory 6

2.2.6 Table: store 6

2.2.7 Table: actor 6

2.2.8 Table: film 7

2.2.9 Table: category 7





2.2.10 Table: language 8

2.2.11 Table: address 8

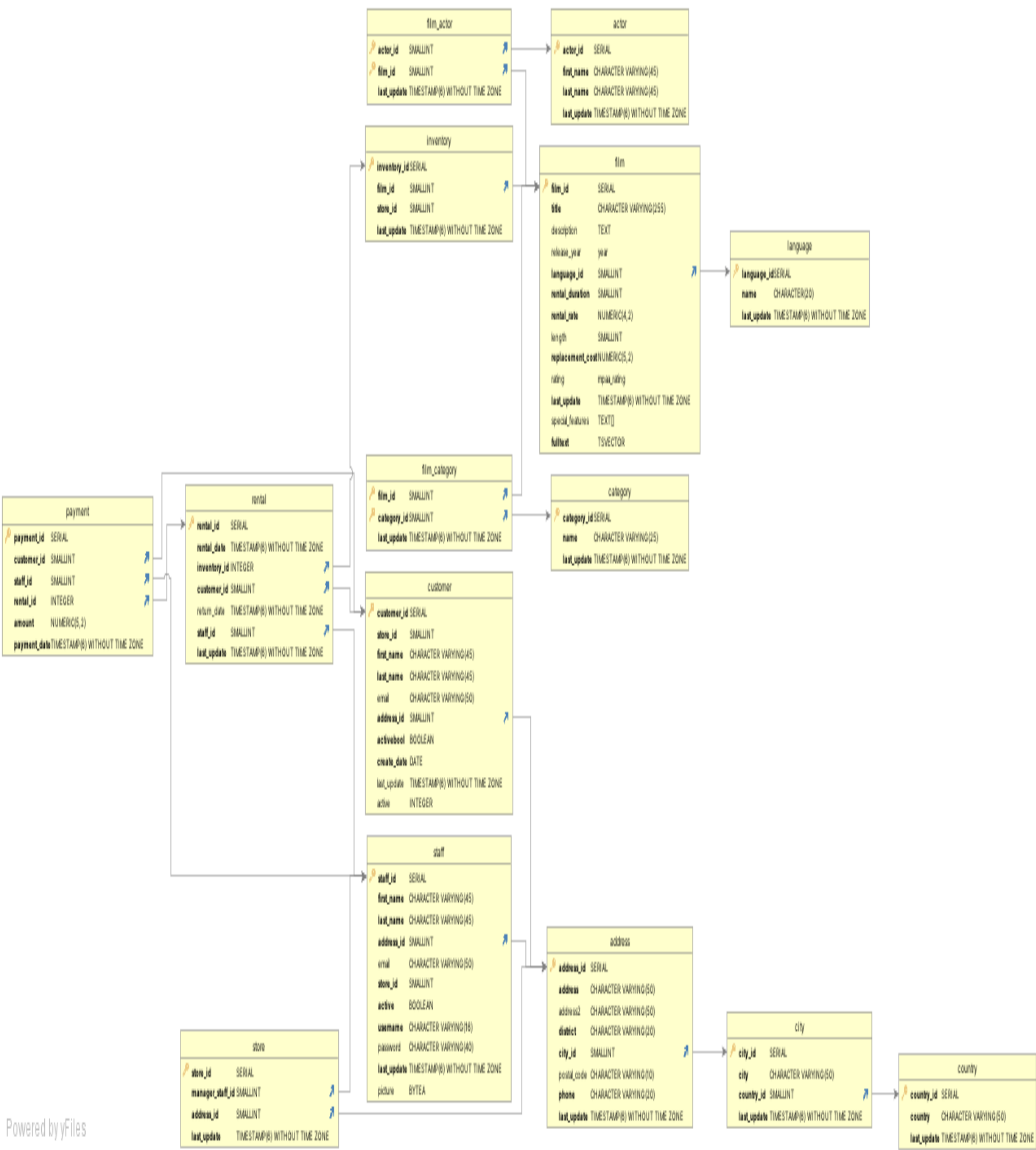
2.2.12 Table: city 9

2.2.13 Table: country 9

Legends

	Primary Key
	Foreign Key
	Primary key relation
	Foreign key relation

1. Entity Relationship Diagram



2. Tables

2.1 Fact Tables

2.1.1 Table: payment

	Columns	Datatype	Description
🔑	payment_id	SERIAL	Primary key, for unique identification of payment
🔑	customer_id	SMALLINT	Foreign key, unique identifier of customer
🔑	staff_id	SMALLINT	Foreign key, unique identifier of staff
	rental_id	INTEGER	Foreign key, unique identifier of rental event
	amount	NUMERIC(5,2)	Amount of money to be paid
	payment_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date of payment occurred

Links To

	Table	Join
➤	rental	payment.rental_id = rental.rental_id
➤	customer	payment.customer_id = customer.customer_id
➤	staff	payment.staff_id = staff.staff_id

Unique Keys

	Columns	Description
🔑	payment_id	Table primary key
🔑	customer_id, staff_id, rental_id	Foreign keys to link to customer, staff and rental tables

2.1.2 Table: rental

	Columns	Datatype	Description
🔑	rental_id	SERIAL	Primary key, used to identify unique rentals
	rental_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date of rental event
🔑	inventory_id	INTEGER	Foreign key, unique identifier of inventory
🔑	customer_id	SMALLINT	Foreign key, unique identifier of customer
	return_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date of return of rental
🔑	staff_id	SMALLINT	Foreign key, unique identifier of staff
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update occurred

Links To

	Table	Join
➤	inventory	rental.inventory_id = inventory.inventory_id
➤	customer	rental.customer_id = customer.customer_id
➤	staff	rental.staff_id = staff.staff_id

Links From

	Table	Join
➤	payment	payment.rental_id = rental.rental_id

Unique Keys

	Columns	Description
🔑	rental_id	Table primary key
🔑	customer_id, staff_id, inventory_id	Foreign keys to link to customer, staff and inventory tables

2.2 Dimension Tables

2.2.1 Table: customer

	Columns	Datatype	Description
🔑	customer_id	SERIAL	Primary key for unique customer identification
	store_id	SMALLINT	Unique identification of store
	first_name	CHARACTER VARYING (45)	Customer's first name
	last_name	CHARACTER VARYING (45)	Customer's last name
	email	CHARACTER VARYING (50)	Email address of the customer
🔑	address_id	SMALLINT	Foreign key for unique identification of address
	activebool	BOOLEAN	Is customer active or not
	create_date	DATE	Date in which a new customer is being created
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date in which last update was done
	active	INTEGER	Is customer active or not

Links To

	Table	Join
➤	address	customer.address_id = address.address_id

Links From

	Table	Join
⬅	rental	rental.customer_id = customer.customer_id
⬅	payment	Payment.customer_id = customer.customer_id

Unique Keys

	Columns	Description
🔑	customer_id	Table primary key
🔑	address_id	Foreign keys to link to address table

2.2.2 Table: staff

	Columns	Datatype	Description
🔑	staff_id	SERIAL	Primary key for unique staff identification
	first_name	CHARACTER VARYING (45)	Staff's first name
	last_name	CHARACTER VARYING (45)	Staff's last name
🔑	address_id	SMALLINT	Foreign key for unique identification of address
	email	CHARACTER VARYING (50)	Email address of the staff
	store_id	SMALLINT	Unique identification of store
	active	BOOLEAN	Is staff active or not
	username	CHARACTER VARYING (16)	Username of the staff
	password	CHARACTER VARYING (40)	Password of the staff
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date in which last update was done
	picture	BYTEA	Photo of the staff

Links To

	Table	Join
➤	address	staff.address_id = address.address_id

Links From

	Table	Join
⬅	payment	payment.staff_id = staff.staff_id
⬅	rental	rental.staff_id = staff.staff_id
⬅	store	Store.manager_staff_id = staff.staff_id

Unique Keys

	Columns	Description
🔑	staff_id	Table primary key
🔑	address_id	Foreign keys to link to address table

2.2.3 Table: film_category

	Columns	Datatype	Description
🔑	film_id, category_id	SMALLINT	2 Primary keys, for unique identification of film and category
🔑	film_id, category_id	SMALLINT	2 Foreign keys, for unique identification of category and film
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date in which last update was done

Links To

	Table	Join
➤	film	film_category.film_id = film.film_id
➤	category	film_category.category_id = category.category_id

Unique Keys

	Columns	Description
🔑	film_id, category_id	Table primary keys
🔑	film_id, category_id	Foreign keys to link to film and category table

2.2.4 Table: film_actor

	Columns	Datatype	Description
🔑	actor_id, film_id	SMALLINT	2 Primary keys, for unique identification of actor and film
🔑	actor_id, film_id	SMALLINT	2 Foreign keys, for unique identification of actor and film
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date in which last update was done

Links To

	Table	Join
➤	film	film_actor.film_id = film.film_id
➤	actor	film_actor.actor_id = actor.actor_id

Unique Keys

	Columns	Description
🔑	film_id, actor_id	Table primary keys
🔑	film_id, actor_id	Foreign keys to link to film and actor table

2.2.5 Table: inventory

	Columns	Datatype	Description
🔑	inventory_id	SERIAL	Primary key, for unique identification of inventory
🔑	film_id	SMALLINT	Foreign key, for unique identification of film
	store_id	SMALLINT	Unique identifier of store
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date in which last update was done

Links To

	Table	Join
➤	film	inventory.film_id = film.film_id

Links From

	Table	Join
➤	rental	rental.inventory_id = inventory.inventory_id

Unique Keys

	Columns	Description
🔑	inventory_id	Table primary key
🔑	film_id	Foreign key to link to film table

2.2.6 Table: store

	Columns	Datatype	Description
🔑	store_id	SERIAL	Primary key, for unique identification of store
🔑	manager_staff_id	SMALLINT	Foreign key, for unique identification of staff
🔑	address_id	SMALLINT	Foreign key, for unique identification of address
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date in which last update was done

Links To

	Table	Join
➤	staff	store.manager_staff_id = staff.staff_id
➤	address	store.address_id = address.address_id

Unique Keys

	Columns	Description
🔑	store_id	Table primary key
🔑	manager_staff_id, address_id	Foreign keys to link to staff and address tables

2.2.7 Table: actor

	Columns	Datatype	Description
🔑	actor_id	SERIAL	Primary key, for unique identification of actor
	first_name	CHARACTER VARYING (45)	Actor's first name
	last_name	CHARACTER VARYING (45)	Actor's last name
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date in which last update was done

Links From

	Table	Join
⬅	film_actor	film_actor.actor_id = actor.actor_id

Unique Keys

	Columns	Description
🔑	actor_id	Table primary key

2.2.8 Table: film

	Columns	Datatype	Description
🔑	film_id	SERIAL	Primary key for unique film identification
	title	CHARACTER VARYING (255)	Title of the film
	description	TEXT	Description of the film
	release_year	year	Year in which the film is released
🔑	language_id	SMALLINT	Foreign key for unique identification of language
	rental_duration	SMALLINT	Period of rental
	rental_rate	NUMERIC(4,2)	Rate of rental
	length	SMALLINT	Duration of the film
	replacement_cost	NUMERIC(5,2)	Cost of replacement of the film
	rating	Mpaa_rating	Rating of the film
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date in which last update was done
	special_features	TEXT[]	Special features of the film
	fulltext	TSVECTOR	Additional Information about the film

Links To

	Table	Join
➡	language	film.language_id = language.language_id

Links From

	Table	Join
⬅	film_actor	film_actor.film_id = film.film_id
⬅	inventory	inventory.film_id = film.film_id
⬅	film_category	film_category.film_id = film.film_id

Unique Keys

	Columns	Description
🔑	film_id	Table primary key
🔑	language_id	Foreign key to link to language table

2.2.9 Table: category

	Columns	Datatype	Description
🔑	category_id	SERIAL	Primary key, for unique identification of category
	name	CHARACTER VARYING (25)	Name of the category
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date in which last update was done

Links From

	Table	Join
←	film_catrgory	film_category.category_id = category.category_id

Unique Keys

	Columns	Description
🔑	category_id	Table primary key

2.2.10 Table: language

	Columns	Datatype	Description
🔑	language_id	SERIAL	Primary key, for unique identification of language
	name	CHARACTER (20)	Name of the language
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date in which last update was done

Links From

	Table	Join
←	film	film.language_id = language.language_id

Unique Keys

	Columns	Description
🔑	language_id	Table primary key

2.2.11 Table: address

	Columns	Datatype	Description
🔑	address_id	SERIAL	Primary key for unique address identification
	address	CHARACTER VARYING (50)	Address information
	address2	CHARACTER VARYING (50)	Address information2
	district	CHARACTER VARYING (20)	Name of the district
🔑	city_id	SMALLINT	Foreign key for unique identification of city
	postal_code	CHARACTER VARYING (10)	Postal code information
	phone	CHARACTER VARYING (20)	Phone number
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date in which last update was done

Links To

	Table	Join
➤	city	address.city_id = city.city_id



Links From

	Table	Join
←	customer	customer.address_id = address.address_id
←	staff	staff.address_id = address.address_id
←	store	store.address_id = address.address_id

Unique Keys

	Columns	Description
🔑	address_id	Table primary key
🔑	city_id	Foreign key to link to city table


2.2.12 Table: city

	Columns	Datatype	Description
	city_id	SERIAL	Primary key, for unique identification of city
	city	CHARACTER VARYING (50)	Name of the city
	country_id	SMALLINT	Foreign key for unique identification of country
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date in which last update was done



Links To

	Table	Join
	country	city.country_id = country.country_id


Links From

	Table	Join
	address	address.city_id = city.city_id


Unique Keys

	Columns	Description
	city_id	Table primary key
	country_id	Foreign key to link to country table

2.2.13 Table: country

	Columns	Datatype	Description
	country_id	SERIAL	Primary key, for unique identification of country
	country	CHARACTER VARYING (50)	Name of the country
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date in which last update was done

Links From

	Table	Join
	city	city.country_id = country.country_id

Unique Keys

	Columns	Description
	country_id	Table primary key