Rockbuster Stealth LLC

Data Dictionary

[Document subtitle]
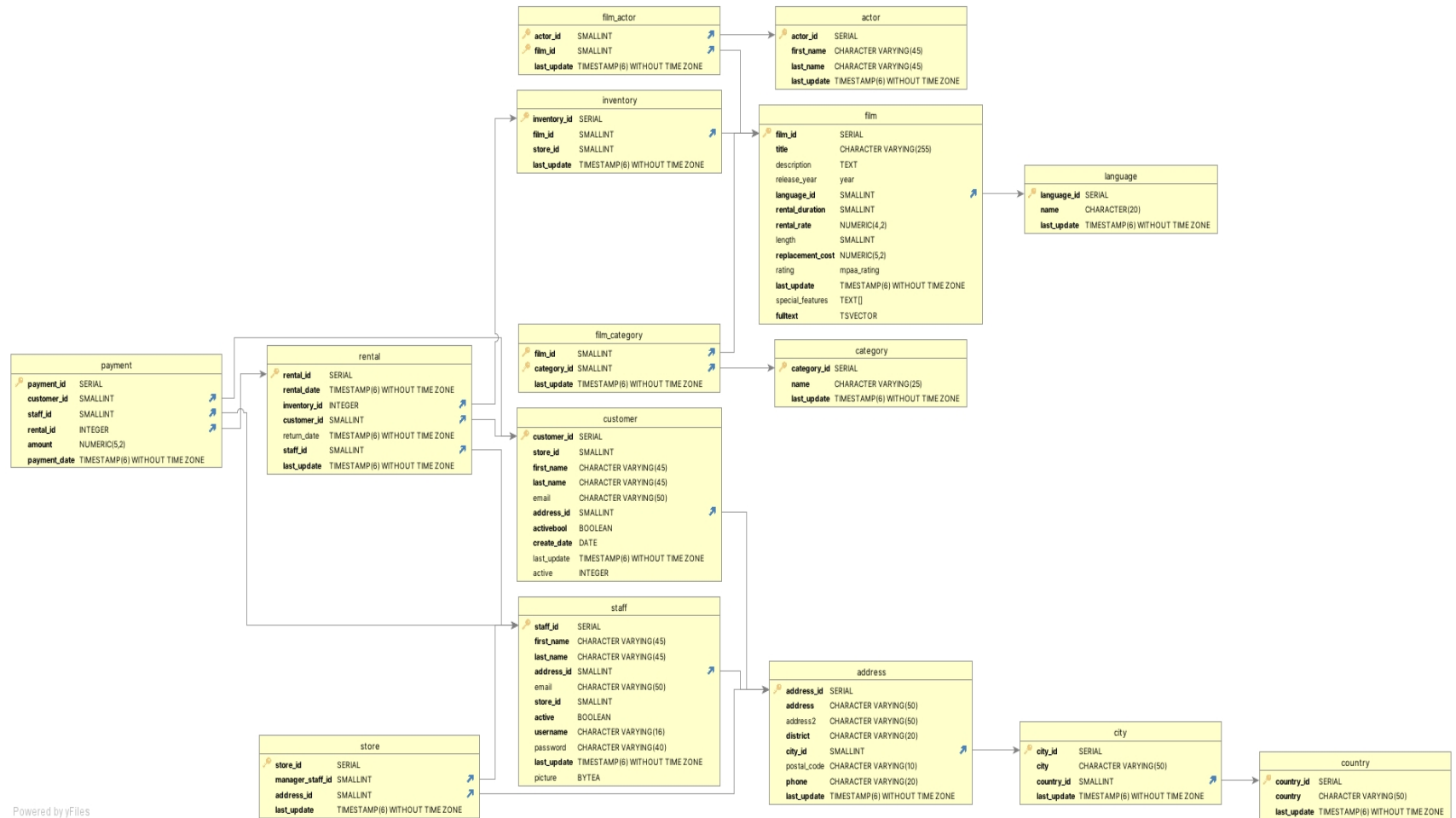
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1. Entity Relationship Diagram (ERD)

Legend

🔑   **Primary Key**

🔑   **Foreign Key**

2. Fact Tables

2.1 Table: payment

	Column	Data Type	Description
🔑	payment_id	SERIAL	unique identifier for payment
🔑	customer_id	SMALLINT	unique identifier for customer
🔑	staff_id	SMALLINT	unique identifier for staff
🔑	rental_id	INTEGER	unique identifier for rental
	amount	NUMERIC(5,2)	cost of rental

Links To

Table	Join	Title/Name/Description
customer	payment.customer_id = customer.customer_id	Foreign key constraint referencing customer.customer_id
staff	payment.staff_id	Foreign key constraint referencing staff.staff_id
rental	payment.rental_id = rental.rental_id	Foreign key constraint referencing rental.rental_id

Unique Keys

	Columns	Name/Description
🔑	payment_id	Primary key (clustered) constraint
🔑	customer_id	Unique nonclustered index
🔑	staff_id	Unique nonclustered index
🔑	rental_id	Unique nonclustered index

2.2 Table: rental

	Column	Data Type	Description
🔑	rental_id	SERIAL	unique identifier for rental
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	time and date of rental
🔑	inventory_id	INTEGER	unique identifier for inventory
🔑	customer_id	SMALL INT	unique identifier for customer
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	time and date of return
🔑	staff_id	SMALL INT	unique identifier for staff
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time and update of last update

Links To

Table	Join	Title/Name/Description
inventory	rental.inventory_id = inventory.inventory_id	Foreign key constraint referencing inventory.inventory_id
customer	rental.customer_id = customer.customer_id	Foreign key constraint referencing customer.customer_id
staff	rental_staff.id = staff.staff_id	Foreign key constraint referencing staff.staff_id

Links From

Table	Join	Title/Name/Description
payment	rental.rental_id = payment.rental_id	Foreign key constraint referencing rental.rental_id

Unique Keys

Columns	Name/Description
rental_id	Primary key (clustered) constraint
inventory_id	Unique nonclustered index
customer_id	Unique nonclustered index
staff_id	Unique nonclustered index

3. Dimension Tables:

3.1 Table: store

	Column	Data Type	Description
🔑	store_id	SERIAL	unique identifier of store
🔑	manager_staff_id	SMALLINT	unique identifier of staff manager
🔑	address_id	SMALLINT	unique identifier of address
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last update of store profile

Links To

Table	Join	Title/Name/Description
manager	store.manager_staff_id = manager.manager_staff_id	Foreign key constraint referencing manager.manager_staff_id
address	store.address_id = address.address_id	Foreign key constraint referencing address.address_id

Unique Keys

	Columns	Name/Description
🔑	store_id	Primary key (clustered) constraint
🔑	manager_staff_id	Unique nonclustered index
🔑	address_id	Unique nonclustered index

3.2 Table: staff

	Column	Data Type	Description
🔑	staff_id	SERIAL	unique identifier of 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 of address
	email	CHARACTER VARYING (50)	staff member email address
🔑	store_id	SMALLINT	unique identifier of store
	active	BOOLEAN	status whether staff is currently employe
	username	CHARACTER VARYING (16)	staff member's username
	password	CHRACTER VARYING (40)	staff member's password
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last update of staff member profile
	picture	BYTE	picture of staff member

Links To

Table	Join	Title/Name/Description
address	staff.address_id = address.address_id	Foreign key constraint referencing address.address_id

Links From

Table	Join	Title/Name/Description
payment	staff.staff_id = payment.staff_id	Foreign key constraint referencing staff.staff_id

Unique Keys

Columns	Name/Description
🔑 staff_id	Primary key (clustered) constraint
🔑 address_id	Unique nonclustered index
🔑 store_id	Unique nonclustered index

3.3 Table: customer

	Column	Data Type	Description
🔑	customer_id	SERIAL	unique identifier of customer
🔑	store_id	SMALLINT	unique identifier of store
	first_name	CHARACTER VARYING (45)	first name of customer
	last_name	CHARACTER VARYING (45)	last name of customer
	email	CHARACTER VARYING (50)	customer email address
🔑	address_id	SMALLINT	unique identifier of address
	activebool	BOOLEAN	status of whether customer is active
	create_date	DATE	date of customer profile creation
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last update of customer profile
	active	INTEGER	active status represented by 0 or 1

Links To

Table	Join	Title/Name/Description
address	customer.address_id = address.address_id	Foreign key constraint referencing address.address_id

Links From

Table	Join	Title/Name/Description
payment	customer.customer_id = payment.customer_id	Foreign key constraint referencing customer.customer_id

Unique Keys

Columns	Name/Description
customer_id	Primary key (clustered) constraint
store_id	Unique nonclustered index
address_id	Unique nonclustered index

3.4 Table: address

	Column	Data Type	Description
🔑	address_id	SERIAL	unique identifier of address
	address	CHARACTER VARYING (50)	first line of address
	address2	CHARACTER VARYING (50)	second line of address
	district	CHARACTER VARYING (20)	region of address
🔑	city_id	SMALLINT	unique identifier of city
	postal_code	CHARACTER VARYING (10)	postal code for address
	phone	CHARACTER VARYING (20)	phone number for address
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last update of address

Links To

Table	Join	Title/Name/Description
city	address.city_id = city.city_id	Foreign key constraint referencing city.city_id

Links From

Table	Join	Title/Name/Description
customer	address.address_id = customer.address_id	Foreign key constraint referencing address.address_id
staff	address.address_id = staff.address_id	Foreign key constraint referencing address.address_id
store	address.address_id = store.address_id	Foreign key constraint referencing address.address_id

Unique Keys

Columns	Name/Description
🔑 address_id	Primary key (clustered) constraint
🔑 city_id	Unique nonclustered index

3.5 Table: city

	Column	Data Type	Description
🔑	city_id	SERIAL	unique identifier of city
	city	CHARACTER VARYING (50)	name of city
🔑	country_id	SMALLINT	unique identifer of country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last update of city

Links To

Table	Join	Title/Name/Description
country	city.country_id = country.country_id	Foreign key constraint referencing country.country_id

Links From

Table	Join	Title/Name/Description
address	city.city_id = address.city_id	Foreign key constraint referencing city.city_id

Unique Keys

	Columns	Name/Description
🔑	city_id	Primary key (clustered) constraint
🔑	country_id	Unique nonclustered index

3.6 Table: country

	Column	Data Type	Description
🔑	country_id	SERIAL	unique identifier of country
	country	CHARACTER VARYING (50)	name of country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last update of country

Links From

Table	Join	Title/Name/Description
city	country.country_id = city.country_id	Foreign key constraint referencing country.country_id

Unique Keys

	Columns	Name/Description
🔑	country_id	Primary key (clustered) constraint

3.7 Table: film_category

	Column	Data Type	Description
🔑	film_id	SMALLINT	unique identifier of film
🔑	category_id	SMALLINT	unique identifer of category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last update of film

Links To

Table	Join	Title/Name/Description
film	film_category.film_id = film.film_id	Foreign key constraint referencing film.film_id
category	film_category.category_id = category.category_id	Foreign key constraint referencing category.category_id

Unique Keys

	Columns	Name/Description
🔑	film_id	Primary key (clustered) constraint
🔑	category_id	Unique nonclustered index

3.8 Table: category

	Column	Data Type	Description
🔑	category_id	SERIAL	unique identifier of category
	name	CHARACTER VARYING (25)	name of category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last update of category

Links From

Table	Join	Title/Name/Description
film_category	category.category_id = film_category.category_id	Foreign key constraint referencing category.category_id

Unique Keys

Column1	Columns	Name/Description
🔑	category_id	Primary key (clustered) constraint

3.9 Table: inventory

	Column	Data Type	Description
🔑	inventory_id	SERIAL	unique identifier of inventory
🔑	film_id	SMALLINT	unique identifier of film
	store_id	SMALLINT	unique identifier of store

Links To

Table	Join	Description
film	inventory.film_id = film.film_id	Foreign key constraint referencing film.film_id

Links From

Table	Join	Description
rental	rental.inventory_id = inventory.inventory_id	Foreign key constraint referencing rental.inventory_id

Unique Keys

	Column	Description
🔑	inventory_id	Primary key (clustered) constraint
🔑	film_id	Unique nonclustered index

3.10 Table: film_actor

	Column	Data Type	Description
🔑	actor_id	SMALLINT	unique identifier of actor
🔑	film_id	SMALLINT	unique identifier of film
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last update of film actor

Links To

Table	Join	Description
actor	actor.actor_id = film_actor.film_id	Foreign key constraint referencing actor.actor_id
film	film.film_id = film_actor.film_id	Foreign key constraint referencing film.film_id

Unique Keys

	Column	Description
🔑	actor_id	Primary key (clustered) constraint
🔑	film_id	Unique nonclustered index

3.11 Table: actor

	Column	Data Type	Description
🔑	actor_id	SERIAL	unique identifier of actor
	first_name	CHARACTER VARYING(45)	first name of actor
	last_name	CHARACTER VARYING(45)	last name of actor
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last update of actor profile

Links From

Table	Join	Description
film_actor	actor.actor_id = film_actor.actor_id	Foreign key constraint referencing film_actor.actor_id

Unique Keys

	Column	Description
🔑	actor_id	Primary key (clustered) constraint

3.12 Table: film

	Column	Data Type	Description
🔑	film_id	SERIAL	unique identifier of film
	title	CHARACTER VARYING (255)	full title of film
	description	TEXT	description of film
	release_year	YEAR	release year of film
🔑	language_id	SMALLINT	unique identifier of language
	rental_duration	SMALLINT	duration of rental
	rental_rate	NUMERIC(5,2)	cost of rental
	length	SMALLINT	length of film
	replacement_cost	NUMERIC(5,2)	cost to replace film
	rating	MPAA_RATING	rating of film
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last update of film profile
	special_features	TEXT []	special features of film
	fulltext	TSVECTOR	full text index (information about significant words and their location)

Links To

Table	Join	Description
language	language.language_id = film.language_id	Foreign key constraint referencing language.language_id

Links From

Table	Join	Description
film_actor	film_actor.film_id = film.film_id	Foreign key constraint referencing film_actor.film_id
inventory	inventory.film_id = film.film_id	Foreign key constraint referencing inventory.film_id
film_category	film_category.film_id = film.film_id	Foreign key constraint referencing film_category.film_id

Unique Keys

	Column	Description
🔑	film_id	Primary key (clustered) constraint
🔑	language_id	Unique nonclustered index

3.13 Table: Language

	Column	Data Type	Description
🔑	language_id	SERIAL	unique identifier of language
	name	CHARACTER (20)	name of language
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	last update of language

Links From

Table	Join	Description
film	film.language_id = language.language_id	Foreign key constraint referencing film.language_id

Unique Keys

	Column	Description
🔑	language_id	Primary key (clustered) constraint