ROCKBUSTER STEALTH LLC

Data Dictionary

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Legend

🔑	Primary Key	➡	Primary Key relation from
🔑	Foreign Key	➡	Foreign Key relation to
🔑	Compound Key	⬌	Compound Key relation with

1. Entity Relationship Diagram (ERD)
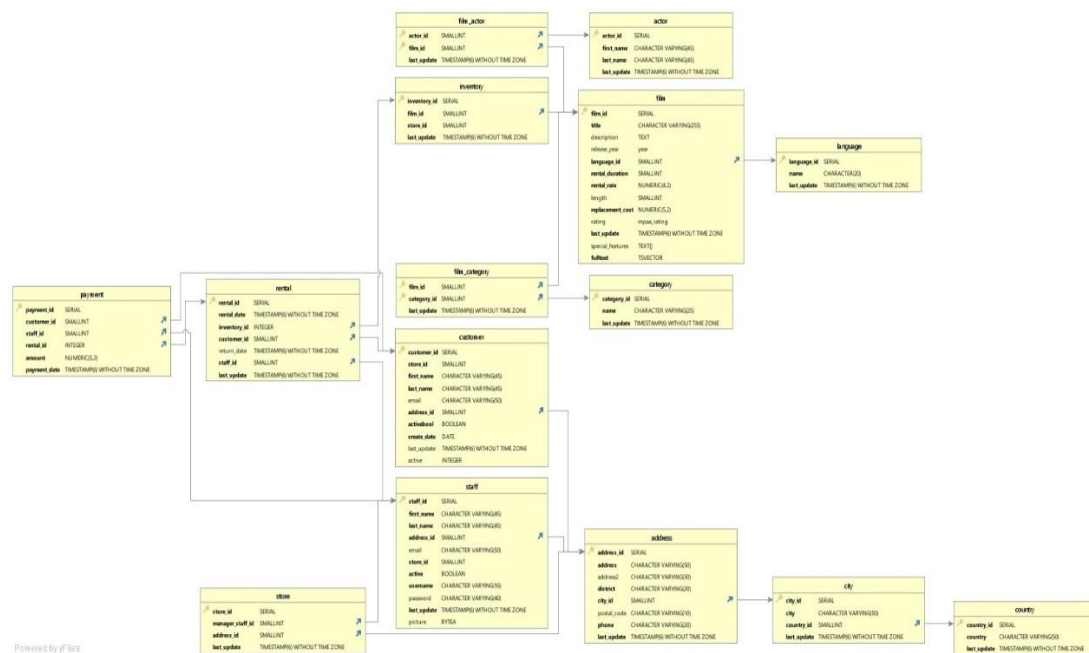
2. Fact tables

2.1 Payment

Columns

Key	Column	Data Type	Description
🔑	payment_id	SERIAL	Automatically generated identification number to individual payment
🔑	customer_id	SMALLINT	Unique identification number assigned to individual customer
🔑	staff_id	SMALLINT	Unique identification number assigned to individual staff member
🔑	rental_id	INTEGER	Unique identification number assigned to individual rental
	amount	NUMERIC(5.2)	Total amount paid
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Autogenerated latest updated date

Links to

Key	Table	Join
➡	customer	payment.customer_id = customer.customer_id
➡	staff	payment.staff_id = staff.staff_id
➡	rental	payment.rental_id = rental.rental_id

2.2 Store

Columns

Key	Column	Data Type	Description
🔑	store_id	SERIAL	Automatically generated identification number to individual store
🔑	manager_staff_id	SMALLINT	Unique identification number assigned to individual store manager
🔑	address_id	SMALLINT	Unique identification number assigned to individual store address
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Autogenerated latest updated date

Links to

Key	Table	Join
➡	staff	store.manager_staff_id = staff.staff_id
➡	address	store.address_id = address_id

2.3 Film_category

Columns

Key	Column	Data Type	Description
🔑	film_id	SMALLINT	Unique identification number assigned to individual film
🔑	category_id	SMALLINT	Unique identification number assigned to individual genre
	last_update	TIMESTAMP (6)	Autogenerated latest updated

		WITHOUT TIME ZONE	date

Linked with

Key	Table	Join
↔	film	film_category.film_id = film.film_id
↔	category	film_category.category_id = category.category_id

2.4   film_actor

Columns

Key	Column	Data Type	Description
🔑	actor_id	SMALLINT	Unique identification number assigned to individual actor
🔑	film_id	SMALLINT	Unique identification number assigned to individual film
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Autogenerated latest updated date

Linked with

Key	Table	Join
↔	film	film_actor.film_id = film.film_id
↔	actor	film_actor.actor_id = category.actor_id

2.5   Inventory

Columns

Key	Column	Data Type	Description
🔑	inventory_id	SMALLINT	Unique identification number assigned to individual item
🔑	film_id	SMALLINT	Unique identification number assigned to individual film
	store_id	SMALLINT	Unique identification number assigned to individual store
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Autogenerated latest updated date

Linked from

Key	Table	Join
➡️	rental	rental.inventory_id = inventory.inventory_id

Linked to

Key	Table	Join
➡️	film	Inventory.film_id = film.film_id

3. Dimension tables

3.1 Category

Columns

Key	Column	Data Type	Description
🔑	category_id	SERIAL	Automatically generated identification number to individual genre
	name	CHARACTER VARYING (25)	Genre's name
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Autogenerated latest updated date

Linked from

Key	Table	Join
➡️	film_category	film_category.category_id = category.category_id

3.2 Language

Columns

Key	Column	Data Type	Description
🔑	language_id	SERIAL	Automatically generated identification number to individual language
	name	CHARACTER (20)	Language's name
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Autogenerated latest updated date

Linked from

Key	Table	Join
➡️	film	film.language_id = language.language_id

3.3   Film

Columns

Key	Column	Data Type	Description
🔑	film_id	SERIAL	Automatically generated identification number to individual film
	title	CHARACTER VARYING (255)	Film's title
	description	TEXT	Film's brief introduction
	release_year	year	Film released year
🔑	language_id	SMALLINT	Unique identification number assigned to individual language
	rental_duration	SMALLINT	Number of days film is rented
	rental_rate	NUMERIC (4.2)	The price the film rental cost
	length	SMALLINT	Length of film in minutes
	replacement_cost	NUMERIC (5.2)	The sum of cost to replace a lost or damaged film
	rating	mpaa_rating	Age rating
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Autogenerated latest updated date
	special_features	TEXT[]	Special features included in the film such as deleted scenes
	fulltext	TSVECTOR	Keywords associated with the film

Linked from

Key	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

Linked to

Key	Table	Join
→	language	Film.language_id = language.language_id

3.4   Staff

Columns

Key	Column	Data Type	Description
🔑	staff_id	SERIAL	Automatically generated identification number to individual employee
	first_name	CHARACTER VARYING (45)	First name of employee
	last_name	CHARACTER VARYING (45)	Last name of employee
🔑	addresss_id	SMALLINT	Unique identification number assigned to individual employee's address
	email	CHARACTER VARYING (50)	Employee's email
	store_id	SMALLINT	Unique identification number assigned to individual store
	active	BOOLEAN	Is employee active? True or False
	username	CHARACTER VARYING (16)	Employee's username
	password	CHARACTER VARYING (40)	Employee's password
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Autogenerated latest updated date
	picture	BYTEA	Employee's picture

Linked from

Key	Table	Join
→	rental	rental.staff_id = staff.staff_id
→	payment	payment.staff_id = staff.staff_id
→	store	store.staff_id = staff.staff_id_id

Linked to

Key	Table	Join

	address	staff.address_id = address.address_id

3.5   Customer

Columns

Key	Column	Data Type	Description
🔑	customer_id	SERIAL	Automatically generated identification number to individual customer
	store_id	CHARACTER VARYING (45)	Unique identification number assigned to individual store
	first_name	CHARACTER VARYING (45)	Fist name of customer
	last_name	SMALLINT	Last name of customer
	email	CHARACTER VARYING (50)	Customer's email
🔑	address_id	SMALLINT	Number assigned to customer's address
	activebool	BOOLEAN	Is the customer active? True or False
	creat_date	CHARACTER VARYING (16)	Date customer profile was created
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Autogenerated latest updated date
	active	INTEGER	Is the customer active? 0 or 1

Linked from

Key	Table	Join
➡	payment	payment.customer_id = customer.customer_id
➡	rental	rental.customer_id = customer.customer_id

Linked to

Key	Table	Join
➡	address	customer.address_id = address.address_id

3.6   Actor

Columns

Key	Column	Data Type	Description
🔑	actor_id	SERIAL	Automatically generated identification number to individual actor
	first_name	CHARACTER VARYING (25)	First name of actor
	last_name	CHARACTER VARYING (25)	Last name of actor
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Autogenerated latest updated date

Linked from

Key	Table	Join
➡	film_actor	actor.actor_id = film_actor.actor_id

3.7   Rental

Columns

Key	Column	Data Type	Description
🔑	rental_id	SERIAL	Automatically generated identification number to individual rental
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date when the rental was proceeded
🔑	inventory_id	INTEGER	Unique identification number assigned to individual item
🔑	customer_id	SMALLINT	Unique identification number assigned to individual customer
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date when the rental was returned
🔑	staff_id	SMALLINT	Unique identification number assigned to individual employee
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Autogenerated latest updated date

Linked from

Key	Table	Join
➡	payment	payment.rental_id = rental.rental_id

Links to

Key	Table	Join
→	inventory	rental.inventory_id = inventory.inventory_id
→	customer	rental.customer_id = customer.customer_id
→	staff	rental.staff_id = staff.staff_id

3.8   Address

Columns

Key	Column	Data Type	Description
🔑	address_id	SERIAL	Automatically generated identification number to individual address
	address	CHARACTER VARYING (50)	Main address
	address2	CHARACTER VARYING (50)	Supplementary address
	district	CHARACTER VARYING (20)	district
🔑	city_id	SMALLINT	Unique identification number assigned to individual city
	postal_code	CHARACTER VARYING (10)	Postal code
	phone	CHARACTER VARYING (20)	Phone number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Autogenerated latest updated date

Linked from

Key	Table	Join
→	customer	customer.address_id = address.address_id
→	staff	staff.address_id = address.address_id
→	store	store.address_id = address.address_id

Linked to

Key	Table	Join
→	city	address.city_id = city.city_id

3.9   City

Columns

Key	Column	Data Type	Description
🔑	city_id	SERIAL	Automatically generated identification number to individual city
	city	CHARACTER VARYING (50)	City's name
🔑	country_id	SMALLINT	Unique identification number assigned to individual country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Autogenerated latest updated date

Linked from

Key	Table	Join
➡	address	address.city_id = city.city_id

Linked to

Key	Table	Join
➡	country	city.country_id = country.country_id

3.10   Country

Columns

Key	Column	Data Type	Description
🔑	country_id	SERIAL	Automatically generated identification number to individual country
	country	CHARACTER VARYING (50)	Country's name
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Autogenerated latest updated date

Linked from

Key	Table	Join
➡	city	city.country_id = country.country_id