Rockbuster Stealth

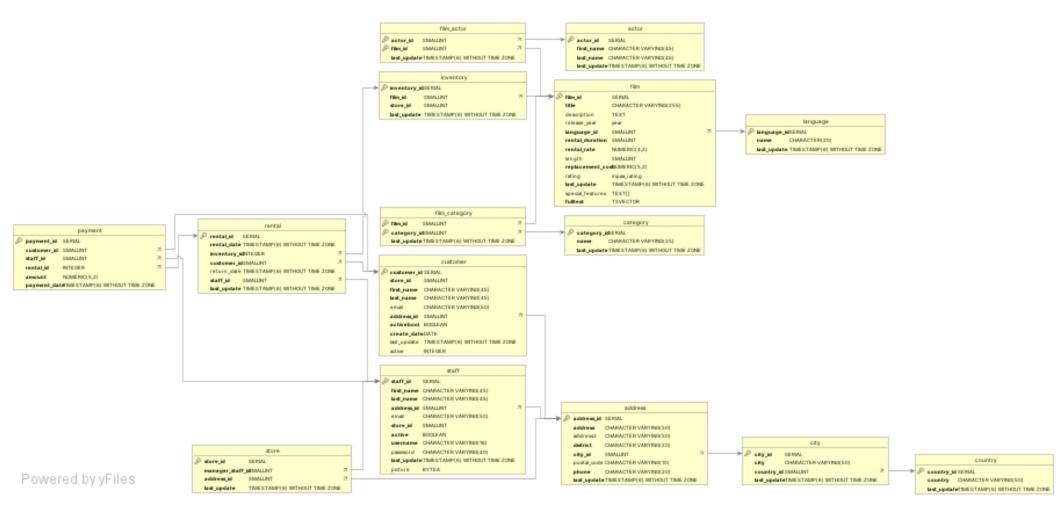## Data Dictionary

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2. Tables

2.1 Fact tables

2.1.1 Payment

Key	Columns	Data Type	Description
Primary	**Payment_id**	SERIAL	A numeric identifier for a payment transaction
Foreign	**Customer_id**	SMALLINT	A numeric identifier assigned to a customer
Foreign	**Staff_id**	SMALLINT	A numeric identifier assigned to a staff member
Foreign	**Rental_id**	INTEGER	A numeric identifier for a rental transaction
	Amount	NUMERIC (5,2)	The exact amount paid for a rental
	Payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time values for the payment transaction without considering the time zone.
Link	**Table**	**Join**	
Links to	**Customer**	payment.customer_id = customer.customer_id	
	Staff	payment.staff_id = staff.staff_id	
	Rental	payment.rental_id = rental.rental_id	

2.1.2 Rental

Key	Columns	Data Type	Description
Primary	**Rental_id**	SERIAL	A numeric identifier for a rental transaction

	Rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time values for the rental transaction without considering the time zone.
Foreign	**Inventory_id**	INTEGER	A numeric identifier assigned to a rental unit
Foreign	**Customer_id**	SMALLINT	A numeric identifier assigned to a customer
	Return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time when the rental unit was returned without considering the time zone.
Foreign	**Staff_id**	SMALLINT	A numeric identifier assigned to a staff member
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time values for the last time the rental was updated without considering the time zone.
Link	**Table**	**Join**	
Links to	**Inventory**	rental.inventory_id = inventory.inventory_id	
	Customer	rental.customer_id = customer.customer_id	
	Staff	rental.staff_id = staff.staff_id	
Linked from	**Payment**	payment.rental_id = rental.rental_id	

2.2 Dimension Tables

2.2.1 Store

Key	Columns	Data Type	Description
Primary	**Store_id**	SERIAL	A numeric identifier assigned to a store
Foreign	**Manager_staff_id**	SMAILLINT	A numeric identifier assigned to the staff manager of a store
Foreign	**Address_id**	SMALLINT	A numeric identifier assigned to a store's address
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time values for the last time the store information was updated without considering the time zone.

Link	Table	Join
Links to	**Staff**	store.manager_staff_id = staff.staff_id
	Address	store.address_id = address.address_id

2.2.2 Adress

Key	Columns	Data Type	Description
Primary	**Address_id**	SERIAL	A numeric identifier assigned to a customer's address
	Address	CHARACTER VARYING(50)	Address of the store (letters, numbers, symbols)

	Address 2	CHARACTER VARYING(50)	Second address of the store (letters, numbers, symbols)
	District	CHARACTER VARYING(20)	District where the store is located (letters, numbers, symbols)
Foreign	**City_id**	SMALLINT	A numeric identifier assigned to a city
	Postal_code	CHARACTER VARYING(10)	Postal code of the city where the store is located
	phone	CHARACTER VARYING(20)	Phone number of the store
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time for the last time the customer information was updated without considering the time zone.

Link	Table	Join
Links to	**City**	address.city_id = city.city_id
	Customer	customer.address_id = address.address_id
Linked from	**Staff**	staff.address_id = address.address_id
	Store	store.address_id = address.address_id

2.2.3 City

Key	Columns	Data Type	Description
Primary	**City_id**	SERIAL	A numeric identifier assigned to a city
	City	CHARACTER VARYING(50)	Name of the city
Foreign	**Country_id**	SMALLINT	A numeric identifier assigned to a country

	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time for the last time the city information was updated without considering the time zone.
Link	**Table**	**Join**	
Links to	**Country**	city.country_id = country.country_id	
Linked from	**Address**	address.city_id = city.city_id	

2.2.4 Country

Key	Columns	Data Type	Description
Primary	**Country_id**	SERIAL	A numeric identifier assigned to a country
	Country	CHARACTER VARYING(50)	Name of the country
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time for the last time the country information was updated without considering the time zone.
Link	**Table**	**Join**	
Linked from	**City**	city.country_id = country.country_id	

2.2.5 Inventory

Key	Columns	Data Type	Description
Primary	**Inventory_id**	SERIAL	A numeric identifier assigned to a rental unit

Foreign	Film_id	SMALLINT	A numeric identifier assigned to a customer
Foreign	Store_id	SMALLINT	A numeric identifier assigned to a store
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time values for the last time the inventory was updated without considering the time zone.

Link	Table	Join
Links to	Film	inventory.film_id = film.film_id
	Film_category	inventory.film_id = film_actor.film_id
	Film_actor	inventory.film_id = film_category.film_id
Linked from	Rental	rental.inventory_id = inventory.inventory_id

2.2.6 Staff

Key	Columns	Data Type	Description
Primary	Staff_id	SERIAL	A numeric identifier assigned to a staff member
	First_name	CHARACTER VARYING(45)	First name of a staff member (letters, numbers, symbols)
	Last_name	CHARACTER VARYING(45)	Last name of a staff member (letters, numbers, symbols)
Foreign	Address_id	SMALLINT	A numeric identifier assigned to a staff member's address
	Email	CHARACTER VARYING(50)	Email of a staff member (letters, numbers, symbols)

Foregin	Store_id	SMALLINT	A numeric identifier assigned to a store
	Active	BOOLEAN	Identify a staff member as active or not by giving true/false values
	Username	CHARACTER VARYING(16)	Username of a staff member (letters, numbers, symbols)
	Password	CHARACTER VARYING(40)	password of a staff member (letters, numbers, symbols)
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time for the last time the staff information was updated without considering the time zone.
	Picture	BYTEA	(Binary data type) in this case JPG, PNG of a staff member

Link	Table	Join
Links to	Address	staff.address_id = address.address_id
Linked from	Store	store.manager_staff_id = staff.staff_id

2.2.7 Customer

Key	Columns	Data Type	Description
Primary	Customer_id	SERIAL	A numeric identifier assigned to a customer
Foreign	Store_id	SMALLINT	A numeric identifier assigned to a store
	First_name	CHARACTER VARYING(45)	First name of a customer (letters, numbers, symbols)
	Last_name	CHARACTER VARYING(45)	Last name of a customer (letters, numbers, symbols)

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Key	Columns	Data Type	Description
	Email	CHARACTER VARYING(50)	Email of a customer (letters, numbers, symbols)
Foreign	**Address_id**	SMALLINT	A numeric identifier assigned to a customer's address
	Activebool	BOOLEAN	Identify a customer as active or not by giving true/false values
	Create_date	DATE	Date when a customer information was registered in Rockbuster's system
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time for the last time the customer information was updated without considering the time zone.
	Active	INTEGER	A numeric value related to the state of a customer (active or inactive)

Link	Table	Join
Links to	**Address**	customer.address_id = address.address_id
Linked from	**Rental**	rental.customer_id = customer.customer_id
	Payment	payment.customer_id = customer.customer_id

2.2.8 Film

Key	Columns	Data Type	Description
Primary	**Film_id**	SERIAL	A numeric identifier assigned to a film
	Title	CHARACTER VARYING(255)	Title of the film (letters, numbers, symbols)
	Description	TEXT	Describes what the movie is about in text form

	Release_year	Year	Year when the movie was released
Foreign	**Language_id**	SMALLINT	A numeric identifier assigned to a language
	Rental_duration	SMALLINT	How many days the film is rented
	Rental_rate	NUMERIC(5,2)	Cost of the rent per day
	Length	SMALLINT	How long is the movie in minutes
	Replacement_cost	NUMERIC(5,2)	Cost of the replacement of a film if it is lost or not returned.
	Rating	Mpaa_rating	Motion Picture Association of America film rating system
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time values for the last time the actor information was updated without considering the time zone.
	Special_features	TEXT()	Additional features included in the film rental
	fulltext	TSVECTOR	Text search data type for indexing and searching

Link	Table	Join
Links to	**Language**	film.language_id = language.language_id
Linked from	**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

2.2.9 Film_actor

Key	Columns	Data Type	Description
Primary	**Actor_id**	SMALLINT	A numeric identifier assigned to a film actor
Primary	**Film_id**	SMALLINT	A numeric identifier assigned to a film
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time values for the last time the film_actor information was updated without considering the time zone.
Link	**Table**	**Join**	
Links to	**Actor**	film_actor.actor_id = actor.actor_id	
	Film	film_actor.film_id = film.film_id	

2.2.10   Actor

Key	Columns	Data Type	Description
Primary	**Actor_id**	SERIAL	A numeric identifier assigned to a film actor
	First_name	CHARACTER VARYING(45)	
	Last_name	CHARACTER VARYING(45)	

	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time values for the last time the actor information was updated without considering the time zone.

Link	Table	Join
Linked from	Film_actor	film_actor.actor_id = actor.actor_id

2.2.11 Film_category

Key	Columns	Data Type	Description
Primary	Film_id	SMALLINT	A numeric identifier assigned to a film
Primary	Category_id	SMALLINT	A numeric identifier assigned to a film genre
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time values for the last time the category information was updated without considering the time zone.

Link	Table	Join
Links to	Category	film_category.category_id = category.category_id
Linked from	Inventory	inventory.film_id = film_category.film_id

2.2.12 Category

Key	Columns	Data Type	Description
Primary	Category_id	SERIAL	A numeric identifier assigned to a film genre

Key	Columns	Data Type	Description
	Name	CHARACTER VARYING(25)	Name of the film genre (letters, numbers, symbols)
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time values for the last time the category information was updated without considering the time zone.
Link	**Table**	**Join**	
Linked from	**Film_category**	film_category.category_id = category.category_id	

2.2.13   Language

Key	Columns	Data Type	Description
Primary	**Language_id**	SERIAL	A numeric identifier assigned to a language
	Name	CHARACTER VARYING(20)	Name of the language
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time for the last time the language information was updated without considering the time zone.
Link	**Table**	**Join**	
Linked from	**Film**	film.language_id = language.language_id	