

ROCKBUSTER STEALTH

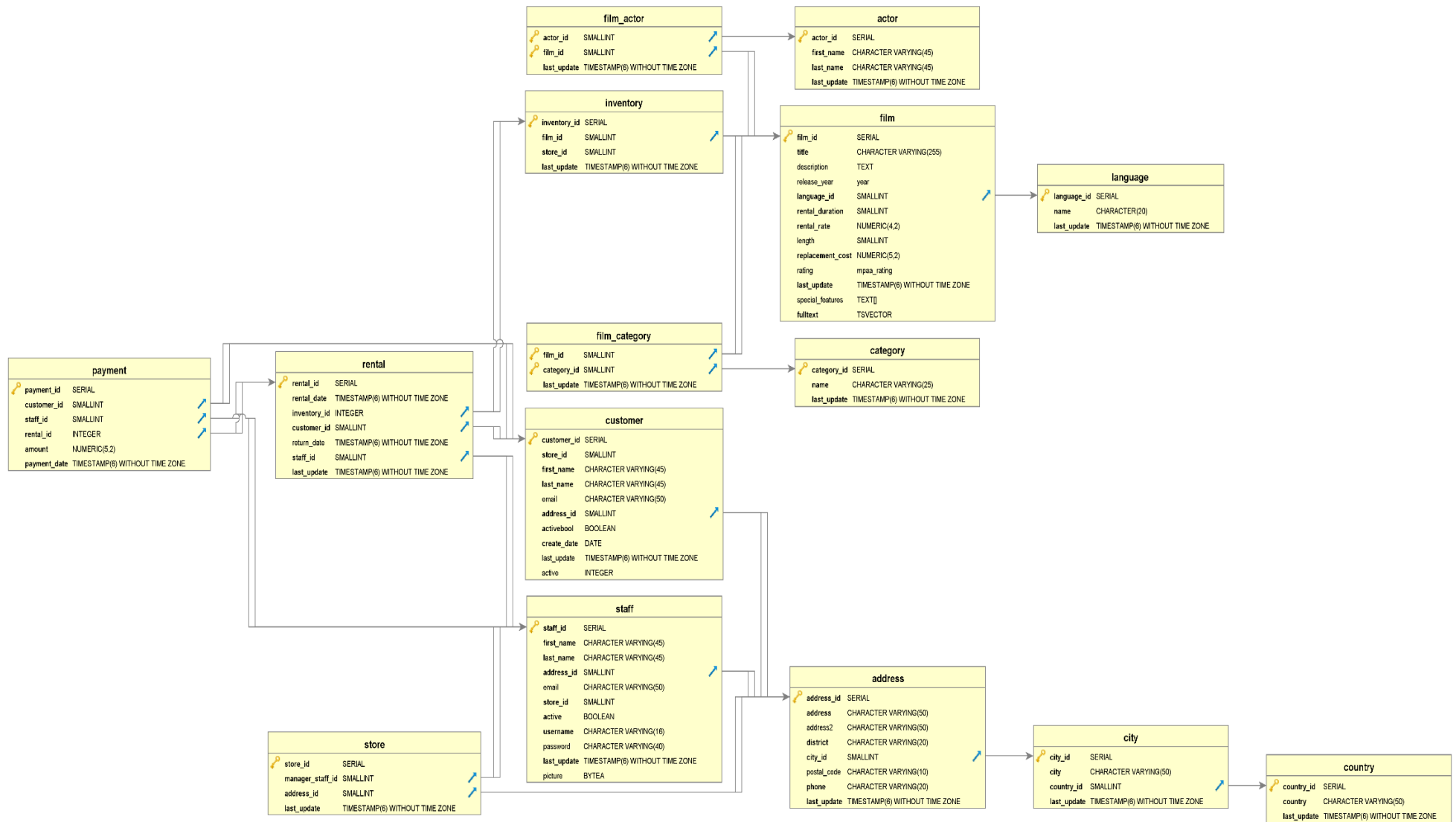
Data Dictionary

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Entity Relationship Diagram (ERD)



Primary key







Foreign key

TABLES

FACT TABLES

Payment Table

This table stores information about payments made by Rockbuster customers.



	COLUMN	DATA TYPE	DESCRIPTION
	Payment_id	SERIAL	Primary key - Unique payment identifier
	Customer_id	SMALLINT	Foreign key - Unique customer identifier
	Staff_id	SMALLINT	Foreign key - Unique staff identifier
	Rental_id	SERIAL	Foreign key - Unique rental identifier
	Amount	NUMERIC (5.2)	Payment amount received
	Payment_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of payment



Links to: CUSTOMER(customer_id), STAFF(staff_id), RENTAL(rental_id)

Linked from -

Rental Table

This table stores information about rentals made by Rockbuster customers.

	COLUMN	DATA TYPE	DESCRIPTION
	Rental_id	SERIAL	Primary key - Unique rental identifier
	Rental_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date of rental
	Inventory_id	INTEGER	Foreign key - Unique inventory identifier

	Customer_id	SMALLINT	Foreign key - Unique customer identifier
	Return_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date of return
	Staff_id	SMALLINT	Foreign key - Unique staff identifier
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update





Links to: CUSTOMER(customer_id), STAFF(staff_id), INVENTORY(inventory_id)

Linked from: PAYMENT(renatl_id)

DIMENSION TABLES

Film Actor Table

This table represents the association between actors and films in Rockbuster's movie collection.


	COLUMN	DATA TYPE	DESCRIPTION
	Actor_id	SMALLINT	Primary key - Unique actor identifier
			
	Film_id	SMALLINT	Foreign key - Unique film identifier
			
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update

Links to: ACTOR(actor_id), FILM(film_id)

Linked from -

Actor Table

The table contains the first and last names of actors who appear in films from Rockbuster's collection



	COLUMN	DATA TYPE	DESCRIPTION
	Actor_id	SMALLINT	Primary key - Unique actor identifier
	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 of last update

Links to: -

Linked from: FILM_ACTOR(actor_id)

Film Table

This table represents the films in Rockbuster's movie collection.

	COLUMN	DATA TYPE	DESCRIPTION
	Film_id	SERIAL	Primary key - Unique film identifier
	title	CHARACTER VARYING(45)	Title of the movie
	description	TEXT	Description of the film
	Release_year	YEAR	Year of release
	Language_id	SMALLINT	Unique language identifier
	Rental_duration	SMALLINT	Rental duration
	Rental_rate	NUMERIC (5.2)	Rental rate
	length	SMALLINT	Length of film


	Replacement_cost	NUMERIC (5.2)	Cost of replacement
	rating	Mpaa rating	Film rating
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update
	Special_features	TEXT[]	Special features of film
	fulltext	TSVECTOR	List of keywords and positions

Links to: LANGUAGE(language_id)

Linked from: INVENTORY(film_id), FILM_ACTOR(film_id), FILM_CATEGORY(film_id)

Language Table

This table stores information about the languages used in films at Rockbuster.


	language_id	SMALLINT	Unique language identifier
	name	CHARACTER VARYING (20)	Name of the language
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update

Links to:

Linked from: FILM(language_id)

Film Category Table

This table represents the association between films and categories in Rockbuster's movie collection

	Film_id	SERIAL	Primary key - Unique film identifier
	Category_id	SERIAL	Unique Category identifier


	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update
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Links to: CATEGORY(category_id)

Linked from: FILM(film_id)

Category Table

This table contains categories of movies from Rockbuster's library




	category_id	SERIAL	Primary key. Unique category identifier
	name	CHARACTER VARYING(25)	Category Name
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update

Links to:

Linked from: FILM_CATEGORY(category_id)

Customer Table

This table contains data about Rockbusters customers.

	customer_id	SERIAL	Primary key. Unique customer identifier
	store_id	SMALLINT	Foreign key. Unique store identifier
	first_name	CHARACTER VARYING(45)	Customer's first name
	last_name	CHARACTER VARYING(45)	Customer's last name
	email	CHARACTER VARYING(45)	Customer's E-Mail address
	address_id	SMALLINT	Foreign key. Unique address identifier




	activbool	BOOLEAN	Customer's activity status as boolean data type: 'TRUE' or 'FALSE'
	create_date	DATE	Date of creation customer's account
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update
	active	INTEGER	Customer's activity status as integer: 1 or 0

Links to: STORE(store_id), ADDRESS(address_id)

Linked from: RENTAL(customer_id)

Staff Table

This table stores information about staff members who work at Rockbuster.




	staff_id	SERIAL	Primary key. Unique staff identifier
	first_name	CHARACTER VARYING(45)	Staff's first name
	last_name	CHARACTER VARYING(45)	Staff's last name
	email	CHARACTER VARYING(45)	Staff's E-Mail address
	address_id	SMALLINT	Foreign key. Unique address identifier
	store_id	SMALLINT	Foreign key. Unique store identifier
	active	BOOLEAN	Staff status
	Username	CHARACTER VARYING (16)	Username of staff
	Password	TIMESTAMP (6) WITHOUT TIME ZONE	Password of staff
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update
	picture	BYTEA	Picture of staff

Links to: ADDRESS(address_id), STORE(store_id)

Linked from: PAYMENT(staff_id)

Store Table

This table captures transactional data related to rentals at Rockbuster and represents the central fact table in the schema.



	store_id	SERIAL	Primary key. Unique rental identifier
	manager_staff_id	SMALLINT	Unique manager staff identifier
	address_id	SMALLINT	Foreign key. Unique address identifier
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update

Links to: STAFF(staff_id), ADDRESS(address_id)

Linked from:

Address Table

This table represents the addresses related to Rockbuster's movie collection

	address_id	SERIAL	Primary key. Unique address identifier
	address	CHARACTER VARYING (50)	Address
	address2	CHARACTER VARYING (50)	Additional address details
	district	CHARACTER VARYING (20)	Name of District
	city_id	SMALLINT	Foreign key. Unique city identifier
	postal_code	CHARACTER VARYING (10)	Postal Code
	phone	CHARACTER VARYING (20)	Phone number of staff



	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update
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Links to: CITY(city_id)

Linked from STORE(address_id), STAFF(address_id), CUSTOMER(address_id)

City Table

This table represents the cities related to Rockbuster's movie collection


	city_id	SERIAL	Primary key. Unique city identifier
	city	CHARACTER VARYING(50)	Name of city
	country_id	SMALLINT	Foreign key. Unique country identifier
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update

Links to: COUNTRY(country_id)

Linked from: ADDRESS(city_id)

Country Table

This table represents the countries related to Rockbuster's movie collection

	country_id	SERIAL	Primary key. Unique country identifier
	country	CHARACTER VARYING(50)	Name of country
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update

Links to:

Linked from: COUNTRY(country_id)