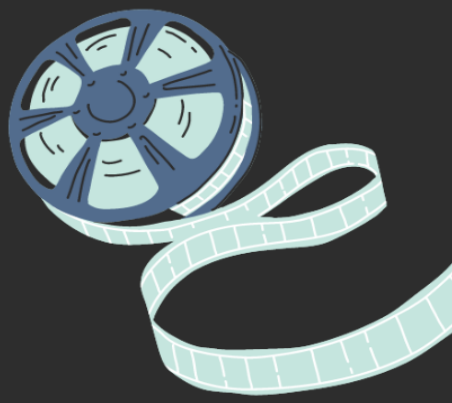

Rockbuster Stealth

Data Dictionary

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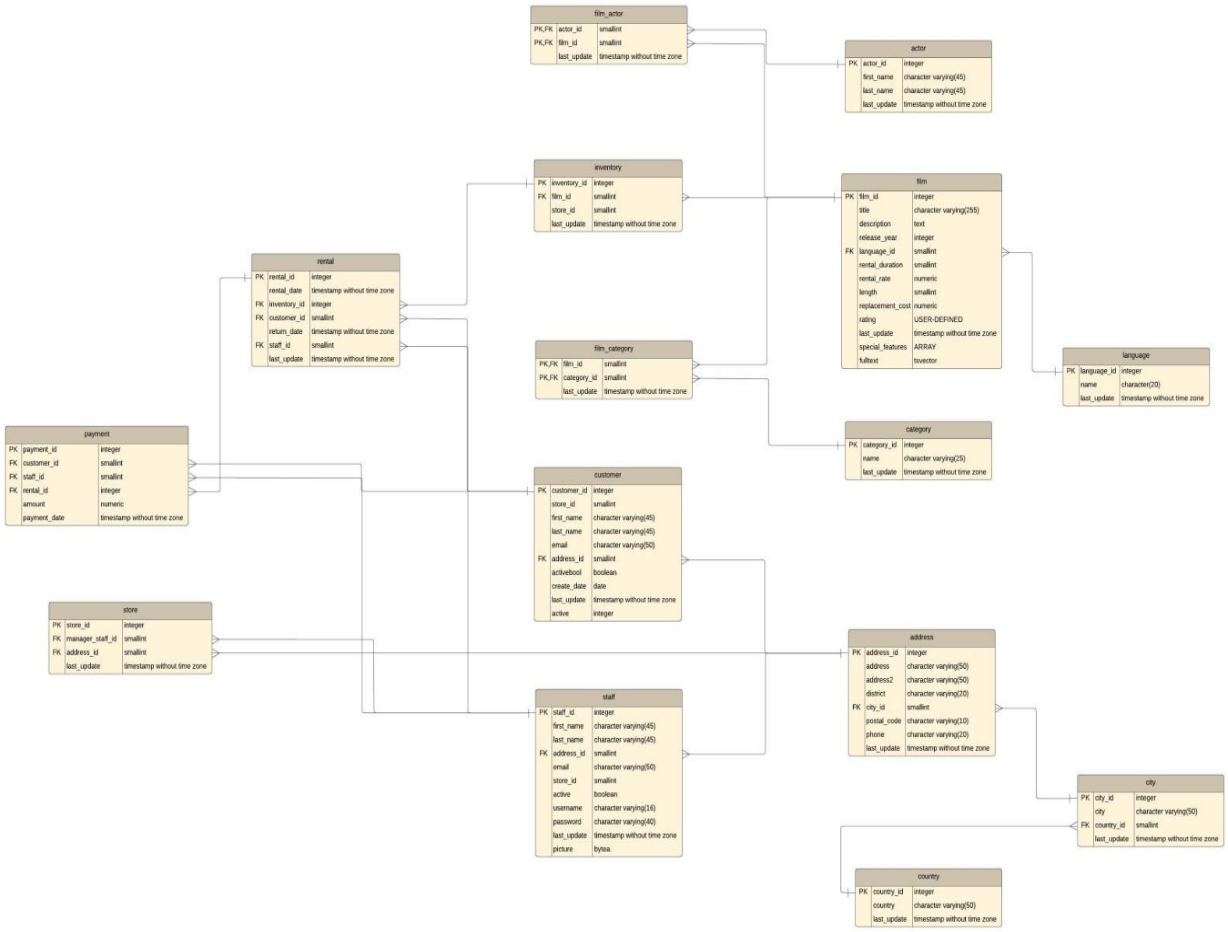
1. Entity Relationship Diagram.



The Rockbuster database has a snowflake schema. It contains dimension tables and sub-dimension tables.

2. Legend.

Primary Key - 🗝️
Foreign Key - ↗️

3. Fact Tables.

3.1 Rental Table.

	Columns	Data Type	Description
🗝️	rental_id	integer	Primary key and unique number for rentals
	rental_date	timestamp without time zone	Date of rental
↗️	inventory_id	integer	Unique inventory ID
↗️	customer_id	smallint	Unique customer ID
	return_date	timestamp without time zone	Date of product return
↗️	staff_id	smallint	Unique Staff ID
	last_update	timestamp without time zone	Date and time the last update of product status

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

3.2 Payment Table.

	Columns	Data Type	Description
🗝️	payment_id	integer	Primary Key for payment records
↗️	customer_id	smallint	Number of unique Customer ID
↗️	staff_id	smallint	Unique staff ID
↗️	rental_id	integer	Unique Rental ID

	amount	numeric	Price that was paid by customer
	payment_date	timestamp without time zone	Year, month, date and time of payment

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

4. Dimension Tables.

4.1 Store Table.

	Columns	Data Type	Description
🔑	store _id	integer	ID number for store
↗️	manager_staff_id	smallint	Unique number for manager
↗️	address_id	smallint	Unique number for address
	last_update	timestamp without time zone	Time and date of last update of the data

Links to:

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

4.2 Inventory Table.

	Columns	Data Type	Description
🔑	inventory _id	integer	Unique number for inventory
↗️	film_id	smallint	Unique number for each film
↗️	store_id	smallint	ID number for store
	last_update	timestamp without time zone	Time and date of last update of a record

Links To:

Table	Join
film	inventory.film_id = film.film_id
store	inventory.store_id=store.store_id

Links From:

Table	Join
rental	rental.inventory_id=inventory.inventory_id

4.3 Film_categoty Table.

	Columns	Data Type	Description
🔑↗️	film_id	smallint	Unique number for each film
🔑↗️	category_id	smallint	ID of the category
	last_update	timestamp without time zone	Time and date of last update of a record

Links To:

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

4.4 Customer Table.

	Columns	Data Type	Description
🔑	customer_id	integer	Number of unique Customer ID
	store_id	smallint	ID number for store
	first_name	character varying (45)	First name of a customer
	last_name	character varying (45)	Last name of a customer
	email	character varying (50)	Customers email address

↗️	address_id	smallint	ID number for each address of a customer
	activebool	boolearn	Active true or false
	create_date	date	Date of account creation
	last_update	timestamp without time zone	Time and date of last update of a record
	active	integer	1 or 0 to indicate activity

Links To:

Table	**Join**
address	customer.address_id=address.address_id

Links From:

Table	**Join**
payment	payment.customer_id=customer.customer_id
rental	rental.customer_id=customer.customer_id

4.5 Staff Table.

	Columns	**Data Type**	**Description**
🗝️	staff_id	integer	Unique ID for staff member
	first_name	character varying (45)	Staff first name
	last_name	character varying (45)	Staff last name
↗️	address_id	smallint	ID of staff address
	email	character varying (50)	Email of the staff member
	store_id	smallint	ID number for store
	active	boolearn	True or false if still active staff
	username	character varying (16)	Staff username
	password	character varying (40)	Staff password
	last_update	timestamp without time zone	Time and date of last update of a record
	picture	bytea	Picture of 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.address_id=staff.address_id

4.6 Actor Table.

	Columns	Data Type	Description
	actor_id	integer	Unique actor ID
	first_name	character varying (45)	Actor first name
	last_name	character varying (45)	Actor last name
	last_update	timestamp without time zone	Time and date of last update

Links From:

Table	Join
film_actor	film_actor. actor_id=actor.actor_id

4.7 Film Table.

	Columns	Data Type	Description
	film_id	integer	Unique film ID
	title	character varying (255)	Film title
	description	text	Film full description
	release_year	integer	Year when film was released
	language_id	smallint	Unique language ID
	rental_duration	smallint	The duration of the rental

	rental_rate	numeric	The rating of the rental
	length	smallint	The length of the film in min
	replacement_cost	numeric	The cost of replacing the film
	rating	USER-DEFINED	Rating of the film
	last_update	timestamp without time zone	Date and time of last update
	special_features	ARRAY	Explanation of special film features
	fulltext	tsvector	Text included in film and count of word

Links From:

Table	**Join**
film_actor	film_actor. film_id=film.film_id
inventory	inventory.film_id=film.film_id

4.8 Category Table.

	Columns	**Data Type**	**Description**
🗝	category_id	integer	Unique category ID
	name	character varying (25)	Name of category
	last_update	timestamp without time zone	Date and time of last update

Links From:

Table	**Join**
film_ category	film_category.category_id=category.category_id

4.9 Address Table.

	Columns	**Data Type**	**Description**
🗝	address_id	integer	Unique address ID
	address	character varying (50)	Full address
	address2	character varying (50)	Full back up address
	district	character varying (20)	Full district name
↗	city_id	smallint	Unique city ID

	postal_code	character varying (20)	Full postal code
	phone	character varying (10)	Phone number
	last_update	timestamp without time zone	Date and time of last update

Links To:

Table	**Join**
city	address.city_id=city.city_id

Links From:

Table	**Join**
payment	payment.staff_id=staff.staff_id
rental	rental.staff_id=staff.staff_id
store	store.address_id=staff.address_id

4.10 City Table.

	Columns	**Data Type**	**Description**
🗝️	city _id	integer	Full name of city
	city	character varying (50)	Unique city ID
↗️	country_id	smallint	Unique country ID
	last_update	timestamp without time zone	Time and date of last update

Links To:

Table	**Join**
country	city.country_id=country.country_id

Links From:

Table	**Join**
address	address.city_id=city.city_id

4.11 Country Table.

	Columns	Data Type	Description
🔑	country_id	integer	Unique country ID
	country	character varying (50)	Full name of country
	last_update	timestamp without time zone	Time and date of last update

Links From:

Table	Join
city	city.country_id=country.country_id

4.12 Language Table.

	Columns	Data Type	Description
🔑	language_id	integer	Unique language ID
	name	character varying (20)	Language of a film
	last_update	timestamp without time zone	Time and date of last update

Links From:

Table	Join
film	film.language_id=language.language_id

4.13 Film_actor Table.

	Columns	Data Type	Description
🔑↗️	actor_id	smallint	Unique actor ID
🔑↗️	film_id	smallint	Unique film ID
	last_update	timestamp without time zone	Time and Date of last update

Links To:

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