

Rockbuster Stealth LLC

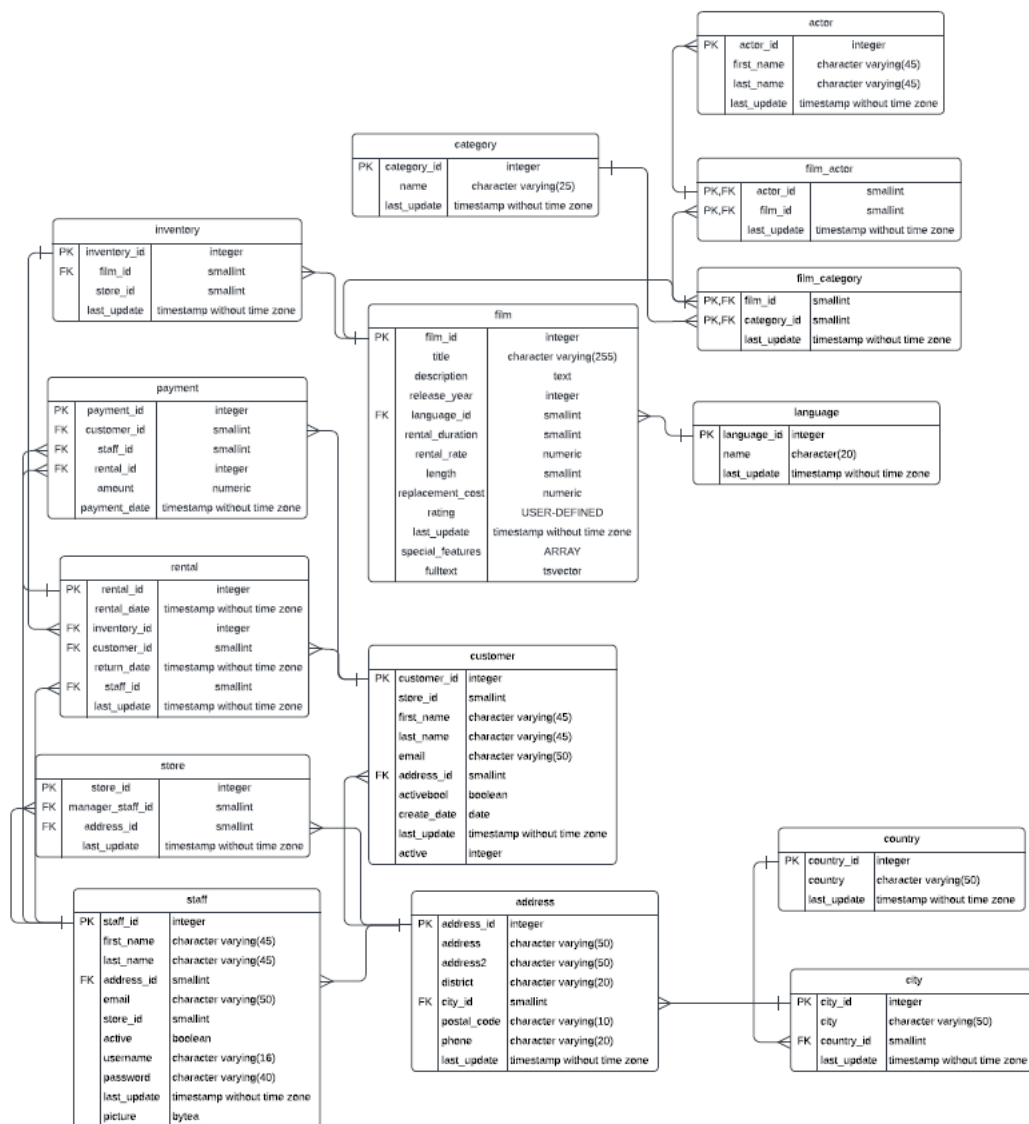
Data Dictionary

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Databases & SQL for Analysts

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1. Entity relationship diagram



PK – Primary Key

FK – Foreign Key

2. Fact tables

2.1. Table: payment

	Columns	Data Type	Description
PK	payment_id	integer	Unique identification number for each payment
FK	customer_id	smallint	Unique identification number for each customer
FK	staff_id	smallint	Unique identification number for stuff member
FK	rental_id	integer	Unique identification number for rental transaction
	amount	numeric (5,2)	Rent payment amount
	payment_date	timestamp without time zone	Date and time of payment transaction

Links To

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. Table: rental

	Columns	Data Type	Description
PK	rental_id	integer	Unique identification number for rental transaction
	rental_date	timestamp without time zone	Date and time the film was rented
FK	inventory_id	integer	Unique identification number for each film in the inventory
FK	customer_id	smallint	Unique identification number for each customer
	return_date	timestamp without time zone	Date and time of the return of the rented film
FK	staff_id	smallint	Unique identification number for stuff member
	last_update	timestamp without time zone	Date and time of the last update of the record

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. Dimension tables

3.1. Table: actor

	Columns	Data Type	Description
PK	actor_id	integer	Unique identification number for each actor
	first_name	character varying (45)	Actor's first name
	last_name	character varying (45)	Actor's last name
	last_update	timestamp without time zone	Date and time of the last update of the record

Links To:

Table	Join
film_actor	actor.actor_id = film_actor.actor_id

3.2. Table: address

	Columns	Data Type	Description
PK	address_id	integer	Unique identification number for each customer address
	address	character varying (50)	Name of the street
	address2	character varying (50)	Number of the building, apartment etc.
	district	character varying (20)	Name of the district
FK	city_id	smallint	Unique identification number for each city
	postal_code	character varying (10)	Address postcode
	phone	character varying (10)	Address phone number
	last_update	timestamp without time zone	Date and time of the last update of the record

Links To:

Table	Join
customer	address.address_id = customer.address_id
store	address.address_id = store.address_id
stuff	address.address_id = stuff.address_id

Links From:

Table	Join
city	city.city_id = address.city_id

3.3. Table: category

	Columns	Data Type	Description
PK	category_id	integer	Unique identification number for each film category
	name	character varying (25)	Category name
	last_update	timestamp without time zone	Date and time of the last update of the record

Links To:

Table	Join
film_category	category.category_id = film_category.category_id

3.4. Table: city

	Columns	Data Type	Description
PK	city_id	integer	Unique identification number for each city from customer address
	city	character varying (50)	Name of the city

FK	country_id	smallint	Unique identification number for each country from customer adress
	last_update	timestamp without time zone	Date and time of the last update of the record

Links To:

Table	Join
address	city.city_id = address.city_id

Links From:

Table	Join
country	country.country_id = city.country_id

3.5. Table: country

	Columns	Data Type	Description
PK	country_id	integer	Unique identification number for
	country	character varying (50)	Name of the country
	last_update	timestamp without time zone	Date and time of the last update of the record

Links To:

Table	Join
city	country.country_id = city.country_id

3.6. Table: customer

	Columns	Data Type	Description
PK	customer_id	integer	Unique identification number for each customer
FK	store_id	smallint	Unique identification number for
	first_name	character varying (45)	Customer's first name
	last_name	character varying (45)	Customer's email
	email	character varying (50)	Customer's last name
FK	address_id	smallint	Unique identification number for each customer's adress
	activebool	boolean	Is the customer active? (True or False)
	create_date	date	Date and time customer account created
	last_update	timestamp without time zone	Date and time of the last update of the record
	active	integer	Account active status

Links To:

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

Links From:

Table	Join
address	address.address_id = customer.address_id
store	store.store_id = customer.store_id

3.7. Table: film

	Columns	Data Type	Description
PK	film_id	integer	Unique identification number for
	title	character varying (255)	Name of the film
	description	text	Description of the film

	release_year	integer	The year of release of the film
FK	language_id	smallint	Unique identification number for the language of the film
	rental_duration	smallint	Number of days the film was rented
	rental_rate	numeric (4,2)	Amount of rent payment
	length	smallint	Number of minutes of each film
	replacement_cost	numeric (5,2)	Amount paid for film replacement
	rating	mpaa rating	Rating of the film
	last_update	timestamp without time zone	Date and time of the last update of the record
	special_features	ARRAY	The special features that come with each film
	fulltext	tsvector	Keywords that are linked to each film

Links To:

Table	Join
inventory	film.film_id = inventory.film_id
film_category	film.film_id = film_category.film_id

Links From:

Table	Join
language	language.language_id = film.language_id

3.8. Table: film_actor

	Columns	Data Type	Description
PK, FK	actor_id	smallint	Unique identification number for each actor
PK, FK	film_id	smallint	Unique identification number for each film
	last_update	timestamp without time zone	Date and time of the last update of the record

Links To:

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

3.9. Table: film_category

	Columns	Data Type	Description
PK, FK	film_id	smallint	Unique identification number for each film
PK, FK	category_id	smallint	Unique identification number for each film category
	last_update	timestamp without time zone	Date and time of the last update of the record

Links To:

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

3.10. Table: inventory

	Columns	Data Type	Description
PK	inventory_id	integer	Unique identification number for each film in the inventory
FK	film_id	smallint	Unique identification number for each film

FK	store_id	smallint	Unique identification number for each store
	last_update	timestamp without time zone	Date and time of the last update of the record

Links To:

Table	Join
rental	inventory.inventory_id = rental.inventory_id

Links From:

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

3.11. Table: language

	Columns	Data Type	Description
PK	language_id	integer	Unique identification number for the language of the film
	name	character (20)	Name of the language
	last_update	timestamp without time zone	Date and time of the last update of the record

Links To:

Table	Join
film	language.language_id = film.language_id

3.12. Table: staff

	Columns	Data Type	Description
PK	staff_id	integer	Unique identification number for staff member
	first_name	character varying (45)	Staff member first name
	last_name	character varying (45)	Staff member last name
FK	address_id	smallint	Unique identification number for the adress
	email	character varying (50)	Staff member email
FK	store_id	smallint	Unique identification number for each store
	active	boolean	Is the staff member active? (True or False)
	username	character varying (16)	User name of the staff member account
	password	character varying (40)	Passworf for the staff member account
	last_update	timestamp without time zone	Date and time of the last update of the record
	picture	bytea	Photo of each member of staff

Links To:

Table	Join
store	staff.staff_id = store.manager_staff_id
payment	payment.staff_id = staff.staff_id
rental	rental.staff_id = staff.staff.id

Links From:

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

3.13. Table: store

	Columns	Data Type	Description
PK	store_id	integer	Unique identification number for each store

FK	manager_staff_id	smallint	Unique identification number for staff manager
FK	address_id	smallint	Unique identification number for the adress
	last_update	timestamp without time zone	Date and time of the last update of the record

Links To:

Table	Join
staff	store.store_id = staff.store_id
customer	store.store_id = customer.store_id
inventory	store.store_id = inventory.store_id

Links From:

Table	Join
address	address.address_id = store.address.id
staff	staff.staff_id = store.manager_staff_id