

# Rockbuster

## Data Dictionary

Data Analyst:  
Amrita Yankson

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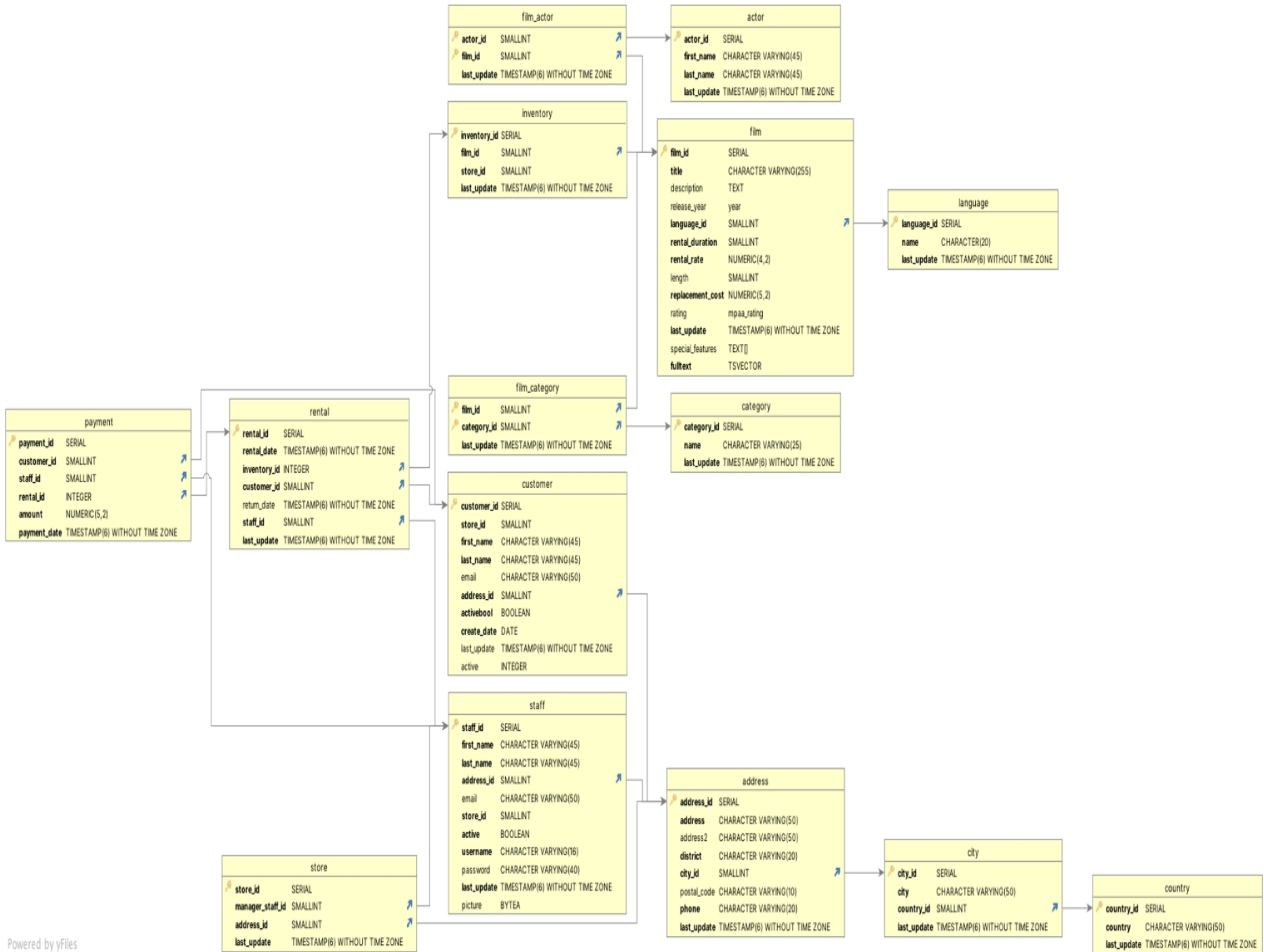
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## Legend

Primary Key: 





Foreign Key: 

# Entity Relationship Diagram (ERD)



## Fact Tables

### Rental

	Columns	Data Type	Description
	rental_id	SERIAL	# assigned to ID each movie rental
	rental_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of rental
	inventory_id	INTEGER	# assigned to ID each movie in the inventory
	customer_id	SMALLINT	# assigned to each customer
	return_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of return
	staff_id	SMALLINT	# assigned to ID each staff member
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of the last table update





### 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

### Payment




	Columns	Data Type	Description
	payment_id	SERIAL	# assigned to ID each transaction
	customer_id	SMALLINT	# assigned to ID each customer
	staff_id	SMALLINT	# assigned to ID each staff member
	rental_id	INTEGER	# assigned to ID each movie rental
	amount	NUMERIC(5,2)	Cost of each rental (\$)
	payment_date	TIMESTAMP (6) WITHOUT TIME ZONE	Year, day, month, and time of purchase

### 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

## Dimension Tables





### Store

	Columns	Data Type	Description
	store_id	SERIAL	# assigned to ID a specific store
	manager_staff_id	SMALLINT	# assigned to ID each manager at a specific store
	address_id	SMALLINT	# assigned to ID each store's address
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last store update

### Links To

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


### Film Actor


	Columns	Data Type	Description
	actor_id	SMALLINT	# assigned to ID each actor
			
	film_id	SMALLINT	# assigned to ID each film
			
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update

### Links To

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

### Inventory

	Columns	Data Type	Description
	inventory_id	SERIAL	# assigned to ID each movie in the inventory

	film_id	SMALLINT	# assigned to ID each film
	store_id	SMALLINT	# assigned to ID a specific store
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update



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


Film Category


	Columns	Data Type	Description
	film_id	SMALLINT	# assigned to ID each film
	category_id	SMALLINT	# assigned to ID each movie category
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update

Links To

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

Customer

	Columns	Data Type	Description
	customer_id	SERIAL	# assigned to ID each customer
	store_id	SMALLINT	# assigned to ID a specific store
	first_name	CHARACTER VARYING (45)	First name of customer
	last_name	CHARACTER VARYING (45)	Last name of customer
	email	CHARACTER VARYING (50)	Email of customer

	address_id	SMALLINT	# assigned to ID each customers address
	activebool	BOOLEAN	True or False- Is the customer active?
	create_date	DATE	Date the customer account was created
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last update
	active	INTEGER	Account status (0/1=active)



#### 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

#### Staff

	Columns	Data Type	Description
	staff_id	SERIAL	# assigned to ID each staff member
	first_name	CHARACTER VARYING (45)	Staff members first name
	last_name	CHARACTER VARYING (45)	Staff members last name
	address_id	SMALLINT	# assigned to ID each store's address
	email	CHARACTER VARYING (50)	email address for each staff member
	store_id	SMALLINT	# assigned to ID a specific store
	active	BOOLEAN	True or False- Is the staff member active?
	username	CHARACTER VARYING (16)	username of staff member
	password	CHARACTER VARYING (40)	password of staff member
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	date and time of last update
	picture	BYTEA	Photo of staff member, if available


#### 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



#### Actor

	Columns	Data Type	Description
	actor_id	SERIAL	# assigned to ID each actor
	first_name	CHARACTER VARYING (45)	First name of Actor
	last_name	CHARACTER VARYING (45)	Last name of Actor
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	date and time of last update

#### Links From

Table	Join
Film Actor	film_actor.actor_id=actor.actor_id

#### Film

	Columns	Data Type	Description
	film_id	SERIAL	# assigned to ID each film
	title	CHARACTER VARYING (255)	Title of movie
	description	TEXT	description of movie
	release_year	year	year the movie was released
	language_id	SMALLINT	# assigned to ID what language the movie is in
	rental_duration	SMALLINT	# of days the movie was rented for
	rental_rate	NUMERIC(4,2)	Amount the movie was rented for (\$)
	length	SMALLINT	length of movie



	replacement_cost	NUMERIC(5,2)	Cost of replacing the movie
	rating	mpaa_rating	Movie rating (G, PG, R, etc.)
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	date and time of last update
	special_features	TEXT[]	Film features in each movie
	fulltext	TSVECTOR	Text- key description of movie and amount of text described


#### Links To

Table	Join
Language	film.language_id=language.language_id

#### Links From

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


#### Category

	Columns	Data Type	Description
	category_id	SERIAL	# assigned to ID a movie category
	name	CHARACTER VARYING (25)	Name of movie category
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	date and time of last update

#### Links From

Table	Join
Film Category	film_category.category_id=category.category_id



#### Language

	Columns	Data Type	Description
	language_id	SERIAL	# assigned to ID what language the movie is in
	name	CHARACTER(20)	Name of language
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	date and time of last update

Links From

Table	Join
Film	film.language_id=language.language_id

Address

	Columns	Data Type	Description
	address_id	SERIAL	# assigned to ID address
	address	CHARACTER VARYING (50)	Street address
	address2	CHARACTER VARYING (50)	Alternate address or second part of address
	district	CHARACTER VARYING (20)	District of where address is located
	city_id	SMALLINT	# assigned to ID city
	postal_code	CHARACTER VARYING (10)	Postal code for address
	phone	CHARACTER VARYING (20)	Phone number associated with address
	last_update	TIMESTAMP (6) 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

City

	Columns	Data Type	Description
	city_id	SERIAL	# assigned to ID each city
	city	CHARACTER VARYING (50)	Name of city
	country_id	SMALLINT	# assigned to ID each country
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	date and time 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

#### Country

	Columns	Data Type	Description
	country_id	SERIAL	# assigned to ID each country
	country	CHARACTER VARYING (50)	Name of Country
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	date and time of last update

#### Links From

<b>Table</b>	<b>Join</b>
City	city.country_id=country.country_id