

# **ROCKBUSTER STEALTH**

## **Data Dictionary**

**Stanley James**

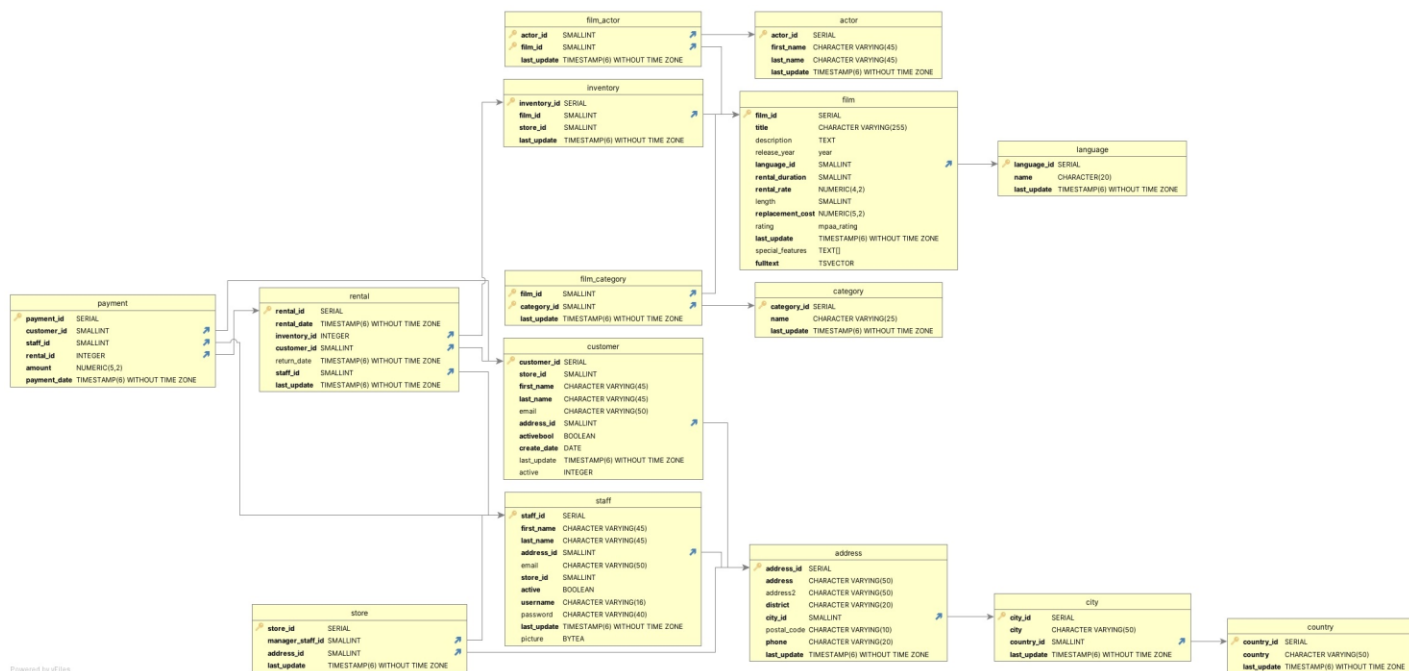
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## **Data Storage & Structure Rockbuster Entity Relationship Diagram (ERD):**







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🔑 = Primary Key

📌 = Foreign Key

## Fact Table: Payment

Key	Columns	Data Type	Description
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	Payment_id	SERIAL	Special # for each payment
	Customer_id	SMALLINT	Special # for each customer
	Staff_id	SMALLINT	Special # for each staff
	Rental_id	INTEGER	Special # for each movie rental
	Amount	NUMERIC(5,2)	\$ amount for each movie rental
	Payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time for each payment

### 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

### Dimension Tables:

## Rental

Key	Columns	Data Type	Description
	Rental_id	SERIAL	Special # for each movie rental
	Rental_date	TIME STAMP(6) WITHOUT TIME ZONE	Date and time of the movie rental
	Inventory_id	INTEGER	Special # for each movie rental in the inventory
	Customer_id	SMALLINT	Special # for each customer
	Return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of movie rental return
	Staff_id	SMALLINT	Special # for each Staff
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of when the table was last updated




### Links to:

Table	Join
Customer	rental.customer_id = customer.customer_id
Inventory	rental.inventory_id = inventory.inventory_id
Staff	rental.staff_id = staff.staff_id

### Links from:

Table	Join
Payment	payment.rental_id = rental.rental_id

### Store:

Key	Columns	Data Type	Description
	Store_id	SERIAL	Special # for each store
	Manager_staff_id	SMALLINT	Special # for manager of each store
	Address_id	SMALLINT	Special # for each store's address
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of when the table was last updated

#### Links to:



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

#### Links from:

Table	Join
Staff	staff.store_id = store.store_id
Customer	customer.store_id= store.store_id
Inventory	inventory.store_id = store.store_id

#### Film Actor:



key	Columns	Data type	Description
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	Actor_id	SMALLINT	Special # for each Actor
	Film_id	SMALLINT	Special # for each film
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time when the table was last updated

#### Links to:

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


#### Film Category:



Key	Columns	Data type	Description
	Film_id	SMALLINT	Special # for each film
	Category_id	SMALLINT	Special # for each film category
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time for when the table was last updated

#### Links to:

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

#### Inventory:

Key	Columns	Data type	Description
	Inventory_id	SERIAL	Special # for every movie in the inventory

	Film_id	SMALLINT	Special # for each film
	Store_id	SMALLINT	Special # for each store
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of when the table was last updated



#### Links to:

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


#### Links from:

Table	Join
rental	rental.inventory_id = inventory.inventory_id

#### Customer:

key	Columns	Data type	Description
	Customer_id	SERIAL	Special # for each customer
	Store_id	SMALLINT	Special # for each store
	First_name	CHARACTER VARYING(45)	First name of each customer



	Last_name	CHARACTER VARYING(45)	Last name of each customer
	email	CHARACTER VARYING(50)	Email address of each customer
	Address_id	SMALLINT	Special # for each customer address
	activebool	BOOLEAN	It's the customer active? True or False response
	Create_date	DATE	The date of when the customer's account was created
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time when the table was last updated
	active	INTEGER	0 or 1 indicates the customer's active status



#### Links to:

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

#### Links from:

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

#### Staff:

key	Columns	Data type	Description
	Staff_id	SERIAL	Special # for each staff member
	First_name	CHARACTER VARYING(45)	First name of each staff member
	Last_name	CHARACTER VARYING(45)	Last name of each staff member
	Address_id	SMALLINT	Special # for each staff member's address

	email	CHARACTER VARYING(50)	Email address of each staff member
	Store_id	SMALLINT	Special # for each store
	active	BOOLEAN	It's the staff member active? True or false response
	username	CHARACTER VARYING(16)	Username for each staff member
	password	CHARACTER VARYING(40)	Password for each staff member
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of when the table was last updated
	picture	BYTEA	Photo of each staff member, if is available


#### Links to:

Table	Join
address	staff.address_id = address.address_id

#### Links from:

Table	Join
payment	payment.staff_id = staff.staff_id rental
rent	customer.customer_id = rental.customer_id store
store	store.manager_staff_id = staff.staff_id

#### Actor:


key	Columns	Data type	Description
	Actor_id	SERIAL	Special # for each actor
	First_name	CHARACTER VARYING(45)	First name of each actor
	Last_name	CHARACTER VARYING(45)	Last name of each actor
	Last_update	TIME STAMP(6) WITHOUT TIME ZONE	Date and time of when the table was last updated

#### Links from:

Table	Join
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film_actor	film_actor.actor_id = actor.actor_id
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### Category:

key	Columns	Data type	Description
	Category_id	SERIAL	Special # for each film category
	name	CHARACTER VARYING(25)	Name of each category
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of when last the table was updated

### Links from:

Table	Join
Film_category	film_category.category_id = category.category_id

### Film

key	Columns	Data type	Description
	Film_id	SERIAL	Special # for each film
	Title	CHARACTER VARYING(255)	Title of the film
	Description	TEXT	Film decription
	Release_year	year	The year of the film release
	Language_id	SMALLINT	Special # for each film language
	Rental_duration	SMALLINT	The number of days the film was rented
	Rental_rate	NUMERIC(4,2)	\$ amount of the film rental
	length	SMALLINT	# of hours for each film
	Replacement_cost	NUMERIC(5,2)	\$ amount to replace each film

	Rating	Mpaa_rating	The rating of each film (i.e G,PG,PG13,PG18 etc)
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of when the table was last updated
	Special_features	TEXT[]	Special features that each film contains
	fulltext	TSVECTOR	Keywords linked to each film that maybe used by customers to search for the film



#### 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

#### Address:

key	Columns	Data type	Description
	Address_id	SERIAL	Special # for each store, staff member and customer address
	Address	CHARACTER VARYING(50)	The street address
	Address2	CHARACTER VARYING(50)	The 2 <sup>nd</sup> part of the address for apartment #'s, suite #'s etc
	district	CHARACTER VARYING(20)	The state, province or territory of the address
	City_id	SMALLINT	Special # for each city
	Postal_code	CHARACTER VARYING(10)	Postal code for each address
	phone	CHARACTER VARYING(20)	Phone number for each address
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of when last the table was updated


#### Links to:

Table	Join
city	address.city_id = city.city_id

### Links from:

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



### Language

key	Columns	Data type	Description
	Language_id	SERIAL	Special # for each film's language
	name	CHARACTER(20)	Language name of each film
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of when last the table was updated

### Links from:

Table	Join
film	film.language_id = language.language_id

### City

key	Columns	Data type	Description
	City_id	SERIAL	Special # for each city
	city	CHARACTER VARYING(50)	The name of city
	Country_id	SMALLINT	Special # for each country
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of when last the table was updated


**Links to:**

Table	Join
country	city.country_id = country.country_id

**Links from:**

Table	Join
country	country.country_id = city.country_id
address	address.city_id = city.city_id

**Country**

key	Columns	Data type	Description
	Country_id	SERIAL	Special # for each country
	Country	CHARACTER VARYING(50)	Name of the country
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of when the table was last updated

**Links from:**

Table	Join
city	city.country_id = country.country_id