

# ROCKBUSTER

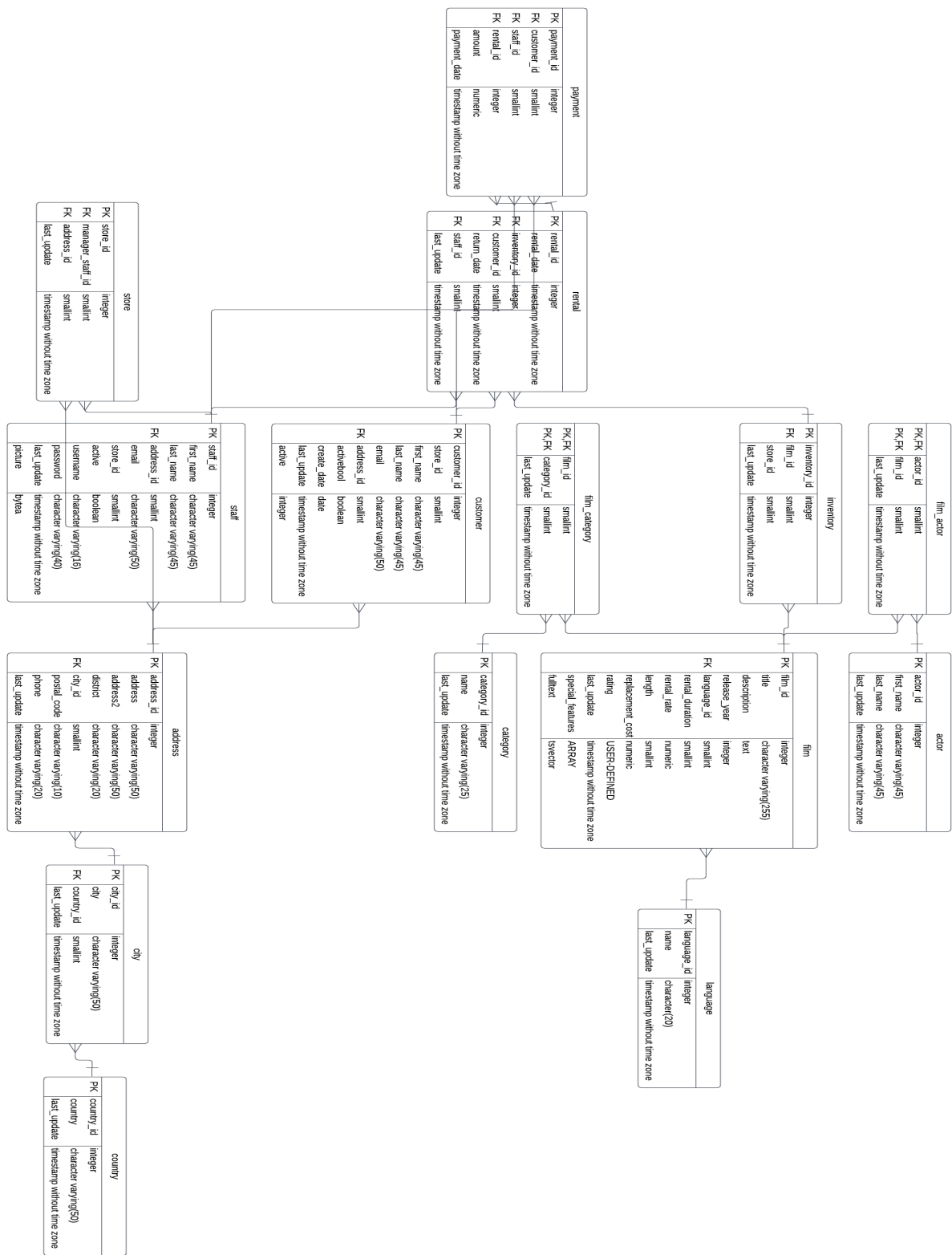
## Data Dictionary



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1.Entity Relationship Diagram (ERD)



## 2. Tables







Primary Key

Foreign Key 

### 2.1 Fact Table:

#### Rental

	Columns	Data Type	Description
	<b>rental_id</b>	Serial	Assigned each movie number
	<b>rental_date</b>	Timestamp (6) without time zone	Movie rented date and time
	<b>inventory_id</b>	Integer	Assigned inventory details
	<b>customer_id</b>	Smallint	Assigned customer number
	<b>return_date</b>	Timestamp (6) without time zone	Rented movie return date and time
	<b>staff_id</b>	Smallint	Assigned staff number
	<b>last_update</b>	Timestamp (6) without time zone	Movie last update date and time





#### Links to

Table	Join
<b>Customer</b>	rental.customer_id = customer.customer_id
<b>Staff</b>	rental.staff_id = staff.staff_id
<b>Inventory</b>	rental.inventory_id = inventory.inventory_id

#### Links From

Table	Join
<b>Payment</b>	payment.payment_id = rental.payment_id

## Payment




	Columns	Data Type	Description
	<b>payment_id</b>	Serial	Assigned payment number
	<b>customer_id</b>	Smallint	Assigned customer number
	<b>staff_id</b>	Smallint	Assigned staff number
	<b>rental_id</b>	Integer	Assigned rental number
	<b>amount</b>	Numeric (5,2)	Movie rental cost of amount
	<b>payment_date</b>	Timestamp (6) without time zone	Rental movie payment date and time

## Links to

Table	Join
<b>Rental</b>	payment.rental_id = rental.rental_id
<b>Customer</b>	payment.customer_id = customer.customer_id
<b>Staff</b>	payment.staff_id = staff.staff_id

## 2.2 Dimension Table:



### Store

	Columns	Data Type	Description
	<b>store_id</b>	Serial	Assigned store number
	<b>manager_staff_id</b>	Smallint	Assigned store manager number
	<b>address_id</b>	Smallint	Assigned store address number
	<b>last_update</b>	Timestamp (6) without time zone	Store last update date and time

## Links to

Table	Join
<b>Address</b>	store.address_id = address.address_id
<b>Staff</b>	store.staff_id = staff.staff_id



**Film\_actor**

	Columns	Data Type	Description
	<b>actor_id</b>	Smallint	Assigned actor number
	<b>film_id</b>	Smallint	Assigned film number
	<b>last_update</b>	Timestamp (6) without time zone	Film last update date and time

**Links to**

Table	Join
<b>Actor</b>	film_actor.actor_id = actor.actor_id
<b>Film</b>	film_actor.film_id = film.film_id

**Inventory**

	Columns	Data Type	Description
	<b>inventory_id</b>	Serial	Assigned inventory number
	<b>film_id</b>	Smallint	Assigned film number
	<b>store_id</b>	Smallint	Assigned store number
	<b>last_update</b>	Timestamp (6) without time zone	Inventory details last update date and time



**Links to**

Table	Join
<b>Film</b>	inventory.film_id = film.film_id

**Links from**

Table	Join
<b>Rental</b>	rental.inventory_id = inventory.inventory_id



**Film\_category**

	Columns	Data Type	Description
	<b>film_id</b>	Smallint	Assigned film number
	<b>category_id</b>	Smallint	Assigned category number
	<b>last_update</b>	Timestamp (6) without time zone	Fil category last update date and time

**Links to**

Table	Join
<b>Category</b>	film_category.category_id = category.category_id
<b>Film</b>	film_category.film_id = film.film_id

**Customer**

	Columns	Data Type	Description
	<b>customer_id</b>	Serial	Assigned customer number
	<b>store_id</b>	Smallint	Assigned store number
	<b>first_name</b>	Character varying (45)	Customer first name
	<b>last_name</b>	Character varying (45)	Customer last name
	email	Character varying (50)	Customer email address
	<b>address_id</b>	Smallint	Assigned customer address number
	<b>activebool</b>	Boolean	Customer active true or false
	<b>create_date</b>	Date	Customer account create date
	last_update	Timestamp (6) without time zone	Customer account last update date and time
	active	Integer	Customer account active



## Links to

Table	Join
Address	customer.address_id = address.address_id

## Links from

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

## Staff

	Columns	Data Type	Description
	staff_id	Serial	Assigned staff number
	first_name	Character varying (45)	Staff first name
	last_name	Character varying (45)	Staff last name
	address_id	Smallint	Assigned staff address number
	email	Character varying (50)	Staff email address
	store_id	Smallint	Assigned store number
	active	Boolean	Staff active true or false
	username	Character varying (16)	Staff username
	password	Character varying (40)	Staff password
	last_update	Timestamp (6) without time zone	Staff account last update date and time
	picture	Bytea	Staff photo

## Links to


Table	Join
Address	staff.address_id = address.address_id



## Links from

Table	Join
Rental	rental.staff_id = staff.staff_id
Store	store.staff_id = staff.staff_id
Payment	payment.staff_id = staff.staff_id



## Actor

	Columns	Data Type	Description
	actor_id	Serial	Assigned actor number
	first_name	Character varying (45)	Actor first name
	last_name	Character varying (45)	Actor last name
	last_update	Timestamp (6) without time zone	Actor account last update date and time

## Links from

Table	Join
Film_actor	film_actor.actor_id = actor.actor_id

## Film

	Columns	Data Type	Description
	film_id	Serial	Assigned film number
	title	Character varying (255)	Film title
	description	Text	Film information in the text
	release_year	Year	Film release year
	language_id	Smallint	Assigned film language number
	rental_duration	Smallint	Film rental duration
	rental_rate	Numeric (4,2)	Film rental rating
	length	Smallint	Film length
	replacement_cost	Numeric (5,2)	Film replacing cost
	rating	Mpaa_rating	Film rating

	<b>last_update</b>	Timestamp (6) without time zone	Film last update date and time
	<b>special_features</b>	Text []	About special feature of film
	<b>fulltext</b>	Tsvector	Amount of text described in the film


### Links to

Table	Join
<b>Language</b>	film.language_id = language.language_id

### Links from

Table	Join
<b>Film_actor</b>	film_actor.film_id = film.film_id
<b>Film_category</b>	film_category.film_id = film.film_id
<b>Inventory</b>	inventory.film_id = film.film_id



### Category

	Columns	Data Type	Description
	<b>category_id</b>	Serial	Assigned category number
	<b>name</b>	Character varying (25)	Name of category
	<b>last_update</b>	Timestamp (6) without time zone	Category last update date and time

### Links from

Table	Join
<b>Film_category</b>	Film_actor.category_id = category.category_id

## Address

	Columns	Data Type	Description
	<b>address_id</b>	Serial	Assigned address number
	<b>address</b>	Character varying (25)	Address
	address2	Character varying (25)	Second address
	<b>district</b>	Character varying (25)	District of address
	<b>city_id</b>	Smallint	Assigned city number
	postal_code	Character varying (25)	Postal code of address
	<b>phone</b>	Character varying (25)	Phone number
	<b>last_update</b>	Timestamp (6) without time zone	Address last update date and time


## Links to


Table	Join
City	address.city_id = city.city_id

## Links from

Table	Join
Store	store.address_id = address.address_id
Staff	staff.address_id = address.address_id
Customer	customer.address_id = address.address_id

## City

	Columns	Data Type	Description
	<b>city_id</b>	Serial	Assigned city number
	<b>city</b>	Character varying (50)	Name of city

	<b>country_id</b>	Smallint	Assigned country number
	<b>last_update</b>	Timestamp (6) without time zone	City last update date and time


### Links to

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

### Links from

Table	Join
<b>Address</b>	address.city_id = city.city_id


### Country

	Columns	Data Type	Description
	<b>country_id</b>	Serial	Assigned country number
	<b>country</b>	Character varying (50)	Name of country
	<b>last_update</b>	Timestamp (6) without time zone	Country last update date and time

### Links from

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

### Language

	Columns	Data Type	Description
	<b>language_id</b>	Serial	Assigned language number
	<b>name</b>	Character (20)	Name of language

	<b>last_update</b>	Timestamp (6) without time zone	Language last update date and time
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**Links from**

Table	Join
<b>Film</b>	film.language_id = language.language_id